Bay Area Air Quality Management District

375 Beale Street, Suite 600 San Francisco, CA 94105 (415) 771-6000

Final

MAJOR FACILITY REVIEW PERMIT

Issued To: Phillips 66– San Francisco Refinery Facility #A0016

Facility Address:

1380 San Pablo Avenue Rodeo, CA 94572

Mailing Address:

1380 San Pablo Avenue Rodeo, CA 94572

Responsible Official

Richard G. Harbison, General Manager 510 245 4415

Facility Contact-

Jennifer M. Ahlskog, Environmental Director 510 245 4672

Type of Facility: Petroleum refinery BAAQMD Engineering Division Contact:

Primary SIC: 2911 Jimmy Cheng

Product: Refined petroleum products

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

October 27, 2022

Date

Sharon Landers, Acting Executive Officer/APCO

Shara L Landes

TABLE OF CONTENTS

I.	STANDARD CONDITIONS	3
II.	EQUIPMENT	8
III.	GENERALLY APPLICABLE REQUIREMENTS	31
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	35
V.	SCHEDULE OF COMPLIANCE	454
VI.	PERMIT CONDITIONS	454
VII.	APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS	533
VIII.	TEST METHODS	711
IX.	PERMIT SHIELD	721
X.	REVISION HISTORY	723
XI.	GLOSSARY	725

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 5/4/11);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA on 6/28/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 12/7/17) effective until 6/30/22;

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 12/15/21, effective 7/1/22);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA on 5/21/18);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 12/7/17);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA on 5/21/18);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 12/6/17);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA on 12/4/17);

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants

(as amended by the District Board on 12/07/16) effective until 6/30/22;

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants

(as amended by the District Board on 12/15/21, effective 7/1/22);

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

(as amended by the District Board on 12/6/17); and

SIP Regulation 2, Rule 6 – Permits, Major Facility Review

(as approved by EPA through 6/23/95)

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

- 1. This Major Facility Review Permit was issued on January 25, 2018, and expires on January 24, 2023. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than July 24, 2022 and no earlier than January 24, 2022. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after January 24, 2023.** If the permit renewal has not been issued by January 24, 2023, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)
- 2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

I. Standard Conditions

3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

- 4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
- 5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
- 8. Any records required maintained pursuant to this permit, which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
- 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B Public Information, Confidentiality of Business Information. (40 CFR Part 2)
- 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
- 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)
- 12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

I. Standard Conditions

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

- 1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
- 2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. Reports shall be for the following periods: July 1st through December 31st and January 1st through June 30th. All reports are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent by e-mail to compliance@baaqmd.gov or by postal mail to the following address:

Director of Compliance and Enforcement Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105 Attn: Title V Reports

(Regulation 2-6-502, MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be January 1st to December 31st. The certification shall be submitted by January 31st of each year. The certification must list

I. Standard Conditions

each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent by email to r9.aeo@epa.gov or postal mail to the Environmental Protection Agency at the following address:

Director
Enforcement Division, TRI & Air Section (ENF-2-1)
USEPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

- 1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
- 2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
- 3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous Conditions

- 1. [Reserved]
- 2. For grandfathered sources, the throughput limits as shown in Condition 20989 are based upon District records at the time of the MFR permit issuance. These throughput limits function as reporting thresholds only and exceedance of any of these limits does not constitute noncompliance with the MFR permit. As such, exceedance of a grandfathered limit is not subject to Section I.F reporting requirements. Exceedance of a grandfathered limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred.

I. Standard Conditions

The facility must report any exceedance of these limits in the form of a permit application within 30 days of discovery to facilitate the determination of whether a modification has occurred. The applications shall be sent to the following address:

Air Quality Engineering Manager Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105-2001 Attn: Permit Evaluation Section, Title V Reports

- 3. [Reserved]
- 4. Where an applicable requirement allows multiple compliance options and where more than one such option is incorporated into the permit, the permit holder must maintain records indicating the selected compliance option. Such records at a minimum shall indicate when any change in options has occurred. In addition, the annual compliance certification must specifically indicate which option or options were selected during the certification period. This is in addition to any recordkeeping and reporting contained in the requirement itself.
- 5. Deleted Application 12433.
- 6. Deleted Application 12433.
- 7. Deleted Application 12433.
- 8. Deleted Application 12433.
- 9. In accordance with Condition 20989 part 2, the owner/operator shall notify the District no less than three calendar days in advance of any scheduled startup or shutdown of a process unit and within 48 hours or within the next normal business day of any unscheduled startup or shutdown of a process unit.

K. Accidental Release

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10. The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)

II. EQUIPMENT

Table II A - Permitted Sources

S#	Description	Make or Type	Model	Capacity
	U229, B-301 Heater	Petro-Chem	process	22 MMbtu/hr
2	(natural gas, refinery fuel gas)		heater	
	U230, B-201 Heater	Petro-Chem	process	53 MMbtu/hr
3	(natural gas, refinery fuel gas)		heater	
	U231, B-101 Heater	Braun	process	96 MMbtu/hr
4	(natural gas, refinery fuel gas)		heater	
	U231, B-102 Heater	Braun	process	104 MMbtu/hr
5	(natural gas, refinery fuel gas)		heater	
	U231, B-103 Heater	Petro-Chem	process	64 MMbtu/hr
7	(natural gas, refinery fuel gas)		heater	
	U240, B-2 Boiler	Born	process	61 MMbtu/hr
9	(natural gas, refinery fuel gas)		heater	
	U240, B-101 Heater	Foster-Wheeler	process	223 MMbtu/hr
10	(natural gas, refinery fuel gas)		heater	
	U240, B-201 Heater	Econo-Therm	process	108 MMbtu/hr
11	(natural gas, refinery fuel gas)		heater	
	U240, B-202 Heater	Econo-Therm	process	42 MMbtu/hr
12	(natural gas, refinery fuel gas)		heater	
	U240, B-301 Heater	Born	process	194 MMbtu/hr
13	(natural gas, refinery fuel gas)		heater	
	U244, B-501 Heater	Alcorn	process	239.75 MMbtu/hr total for
15	(natural gas, refinery fuel gas)		heater	S15 through S19
	U244, B-502 Heater	Alcorn	process	239.75 MMbtu/hr total for
16	(natural gas, refinery fuel gas)		heater	S15 through S19
	U244, B-503 Heater	Alcorn	process	239.75 MMbtu/hr total for
17	(natural gas, refinery fuel gas)	1	heater	S15 through S19
10	U244, B-504 Heater	Alcorn	process	239.75 MMbtu/hr total for
18	(natural gas, refinery fuel gas)	4.1	heater	S15 through S19
10	U244, B-505 Heater	Alcorn	process	239.75 MMbtu/hr total for
19	(natural gas, refinery fuel gas)	D MI	heater	S15 through S19
20	U244, B-506 Heater	Econo-Therm	process	23 MMbtu/hr
20	(natural gas, refinery fuel gas) U244, B-507 Heater	Econo Thomas	heater	Q 1 MMhtss/han
21	(natural gas, refinery fuel gas)	Econo-Therm	process heater	8.1 MMbtu/hr
21	U248, B-606 Heater	Econo-Therm	+	31 MMbtu/hr
22	(natural gas, refinery fuel gas)	Econo-1 nerm	process heater	31 IVIIVIDUU/IIF
22	U200, B-5 Heater	Foster-Wheeler	+	103 MMbtu/hr
29	(natural gas, refinery fuel gas)	1 OSICI - W HECHEL	process heater	103 IVIIVIUW/III
47	U200, B-101 Heater	Petro-Chem	process	50 MMbtu/hr
30	(natural gas, refinery fuel gas)	1 Cuo-Chem	heater	JO IVIIVIOCU/III
30	U200, B-501 Heater	Petro-Chem	process	20 MMbtu/hr
31	(natural gas, refinery fuel gas)	1 CHO-CHEIH	heater	20 IVIIVIOUU/III
31	U200, B-102 Heater	NA	process	82.1 MMbtu/hr
36		11/1	_	02.1 1/11/10td/111
36	(natural gas, refinery fuel gas)		heater	

II. Equipment

Table II A - Permitted Sources

S#	Description	Make or Type	Model	Capacity
	U200, B-202 Heater		process	230 MMbtu/hr
43	(natural gas, refinery fuel gas)		heater	
	U200, B-201 PCT Reboil		process	46 MMbtu/hr
	Furnace		heater	
44	(natural gas, refinery fuel gas)			
	U246 B-801 A/B Heater			85 MMbtu/hr
45	(refinery fuel gas, natural gas)			
	Diesel Engine (turbine S352	Allis-Chalmers	6138	435 hp
50	startup)			
	Diesel Engine (turbine S353	Allis-Chalmers	6138	435 hp
51	startup)			
50	Diesel Engine (turbine S354	Allis-Chalmers	6138	435 hp
52	startup)	<i>C</i> :	CD 7.0	07.1
52	SPP Emergency Generator G-27	Cummins	6B-5.9	97 hp
53	(diesel fuel)	C-+:11	2406	270 1
5.6	Pump Station 4 G-201A Emergency Engine (diesel fuel)	Caterpillar	3406	370 hp
56	Pump Station 4 G-201B	Caterpillar	3406	370 hp
57	Emergency Engine (diesel fuel)	Caterpinar	3400	370 lip
31	Pump Station 4 G-422A	Caterpillar	3406	370 hp
58	Emergency Engine (diesel fuel)	Caterpinal	3400	370 lip
30	Pump Station 4 G-422B	Caterpillar	3406	370 hp
59	Emergency Engine (diesel fuel)	Cutcipinai	3400	370 пр
97	Tank 100	external floating roof	crude oil	298 thousand bbl
	74411 100	external floating roof	Petroleum	170 thousand barrels
98	Tank 101		liquids	
100	Tank 103	external floating roof	ship ballast	47 thousand bbl
	Storm Water Equalization Tank	external floating roof	stormwater	5.5 million gal
101	T-104			5
	Storm Water Equalization Tank	external floating roof	stormwater	5.5 million gal
102	T-105			
	Storm Water Equalization Tank	external floating roof	stormwater	10.6 million gal
106	T-130			
107	Tank 150	external floating roof	crude oil	68 thousand bbl
		external floating roof	crude oil,	4.2 million gal
			gas oil,	
110	Tank 155		distillate oil	
111	Tank 156	external floating roof	crude oil	100 thousand bbl
112	Tank 157	external floating roof	crude oil	100 thousand bbl
113	Tank 158	external floating roof	crude oil	101 thousand bbl
114	Tank 159	external floating roof	crude oil	136 thousand bbl
115	Tank 160	external floating roof	naphtha	75 thousand bbl
122	Tank 167	external floating roof	naphtha	3.1 million gal
123	Tank 168	external floating roof	naphtha	75 thousand bbl

II. Equipment

Table II A - Permitted Sources

S#	Description	Make or Type	Model	Capacity
124	Tank 169	external floating roof	naphtha	75 thousand bbl
125	Tank 170	external floating roof	naphtha	75 thousand bbl
126	Tank 172	internal floating roof tank with domed roof	Petroleum Liquid	75 thousand bbl
128	Tank 174	external floating roof	crude oil, naphtha	76 thousand bbl
129	Tank 180	external floating roof	naphtha	76 thousand bbl
133	API Waste Oil Tank T-193	external floating roof	waste oil	22 thousand bbl
134	API Waste Oil Tank T-194	external floating roof	waste oil	22 thousand bbl
135	Tank 200	Fixed roof	Petroleum liquids to 11 psia	79 thousand bbl
137	Tank 202	Fixed roof	Petroleum liquids to 11 psia	88 thousand bbl
139	Tank 204 (also oil-water separator)	Fixed roof	Sour water, distillate oil	81 thousand bbl
140	Tank 205 (also oil-water separator)	Fixed roof	Sour water, naphtha	54 thousand bbl
150	Tank 241	external floating roof	gasoline	79 thousand bbl
151	Tank 242	external floating roof	gasoline	75 thousand bbl
168	Tank 269	Fixed roof	Non- phenolic water	39 thousand bbl
173	Tank 280	Fixed roof	Gas oil	134 thousand bbl
174	Tank 281	Fixed roof	Gas oil	134 thousand bbl
175	Tank 284	Fixed rood	Gas oil	134 thousand bbl
177	Tank 287	external floating roof	gasoline	104 thousand bbl
178	Tank 288	external floating roof	diesel	104 thousand bbl
182	Tank 294	fixed roof	naphtha	40 thousand bbl
183	Tank 295	external floating roof	naphtha	13 thousand bbl
184	Tank 296	external floating roof	naphtha	70 thousand bbl
186	Tank 298	external floating roof	naphtha	47 thousand bbl
194	Tank 306	fixed roof	dye	2,000 gal
195	Water Treatment Sludge Tank T-501	fixed-roof	sludge	2,500 bbl
216	Tank 695	external floating roof	naphtha	2.0 million gal
239	Stripped Foul Water Tank T-212	fixed-roof	sour water	10,000 bbl
254	Tank 1001	external floating roof	gasoline	104 thousand bbl
255	Tank 1002	external floating roof	gasoline	104 thousand bbl
256	Tank 1003	external floating roof	gasoline	104 thousand bbl
257	Tank 1004	internal floating roof tank with dome roof	gasoline	104 thousand bbl

II. Equipment

Table II A - Permitted Sources

S#	Description			Capacity	
		internal floating roof	gasoline	104 thousand bbl	
258	Tank 1005	tank with dome roof			
259	Tank 1006	external floating roof	gasoline	104 thousand bbl	
		external floating roof	naphtha,	104 thousand bbl	
261	Tank 1010		distillate oil		
	Non-Retail Gasoline Dispensing	phase I / II vapor	EW A4000	15,000 gal underground	
294	Facility (GDF 7609 – 1 nozzle)	recovery		tank	
• • •	C-1 Flare (main refinery flare,	Callidus		845 ton/hr gas handling	
296	elevated, steam-assisted, serves			capacity, 6.6 MMbtu/hr	
200	S304, S305, S306)	11 1 1	37.4	pilot	
300	U200 Delayed Coker	delayed coker	NA	81,000 bbl/day	
301	Molten Sulfur Pit 234	NA	NA	271 long ton/day for S301, S302, S303	
301	Worten Sunui i it 234	NA	NA	271 long ton/day for S301,	
302	Molten Sulfur Pit 236	INA	INA	\$302, \$303	
		NA	NA	271 long ton/day for S301,	
303	Molten Sulfur Pit 238		1,11	S302, S303	
	U229 Light Naphtha	NA	NA	12,198 bbl/day monthly	
304	Hydrotreater			average	
	U230 Prefractionator/Naphtha	NA	NA	28,000 bbl/day	
305	Hydrotreater				
306	U231 Platforming Unit	NA	NA	21,000 bbl/day	
		NA	NA	$S307 + S434 \le 69,000$	
307	U240 Unicracking Unit			bbl/day	
308	U244 Reforming Unit	NA	NA	18,500 bbl/day	
309	U248 UNISAR Unit	NA	NA	16,740 bbl/day	
		NA	NA	113,150 bbl/day	
	HIZCO II AK'ID I			petroleum fluids except	
210	U76 Gasoline/Mid Barrel			diesel,	
318	Blending Unit	N/A	NI A	No daily limit for diesel	
319	U215 Gasoline Fractionating Unit	NA	NA	9,600 bbl/day	
319	Oint	NA	NA	throughput limited at	
		IVA	INA	specific tanks, process	
322	U40 Raw Materials Receiving			units	
322	U100 API Oil Wastewater	NA	NA	7,500 gpm during media	
	Separator (with outlet channel		1171	filter backwash and 7,000	
324	cover)			gpm during all other times	
334	Tank 107	external floating roof	crude oil	180 thousand bbl	
	U231 B-104 Heater	Foster-Wheeler	process	111 MMbtu/hr	
336	(natural gas, refinery fuel gas)		heater		
	U231 B-105 Heater	Foster-Wheeler	process	34 MMbtu/hr	
337	(natural gas, refinery fuel gas)		heater		
338	U233 Fuel Gas Center			7.5 E 6 cubic feet/hr	
339	U80 Refined Oil Shipping Unit	gasoline shipping		294 thousand gal/hr	

II. Equipment

Table II A - Permitted Sources

S#	Description	Make or Type	Model	Capacity
340	Tank 108	external floating roof	crude oil	200 thousand bbl
		external floating roof	Petroleum	103 thousand bbl
341	Tank 208		Liquid	
		external floating roof	Petroleum	103 thousand bbl
342	Tank 209		Liquid	
343	Tank 210	external floating roof	gasoline	103 thousand bbl
		atmospheric/vacuum		36,000 bbl/day
350	U267 Crude Distillation Unit	towers		
	U267 B-601/602 Tower Pre-			95 MMbtu/hr
	heaters			
351	(natural gas, refinery fuel gas)			
	Combustion Turbine	Westinghouse	191	291 MMbtu/hr
352	(natural gas, refinery fuel gas)			continuously
	Combustion Turbine	Westinghouse	191	291 MMbtu/hr
353	(natural gas, refinery fuel gas)			continuously
	Combustion Turbine	Westinghouse	191	291 MMbtu/hr
354	(natural gas, refinery fuel gas)			continuously
	Supplemental Firing Duct	Coen		175 MMbtu/hr
	Burners			
355	(natural gas, refinery fuel gas)			
	Supplemental Firing Duct	Coen		175 MMbtu/hr
	Burners			
356	(natural gas, refinery fuel gas)			4553 5 5 7
	Supplemental Firing Duct	Coen		175 MMbtu/hr
	Burners			
357	(natural gas, refinery fuel gas)	2		440.4
360	Mid-Barrel Tank 223	fixed roof	distillate oil	110 thousand bbl
370	U228 Isomerization Unit			460 bbl/hr
	U228 B-520 (Adsorber Feed)	Selas		58 MMbtu/hr for S371,
271	Furnace			372
371	(natural gas, refinery fuel gas)	0.1		503.0.0.4.6.6051
	U228 B-521 (Hydrogen Plant)	Selas		58 MMbtu/hr for S371,
272	Furnace			372
372	(natural gas, refinery fuel gas)	D '11 A11	DM 22	20. 1
376	Tool Room Cold Cleaner	Build-All	DM-32	29 gal
377	Machine Shop Cold Cleaner	Build-All	DM-32	29 gal
378	Auto Shop Cold Cleaner	Snap-On	DM-226	18 gal
380	Activated Carbon Silo (P-204)		100 6: 11	50,000 lb
381	Aeration Tank, Pact (F-201)	wastewater	100 ft dia	1.2 million gal
382	Aeration Tank, Pact (F-202)	wastewater	100 ft dia	1.2 million gal
383	Clarifier, F-203	wastewater	95 ft dia	0.69 million gal
384	Clarifier (F-204)	wastewater	95 ft dia	0.69 million gal
385	Media Filter (F271-F278)	wastewater		420 thousand gal/hr
	PAC Regeneration Sludge		25 ft dia	44,000 gal
386	Thickener (F-211)			

II. Equipment

Table II A - Permitted Sources

S#	Description	Make or Type	Model	Capacity
387	Wet Air Regeneration (P-202)	Zimpro		15 gpm
390	F-106 Thickened Sludge Storage	15 ft diameter open tank		38,000 gal
392	Regenerated PAC Slurry Storage Tank F-266	fixed roof		42,000 gal
398	MP-30 Flare (backup refinery flare, elevated, steam-assisted, serves S304, S305, S306)	John Zink	Q5-48C	845 ton/hr gas handling capacity, 3.1 MMbtu/hr pilot
400	Wet Weather Wastewater Sump (with vented cover)	32 ft x 36 ft x 23 ft deep		175 thousand gal
401	Dry Weather Wastewater Sump (with vented cover)	33 ft x 25 ft x 26 ft deep		150 thousand gal
425	Marine Loading Berth M1	2 permitted arms		Products: 25,000 bbl/day annual average for S425, S426 total; Crude oil or gas oil: 51,182 bbl/day annual average for S425, S426 total
		4 permitted arms		Products: 25,000 bbl/day annual average for S425, S426 total; Crude oilor gas oil: 51,182 bbl/day annual average for
426	Marine Loading Berth M2			S425, S426 total
432	U215 Deisobutanizer			10,200 bbl/day
433	MOSC Storage Tank	fixed roof		30,000 gal
434	U246 High Pressure Reactor Train (Cracking)			27,000 bbl/day annual daily average (9,855,000 bbl per consecutive 12 months period)
435	Reformate Splitter			18,100 bbl/day
436	Deisopentanizer			13,400 bbl/day
437	Hydrogen Manufacturing Unit U110, H-1 (H2 Plant Reforming) Furnace (natural gas, refinery fuel gas, PSA offgas)	John Zinc PFFG burners	reforming furnace	28.5 million scf/day 250 MMbtu/hr
439	Tank 109	external floating roof	Crude oil, gasoline, others	161 thousand bbl
440	Tank 110 (Alkylate)	external floating roof	alkylate	161 thousand bbl
442	Tank 112	external floating roof	crude oil, gas oil	161 thousand bbl

II. Equipment

Table II A - Permitted Sources

S#	Description	Make or Type	Model	Capacity
		external floating roof	gasoline,	113 thousand bbl
444	Tank 243		others	
445	Tank 271 (Cracked Naphtha)	fixed roof tank	naphtha	189 thousand bbl
446	Tank 310 (Isopentane)	fixed roof	isopentane	41 thousand bbl
447	Tank 311 (Isopentane)	fixed roof	isopentane	41 thousand bbl
		internal floating roof	gasoline,	243 thousand bbl
	Tank 1007 (Blendstock		diesel,	
448	Receiving)		others	
449	Tank 285 (Cracked Naphtha)	fixed roof	naphtha	189 thousand bbl
			ground-	3 gpm continuously
	Groundwater Extraction		water	
450	Trenches		remediation	
453	U236 Cooling Tower	Induced draft	Unknown	13,500 gpm
455	U240 Cooling Tower	Induced draft	Unknown	33,000 gpm
		NA	NA	35,000 bbl/day monthly
460	U250 Diesel Hydrotreater			average
	U250, B-701 Heater	NA	process	50.2 MMbtu/hr
461	(natural gas, refinery fuel gas)		heater	
160	U215 Fuel Gas Caustic	NA	NA	4.2 million scf/day of fuel
462	Treatment System	NIA	NTA	gas
463	U215 Butane Caustic Treatment System	NA	NA	1,000 bbl/day of butane
465	Molten Sulfur Pit	NA	NA	200 long ton/day
503	Sulfur Storage Tank	11/1	11/11	471 long ton/day sulfur
504	Sulfur Degassing			400 long tons/day sulfur
505	Sulfur Truck Loading Rack			200 gpm sulfur
303	Surfar Truck Bouding Ruck	fixed roof	heavy	80 thousand bbl
506	Tank 257	IIACG 1001	unicrackate	oo arousana sor
	Tank 21, Unit 76 Active	fixed roof		450 gallons
507	Skimmer System			12.4 8
			Claus	106.3 long ton/day; 201
	Sulfur Plant Unit 236 (including			long ton/day for S1002
1002	aux. burner, water stripper)			and S1003 combined
			Claus	134.5long ton/day; 201
	Sulfur Plant Unit 238 (including			long ton/day for S1002
1003	aux. burner)			and S1003 combined
				7,500 gpm during media
40	U100 Dissolved Air Flotation			filter backwash and 7,000
1007	Unit (with fixed roof)			gpm during all other times
1000	U100 Primary Stormwater			2.3 MMgal
1008	Basin			70104 1
1009	U100 Main Stormwater Basin		- CI	7.2 MMgal
1010	Sulfur Plant Unit 235 (including		Claus	200 long ton/day
1010	aux. burner)			

II. Equipment

Table II A - Permitted Sources

S#	Description	Make or Type	Model	Capacity
	NEG-1 Standby Generator,	Cummins	QSL9-G3	363 bhp
1011	Emergency Standby, IC Engine			
		fixed roof	E-III	8000 gallon
			Industrial	
1012	Fire Training Fluid Tank		Grade	

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
2	Sulfur Plant Tail-Gas	S1002	BAAQMD	none	95% of H2S in
	Treatment Plant (Beavon-	tailgas.	9-1-313.2 and		refinery fuel
	Stretford)	S302	SIP		gas is removed
			9-1-313.2		and recovered
					on a refinery-
					wide basis
2	Sulfur Plant Tail-Gas	S1002	BAAQMD	none	0.08 grain/dscf
	Treatment Plant (Beavon-	tailgas.	6-1-330 and		exhaust
	Stretford)	S302	SIP 6-330		concentration
					of SO3 and
					H2SO4,
					expressed as
					100% H2SO4
2	Sulfur Plant Tail-Gas	S1002	40 CFR	none	SO2 < 250 ppm
	Treatment Plant (Beavon-	tailgas.	60.102a(f)(1)(i		at 0% O2
	Stretford)	S302)		
2	Sulfur Plant Tail-Gas	S1002	40 CFR	none	SO2 < 250 ppm
	Treatment Plant (Beavon-	tailgas.	63.1568(a)(1)		at 0% O2
	Stretford)	S302	(i)		
3	Sulfur Plant Tail-Gas	S1003	BAAQMD	none	95% of H2S in
	Treatment Plant (Beavon-	tailgas.	9-1-313.2 and		refinery fuel
	Stretford)	S303	SIP		gas is removed
			9-1-313.2		and recovered
					on a refinery-
					wide basis

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
3	Sulfur Plant Tail-Gas	S1003	BAAQMD	none	0.08 grain/dscf
	Treatment Plant (Beavon-	tailgas.	6-1-330 and		exhaust
	Stretford)	S303	SIP 6-330		concentration
					of SO3 and
					H2SO4,
					expressed as
					100% H2SO4
3	Sulfur Plant Tail-Gas	S1003	40 CFR	none	SO2< 250 ppm
	Treatment Plant (Beavon-	tailgas.	60.102a(f)(1)(i		at 0% O2
	Stretford)	S303)		
3	Sulfur Plant Tail-Gas	S1003	40 CFR	none	SO2< 250 ppm
	Treatment Plant (Beavon-	tailgas.	63.1568(a)(1)		at 0% O2
	Stretford)	S303	(i)		
4	SCR System	S43	BAAQMD	NOx, O2 CEMs	40 ppmv NOx
			Condition		at 3% O2 (over
			1694		8-hr period)
					except at
					startup and
					shutdown
4	SCR System	S43	BAAQMD	none	50 ppmv CO at
			Condition		3% O2
			1694		(monthly
					average) except
					at startup and
					shutdown
6	SCR System	S351	BAAQMD	NOx, O2 CEMs	20 ppmv NOx
			Condition		at 3% O2 (over
			1694		3-hr period)
					except at
					startup and
					shutdown

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
7	Vapor Recovery System (4	Tanks	BAAQMD	none	nuisance odors
	electrically driven	S135,	7-301, 7-302,		
	compressors)	S137.	7-303		
		S139,			
		S140,			
		S168,			
		S173,			
		S174,			
		S175,			
		S182,			
		S433,			
		S445,			
		S446,			
		S447, S506			
7	Vapor Recovery System (4	S135,	BAAQMD	None	95% overall
	electrically driven	S137,	8-5-306		control of
	compressors)	S139,			emissions
		S140,			
		S168,			
		S173,			
		S174,			
		S175,			
		S182,			
		S360,			
		S449, S506			
7	Vapor Recovery System (4	S449	BAAQMD	None	vent emissions
	electrically driven		Condition		to the refinery
	compressors)		11219		fuel gas system
7	Vapor Recovery System (4	S433	BAAQMD	None	vent emissions
	electrically driven		Condition		to the refinery
	compressors)		7353		fuel gas system
7	Vapor Recovery System (4	S445	BAAQMD	None	vent emissions
	electrically driven		Condition		to the refinery
	compressors)		12130		fuel gas system
7	Vapor Recovery System (4	S446	BAAQMD	None	vent emissions
	electrically driven		Condition		to the refinery
	compressors)		12131		fuel gas system

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
7	Vapor Recovery System (4	S447	BAAQMD	None	vent emissions
	electrically driven		Condition		to the refinery
	compressors)		12132		fuel gas system
7	Vapor Recovery System (4	S182	BAAQMD	None	vent emissions
	electrically driven		Condition		to the refinery
	compressors)		13184		fuel gas system
7	Vapor Recovery System	S135,	BAAQMD	Pressure	Various
	(4 electrically driven	S137,	Condition		pressure
	compressors)	S139,	23724		settings
		S140,			between 1.7
		S168,			and 2.2 inches
		S173,			of water
		S174,			
		S175,			
		S182,			
		S360,			
		S445,			
		S449,			
		S506, Tank			
		235, Tank			
		236			
8	Stretford Evaporative Cooler	S301	BAAQMD	none	95% of H2S in
			9-1-313.2 and		refinery fuel
			SIP		gas is removed
			9-1-313.2		and recovered
					on a refinery-
					wide basis
8	Stretford Evaporative Cooler		BAAQMD	none	0.08 grain/dscf
			6-1-330 and		exhaust
			SIP 6-330		concentration
					of SO3 and
					H2SO4,
					expressed as
					100% H2SO4

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
9	Stretford Evaporative Cooler	S302	BAAQMD	none	95% of H2S in
			9-1-313.2 and		refinery fuel
			SIP		gas is removed
			9-1-313.2		and recovered
					on a refinery-
					wide basis
9	Stretford Evaporative Cooler		BAAQMD	none	0.08 grain/dscf
			6-1-330 and		exhaust
			SIP 6-330		concentration
					of SO3 and
					H2SO4,
					expressed as
					100% H2SO4
10	Stretford Evaporative Cooler	S303	BAAQMD	none	95% of H2S in
			9-1-313.2 and		refinery fuel
			SIP		gas is removed
			9-1-313.2		and recovered
					on a refinery-
					wide basis
10	Stretford Evaporative Cooler		BAAQMD	none	0.08 grain/dscf
			6-1-330 and		exhaust
			SIP 6-330		concentration
					of SO3 and
					H2SO4,
					expressed as
					100% H2SO4
13	SCR System	S352,	BAAQMD	NOx CEM	66 lb/hr NOx (3
		S355	Condition		hr average),
			12122, Part 9a		167 ton/yr NOx
					at S352-S357;
					528 lb/day
					NOx per
					turbine/duct
					burner set

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
13	SCR System	S352,	BAAQMD	NOx CEM	66 lb/hr NOx
		S355	Condition		(3 hr average),
			12122, Part 9b		79.8 ton/yr
			(effective		NOx at S352-
			when offsets		S357; 528
			are required		lb/day NOx per
			pursuant to		turbine/duct
			Application		burner set
			13424		
13	SCR System	S352,	BAAQMD	CO, O2 CEMs	39 ppmv @
		S355	Condition		15% O2 (30-
			12122, Part 7		day average)
			and 10a		per turbine/duct
					burner set; 200
					ton/yr CO at
					S352-S357
13	SCR System	S352	BAAQMD	NOx, CO, and O2 (or	9 ppmv NOx at
			9-9-301 and	CO2) CEM	15% O2
			SIP 9-9-301		
14	SCR System	S353,	BAAQMD	NOx CEM	66 lb/hr NOx (3
		S356	Condition		hr average),
			12122, Part 9a		167 ton/yr NOx
					at S352-S357;
					528 lb/day
					NOx per
					turbine/duct
					burner set
14	SCR System	S353,	BAAQMD	NOx CEM	66 lb/hr NOx
		S356	Condition		(3 hr average),
			12122, Part 9b		79.8 ton/yr
			(effective		NOx at S352-
			when offsets		S357; 528
			are required		lb/day NOx per
			pursuant to		turbine/duct
			Application		burner set
			13424		

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
14	SCR System	S353,	BAAQMD	CO, O2 CEMs	39 ppmv @
	·	S356	Condition		15% O2 (30-
			12122, Part 7		day average)
			and 10a		per turbine/duct
					burner set; 200
					ton/yr CO at
					S352-S357
14	SCR System	S353	BAAQMD	NOx, CO, and O2 or	9 ppmv NOx at
			9-9-301 and	CO2 CEM	15% O2
			SIP 9-9-301		
15	SCR System	S354,	BAAQMD	NOx CEM	66 lb/hr NOx (3
		S357	Condition		hr average),
			12122, Part 9a		167 ton/yr NOx
					at S352-S357;
					528 lb/day
					NOx per
					turbine/duct
					burner set
15	SCR System	S354,	BAAQMD	NOx CEM	66 lb/hr NOx
		S357	Condition		(3 hr average),
			12122, Part 9b		79.8 ton/yr
			(effective		NOx at S352-
			when offsets		S357; 528
			are required		lb/day NOx per
			pursuant to		turbine/duct
			Application		burner set
			13424		
15	SCR System	S354,	BAAQMD	CO, O2 CEMs	39 ppmv @
		S357	Condition		15% O2 (30-
			12122, Part 7		day average)
			and 10a		per turbine/duct
					burner set; 200
					ton/yr CO at
					S352-S357
15	SCR System	S354	BAAQMD	NOx, CO, and O2	9 ppmv NOx at
			9-9-301 and	(or CO2) CEM	15% O2
			SIP 9-9-301		

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
16	SCR System	S371	BAAQMD	none	20 ppmv NOx
			Condition		at 3% O2 (3-hr
			1694, Part C2		average)
16	SCR System	S371	BAAQMD	none	50 ppmv CO at
			Condition		3% O2 (3-hr
			1694, Part C3		average)
17	SCR System	S372	BAAQMD	none	20 ppmv NOx
			Condition		at 3% O2 (3-hr
			1694, Part C2		average)
17	SCR System	S372	BAAQMD	none	50 ppmv CO at
			Condition		3% O2 (3-hr
			1694, Part C3		average)
20	Activated Carbon Silo	S380	BAAQMD	differential pressure	normal range
	Baghouse		Regulations		
			6-1-301		
			6-1-305		
			6-1-310.1		
			6-1-311.1		
			SIP		
			Regulations		
			6-301		
			6-305		
			6-310		
			6-311		
			BAAQMD		
			Condition		
			18251		
22	API Outlet Channel Cover	S324		none	
36	SCR System	S36	BAAQMD	NOx, O2 CEM	10 ppmv NOx
			Condition		at 3% O2 (3-hr
			21097, Part 3b		average)
40	Wet Weather Sump Vented	S400		none	
41	Cover Dry Weather Sump Vented	S401		none	
	Cover				

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
46	SCR System	S438	BAAQMD	NOx, O2 CEMs	7 ppmv NOx at
			Condition		3% O2 (1-hr
			1694, Part E		average)
46	SCR System	S438	BAAQMD	none	32 ppmv CO at
			Condition		3% O2 (daily
			1694, Part E		average)
47	SCR System	S45	BAAQMD	CEM	2.3 ton/yr NOx;
			Condition		5 ppmv NOx at
			22962, part 4a		3% O2 (3-hr
			and 6a		average)
48	Tail gas treatment unit	S1010	BAAQMD	None	95% of H2S in
			9-1-313.2 and		refinery fuel
			SIP		gas is removed
			9-1-313.2		and recovered
					on a refinery-
					wide basis
48	Tail gas treatment unit	S1010	BAAQMD	None	0.08 grain/dscf
			6-1-330		exhaust
					concentration
					of SO3 and
					H2SO4,
					expressed as
					100% H2SO4
48	Tail gas treatment unit	S1010	40 CFR	None	SO2 < 250 ppm
			60.102a(f)(1)(i		at 0% O2
)		
48	Tail gas treatment unit	S1010	40 CFR	None	SO2 < 250 ppm
			63.1568(a)(1)		at 0% O2
			(i)		
48	Tail gas treatment unit	S1010	BAAQMD	None	SO2 < 50 ppmv
			Condition		@ 0% O2
			23125, part 7a		
48	Tail gas treatment unit	S1010	BAAQMD	None	SO2 < 29.7
			Condition		tons per year
			23125,		
			part 11a		

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
49	DAF (S1007) Thermal	S1007	BAAQMD	1445 F	44 tons per year
	Oxidizer (440,000 btu/hr,		Condition		VOC reduction
	natural gas and		1440, part 7a		
	approximately 200,000				
	btu/hr in organic vapors)				
50	D-406 Vent Scrubber	S307		none	
51	DAF (S1007) Carbon Bed	S1007	BAAQMD	FID	10 ppm VOC
			Condition		or 98%
			1440, part 7c		reduction of
					VOC
53	Thermal Oxidizer	S324	BAAQMD	1400 F	Combined
	(7.5 MMBtu/hr)		8-8-302.3		collection and
					destruction
					efficiency of
					95% or greater
53	Thermal Oxidizer	S324	40 CFR	1400 F	Destruction
	(7.5 MMBtu/hr)		60.692-5(a)		efficiency of
					95% or greater
53	Thermal Oxidizer	S324	BAAQMD	1400 F	Destruction
	(7.5 MMBtu/hr)		Condition		efficiency of
			26069, part 4		95% or greater
53	Thermal Oxidizer	S1007	BAAQMD	1400 F	Destruction
	(7.5 MMBtu/hr)		Condition		efficiency of
			1440, part 7		95% or greater
110	U240 B-101 Heater SCR	S10	BAAQMD	none	0.015 lb NOx
			Condition		per MMBTU
			1694 Part F.4a		heat input on a
					12 consecutive
					month average
113	SCR System	S13	BAAQMD	NOx, O2 CEM	0.033 lb
			9-10-301		NOx/MMbtu
					refinery-wide
					limit
115	U240 B-1 Boiler SCR	S15, S16,	BAAQMD	none	0.015 lb NOx
		S17, S18,	Condition		per MMBTU
		S19	1694 Part F.4c		heat input on a
					12 consecutive
					month average

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
420	Marine Terminal Thermal	S425	BAAQMD	Temperature:	2 pounds POC
	Oxidizer	S426	8-44-304,	> 1300 F. for first 15	per 1,000 bbl
	(30 MMbtu/hr)		SIP	minutes;	loaded OR at
			8-44-301	< 1400 F. for rest of	least 95% by
				loading event	weight
					reduction of
					POC emissions
420	Marine Terminal Thermal	S425	BAAQMD	Temperature:	At least 98.5%
	Oxidizer	S426	Condition	> 1300 F. for first 15	by weight
			4336, part 9	minutes;	reduction of
				< 1400 F. for rest of	POC emissions
				loading event	for loading of
					gasoline,
					gasoline
					blending
					stocks, aviation
					gas, aviation
					fuel (JP-4
					type), and
					crude oil
422	Tail-Gas Incinerator (19.5	A2	BAAQMD	none	Ringelmann 1
	MMbtu/hr, RFG)		6-1-301		for < 3 min/hr
			SIP		
			6-301		
422	Tail-Gas Incinerator (19.5	A2	BAAQMD	none	0.15 gr/dscf
	MMbtu/hr, RFG)		6-1-310.1		
			SIP		
			6-310		
422	Tail-Gas Incinerator (19.5	A2	BAAQMD	none	Table 6-1-
	MMbtu/hr, RFG)		6-1-311.1		311.1
			SIP		4.10P ^{0.67} lb/hr,
			6-311		where P is
					process weight,
					ton/hr

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
422	Tail-Gas Incinerator (19.5	A2	BAAQMD	none	0.08 grain/dscf
	MMbtu/hr, RFG)		6-1-330		exhaust
					concentration
			SIP		of SO3 and
			6-330		H2SO4,
					expressed as
					100% H2SO4
422	Tail-Gas Incinerator (19.5	A2	40 CFR	none	SO2 < 250 ppm
	MMbtu/hr, RFG)		60.102a(f)(1)(i		at 0% O2
)		
422	Tail-Gas Incinerator (19.5	A2	40 CFR	none	SO2 < 250 ppm
	MMbtu/hr, RFG)		63.1568(a)(1)		at 0% O2
			(i)		
423	Tail-Gas Incinerator (19.5	A3	BAAQMD	none	Ringelmann 1
	MMbtu/hr, RFG)		6-1-301		for < 3 min/hr
			SIP		
			6-301		
423	Tail-Gas Incinerator (19.5	A3	BAAQMD	none	0.15 gr/dscf
	MMbtu/hr, RFG)		6-1-310.1		
			SIP		
			6-310		
423	Tail-Gas Incinerator (19.5	A3	BAAQMD	none	Table 6-1-
	MMbtu/hr, RFG)		6-1-311.1		311.1
			SIP		4.10P ^{0.67} lb/hr,
			6-311		where P is
					process weight,
	T. I. G. T. J		D		ton/hr
423	Tail-Gas Incinerator (19.5	A3	BAAQMD	none	0.08 grain/dscf
	MMbtu/hr, RFG)		6-1-330		exhaust
			are.		concentration
			SIP		of SO3 and
			6-330		H2SO4,
					expressed as
					100% H2SO4

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
423	Tail-Gas Incinerator (19.5	A3	40 CFR	none	SO2 < 250 ppm
	MMbtu/hr, RFG)		60.102a(f)(1)(i		at 0% O2
)		
423	Tail-Gas Incinerator (19.5	A3	40 CFR	none	SO2 < 250 ppm
	MMbtu/hr, RFG)		63.1568(a)(1)		at 0% O2
			(i)		
424	Tail-Gas Incinerator (19.5	A48	6-1-301	none	Ringelmann 1
	MMbtu/hr, natural gas)				for < 3 min/hr
424	Tail-Gas Incinerator (19.5	A48	6-1-310.1	none	0.15 gr/dscf
	MMbtu/hr, natural gas)				
424	Tail-Gas Incinerator (19.5	A48	6-1-311.1	none	40 lb/hr
	MMbtu/hr, natural gas)				
424	Tail-Gas Incinerator (19.5	A48	6-1-330	none	0.08 grain/dscf
	MMbtu/hr, natural gas)				exhaust
					concentration
					of SO3 and
					H2SO4,
					expressed as
					100% H2SO4
424	Tail-Gas Incinerator (19.5	A48	40 CFR	CEM	SO2 < 250 ppm
	MMbtu/hr, natural gas)		60.102a(f)(1)(i		at 0% O2
)		
424	Tail-Gas Incinerator (19.5	A48	40 CFR	CEM	SO2 < 250 ppm
	MMbtu/hr, natural gas)		63.1568(a)(1)		at 0% O2
			(i)		
424	Tail-Gas Incinerator (19.5	A48	BAAQMD	CEM	SO2 < 50 ppmv
	MMbtu/hr, natural gas)		Condition		@ 0% O2
			23125, part 7a		
424	Tail-Gas Incinerator (19.5	A48	BAAQMD	CEM	SO2 < 29.7
	MMbtu/hr, natural gas)		Condition		tons per year
			23125, part		
			11a		
424	Tail-Gas Incinerator (19.5	A48	BAAQMD	CEM	CO < 75
	MMbtu/hr, natural gas)		Condition		ppmvd @ 7%
			23125, part 7a		O2

Table II B – Abatement Devices

		Source(s)	Applicable	Operating	Limit or
A #	Description	Controlled	Requirement	Parameters	Efficiency
424	Tail-Gas Incinerator (19.5	A48	BAAQMD	CEM	CO < 37.9 ton
	MMbtu/hr, natural gas)		Condition		per year
			23125, part		
			11c		
424	Tail-Gas Incinerator (19.5	A48	BAAQMD	1409°F	H2S < 2.5
	MMbtu/hr, natural gas)		Condition		ppmv @ 0%
			23125, part 8b		O2
424	Tail-Gas Incinerator (19.5	A48	BAAQMD	1409°F	H2S < 0.23
	MMbtu/hr, natural gas)		Condition		lb/hr
			23125, part 9b		
424	Tail-Gas Incinerator (19.5	A48	BAAQMD	1409°F	H2S < 0.975
	MMbtu/hr, natural gas)		Condition		tons per year
			23125, part		
			11h		
424	Tail-Gas Incinerator (19.5	A48	BAAQMD	1409°F	Total Reduced
	MMbtu/hr, natural gas)		Condition		Sulfur < 10
			23125, part 11i		tons per year
424	Tail-Gas Incinerator (19.5	A48	BAAQMD	1409°F	Reduced Sulfur
	MMbtu/hr, natural gas)		Condition		Compounds <
			23125, part 11j		10 tons per year
461	SCR System	S461	BAAQMD	NOx, O2 CEM	10 ppmv NOx
			Condition		at 3% O2 (3-hr
			21096, Part 3b		average)
S1003	Sulfur Plant Unit 238	S503,	BAAQMD	None	
		S504, S505	Condition		
			23125, part 4		
S1010	Sulfur Plant Unit 235	S503,	BAAQMD	None	
		S504, S505	Condition		
			23125, part 4		
S1010	Sulfur Plant Unit 235	Steam	BAAQMD	None	NH3 < 12.5
		strippers at	Condition		ppmv @ 7%
		SRUs	23125, part 8a		O2, 24-hr basis
S1010	Sulfur Plant Unit 235	Steam	BAAQMD	None	NH3 < 0.88
		strippers at	Condition		lb/hr
		SRUs	23125, part 9c		
S1010	Sulfur Plant Unit 235	Steam	BAAQMD	None	NH3 < 3.85
		strippers at	Condition		tons per year
		SRUs	23125, part 9c		

II. Equipment

Table II C – Significant Sources

The following sources are exempt from the requirement to obtain an authority to construct and permit to operate, but are defined as significant sources pursuant to BAAQMD Regulation 2-6-239.

S#	Description	Make or Type	Model	Capacity
452	U230 Cooling Tower	Induced draft	Unknown	13,800 gpm

Table II D – Sources Exempt from Permit Requirements

S#	Description	Basis for Exemption
69	Propane Loading Rack	BAAQMD 2-1-123.3.1
70	Butane Loading Rack	BAAQMD 2-1-123.3.1
71	Wax & Lube Oil Loading Rack (Tank Cars)	BAAQMD 2-1-123.3.4, BAAQMD 2-1-123.3.6
72	Wax Loading Rack (Trucks)	BAAQMD 2-1-123.3.6
73	Lube Oil Loading Rack (Trucks)	BAAQMD 2-1-123.3.4
90	Tank 67	BAAQMD 2-1-123.3.2
94	Tank 78	BAAQMD 2-1-123.3.10
99	Tank 102	BAAQMD 2-1-123.3.2
103	Tank 106	BAAQMD 2-1-123.3.2
105	Tank 129	BAAQMD 2-1-123.3.2
108	Tank 153	BAAQMD 2-1-123.3.2
109	Tank 154	BAAQMD 2-1-123.3.2
127	Tank 173	BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3
136	Tank 201	BAAQMD 2-1-123.3.2
138	Tank 203	BAAQMD 2-1-123.3.3
169	Tank 270	BAAQMD 2-1-123.3.2
179	Tank 291	BAAQMD 2-1-123.3.2
180	Tank 292	BAAQMD 2-1-123.3.2
188	Tank 300	BAAQMD 2-1-123.3.1
189	Tank 301	BAAQMD 2-1-123.3.1
190	Tank 302	BAAQMD 2-1-123.3.1
191	Tank 303	BAAQMD 2-1-123.3.3
192	Tank 304	BAAQMD 2-1-123.3.3
204	Tank 528	BAAQMD 2-1-123.3.2

Table II D – Sources Exempt from Permit Requirements

S#	Description	Basis for Exemption
205	Tank 529	BAAQMD 2-1-123.3.2
209	Tank 674	BAAQMD 2-1-123.3.2
253	Tank 833	BAAQMD 2-1-123.3.1
260	Tank 1009	BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3
262	Tank 1011	BAAQMD 2-1-123.3.3
263	Tank 1012	BAAQMD 2-1-123.3.3
286	Tank F3	BAAQMD 2-1-123.3.3
287	Tank F10	BAAQMD 2-1-123.3.4
293	Tank F805	BAAQMD 2-1-123.3.3
427	Marine Loading Berth B2	BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3
428	Marine Loading Berth B3	BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3
429	Marine Loading Berth B4	BAAQMD 2-1-123.3.2, BAAQMD 2-1-123.3.3
452	U230 Cooling Tower	BAAQMD 2-1-128.4
456	U110 Cooling Tower	BAAQMD 2-1-128.4
457	U228 Cooling Tower	BAAQMD 2-1-128.4
458	U200 Cooling Tower	BAAQMD 2-1-128.4
500	ULSD 220/250 Cooling Tower	BAAQMD 2-1-128.4
Tank	Stripped Water Tank	BAAQMD 2-1-123.2
235		
Tank	Stripped Water Tank	BAAQMD 2-1-123.2
236		
	Tank 206	BAAQMD 2-1-123.3.2
	Tank 224	BAAQMD 2-1-123.3.3

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. This section also contains provisions that may apply to temporary sources.

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
- 2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is on EPA Region 9's website. The address is: http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions.

NOTE:

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with <u>both</u> versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

Table III
Generally Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable
Requirement	Description of Requirement	(Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y - note 1
BAAQMD Regulation 2, Rule 1	General Requirements (12/7/17, effective until 6/30/22)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (12/15/21, effective 7/1/22)	N
SIP Regulation 2, Rule 1	General Requirements (5/21/18)	Y

III. Generally Applicable Requirements

Table III Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (12/7/16) effective until 6/30/22	N
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (12/15/21, effective 7/1/22)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y - note 1
BAAQMD Regulation 5	Open Burning (6/19/13)	N
SIP Regulation 5	Open Burning (9/4/98)	Y - note 1
BAAQMD Regulation 6	Particulate Matter – Common Definitions and Test Methods (8/1/18)	N
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (8/1/18)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/04/98)	Y
BAAQMD Regulation 6, Rule 6	Prohibition of Trackout	N
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N Y
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (11/3/21)	
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (7/1/09)	N
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (1/2/04)	Y
BAAQMD Regulation 8, Rule 4		
BAAQMD Regulation 8, Rule 15		
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	Y
SIP Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/05)	N
SIP Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (4/26/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y – note 1

III. Generally Applicable Requirements

Table III Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y - note 1
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (11/3/21)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 11, Rule 10	Hexavalent Chromium Emissions from All Cooling Towers and Total Hydrocarbon Emissions from Petroleum Refinery Cooling Towers (11/3/21)	N
BAAQMD Regulation 11, Rule 18	Reduction of Risk from Air Toxic Emissions at Existing Facilities (11/15/17)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y - note 1
BAAQMD Regulation 12, Rule 15	Petroleum Refining Emissions Tracking (11/3/21)	N
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (7/20/04)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (12/28/07)	Y
Subpart F, 40 CFR 82.156	Recycling and Emissions Reductions – Required Practices	Y
Subpart F, 40 CFR 82.161	Recycling and Emissions Reductions – Technician Certification	Y

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
Subpart F, 40 CFR 82.166	Recycling and Emissions Reductions – Reporting and	Y
	Recordkeeping Requirements	
Subpart H, 40 CFR 82.270(b)	Prohibitions, Halon	Y

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.
- 2 Generally, non-SIP regulations are not federally enforceable. However, sections 8-10-501 and 8-10-502 are required to assure compliance with federally-enforceable provisions of SIP Regulation 8, Rule 10, and therefore are federallyenforceable.

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
- 2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is:

http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions. All other text may be found in the regulations themselves.

Table IV – All Sources Facility-Specific Generally Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/4/2011)		
Regulation 1			
1-107	Combination of Emissions	Y	
1-301	Public Nuisance Prohibition	N	
1-510	Area Monitoring	Y	
1-521	Monitoring May Be Required	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-530	Area Monitoring Downtime	Y	
1-540	Area Monitoring Date Examination	Y	
1-542	Area Concentration Excesses	Y	
1-543	Record Maintenance for Two Years	Y	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	

IV. Source Specific Applicable Requirements

Table IV – All Sources Facility-Specific Generally Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1-544	Monthly Summary	Y	
BAAQMD	General Requirements (12/7/17, effective until 6/30/22)		
Regulation 2,			
Rule 1			
2-1-429	Federal Emissions Statement (12/21/04)	Y	
BAAQMD Baculation 2	General Requirements (12/15/21, effective 7/1/22)		
Regulation 2, Rule 1			
2-1-429	Federal Emissions Statement (12/21/04)	N	
SIP	General Requirements (5/21/18)		
Regulation 2,	• • • • • • • • • • • • • • • • • • • •		
Rule 1			
2-1-429	Federal Emissions Statement	Y	
BAAQMD	Interchangeable Emission Reduction Credits (06/15/2005)		
Regulation 2,			
Rule 9	** To be deleted upon expiration of NOx IERCs		
2-9-302	Use of IERC's	N	**
2-9-303	Alternative Compliance Plan using IERC's	N	**
2-9-304	Restrictions on the Use of IERC's	N	**
2-9-402	Complete IERC Banking Application	N	**
2-9-501	Monitoring and Record Keeping	N	**
BAAQMD	Particulate Matter – Common Definitions and Test Methods		
Regulation 6	(8/1/18)		
BAAQMD	Particulate Matter –General Requirements(8/1/18)		
Regulation 6,			
Rule 1			
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-302	Opacity Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
6-1-402	Alternate Source Test Frequency Particulate Metter and Visible Emissions (0/04/08)	N	
SIP	Particulate Matter and Visible Emissions (9/04/98)		
Regulation 6			

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Organic Compounds, Miscellaneous Operations (7/20/05)		
Regulation 8,			
Rule 2			
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day	Y	
	and 300 ppm total carbon on a dry basis		
BAAQMD	General Solvent and Surface Coating Operations (10/16/02)		
Regulation 8,			
Rule 4			
8-4-302	Solvent and Surface Coating Operations	N	
8-4-312	Solvent Evaporative Loss Minimization	N	
8-4-501	Recordkeeping Requirements	Y	
SIP	General Solvent and Surface Coating Operations (8/26/03)		
Regulation 8,			
Rule 4			
8-4-302	Solvent and Surface Coating Operations	Y-note 1	
BAAQMD	Storage of Organic Liquids (11/3/21)		
Regulation 8,			
Rule 5			
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission	N	
	control system in 8-5-306.2 does not apply if facility is subject to		
	BAAQMD 8-18		
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring	N	
	Program		
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters; Use 90%	N	
	abatement device		
8-5-331	Tank cleaning requirements; 90% Abatement efficiency if	N	
	abatement device used		
8-5-331.1	Tank cleaning requirements; Cleaning materials properties	N	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-331.2	Tank cleaning requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank cleaning requirements; Steam cleaning exceptions	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-501	Records	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source test requirements and exemption for sources vented fuel gas	N	
8-5-502.2	Source test requirements; Tank degassing and cleaning abatement devices	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-606	Analysis of samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of samples, Tank Cleaning Agents; Initial Boiling Point	N	
8-5-606.2	Analysis of samples, Tank Cleaning Agents; True Vapor Pressure	N	
8-5-606.3	Analysis of samples, Tank Cleaning Agents; VOC	N	
SIP	Storage of Organic Liquids (6/5/03)		
Regulation 8,			
Rule 5			
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	Y	
8-5-328	Tank Degassing Requirements	Y	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters;	Y	
	Concentration of <10,000 ppm as methane after degassing		
8-5-404	Certification	Y	
8-5-502	Tank Degassing Annual Source Test Requirements	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.2	Source test for tank degassing equipment	Y	
BAAQMD	Organic Compounds – Pressure Vessel Depressurization (11/3/21)		
Regulation 8,			
Rule 10			
8-10-301	Process Vessel Depressurizing.	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to	N	
	release to atmosphere		
8-10-302.2	Organic compound concentration of a refinery process vessel may	N	
	exceed 10,000 ppm prior to release to atmosphere provided total		
	number of such vessels during 5-year period does not exceed 10%		
8-10-401	Turnaround Records. Annual report due February 1 of each year	N	
	with initial report of process vessels due 4/1/2004.		
8-10-501	Monitoring prior to and during process vessel opening	$Y-note\ 2$	
8-10-502	Concentration measurement using EPA Method 21	$Y-note\ 2$	
8-10-503	Recordkeeping	N	
SIP	Organic Compound – Process Vessel Depressurization		
Regulation 8,	(10/03/1984)		
Rule 10			
8-10-301	Process Vessel Depressurizing.	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records.	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to	Y	
	atmosphere begin		
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Emulsified and Liquid Asphalts (6/01/94)	N	
Regulation 8,			
Rule 15			
8-15-305	Prohibition of Manufacturer and Sale	Y	
8-15-501	Manufacturing Records	Y	
BAAQMD	Aeration of Contaminated Soil and Removal of Underground		
Regulation 8,	Storage Tanks (6/15/05)		
Rule 40			
8-40-116	Exemption, Small Volume	Y	
8-40-205	Contaminated Soil	Y	
8-40-306	Contaminated Soil – Excavation and Removal	Y	
8-40-601	Contaminated Soil Sampling	Y	
8-40-604	Measurement of Organic Concentration	Y	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (11/3/21)		
Regulation 9,			
Rule 1			
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-110.1	comply with monitoring, records and reporting requirements of	Y	
	1-510, 1-530, 1-540, 1-542, 1-543, 1-544		
9-1-110.2	comply with 9-1-301 ground level SO2 concentration limits	Y	
9-1-301	Limitations on Ground level Concentrations	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing	Y	
	more than 20,000 bbl/day of crude oil)		
9-1-313.2	Install a sulfur recovery plant	N	
9-1-501	Area Monitoring Requirements (Regulations 1-510, 1-530, 1-540,	Y	
	1-542, 1-543, 1-544)		
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
9-1-604	Ground Level Monitoring	Y	
SIP	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)		
Regulation 9,	[only provisions which are different than current BAAQMD		
Rule 1	regulation are listed]		
9-1-313.2	Operation of a sulfur removal and recovery system that removes	Y	
	and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and		
	ammonia from process water streams		

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Inorganic Gaseous Pollutants - Hydrogen Sulfide (10/6/99)		
Regulation 9,			
Rule 2			
9-2-301	Limitations on Ground Level Concentrations	N	
9-2-501	Area Monitoring Requirements (Regulations 1-510, 1-530, 1-540,	N	
	1-542, 1-543, 1-544)		
9-2-601	Ground Level Monitoring	N	
BAAQMD	Asbestos Demolition, Renovation and Manufacturing (10/07/98)		
Regulation 11,			
Rule 2			
11-2-301	Prohibited Operations	N	
11-2-302	Visible Emissions	N	
11-2-303	Demolition, Renovation, and Removal	N	
11-2-304	Waste Disposal	N	
11-2-305	Waste Disposal Sites	N	
11-2-501	Temperature Records	N	
11-2-502	Waste Shipment Records	N	
11-2-503	Active Waste Disposal Site Records	N	
11-2-504	Conversion Operations	N	
BAAQMD	Hexavalent Chromium Emissions from All Cooling Towers and	N	
Regulation 11,	Total Hydrocarbon Emissions from Petroleum Refinery Cooling		
Rule 10	Towers (11/3/21)		
11-10-104	Limited Exemption, Continuous Hydrocarbon Analyzers	N	
11-10-301	Hexavalent Chromium: Do not operate a cooling tower that uses	N	
	hexavalent chromium chemicals		
11-10-304	Total Hydrocarbon Leak Monitoring Requirements	N	
11-10-305	Leak Action Requirement –if leak detection methods find total	N	
	hydrocarbon concentrations greater than the applicable leak action		
	level in 11-10-204, the owner/operator shall minimize the leak		
	ASAP or within 5 calendar days and repair or remove from service		
	within 21 calendar days and speciate and quantify the TACs		
	associated with the leak		
11-10-401	Petroleum Refinery Cooling Tower Reporting Requirements: When	N	
	the sampling of cooling tower water exceeds the applicable leak		
	action level, the cooling tower owner/operator shall perform the		
	specified actions		

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
11-10-504	Operating records – retain records of the results of all sampling and/or monitoring conducted and other required data for at least five years from the date of entry; if requesting exemption, must maintain records to prove exemption	N	
11-10-602	Total Hydrocarbon Analyzer Location	N	
11-10-603	Cooling Tower Water Lab Analysis Methodology	N	
11-10-604	Cooling Tower Water Sampling Methodology	N	
BAAQMD	Reduction of Risk from Air Toxic Emissions at Existing		
Regulation 11,	Facilities (11/3/21)		
Rule 18			
BAAQMD	Petroleum Refining Emissions Tracking (11/3/21)		
Regulation 12,			
Rule 15			
12-15-200	Definitions	N	
12-15-207	Fence-Line Monitoring Systems	N	
12-15-401	Annual Emissions Inventory	N	
12-15-402	Review and Approval of Annual Emissions Inventory	N	
12-15-403	Air Monitoring Plans	N	
12-15-404	Review and Approval of Air Monitoring Plans	N	
12-15-406	Air Monitoring Guidelines	N	
12-15-407	Deisgnation of Confidential Information	N	
12-15-408	Availability of Monthly Crude Slate Reports	N	
12-15-500	Monitoring and Records	N	
12-15-501	Fence-line Monitoring System	N	
40 CFR 60,	New Source Performance Standards – General Provisions		
Subpart A	(03/15/2019)		
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and abbreviations	Y	
60.4	Address	Y	
60.5	Determination of construction or modification	Y	
60.6	Review of plans	Y	
60.7	Notification and record keeping	Y	
60.8	Performance tests	Y	
60.9	Availability of information	Y	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.10	State authority	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
60.14	Modifications	Y	
60.15	Reconstruction	Y	
60.16	Priority list	Y	
60.17	Incorporation by reference	Y	
60.19	General notification and reporting requirements	Y	
40 CFR 61,	National Emission Standards for Hazardous Air Pollutants -		
Subpart A	General Provisions (5/16/07)		
61.1	List of pollutants and applicability	Y	
61.2	Definitions	Y	
61.3	Units and abbreviations	Y	
61.4	Address	Y	
61.5	Prohibited activities	Y	
61.6	Determination of construction or modification	Y	
61.7	Application for approval of construction or modification	Y	
61.8	Approval of construction or modification	Y	
61.9	Notification of startup	Y	
61.10	Source reporting and waiver request	Y	
61.11	Waiver of compliance	Y	
61.12	Compliance with standards and maintenance requirements	Y	
61.13	Emission tests and waiver of emission tests	Y	
61.14	Monitoring requirements	Y	
61.15	Modifications	Y	
61.16	Availability of information	Y	
61.17	State Authority	Y	
61.18	Incorporations by reference	Y	
61.19	Circumvention	Y	
40 CFR 61,	National Emission Standard for Benzene Waste Operations		
Subpart FF;	(12/4/03);		
BAAQMD	BAAQMD National Emission Standard for Benzene Emissions		
Regulation 11,	from Benzene Transfer Operations and Benzene Waste		
Rule 12	Operations (7/18/90)		

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.340(a)	Applicability	Y	
61.340(b)	Applicability: hazardous waste	Y	
61.340(c)	Applicability: Exempt Waste	Y	
61.340(d)	Exemption for gaseous streams routed to fuel gas systems	Y	
61.341	Definitions	Y	
61.342	Standards: General	Y	
61.342	Standards: General	Y	
61.342(b)	Standards: General; Facilities with TAB > 10 Mg/yr		
61.342(e)	Standards: General; Alternative to 61.342(c) and 61.342(d)	Y	
61.342(e)(1)	Standards: General; Treat waste with a flow-weighted annual average water content of less than 10% per 61.342(c)(1)	Y	
61.342(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
61.342(e)(2)(i)	Standards: General; 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene	Y	
61.342(e)(2) (ii)	Standards: General; Determine 61.342(e)(2) benzene quantity per 61.355(k)	Y	
61.342(g)	Compliance determined by review of records, test results, and inspections	Y	
	40 CFR 61.345, 61.346 and 61.347 are applicable only to equipment whose benzene quantity for 61.342(e)(2) is calculated per 61.355(k)(2) as controlled.		
61.345	Standards: Containers	Y	
61.346	Standards: Individual drain systems	Y	
61.347	Standards: Oil-water separators	Y	
61.355	Test methods, procedures and compliance provisions	Y	
61.355(a)	Determination of total annual benzene quantity from facility waste	Y	
61.355(b)	Determination at point of waste generation	Y	
61.355(c)	Determination of flow-weighted annual average benzene concentration	Y	
61.355(h)	Leak inspection procedures	Y	
61.355(i)	Control device performance test procedures	Y	
61.355(k)	Determination of benzene quantity (6 BQ)	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	recordkeeping and retention requirements	Y	
61.356(b)	waste stream records	Y	
61.356(d)	Recordkeeping Requirements: Control equipment engineering design	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.356(f)	Recordkeeping Requirements: Closed vent system and control device per 61.349retain for life of device	Y	
61.356(g)	Recordkeeping Requirements: Visual inspection per 61.343 through 61.347	Y	
61.356(h)	Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349	Y	
61.356(j)	Recordkeeping Requirements: Control device operation	Y	
61.356(b)(1)	Records for uncontrolled streams	Y	
61.356(b)(5)	Records for turnaround waste	Y	
61.357	Reporting requirements	Y	
61.357(a)	Reports after startup	Y	
61.357(c)	reporting requirements for facilities with less than 10 Mg/yr total benzene in waste	Y	
BAAQMD Regulation 11, Rule 12	Incorporates by reference 40 CFR 61, Subpart FF	Y	
40 CFR 63, Subpart A	National Emission Standards for Hazardous Air Pollutants for Source Categories (03/15/2019)	Y	
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities	Y	
63.5	Construction and reconstruction	Y	
63.5(d)	Application for approval of construction or reconstruction	Y	
63.5(d)(1)	General Application Requirements	Y	
63.5(d)(2)	Application for approval of construction	Y	
63.5(d)(3)	Application for approval of reconstruction	Y	
63.5(d)(4)	Additional information	Y	
63.6	Compliance with standards and maintenance	Y	
63.7	Performance testing requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting requirements	Y	
63.11	Control device and work practice requirements	Y	
63.12	State authority and delegation	Y	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.13	Addresses of State air pollution control agencies and EPA Regional	Y	
	Offices		
63.14	Incorporation by references	Y	
63.15	Availability of Information & Confidentiality	Y	
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for		
Subpart B	Source Categories: Requirements for Control Technology		
	Determinations for Major Sources in Accordance with Clean		
	Air Act Sections, Section 112(g) and 112(j); Final Rule (5/30/03)		
63.52	Approved process for new and existing affected sources.	Y	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	Y	
63.52(a)(1)	Submit an application for Title V permit revision	Y	
63.52(e)	Permit application review	Y	
63.52(h)	Enhanced monitoring	Y	
63.52(h)(i)	MACT emission limitations	Y	
63.52(h)(i)(1)	Compliance with all requirements applicable to affected sources,	Y	
	including compliance date for affected sources		
63.53	Application content for case-by-case MACT determination	Y	
63.53(a)	Part 1 MACT application	Y	
63.53(b)	Part 2 MACT application	Y	
40 CFR 63,	National Emissions Standards for Hazardous Air Pollutants		
Subpart CC	from Petroleum Refineries (11/26/18)		
63.640(a)	applies to petroleum refining process units and to related emission	Y	
	points		
63.640(c)(1)	Applicability for miscellaneous process vents	Y	
63.640(c)(3)	wastewater streams and treatment operations associated with	Y	
	petroleum refining process units meeting the criteria of section		
	63.640(a)		
63.640(c)(8)	Applicability for heat exchange systems	Y	
63.640(d)(1)	Exclusion for stormwater from segregated stormwater sewers	Y	
63.640(d)(2)	Exclusion for spills	Y	
63.640(d)(3)	Exclusion for pressure relief devices operated less than 300 hours	Y	
	per calendar year		
63.640(d)(5)	Exclusion for emission points routed to a fuel gas system	Y	
63.640(f)	Applicability and Designation of Affected Sources	Y	
63.640(g)	Applicability and Designation of Affected Sources-Exempt	Y	
· · · · · · · · · · · · · · · · · · ·	processes	-	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.640(h)	Applicability and Designation of Affected Sources-Compliance dates	Y	
63.640(i)	Applicability and Designation of Affected Sources-New petroleum refining processes	Y	
63.640(j)	Applicability and Designation of Affected Sources-Changes to existing petroleum units	Y	
63.640(k)	Applicability and Designation of Affected Sources-Changes to existing petroleum units	Y	
63.640(1)	Applicability and Designation of Affected Sources-Additional requirements for new or changed sources	Y	
63.640(l)(1)	Added emission points are subject to requirements for existing sources	Y	
63.640(1)(2)	Added emission points must be in compliance with item 4 of table 11 of 40 CFR 63 Subpart CC	Y	
63.640(1)(3)	owner/operator of a petroleum refining wastewater stream, miscellaneous process vent, or heat exchange systems shall comply with the recordkeeping and reporting requirements including the reports of (1)(3)(i) through (1)(3)(vii) of this section	Y	
63.640(1)(4)	Notification of compliance for added equipment	Y	
63.640(o)	Overlap of Subpart CC with other regulations for wastewater	Y	
63.640(p)	Overlap of Subpart CC with other regulations for equipment leaks	Y	
63.640(q)	Overlap of Subpart CC with local or State regulations	Y	
63.642	General Standards		
63.642(a)	apply for a Part 70 or Part 71 operating permit	Y	
63.642(b)	Emission standards apply at all times	Y	
63.642(c)	Table 6 of this subpart specifies the Subpart A provisions that apply.	Y	
63.642(d)	initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
63.642(e)	applicable records shall be maintained as specified in 63.655(i)	Y	
63.642(f)	all reports required by this subpart shall be sent to the Administrator	Y	
63.642(g)	existing source owners/operators shall control emissions of organic HAPs to the level represented by the equation in this paragraph	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.642(h)	new source owner/operators shall control emissions of organic HAPs to the level represented by the equation in paragraph (g) of this section.	Y	
63.642(i)	existing source owners/operators shall demonstrate compliance with (g) by following procedures in (k) for all emission points, or by following emission averaging compliance approach in (l) for specified emission points and the procedures in (k)(1)	Y	
63.642(j)	new source owner/operators shall demonstrate compliance with (h) by following procedures in (k). they may not use emission averaging compliance approach	Y	
63.642(k)	existing source owners/operators may comply, and new sources owners/operators shall comply with the applicable provisions in 63.643 through 63.645 and 63.647 as specified in 63.640(h) and shall also comply with the applicable requirements of 63.648, 63.654, 63.655, and 63.658	Y	
63.642(1)	emission averaging compliance approach	Y	
63.642(m)	States may restrict existing source owners/operators to only use the method in (k) to comply without allowance to use the emission averaging compliance approach	Y	
63.642(n)	General duty to minimize emissions	Y	
63.643	Miscellaneous process vent provisions	Y	
64.644	Monitoring provisions for miscellaneous process vents	Y	
63.645	Test methods and procedures for miscellaneous process vents	Y	
63.647	Wastewater provisions	Y	
63.647(a)	Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR Part 61, Subpart FF for each stream that meets the definition of 63.641.	Y	
63.647(d)	Owners/operators required under Subpart FF of 40 CFR Part 61 to perform periodic measurement of benzene concentration in wastewater, or to monitor process or control device operating parameters shall operate consistently with the permitted concentration or operating parameter values.	Y	
63.648	Equipment Leak Standards	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.648(a)	Existing source owners/operators subject to this subpart shall comply with the provisions of 40 CFR Part 60 Subpart VV and paragraph (b) of this section except as provided in paragraphs (a)(1)through (3) and (c) through (j) of this section. New source owners/operators shall comply with Subpart H of this part except as provided in paragraphs (c) through (j) of this section.	Y	
63.648(b)	Monitoring data generated before 8/18/95 to qualify for less frequent monitoring of valves and pumps as provided in 40 CFR Part 60 Subpart VV or Subpart H of this part and paragraph (c) of this section is governed by paragraphs (b)(1) and (b)(2) of this section.	Y	
63.648(c)	In lieu of complying with the existing source provisions of paragraph (a) an owner/operator may elect to comply with certain requirements of Subpart H of this part except as provided in paragraphs (c)(1) through (c)(10) and (e) through (i) of this section.	Y	
63.648(d)	Upon startup of new sources, the owner/operator shall comply with section 63.163(a)(1)(ii) of Subpart H of this part for light liquid pumps and 63.168(a)(1)(ii) of Subpart H for gas/vapor and light liquid valves.	Y	
63.648(e)	For reciprocating pumps in heavy liquid service and agitator in heavy liquid service and agitators in heavy liquid service, owners/operators are not required to comply with the requirements in section 63.169 of Subpart H of this part.	Y	
63.648(f)	Reciprocating pumps in light liquid service are exempt from section 63.163 and 60.482 if recasting the distance piece or reciprocating pump replacement is required.	Y	
63.648(h)	Owner/operators of sources subject to this subpart must maintain all records for a minimum of 5 years.	Y	
63.468(j)	Pressure relief device requirements		
63.654(a)	Heat exchange systems applicability	Y	
63.654(b)	Exemptions for heat exchange systems	Y	
63.654(c)	Monitoring requirements for total strippable volatile organic compound leak identification	Y	
63.654(d)	Leak repair requirements	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(e)	If leaks are detected while performing monitoring under paragraph $(c)(1)(i)$, additional monitoring under $c(1)(ii)$ may be performed, and if no leaks are detected, the heat exchange system is considered repaired.	Y	
63.654(f)	Provisions for delaying leaks repairs	Y	
63.654(g)	Recordkeeping requirements if delaying repairs under 63.654(f)	Y	
63.655	Reporting and recordkeeping requirements	Y	
63.655(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.655(d)	Owner/operators subject to the equipment leaks standards in 63.648 shall comply with the recordkeeping and reporting provisions of paragraphs (d)(1) through (d)(6) of this section.	Y	
63.655(e)	Recordkeeping and reporting requirements for sources subject to 40 CFR 63 Subpart CC.	Y	
63.655(f)	Notification of Compliance Status for sources subject to 40 CFR 63 Subpart CC	Y	
63.655(g)	Periodic reporting requirements for sources subject to 40 CFR 63 subpar CC	Y	
63.655(h)	Requirements for submitting reports	Y	
63.655(i)	Recordkeeping requirements for sources subject to 40 CFR 63 Subpart CC	Y	
63.658	Fenceline monitoring procedures	Y	
63.658(a)	Fenceline monitoring is required in accordance with Methods 32A and 325B of 40 CFR 63 Subpart CC Appendix A	Y	
63.658(b)	Target analyte is benzene	Y	
63.658(c)	Requirements for passive monitor locations	Y	_
63.658(d)	Requirements for collecting and recording meteorological data	Y	
63.658(e)	Sampling period and sampling frequency requirements	Y	_
63.658(f)	Requirements for determining whether results from a sampling period are above or below action levels	Y	
63.658(g)	Root cause analysis procedures for action level exceedance	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.658(h)	Requirements for development and submittal of a corrective action plan	Y	
63.658(i)	Provisions for requesting site specific monitoring plans to account for upwind offsite sources or onsite sources excluded under 63.640(g)	Y	
63.658(j)	Must comply with recordkeeping and reporting requirements in 63.655(h) and 63.655(i)	Y	
63.658(k)	Provisions for submitting requests for alternative test methods	Y	
40 CFR 63	National Emission Standards for Hazardous Pollutants for	Y	
Subpart UUU	Petroleum Refineries: Catalytic Cracking Units, Catalytic		
	Reforming Units, and Sulfur Recovery Units (11/26/18)		
63.1561(a)	Subpart UUU applicability	Y	
63.1562(a)	Subpart UUU applies to new, reconstructed, or existing affected sources	Y	
63.1562(c)	Affected source construction date	Y	
63.1562(d)	Affected source reconstruction criteria	Y	
63.1562(e)	Affected source is existing if not new or reconstructed	Y	
63.1562(f)	Subpart UUU exclusions	Y	
63.1563(a)	Compliance dates for Subpart UUU	Y	
63.1563(b)	Compliance dates for existing affected sources	Y	
63.1563(e)	Notification requirements	Y	
63.1570(a)	Must be in compliance with non-opacity standards at all times	Y	
63.1570(c)	Work practices for affected sources	Y	
63.1570(d)	Log of times in between compliance date and installation of the continuous monitoring system which demonstrates procedures used to minimize emissions	Y	
63.1570(f)	Reporting requirements for each instance where an emission limitation and operating limit	Y	
63.1571(a)	Performance tests and initial demonstration of compliance	Y	
63.1571(b)	General requirements for performance tests and performance evaluations	Y	
63.1571(c)	Procedures for engineering assessments	Y	
63.1571(d)	Provisions for adjusting the process or control device measured values when establishing an operating limit	Y	
63.1571(e)	Provisions for changing an operating limit	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – All Sources Facility-Specific Generally Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
63.1573	Provisions for monitoring alternatives	Y	
63.1574	Notification requirements	Y	
63.1575	Reporting requirements	Y	
63.1576	Recordkeeping requirements	Y	
63.1577	NESHAP general provisions applicability	Y	
BAAQMD	The owner/operator shall notify the District in writing by fax or	N	
Condition	email no less than three calendar days in advance of any scheduled		
20989, Part B	startup or shutdown of any process unit and as soon as feasible for		
	any unscheduled startup or shutdown of a process unit, but no later		
	than 48 hours after the unscheduled startup/shutdown. [Basis:		
	Regulation 2-1-403]		

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.
- 2 Generally, non-SIP regulations are not federally enforceable. However, sections 8-10-501 and 8-10-502 are required to assure compliance with federally-enforceable provisions of SIP Regulation 8, Rule 10, and therefore are federallyenforceable.

$\label{eq:control_equation} Table~IV-A.1 \\ Source-specific Applicable Requirements$

S2 – UNIT 229, B-301 HEATER

S4 – UNIT 231, B-101 HEATER

S5 – Unit 231, B-102 Heater

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)		
Regulation 1			
1-521	Monitoring May Be Required	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-A.1\\ Source-specific Applicable Requirements$

S2 – UNIT **229**, **B-301** HEATER

S4 – Unit 231, B-101 Heater

S5 – Unit 231, B-102 Heater

Applicable	S5 – UNIT 231, B-102 HEATER Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	\mathbf{Y}^1	
BAAQMD	Particulate Matter, General Requirements(8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide and CO Boiler NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	

IV. Source Specific Applicable Requirements

$\begin{tabular}{ll} Table~IV-A.1\\ Source-specific Applicable Requirements \end{tabular}$

S2 – UNIT **229**, **B-301** HEATER

S4 – Unit 231, B-101 Heater

S5 – Unit 231, B-102 Heater

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60	Y	
60.13(b)	Continuous monitoring systems and devices operational prior to performance tests required by 60.8	Y	

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-A.1\\ Source-specific Applicable Requirements$

S2 – UNIT 229, B-301 HEATER

S4 – Unit 231, B-101 Heater

S5 – UNIT 231, B-102 HEATER

	55 – UNII 251, D-102 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
NSPS	Standards of Performance for Petroleum Refineries (12/1/15)		
40 CFR 60,			
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS	Appendix A to Part 60 – Test Methods	Y	
40 CFR 60,			
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-A.1\\ Source-specific Applicable Requirements$

S2 – UNIT **229**, **B-301** HEATER

S4 – UNIT 231, B-101 HEATER

S5 – UNIT 231, B-102 HEATER

	S5 – UNIT 231, B-102 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status Requirements	Y	
63.7530(f)	Notification of Compliance Status Requirements	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-A.1\\ Source-specific Applicable Requirements$

S2 – UNIT **229**, **B-301** HEATER

S4 – Unit 231, B-101 Heater

S5 – UNIT 231, B-102 HEATER

	S5 – UNIT 231, B-102 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.2	Annual fuel firing limit at S2, S3, S4, S5, S7 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Cumulative Increase]	Y	
Part G.5	Startup/Shutdown limitations	Y	
BAAQMD			
Condition			
21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis:	Y	
	Regulation 9-10-301, 9-10-305]		
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 3	"NOx Box" requirement for sources without NOx CEMs [Basis:	Y	
	Regulation 9-10-502]		
Part 4	"NOx Box" development procedure [Basis: Regulation 9-10-502]	Y	
Part 5	"NOx Box" parameters [Basis: Regulation 9-10-502]	Y	
Part 6a	Allowed "NOx Box" deviations [Basis: Regulation 9-10-502]	Y	
Part 6b	"NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502]	Y	
Part 7	NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301]	N	
Part 12	Quarterly report showing amount of IERC's used during previous quarter, IERC's used during current ACP period, projection of IERC's required and certification that the facility possesses IERC's	N	

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-A.1\\ Source-specific Applicable Requirements$

S2 – UNIT **229**, **B-301** HEATER

S4 – UNIT 231, B-101 HEATER

S5 – UNIT 231, B-102 HEATER

50 0111 201) 2 102 11211211			
		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	equal to the amount projected [Basis: Regulation 2-9-502.3]		
Part 13	Annual reconciliation report and surrendering of banking certificate(s)	N	
	[Basis: Regulation 2-9-502.4]		
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

	,	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)		
Regulation 1			
1-521	Monitoring May Be Required	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	Y^1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	

IV. Source Specific Applicable Requirements

	S3 – UNIT 230, B-201 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-110.5	Exemptions: Fired on non-gaseous fuel when natural gas is	N	
	unavailable for use		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	

IV. Source Specific Applicable Requirements

	S3 – UNIT 230, B-201 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission		
	limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to	Y	
	performance tests required by 60.8		
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
NSPS	Standards of Performance for Petroleum Refineries (12/1/15)		
40 CFR 60,			
Subpart J	A 15 1 105	***	
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions		
	mares from rener varve leaks or other emergency manunctions		

IV. Source Specific Applicable Requirements

	S3 – UNIT 230, B-201 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS	Appendix A to Part 60 – Test Methods	Y	
40 CFR 60,			
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD	A mulicability.	V	
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates Notification Dates	Y Y	
63.7495(d) 63.7499(l)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(e) 63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status Requirements	Y	
63.7530(e) 63.7530(f)	Notification of Compliance Status Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
	1 1		
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements Notification of Compliance Status	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	

IV. Source Specific Applicable Requirements

Applicable	S3 – UNIT 230, B-201 HEATER Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7545(h)	Fuel Switch Notification	Y	Date
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.2	Annual fuel firing limit at S2, S3, S4, S5, S7 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Cumulative Increase]	Y	
BAAQMD			
Condition			
21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305]	Y	
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 3	"NOx Box" requirement for sources without NOx CEMs [Basis:	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Regulation 9-10-502]		
Part 4	"NOx Box" development procedure [Basis: Regulation 9-10-502]	Y	
Part 5	"NOx Box" parameters [Basis: Regulation 9-10-502]	Y	
Part 6a	Allowed "NOx Box" deviations [Basis: Regulation 9-10-502]	Y	
Part 6b	"NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502]	Y	
Part 7	NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301]	N	
Part 12	Quarterly report showing amount of IERC's used during previous quarter, IERC's used during current ACP period, projection of IERC's required and certification that the facility possesses IERC's equal to the amount projected [Basis: Regulation 2-9-502.3]	N	
Part 13	Annual reconciliation report and surrendering of banking certificate(s) [Basis: Regulation 2-9-502.4]	N	
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

IV. Source Specific Applicable Requirements

	S7 – UNIT 231, B-103 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)		
Regulation 1			
1-521	Monitoring May Be Required	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	Y^1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-110.5	Exemptions: Fired on non-gaseous fuel when natural gas is	N	
	unavailable for use		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	

IV. Source Specific Applicable Requirements

	S7 – UNIT 231, B-103 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
		Y Y	
60.7(g)	Alternative Notification		
60.7(g) 60.7(h)	Alternative Notification Specific Provisions	Y	

IV. Source Specific Applicable Requirements

	ONIT 251, B-105 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60	Y	
60.13(b)	Continuous monitoring systems and devices operational prior to performance tests required by 60.8	Y	
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices	Y	
60.13(f)	Continuous monitoring system installation location requirement	Y	
NSPS	Standards of Performance for Petroleum Refineries (12/1/15)		
40 CFR 60,			
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3) (ii)	Excess H2S emission definitions for 60.7(c)	Y	
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS	Appendix A to Part 60 – Test Methods	Y	
40 CFR 60, Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B	H2Cti	V	
Performance	H2S continuous emission monitoring systems	Y	

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Specification 7	N. J. 17 1. J. G. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)		
Subpart DDDDD	and Process reaters (11/20/2015)		
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(l)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(c)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status Requirements	Y	
63.7530(e) 63.7530(f)	Notification of Compliance Status Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(b)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Startup and Shutdown Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	

IV. Source Specific Applicable Requirements

	S7 – UNIT 231, B-103 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1a	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.2	Annual fuel firing limit at S2, S3, S4, S5, S7 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Cumulative Increase]	Y	
BAAQMD			
Condition			
21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis:	Y	
	Regulation 9-10-301, 9-10-305]		
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 3	"NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 4	"NOx Box" development procedure [Basis: Regulation 9-10-502]	Y	
Part 5	"NOx Box" parameters [Basis: Regulation 9-10-502]	Y	
Part 6a	Allowed "NOx Box" deviations [Basis: Regulation 9-10-502]	Y	
Part 6b	"NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502]	Y	
Part 7	NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301]	N	
Part 12	Quarterly report showing amount of IERC's used during previous quarter, IERC's used during current ACP period, projection of	N	

IV. Source Specific Applicable Requirements

	/		
		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	IERC's required and certification that the facility possesses IERC's		
	equal to the amount projected [Basis: Regulation 2-9-502.3]		
Part 13	Annual reconciliation report and surrendering of banking certificate(s)	N	
	[Basis: Regulation 2-9-502.4]		
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

Table IV – A.4
Source-specific Applicable Requirements
S9 – UNIT 240, B-2 BOILER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (7/19/06)		
Regulation 1			
1-521	Monitoring May Be Required	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	Y^1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	

IV. Source Specific Applicable Requirements

Table IV – A.4 Source-specific Applicable Requirements S9 – UNIT 240, B-2 BOILER

	,	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	

IV. Source Specific Applicable Requirements

Table IV – A.4 Source-specific Applicable Requirements S9 – UNIT 240, B-2 BOILER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to performance tests required by 60.8	Y	
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices	Y	
60.13(f)	Continuous monitoring system installation location requirement	Y	
NSPS	Standards of Performance for Petroleum Refineries (12/1/15)		
40 CFR 60,			
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		

IV. Source Specific Applicable Requirements

Table IV – A.4 Source-specific Applicable Requirements S9 – UNIT 240, B-2 BOILER

	S9 – UNII 240, B-2 BOILER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS	Appendix A to Part 60 – Test Methods	Y	
40 CFR 60,			
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status Requirements	Y	
63.7530(f)	Notification of Compliance Status Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	

IV. Source Specific Applicable Requirements

Table IV – A.4 Source-specific Applicable Requirements S9 – UNIT 240, B-2 BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.1b	Annual fuel firing limit at S9, S10, S11, S12, and S13 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Cumulative Increase]	Y	
BAAQMD			
Condition			
21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis:	Y	
	Regulation 9-10-301, 9-10-305]		
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 3	"NOx Box" requirement for sources without NOx CEMs [Basis:	Y	
	Regulation 9-10-502]		
Part 4	"NOx Box" development procedure [Basis: Regulation 9-10-502]	Y	
Part 5	"NOx Box" parameters [Basis: Regulation 9-10-502]	Y	

IV. Source Specific Applicable Requirements

Table IV – A.4 Source-specific Applicable Requirements S9 – UNIT 240, B-2 BOILER

57 - UNII 240, D-2 DOILER			
		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 6a	Allowed "NOx Box" deviations [Basis: Regulation 9-10-502]	Y	
Part 6b	"NOx Box" deviation reporting requirement [Basis: Regulation 9-	Y	
	10-502]		
Part 7	NOx, CO, O2 source test requirement for sources without NOx CEMs	Y	
	[Basis: Regulation 9-10-502]		
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis:	N	
	Regulation 2-9-303, 9-10-301]		
Part 12	Quarterly report showing amount of IERC's used during previous	N	
	quarter, IERC's used during current ACP period, projection of		
	IERC's required and certification that the facility possesses IERC's		
	equal to the amount projected [Basis: Regulation 2-9-502.3]		
Part 13	Annual reconciliation report and surrendering of banking certificate(s)	N	
	[Basis: Regulation 2-9-502.4]		
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

Table IV – A.5 Source-specific Applicable Requirements S10 – UNIT 240, B-101 HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (4/18/12)		
Regulation 1			
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	

IV. Source Specific Applicable Requirements

	S10 – UNIT 240, B-101 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18))		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	

IV. Source Specific Applicable Requirements

$\begin{tabular}{ll} Table IV-A.5\\ Source-specific Applicable Requirements\\ S10-Unit 240, B-101 HEATER \end{tabular}$

	510 – UNII 240, B-101 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2 or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	

IV. Source Specific Applicable Requirements

	S10 – UNIT 240, B-101 HEATER		T
	D 14 774	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission		
	limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to	Y	
	performance tests required by 60.8		
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
NSPS	Standards of Performance for Petroleum Refineries (12/1/15)		
40 CFR 60,			
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS	Appendix A to Part 60 – Test Methods	Y	
40 CFR 60,			
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			

IV. Source Specific Applicable Requirements

	\$10 - UNIT 240, B-101 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
NSPS	Quality Assurance Procedures		
40 CFR 60			
Appendix F			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(l)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status Requirements	Y	
63.7530(f)	Notification of Compliance Status Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
<u> </u>		1	

IV. Source Specific Applicable Requirements

	S10 – UNIT 240, B-101 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.1b	Annual fuel firing limit at S9, S10, S11, S12, and S13 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Cumulative Increase]	Y	
Part F.4a	NOx limit 0.015 lb/MMBtu [Basis: Consent Decree Case No. H-05-	Y	
	0258]	_	
BAAQMD	-		
Condition			
21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis:	Y	
	Regulation 9-10-301, 9-10-305]		
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 8	CO source test requirement for sources with NOx CEMs [Basis:	Y	
	Regulation 9-10-502]		
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis:	N	
	Regulation 2-9-303, 9-10-301]		
Part 12	Quarterly report showing amount of IERC's used during previous	N	
	quarter, IERC's used during current ACP period, projection of		
	IERC's required and certification that the facility possesses IERC's		
	equal to the amount projected [Basis: Regulation 2-9-502.3]		
Part 13	Annual reconciliation report and surrendering of banking certificate(s)	N	
	[Basis: Regulation 2-9-502.4]		

IV. Source Specific Applicable Requirements

Table IV – A.5 Source-specific Applicable Requirements \$10 – UNIT 240, B-101 HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.6 Source-specific Applicable Requirements S11 – Unit 240, B-201 HEATER S12 – Unit 240, B-202 HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (7/09/08)		
Regulation 1			
1-521	Monitoring May Be Required	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	Y^1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	

IV. Source Specific Applicable Requirements

Table IV – A.6 Source-specific Applicable Requirements \$11 – Unit 240, B-201 Heater

S12 – Unit 240, B-202 Heater

	S12 – UNIT 240, B-202 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/Mmbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	

IV. Source Specific Applicable Requirements

Table IV – A.6 Source-specific Applicable Requirements S11 – UNIT 240, B-201 HEATER S12 – UNIT 240, B-202 HEATER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
40 CFR 60,	General Provisions (1/18/08)		
Subpart A	, ,		
60.7(b)	Records	Y	
60.7©	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission		
	limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to	Y	
	performance tests required by 60.8		
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
NSPS	Standards of Performance for Petroleum Refineries (12/1/15)		
40 CFR 60,			
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		

IV. Source Specific Applicable Requirements

Table IV – A.6 Source-specific Applicable Requirements \$11 – Unit 240, B-201 Heater

	512 - CMI 240, B-202 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS	Appendix A to Part 60 – Test Methods	Y	
40 CFR 60,			
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status Requirements	Y	
63.7530(f)	Notification of Compliance Status Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	

IV. Source Specific Applicable Requirements

Table IV – A.6 Source-specific Applicable Requirements S11 – UNIT 240, B-201 HEATER S12 – UNIT 240, B-202 HEATER

	912 – UNII 240, B-202 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.1b	Annual fuel firing limit at S9, S10, S11, S12, and S13 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Cumulative Increase]	Y	
BAAQMD			
Condition			
21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis:	Y	
	Regulation 9-10-301, 9-10-305]		

IV. Source Specific Applicable Requirements

Table IV – A.6 Source-specific Applicable Requirements S11 – UNIT 240, B-201 HEATER S12 – UNIT 240, B-202 HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 3	"NOx Box" requirement for sources without NOx CEMs [Basis:	Y	
	Regulation 9-10-502]		
Part 4	"NOx Box" development procedure [Basis: Regulation 9-10-502]	Y	
Part 5	"NOx Box" parameters [Basis: Regulation 9-10-502]	Y	
Part 6a	Allowed "NOx Box" deviations [Basis: Regulation 9-10-502]	Y	
Part 6b	"NOx Box" deviation reporting requirement [Basis: Regulation 9-	Y	
	10-502]		
Part 7	NOx, CO, O2 source test requirement for sources without NOx CEMs	Y	
	[Basis: Regulation 9-10-502]		
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis:	N	
	Regulation 2-9-303, 9-10-301]		
Part 12	Quarterly report showing amount of IERC's used during previous	N	
	quarter, IERC's used during current ACP period, projection of		
	IERC's required and certification that the facility possesses IERC's		
	equal to the amount projected [Basis: Regulation 2-9-502.3]		
Part 13	Annual reconciliation report and surrendering of banking certificate(s)	N	
	[Basis: Regulation 2-9-502.4]		
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)		
Regulation 1			
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		

IV. Source Specific Applicable Requirements

	S13 – UNIT 240, B-301 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	Emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	TSP Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		

IV. Source Specific Applicable Requirements

Applicable	S13 – UNIT 240, B-301 HEATER Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generators and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2 or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60	Y	
60.13(b)	Continuous monitoring systems and devices operational prior to performance tests required by 60.8	Y	
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices	Y	
60.13(f)	Continuous monitoring system installation location requirement	Y	
NSPS	Standards of Performance for Petroleum Refineries (9/21/06)		
40 CFR 60,			
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3) (ii)	Excess H2S emission definitions for 60.7(c)	Y	
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60,	Appendix A to Part 60 – Test Methods	Y	
Appendix A			

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NSPS	Quality Assurance Procedures		
40 CFR 60			
Appendix F	N. C. I. C. I. I. C. I. I. D. I. C. C.		
NESHAP 40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD	and Freess Heaters (11/20/2013)		
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status Requirements	Y	
63.7530(f)	Notification of Compliance Status Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	

IV. Source Specific Applicable Requirements

	S13 – UNIT 240, B-301 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.1	Annual fuel firing limit at S9, S10, S11, S12, and S13 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Cumulative Increase]	Y	
Part F.4b	NOx limit 0.015 lb/MMBtu [Basis: Consent Decree Case No. H-05-0258]	Y	
BAAQMD Condition 21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305]	Y	
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 8	CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301]	N	
Part 12	Quarterly report showing amount of IERC's used during previous	N	

Facility Name: Phillips 66 - San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – A.7 Source-specific Applicable Requirements \$13 – UNIT 240, B-301 HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	quarter, IERC's used during current ACP period, projection of		
	IERC's required and certification that the facility possesses IERC's		
	equal to the amount projected [Basis: Regulation 2-9-502.3]		
Part 13	Annual reconciliation report and surrendering of banking certificate(s)	N	
	[Basis: Regulation 2-9-502.4]		
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

$\label{eq:control_equation} Table~IV-A.8~$ Source-specific Applicable Requirements

S15 – Unit 244, B-501 Heater

S16 – UNIT 244, B-502 HEATER

S17 - Unit 244, B-503 Heater

S18 – Unit 244, B-504 Heater

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)		
Regulation 1			
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	CEM performance testing		
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	

IV. Source Specific Applicable Requirements

S15 – UNIT 244, B-501 HEATER

S16 – Unit 244, B-502 Heater

S17 - UNIT 244, B-503 HEATER

S18 - Unit 244, B-504 Heater

Amplicable	Domistics Title on	Federally Enforceable	Future Effective
Applicable Requirement	Regulation Title or Description of Requirement	(Y/N)	Date Date
1-522.10	Regulation 1-521 monitors shall meet requirements specified by	Y	Date
1-322.10	District	1	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	Emission limit exceedance reporting requirements	Y – note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Particulate Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	

IV. Source Specific Applicable Requirements

S15 – UNIT 244, B-501 HEATER

S16 – Unit 244, B-502 Heater

S17 – UNIT 244, B-503 HEATER

S18 – UNIT 244, B-504 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutant-s - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	

IV. Source Specific Applicable Requirements

S15 – Unit 244, B-501 Heater

S16 – Unit 244, B-502 Heater

S17 – Unit 244, B-503 Heater

S18 – Unit 244, B-504 Heater

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60	Y	
60.13(b)	Continuous monitoring systems and devices operational prior to performance tests required by 60.8	Y	
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices	Y	
60.13(f)	Continuous monitoring system installation location requirement	Y	
NSPS	Standards of Performance for Petroleum Refineries (12/1/15)		
40 CFR 60, Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3) (ii)	Excess H2S emission definitions for 60.7(c)	Y	
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	

IV. Source Specific Applicable Requirements

S15 - UNIT 244, B-501 HEATER

S16 – Unit 244, B-502 Heater

S17 - UNIT 244, B-503 HEATER

S18 – UNIT 244, B-504 HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
NSPS	Appendix A to Part 60 – Test Methods	Y	
40 CFR 60,			
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NSPS	Quality Assurance Procedures		
40 CFR 60			
Appendix F			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status Requirements	Y	
63.7530(f)	Notification of Compliance Status Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	

IV. Source Specific Applicable Requirements

Table IV – A.8 Source-specific Applicable Requirements

S15 – Unit 244, B-501 Heater

S16 – Unit 244, B-502 Heater

S17 - Unit 244, B-503 Heater

S18 - Unit 244, B-504 Heater

S19 - UNIT 244, B-505 HEATER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-	Y	
	409.2]		
Part F.4c	NOx limit 0.015 lb/MMBtu [Basis: Consent Decree Case No. H-05-0258]	Y	
BAAQMD	Throughput limits for S15, S16, S17, S18 and S19 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part A			
BAAQMD			,
Condition			

IV. Source Specific Applicable Requirements

Table IV – A.8 Source-specific Applicable Requirements

S15 – Unit 244, B-501 Heater

S16 – Unit 244, B-502 Heater

S17 – Unit 244, B-503 Heater

S18 - Unit 244, B-504 Heater

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis:	Y	
	Regulation 9-10-301, 9-10-305]		
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 8	CO source test requirement for sources with NOx CEMs [Basis:	Y	
	Regulation 9-10-502]		
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis:	N	
	Regulation 2-9-303, 9-10-301]		
Part 12	Quarterly report showing amount of IERC's used during previous	N	
	quarter, IERC's used during current ACP period, projection of		
	IERC's required and certification that the facility possesses IERC's		
	equal to the amount projected [Basis: Regulation 2-9-502.3]		
Part 13	Annual reconciliation report and surrendering of banking certificate(s)	N	
	[Basis: Regulation 2-9-502.4]		
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

Table IV – A.9 Source-specific Applicable Requirements

S20 - Unit 244, B-506 Heater

S22 – UNIT 248, B-606 HEATER

S29 – UNIT 200, B-5 HEATER

S30 – UNIT 200, B-101 HEATER

S31 – Unit 200, B-501 Heater

	,	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)		
Regulation 1			
1-521	Monitoring May Be Required	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	\mathbf{Y}^1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		

IV. Source Specific Applicable Requirements

Table IV – A.9 Source-specific Applicable Requirements

S20 – UNIT 244, B-506 HEATER

S22 – Unit 248, B-606 Heater

S29 – UNIT 200, B-5 HEATER

S30 – UNIT 200, B-101 HEATER

S31 – Unit 200, B-501 Heater

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	

IV. Source Specific Applicable Requirements

Table IV – A.9 Source-specific Applicable Requirements

S20 - Unit 244, B-506 Heater

S22 – Unit 248, B-606 Heater

S29 – UNIT 200, B-5 HEATER

S30 – UNIT 200, B-101 HEATER

S31 – Unit 200, B-501 Heater

	SST CHI 200, B SOT HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission		
	limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to	Y	
	performance tests required by 60.8		
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
NSPS	Standards of Performance for Petroleum Refineries (12/1/15)		
40 CFR 60,			
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			

IV. Source Specific Applicable Requirements

Table IV – A.9 Source-specific Applicable Requirements

S20 – UNIT 244, B-506 HEATER

S22 – Unit 248, B-606 Heater

S29 – UNIT 200, B-5 HEATER

S30 – UNIT 200, B-101 HEATER

S31 – UNIT 200, B-501 HEATER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS	Appendix A to Part 60 – Test Methods	Y	
40 CFR 60,			
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status Requirements	Y	
63.7530(f)	Notification of Compliance Status Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	

IV. Source Specific Applicable Requirements

Table IV – A.9 Source-specific Applicable Requirements

S20 - Unit 244, B-506 Heater

S22 – Unit 248, B-606 Heater

S29 – UNIT 200, B-5 HEATER

S30 – UNIT 200, B-101 HEATER

S31 – UNIT 200, B-501 HEATER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
BAAQMD	Individual throughput limits forS20, S22, S29, S30 and S31 [Basis:	Y	
Condition	2-1-234.3]		
20989, Part A			
BAAQMD			
Condition			
21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis:	Y	
	Regulation 9-10-301, 9-10-305]		

IV. Source Specific Applicable Requirements

Table IV – A.9 Source-specific Applicable Requirements

S20 - Unit 244, B-506 Heater

S22 – Unit 248, B-606 Heater

S29 – UNIT 200, B-5 HEATER

S30 – UNIT 200, B-101 HEATER

S31 – UNIT 200, B-501 HEATER

	·	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 3	"NOx Box" requirement for sources without NOx CEMs [Basis:	Y	
	Regulation 9-10-502]		
Part 4	"NOx Box" development procedure [Basis: Regulation 9-10-502]	Y	
Part 5	"NOx Box" parameters [Basis: Regulation 9-10-502]	Y	
Part 6a	Allowed "NOx Box" deviations [Basis: Regulation 9-10-502]	Y	
Part 6b	"NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502]	Y	
Part 7	NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301]	N	
Part 12	Quarterly report showing amount of IERC's used during previous quarter, IERC's used during current ACP period, projection of IERC's required and certification that the facility possesses IERC's equal to the amount projected [Basis: Regulation 2-9-502.3]	N	
Part 13	Annual reconciliation report and surrendering of banking certificate(s) [Basis: Regulation 2-9-502.4]	N	
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (7/09/08)		
Regulation 1			
1-521	Monitoring May Be Required	Y	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-111	Limited Exemption: Small Units: Between 1 and 10 MMbtu/hr and	Y	
	capable of firing fuel other than natural gas or LPG		
9-10-217	Definition: Small Unit: Between 1 and 10 MMbtu/hr and capable of	Y	
	firing fuel other than natural gas or LPG		
9-10-306	Small Unit Requirements	Y	
9-10-306.2	Small Unit Requirements: Tune-up at least every 12 months, or	Y	
	within two weeks of start-up if not operated in the last 12 months		
9-10-504	Recordkeeping	Y	
9-10-504.2	Records	Y	
9-10-505	Reporting	Y	
9-10-605	Tune-up Procedures	Y	
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			

IV. Source Specific Applicable Requirements

	S21 – UNIT 244, B-307 HEATER			
Applicable	Regulation Title or	Federally Enforceable	Future Effective	
Requirement	Description of Requirement	(Y/N)	Date	
60.7(b)	Records	Y	Date	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y		
60.7(d)	Summary reports	Y		
60.7(e)	Reduction of frequency of summary reports	Y		
60.7(f)	Records	Y		
60.7(g)	Alternative Notification	Y		
60.7(h)	Specific Provisions	Y		
60.8	Performance Tests	Y		
60.11	Compliance with Standards and Maintenance Requirements	Y		
60.11(a)	Compliance determined by performance tests	Y		
60.11(d)	Control devices operated using good air pollution control practice	Y		
60.13	Monitoring requirements	Y		
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y		
00.13(u)	F, (if used to demonstrate compliance with continuous emission	•		
	limits), of Part 60			
60.13(b)	Continuous monitoring systems and devices operational prior to	Y		
. ,	performance tests required by 60.8			
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y		
60.13(e)	Continuous monitoring system minimum frequency of operation	Y		
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y		
	non-opacity-measuring devices			
60.13(f)	Continuous monitoring system installation location requirement	Y		
NSPS	Standards of Performance for Petroleum Refineries (12/1/15)			
40 CFR 60,				
Subpart J				
60.100	Applicability	Y		
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y		
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y		
	except for gas burned as a result of process upset or gas burned at			
	flares from relief valve leaks or other emergency malfunctions			
60.105	Monitoring of Emissions and Operations	Y		
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y		
	combustion (in lieu of separate combustion device exhaust SO2			
	monitors as required by 60.105(a)(3))			
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y		

IV. Source Specific Applicable Requirements

	S21 – UNIT 244, B-507 HEATER			
Applicable	Regulation Title or	Federally Enforceable	Future Effective	
Requirement	Description of Requirement	(Y/N)	Date	
(ii)	Description of Requirement	(2/11)	Dutt	
60.106(a)	Test methods and procedures	Y		
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y		
NSPS	Appendix A to Part 60 – Test Methods	Y		
40 CFR 60,	representative restrictions	1		
Appendix A				
NSPS	Performance Specifications			
40 CFR 60				
Appendix B				
Performance	H2S continuous emission monitoring systems	Y		
Specification 7				
NESHAP	National Emission Standards for Hazardous Air Pollutants for			
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers			
Subpart	and Process Heaters (11/20/2015)			
DDDDD				
63.7490(d)	Applicability	Y		
63.7495(b)	Compliance Dates	Y		
63.7495(d)	Notification Dates	Y		
63.7499(1)	Gas 1 Designed Units	Y		
63.7530(e)	Notification of Compliance Status Requirements	Y		
63.7530(f)	Notification of Compliance Status Requirements	Y		
63.7510(e)	Initial Compliance Demonstration	Y		
63.7515(d)	Annual Tune-up Compliance Dates	Y		
63.7530(e)	Notification of Compliance Status	Y		
63.7540a(10)	Annual Tune-Up Requirements	Y		
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y		
63.7545(a)	Notification Requirements	Y		
63.7545(b)	Initial Notification Requirements	Y		
63.7545(e)	Notification of Compliance Status	Y		
63.7545(f)	Alternative Fuel Usage	Y		
63.7545(h)	Fuel Switch Notification	Y		
63.7550(a)	Reports to Submit	Y		
63.7550(b)	Report Submittal Dates	Y		
63.7550(c)	Compliance Report Requirements	Y		
63.7550(h)	Reporting Procedures	Y		

IV. Source Specific Applicable Requirements

	321 - UNII 244, B-307 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1a	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-	Y	
	409.2]		
BAAQMD	Throughput limits for S21 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part A			

IV. Source Specific Applicable Requirements

	S36 – UNIT 200, B-102 HEATER	Endougle.	F4
Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)	(1/11)	Dute
Regulation 1	(0,0 1,12)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Permits, General Requirements (12/7/17, effective until 6/30/22)		
Regulation 2,			
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/15/21,		
Regulation 2,	effective 7/1/22)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 2,	Permits, General Requirements (5/21/18)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y- note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		

IV. Source Specific Applicable Requirements

Table IV – A.11 Source-specific Applicable Requirements S36 – UNIT 200, B-102 HEATER

	S50 – UNII 200, B-102 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Nitrogen Oxides and Carbon Monoxide from Boiler, Steam		
Regulation 9	Generators and Process Heaters in Petroleum Refineries (11/3/21)		
Rule 10			
9-10-110.5	Exemption as heater is subject to BACT requirements	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60,	General Provisions (1/18/08)		
Subpart A	D 1	77	
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

	550 – UNII 200, B-102 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60	Y	
60.13(b)	Continuous monitoring systems and devices operational prior to performance tests required by 60.8	Y	
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices	Y	
60.13(f)	Continuous monitoring system installation location requirement	Y	
40 CFR 60,	Standards of Performance for Petroleum Refineries (12/1/15)		
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(e)(3) (ii)	Excess H2S emission definitions for 60.7(c)	Y	
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
40 CFR 60,	Appendix A to Part 60 – Test Methods	Y	
Appendix A			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	

IV. Source Specific Applicable Requirements

	S36 – UNIT 200, B-102 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5c	Records of SO2 emissions [Basis: Regulation 2, Rule 1; SO2 Bubble;	Y	
	Regulation 2-6-409.2]		
BAAQMD			
Condition			

Facility Name: Phillips 66 - San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

	S30 – UNIT 200, B-102 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
21097	2 totapion of requirement	(2/11)	2400
Part 1	Fuel restrictions [Basis: BACT, Cumulative Increase]	Y	
Part 2	Heat ratings, annual firing limits [Basis: Cumulative Increase]	Y	
Part 3a	Abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part 3b	Emission rate limits [Basis: BACT, Cumulative Increase]	Y	
Part 3c	Ammonia limit [Basis: Toxic Management]	N	
Part 4	Continuous fuel monitor requirement [Basis: Cumulative Increase]	Y	
Part 5a	NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase]	Y	
Part 5b	Annual CO source test requirement [Basis: BACT, Cumulative Increase]	Y	
Part 6	Fuel gas TRS concentration limit [Basis: BACT, Cumulative Increase, SO2 bubble]	Y	
Part 7a	TRS testing requirement [Basis: BACT, Cumulative Increase, SO2 Bubble]	Y	
Part 7b	TRS records requirement [Basis: BACT, Cumulative Increase, SO2 Bubble]	Y	
Part 7c	Alternative monitoring for compliance with 40 CFR 60.104(a)(1) H2S limit	Y	
Part 10	Recordkeeping [2-6-503]	Y	
BAAQMD			
Condition			
21099			
Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y	
Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y	
Part 3	Centrifugal compressor requirements [Basis: BACT]	Y	
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y	
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y	
Part 6	ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy]	Y	

This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

	S43 – UNIT 200, B-202 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)	(1/14)	Date
Regulation 1	(e, e, i, i, i)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	CEM performance testing		
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by	Y	
	District		
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/7/17,		
Regulation 2,	effective 6/30/22)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/15/21,		
Regulation 2,	effective 7/1/22)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 2,	Permits, General Requirements (5/21/18)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	

IV. Source Specific Applicable Requirements

Regulation Regulation Title or Description of Requirement Description of Requirement Particulate Matter; General Requirements (8/1/18) Particulate Matter; General Requirements N Gel-1-14.1 Exemption from 6-1-30.2 and 311.2 emission limits N M Gel-1-301 Ringelmann #1 Limitation N M Gel-1-304 Tube Cleaning N M Gel-1-305 Visible Particles N M Gel-1-305 Visible Particles N Gel-1-310.1 Total Suspended Particulate (TSP) Concentration Limit N Gel-1-310.3 Concentration Correction N M Gel-1-310.3 Concentration Correction N Gel-1-310.3 Particulate Matter and Visible Emissions (9/4/98) Particulate Matter and Visible Emissions (9/4/98) Particulate Matter and Visible Emissions (9/4/98) Gel-1-305 Visible Particles Y Gel-1-305 Visible Particles Y Gel-1-305 Visible Particles Y Gel-1-306 Appearance of Emissions Y Gel-1-306		S43 – UNIT 200, B-202 HEATER	Federally	Future
Description of Requirement	Applicable	Regulation Title or	· ·	
Ray Particulate Matter; General Requirements (8/1/18) Regulation 6, Rule 1 6-1-114.1 Exemption from 6-1-310.2 and 311.2 emission limits N 6-1-114.3 Exemption from 6-1-504 source testing requirements N 6-1-301 Ringelmann #1 Limitation N N 6-1-304 Tube Cleaning N N N 6-1-305 Visible Particles N N N N N N N N N	Requirement	Description of Requirement	(Y/N)	Date
Regulation 6, Rule 1 Rule 1 6-1-114.1 Exemption from 6-1-310.2 and 311.2 emission limits N 6-1-114.3 Exemption from 6-1-504 source testing requirements N 6-1-301 Ringelmann #1 Limitation N 6-1-304 Tube Cleaning N 6-1-305 Visible Particles N 6-1-310.1 Total Suspended Particulate (TSP) Concentration Limit N 6-1-310.3 Concentration Correction N 6-1-410 Appearance of Emissions N 8TP Particulate Matter and Visible Emissions (9/4/98) 8EP Particulate Matter and Visible Emissions (9/4/98) 8-301 Ringelmann No. 1 Limitation Y 6-304 Tube Cleaning Y 6-305 Visible Particles Y 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-410 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) N	2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y – note 1	
Rule 1	BAAQMD	Particulate Matter; General Requirements (8/1/18)		
6-1-114.1 Exemption from 6-1-310.2 and 311.2 emission limits N 6-1-114.3 Exemption from 6-1-504 source testing requirements N 6-1-301 Ringelmann #1 Limitation N 6-1-304 Tube Cleaning N 6-1-305 Visible Particles N 6-1-310.1 Total Suspended Particulate (TSP) Concentration Limit N 6-1-310.3 Concentration Correction N 6-1-310.3 Concentration Correction N 6-1-410 Appearance of Emissions N SIP Particulate Matter and Visible Emissions (9/4/98) Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-304 Tube Cleaning Y 6-305 Visible Particles Y 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-310.4 Appearance of Emissions Hortzellate Weight Limitation; Heat Transfer Operation Y 6-410 Appearance of Emissions Y 8-6-410 Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, Nox: 0.033 lb Nox/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-304 Determination of Compliance N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N	Regulation 6,			
6-1-114.3 Exemption from 6-1-504 source testing requirements N	Rule 1			
6-1-301 Ringelmann #1 Limitation N	6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
Tube Cleaning	6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-305 Visible Particles N 6-1-310.1 Total Suspended Particulate (TSP) Concentration Limit N 6-1-310.3 Concentration Correction N 6-1-410 Appearance of Emissions N SIP Particulate Matter and Visible Emissions (9/4/98) Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-304 Tube Cleaning Y 6-305 Visible Particles Y 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-410 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504.1 Records	6-1-301	Ringelmann #1 Limitation	N	
6-1-310.1 Total Suspended Particulate (TSP) Concentration Limit N 6-1-310.3 Concentration Correction N 6-1-410 Appearance of Emissions N SIP Particulate Matter and Visible Emissions (9/4/98) Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-304 Tube Cleaning Y 6-305 Visible Particles 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-410 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit 9-10-406 Determination of Compliance N 9-10-502 Monitoring 9-10-502 Monitoring 9-10-502 Fuel flowmeters Y 9-10-504 Records	6-1-304	Tube Cleaning	N	
6-1-310.3 Concentration Correction N 6-1-410 Appearance of Emissions N SIP Particulate Matter and Visible Emissions (9/4/98) Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-304 Tube Cleaning Y 6-305 Visible Particles Y 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-410 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504 Records N	6-1-305	Visible Particles	N	
Appearance of Emissions N SIP Particulate Matter and Visible Emissions (9/4/98)	6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
Particulate Matter and Visible Emissions (9/4/98)	6-1-310.3	Concentration Correction	N	
Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-304 Tube Cleaning Y 6-305 Visible Particles 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-410 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-303.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Records N	6-1-410	Appearance of Emissions	N	
Ringelmann No. 1 Limitation George Tube Cleaning George Tube Cleaning George Tube Cleaning George Tube Cleaning Tube Cleaning Y George Tube Cleaning For Compliance In It is a complete Cleaning For	SIP	Particulate Matter and Visible Emissions (9/4/98)		
6-304 Tube Cleaning Y 6-305 Visible Particles 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-410 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.5 Units Temporarily Out of Service 9-10-303.5 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504.1 Records N	Regulation 6			
Color Colo	6-301	Ringelmann No. 1 Limitation	Y	
Particulate Weight Limitation; Heat Transfer Operation Y	6-304	Tube Cleaning	Y	
Appearance of Emissions BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504 Records N	6-305	Visible Particles	Y	
BAAQMD Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Records N 9-10-504.1 Records	6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records	6-410	Appearance of Emissions	Y	
Rule 10 in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N Records	BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records	Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N	Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301.5 Units Temporarily Out of Service 9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit 9-10-305 CO emission limit 9-10-406 Determination of Compliance 9-10-407 Boiler, Steam Generator and Process Heater Status Report 9-10-502 Monitoring 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring 9-10-502.2 Fuel flowmeters 9-10-504 Recordkeeping 9-10-504.1 Records N	9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-303 Federal Facility-wide and CO Boiler NOx emission rate limit 9-10-305 CO emission limit 9-10-406 Determination of Compliance 9-10-407 Boiler, Steam Generator and Process Heater Status Report 9-10-502 Monitoring 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring 9-10-502.2 Fuel flowmeters 9-10-504 Recordkeeping N 9-10-504.1 Records	9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N	9-10-301.5	Units Temporarily Out of Service	N	
9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N	9-10-303	Federal Facility-wide and CO Boiler NOx emission rate limit	Y	
9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N	9-10-305	CO emission limit	N	
9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N	9-10-406	Determination of Compliance	N	
9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N	9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N	9-10-502	Monitoring	Y	
9-10-504 Recordkeeping N 9-10-504.1 Records N	9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-504.1 Records N	9-10-502.2	Fuel flowmeters	Y	
	9-10-504	Recordkeeping	N	
9-10-505 Reporting N	9-10-504.1	Records	N	
	9-10-505	Reporting	N	

IV. Source Specific Applicable Requirements

	S45 – UNII 200, B-202 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission		
	limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to	Y	
	performance tests required by 60.8		
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	

IV. Source Specific Applicable Requirements

	S43 – UNIT 200, B-202 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
40 CFR 60,	Standards of Performance for Petroleum Refineries (12/1/2015)		
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
40 CFR 60,	Appendix A to Part 60 – Test Methods	Y	
Appendix A			
40 CFR 60,	Performance Specifications		
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
(2.7500/0	Startup and Shutdown Exclusions	Y	
63.7500(f)	Startup and Shatdown Exclusions	1	

IV. Source Specific Applicable Requirements

	S43 – UNIT 200, B-202 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part D.1	S43 abatement requirement [Basis: BACT, Cumulative Increase]	Y	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

,	Federally	Future
		Effective
		Date
-		
•	Y	
-		
Throughput limits for source S43 [Basis: 2-1-234.3]	Y	
Sources subject to Regulation 9-10-301 and 9-10-305 [Basis:	Y	
Regulation 9-10-301, 9-10-305]		
O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
CO source test requirement for sources with NOx CEMs [Basis:	Y	
Regulation 9-10-502]		
CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Compliance demonstration with Alternative Compliance Plan [Basis:	N	
Regulation 2-9-303, 9-10-301]		
Quarterly report showing amount of IERC's used during previous	N	
quarter, IERC's used during current ACP period, projection of		
IERC's required and certification that the facility possesses IERC's		
equal to the amount projected [Basis: Regulation 2-9-502.3]		
Annual reconciliation report and surrendering of banking certificate(s)	N	
ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	
	Regulation 9-10-301, 9-10-305] O2 CEM requirement [Basis: Regulation 9-10-502] CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] Recordkeeping requirement [Basis: Regulation 9-10-504] Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301] Quarterly report showing amount of IERC's used during previous quarter, IERC's used during current ACP period, projection of IERC's required and certification that the facility possesses IERC's equal to the amount projected [Basis: Regulation 2-9-502.3] Annual reconciliation report and surrendering of banking certificate(s) [Basis: Regulation 2-9-502.4] ACP renewal request [Basis: Regulation 2-9-502.2]	Regulation Title or Description of Requirement S43, S44 NOx emission limits [Basis: BACT, Cumulative Increase] Y S43, S44 NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase] Y S43, S44 NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase] Throughput limits for source S43 [Basis: 2-1-234.3] Y Sources subject to Regulation 9-10-301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305] O2 CEM requirement [Basis: Regulation 9-10-502] CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502] CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522] Y Recordkeeping requirement [Basis: Regulation 9-10-504] Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301] Quarterly report showing amount of IERC's used during previous quarter, IERC's used during current ACP period, projection of IERC's required and certification that the facility possesses IERC's equal to the amount projected [Basis: Regulation 2-9-502.3] Annual reconciliation report and surrendering of banking certificate(s) [Basis: Regulation 2-9-502.4] ACP renewal request [Basis: Regulation 2-9-502.2] N

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

Table IV – A.13 Source-specific Applicable Requirements S44 – UNIT 200, B-201 HEATER

	S44 – UNIT 200, B-201 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (7/09/08)		
Regulation 1			
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/7/17,		
Regulation 2,	effective until 6/30/22)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/15/21,		
Regulation 2,	effective 7/1/22)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 2,	Permits, General Requirements (5/21/18)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y – note 1	

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

Regulation Regulation Title or Description of Requirement Description of Requirement Particulate Matter; General Requirements (8/1/18)		S44 – UNIT 200, B-201 HEATER	Federally	Future
Description of Requirement Description of Requirement Particulate Matter; General Requirements (%1/18)	Applicable	Regulation Title or	· ·	
Regulation 6, Rule 1	Requirement	Description of Requirement	(Y/N)	Date
Rule 1	BAAQMD	Particulate Matter; General Requirements (8/1/18)		
6-1-114.1 Exemption from 6-1-310.2 and 311.2 emission limits N 6-1-14.3 Exemption from 6-1-504 source testing requirements N 6-1-301 Ringelmann #1 Limitation N 6-1-305 Visible Particles N 6-1-310.1 Total Suspended Particulate (TSP) Concentration Limit N 6-1-310.3 Concentration Correction N 6-1-310.1 Appearance of Emissions N SIP Particulate Matter and Visible Emissions (9/4/98) Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particles Y 6-301 Appearance of Emissions Y 7 Particulate Weight Limitation Y 8 Particulate Weight Limitation; Heat Transfer Operation Y 9 Particulate Weight Limitation; Heat Transfer Operation Y 9 Particulate Weight Limitation; Heat Transfer Operation Y 9 Particulate Weight Limitation; Heat Transfer Operation N 9 Particulate Matter and Visible Emissions (9/4/98) 9 Particulate Meight Limitation N 9 Particula	Regulation 6,			
6-1-114.3 Exemption from 6-1-504 source testing requirements N 6-1-301 Ringelmann #1 Limitation N 6-1-305 Visible Particles 6-1-310.1 Total Suspended Particulate (TSP) Concentration Limit N 6-1-310.3 Concentration Correction N 6-1-401 Appearance of Emissions N SIP Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particulate Weight Limitation; Heat Transfer Operation Y 6-306 Visible Particulate Weight Limitation; Heat Transfer Operation Y 6-401 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 N 9-10-301.2 N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504 Recordseping N 9-10-505 Reporting N N	Rule 1			
6-1-301 Ringelmann #1 Limitation N 6-1-305 Visible Particles N 6-1-305 Visible Particles N N 6-1-310.1 Total Suspended Particulate (TSP) Concentration Limit N 6-1-310.3 Concentration Correction N N 6-1-401 Appearance of Emissions N N SIP Particulate Matter and Visible Emissions (9/4/98) Regulation 6 6-301 Ringelmann No. 1 Limitation Y G-305 Visible Particles Y Y O-6-305 Visible Particles Y Y O-6-301 Appearance of Emissions Y Particulate Weight Limitation; Heat Transfer Operation Y G-401 Appearance of Emissions Y Y O-6-305 Visible Particles Y O-6-306 Appearance of Emissions Y O-6-307 Appearance of Emissions Y O-6-308 Appearance of Emissions Y O-6-309 Appearance of Emissions Y O-6-301 Appearance of Emissions Y O-6-301 Appearance of Emissions Y O-6-301 Emission Limit for Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) O-9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N O-9-10-301 Appearance of Emission Appearance of Emission Appearance of Emission Appearan	6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
1.00	6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-310.1 Total Suspended Particulate (TSP) Concentration Limit N 6-1-310.3 Concentration Correction N 6-1-401 Appearance of Emissions N SIP Particulate Matter and Visible Emissions (9/4/98) Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particles Y 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-401 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 Po-10-301.2 N 9-10-301.2 N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504.1 Records N 9-10-505 Reporting N	6-1-301	Ringelmann #1 Limitation	N	
6-1-310.3 Concentration Correction N 6-1-401 Appearance of Emissions N SIP Particulate Matter and Visible Emissions (9/4/98) Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particles Y 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-401 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 N 9-10-301.2 N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504.1 Records N 9-10-505 Reporting	6-1-305	Visible Particles	N	
Appearance of Emissions N SIP Particulate Matter and Visible Emissions (9/4/98)	6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
Particulate Matter and Visible Emissions (9/4/98)	6-1-310.3	Concentration Correction	N	
Regulation 6 6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particles Y 6-310.3 Particulate Weight Limitation; Heat Transfer Operation Y 6-401 Appearance of Emissions Y BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) N 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 N 9-10-301.2 N 9-10-301.3 Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-304 Determination of Compliance N 9-10-406 Determination of Compliance N 9-10-502 Monitoring Y 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504 Recordkeeping N 9	6-1-401	Appearance of Emissions	N	
Ringelmann No. 1 Limitation	SIP	Particulate Matter and Visible Emissions (9/4/98)		
6-305 Visible Particles 6-310.3 Particulate Weight Limitation; Heat Transfer Operation 7 Particulate Weight Limitation; Heat Transfer Operation 8 Particulate Weight Limitation; Heat Transfer Operation 9 Particulate Weight Limitation Particulate P	Regulation 6			
Particulate Weight Limitation; Heat Transfer Operation Appearance of Emissions BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 N 9-10-301.2 N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504 Records N 9-10-505 Reporting N	6-301	Ringelmann No. 1 Limitation	Y	
Appearance of Emissions BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 N 9-10-301.2 N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504.1 Records N 9-10-505 Reporting N	6-305	Visible Particles	Y	
BAAQMD Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 N 9-10-301.2 N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504.1 Records N 9-10-505 Reporting N	6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
Regulation 9, Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 N 9-10-301.2 N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Records N 9-10-505 Reporting N	6-401	Appearance of Emissions	Y	
Rule 10 in Petroleum Refineries (11/3/21) 9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 N 9-10-301.2 N 9-10-301.3 Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-504.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-505 Reporting N	BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
9-10-301 Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu N 9-10-301.1 N 9-10-301.2 N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-505 Reporting N	Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
9-10-301.1 N 9-10-301.2 N 9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-505 Reporting N	Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301.2	9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3Test-firing on Non-gaseous fuel Contribution N 9-10-301.5 Units Temporarily Out of Service N 9-10-303 Federal Facility-wide NOx emission rate limit Y 9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N 9-10-505 Reporting N	9-10-301.1		N	
9-10-301.5 Units Temporarily Out of Service 9-10-303 Federal Facility-wide NOx emission rate limit 9-10-305 CO emission limit 9-10-406 Determination of Compliance 9-10-407 Boiler, Steam Generator and Process Heater Status Report 9-10-502 Monitoring 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring 9-10-502.2 Fuel flowmeters 9-10-504 Recordkeeping 9-10-504 Records 9-10-505 Reporting N	9-10-301.2		N	
9-10-303 Federal Facility-wide NOx emission rate limit 9-10-305 CO emission limit 9-10-406 Determination of Compliance 9-10-407 Boiler, Steam Generator and Process Heater Status Report 9-10-502 Monitoring 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring 9-10-502.2 Fuel flowmeters 9-10-504 Recordkeeping 9-10-504 Records 9-10-505 Reporting N	9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-305 CO emission limit N 9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504 Records N 9-10-505 Reporting N	9-10-301.5	Units Temporarily Out of Service	N	
9-10-406 Determination of Compliance N 9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504 Records N 9-10-505 Reporting N	9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-407 Boiler, Steam Generator and Process Heater Status Report N 9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N 9-10-505 Reporting N	9-10-305	CO emission limit	N	
9-10-502 Monitoring Y 9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N 9-10-505 Reporting N	9-10-406	Determination of Compliance	N	
9-10-502.1 CEMS for NOx, CO, and O2, or equivalent monitoring Y 9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N 9-10-505 Reporting N	9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502.2 Fuel flowmeters Y 9-10-504 Recordkeeping N 9-10-504.1 Records N 9-10-505 Reporting N	9-10-502	Monitoring	Y	
9-10-504 Recordkeeping N 9-10-504.1 Records N 9-10-505 Reporting N	9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-504.1 Records N 9-10-505 Reporting N	9-10-502.2	Fuel flowmeters	Y	
9-10-505 Reporting N	9-10-504	Recordkeeping	N	
	9-10-504.1	Records	N	
9-10-601 Determination of NOx N	9-10-505	Reporting	N	
	9-10-601	Determination of NOx	N	

IV. Source Specific Applicable Requirements

	544 – UNII 200, B-201 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission		
	limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to	Y	
	performance tests required by 60.8		
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	

IV. Source Specific Applicable Requirements

	S44 – UNIT 200, B-201 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
40 CFR 60,	Standards of Performance for Petroleum Refineries (12/01/2015)		
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
40 CFR 60,	Appendix A to Part 60 – Test Methods	Y	
Appendix A			
40 CFR 60,	Performance Specifications		
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD	Amplicability	V	
63.7490(d)	Applicability Compliance Dates	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(l)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	

IV. Source Specific Applicable Requirements

	S44 – UNIT 200, B-201 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7530(e)	Notification of Compliance Status	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part D.2	S43, S44 NOx emission limits [Basis: BACT, Cumulative Increase]	Y	
Part D.3	S43, S44 CO emission limits [Basis: BACT, Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

	544 - CMI 200, B-201 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part D.4	S43, S44 NOx, O2 CEM requirement [Basis: BACT, Cumulative	Y	
	Increase]		
BAAQMD	Throughput limits for source S44 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part A			
BAAQMD			
Condition			
21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis:	Y	
	Regulation 9-10-301, 9-10-305]		
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 8	CO source test requirement for sources with NOx CEMs [Basis:	Y	
	Regulation 9-10-502]		
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis:	N	
	Regulation 2-9-303, 9-10-301]		
Part 12	Quarterly report showing amount of IERC's used during previous	N	
	quarter, IERC's used during current ACP period, projection of		
	IERC's required and certification that the facility possesses IERC's		
	equal to the amount projected [Basis: Regulation 2-9-502.3]		
Part 13	Annual reconciliation report and surrendering of banking	N	
	certificate(s) [Basis: Regulation 2-9-502.4]		
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

Table IV – A.14 Source-specific Applicable Requirements S50, S51, S52 – TURBINE STARTUP ENGINES

	550, 551, 552 – TURBINE STARTUP ENGINE	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter, General Requirements (8/1/18)	(1/11)	Dutt
Regulation 6,	2 11 11 11 11 11 11 11 11 11 11 11 11 11		
Rule 1			
6-1-303.1	Ringelmann #2 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentraton Limits	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-303.1	Ringelmann No. 2 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions		
Regulation 9,	Limitations (11/3/21)		
Rule 1			
9-1-304	Fuel Burning (Liquid and Solid fuels)	Y	
BAAQMD	Nitrogen Oxides And Carbon Monoxide From Stationary		
Regulation 9,	Internal Combustion Engines (7/25/07)		
Rule 8			
9-8-111.3	Limit Exemptions for Low Usage: Effective 1/1/12, engines which	N	
	operate less than 100 hours in any 12-consecutive month period are		
	only subject to 9-8-502.1 and 9-8-530.		
9-8-502	Recordkeeping	N	
9-8-502.1	Hours of Operation	N	
9-8-530	Emergency Standby and Low Usage Engines, Monitoring and	N	
	Recordkeeping		
CCR, Title 17,	ATCM for Stationary Compression Ignition Engines (5/19/2011)		
Section 93115			
93115.3	Exemptions	N	
93115.3(j)	Exemption for Low-Use Prime Engines Outside of School Boundaries	N	
93115.5	Fuel Requirements	N	
93115.5(a)	Fuel Requirements for new or in-use stationary CI engines	N	
93115.10	Recordkeeping, Reporting, & Monitoring Requirements	N	
93115.15	Severability	N	

Facility Name: Phillips 66 - San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – A.14 Source-specific Applicable Requirements \$50, \$51, \$52 – Turbine Startup Engines

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for	Y	
Subpart	Stationary Reciprocating Internal Combustion Engines		
ZZZZ	Standards of Performance for Stationary Compression Ignition		
	Internal Combustion Engines (01/30/13)		
63.6602	Existing Engine Requirements	Y	
63.6605	General Compliance Requirements	Y	
63.6625	Operation and Maintenance Requirements	Y	
63.6640	Continuous Compliance Requirements	Y	
63.6655	Recordkeeping Requirements	Y	
63.6660	Record Retention	Y	
Table 2c(1)	Existing Engine Requirements	Y	
Table 6(9)	Continuous Compliance with Emission Limitations and Other Requirements	Y	
BAAQMD			
Condition			
19488			
Part 1	60 hr/yr combined total operating limit for S50, S51 and S52 [Basis:	N	
	"Stationary Diesel Engine ATCM" 93115.3(j)]		
Part 2	Operating hour records [Basis: "Stationary Diesel Engine ATCM" 93115.10(f)]	N	

Table IV – A.15 Source-specific Applicable Requirements S53, S56, S57, S58, S59, S1011 – EMERGENCY DIESEL ENGINES

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter; General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-303.1	Ringelmann #2 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limitis	N	
6-1-401	Appearance of Emissions	N	

IV. Source Specific Applicable Requirements

Table IV – A.15 Source-specific Applicable Requirements S53, S56, S57, S58, S59, S1011 – EMERGENCY DIESEL ENGINES

	853, 856, 857, 858, 859, 81011 – EMERGENCY DIESI	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
SIP	Particulate Matter and Visible Emissions (9/4/98)	(1/14)	Date
Regulation 6	and visible Emissions (7/4/70)		
6-303.1	Ringelmann No. 2 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions		
Regulation 9,	Limitations (11/3/21)		
Rule 1			
9-1-304	Fuel Burning (Liquid and Solid fuels)	Y	
BAAQMD	Nitrogen Oxides And Carbon Monoxide From Stationary		
Regulation 9,	Internal Combustion Engines (7/25/07)		
Rule 8			
9-8-110.5	Exemptions: Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	Emergency Standby Engines, Emergency Operation	N	
9-8-330.3	Emergency Standby Engines, Reliability-Related Activities ≤50	N	
	hours/yr		
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency standby engines, monitoring and recordkeeping	N	
CCR, Title 17,	ATCM for Stationary Compression Ignition Engines (05/19/11)		
Section 93115	(S53 – Emergency Electricity Generator)		
93115.5	Fuel Requirements	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-	N	
	Fueled CI Engine (>50 bhp) Operating Requirements and Emission		
	Standards		
93115.6(b)	In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp)	N	
	Operating Requirements and Emission Standards		
93115.6(b)(3)	Emission and operation standards	N	
93115.6(b)(3)	Diesel PM Standard and Hours of Operation Limitations	N	
(A)			
93115.6(b)(3)	General Requirements	N	
(A)(1)			
93115.6(b)(3)	20 hours/yr for maintenance & testing	N	
(A)(1)(a)			

IV. Source Specific Applicable Requirements

Table IV – A.15 Source-specific Applicable Requirements S53, S56, S57, S58, S59, S1011 – EMERGENCY DIESEL ENGINES

	S33, S30, S37, S30, S37, S1011 - EMERGENC 1 DIES	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
93115.10(d)(1)	Monitoring Equipment	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
CCR, Title 17,	ATCM for Stationary Compression Ignition Engines (05/19/11)		
Section 93115	(S56, S57, S58, S59 – Firewater Pump Engines)		
93115.3	Exemptions	N	
95113.3(n)	Exemption for In-Use Emergency Fire Pump Assemblies	N	
93115.5	Fuel Requirements	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
CCR, Title 17,	ATCM for Stationary Compression Ignition Engines (05/19/11)		
Section 93115	(S1011 – Emergency Electricity Generator)		
93115.5	Fuel Requirements	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-	N	
	Fueled CI Engine (>50 bhp) Operating Requirements and Emission		
	Standards		
93115.10	Recordkeeping, Reporting, and Monitoring	N	
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for	Y	
Subpart	Stationary Reciprocating Internal Combustion Engines		
ZZZZ	Standards of Performance for Stationary Compression Ignition		
	Internal Combustion Engines (01/30/13) for S53, S56, S57, S58,		
	S59	1	
63.6602	Emission Limitations	Y	
63.6605	General Compliance Requirements	Y	
63.6625	Good Air Pollution Control Practice Requirements Monitoring,	Y	
	Installation, Collection, Operation, and Maintenace Requirements		
63.6640	Continuous Compliance Requirements	Y	
63.6650	Types of Reports to Submit and Submittal Dates	Y	
63.6655	Recordkeeping Requirements	Y	
63.6660	Record Retention	Y	
63.6665	General Provision Applicability	Y	
Table 2c	Existing Emergency Engine Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – A.15 Source-specific Applicable Requirements S53, S56, S57, S58, S59, S1011 – EMERGENCY DIESEL ENGINES

	555, 550, 557, 550, 557, 51011 - EMERGENCI DIESE	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for	Y	
Subpart	Stationary Reciprocating Internal Combustion Engines		
ZZZZ	Standards of Performance for Stationary Compression Ignition		
	Internal Combustion Engines (01/30/13) for S1011		
BAAQMD			
Condition			
19488			
Part 3	20 hr/yr operating limit (non-emergency) for S53 [Basis: "Stationary	N	
	Diesel Engine ATCM" 93115.6(b)(3)(A)(1)(a)]		
Part 5	Monitoring for S53 [Basis: "Stationary Diesel Engine ATCM"	N	
	93115.10(e)(1)]		
Part 6	Operating hour records for S53 [Basis: "Stationary Diesel Engine	N	
	ATCM" 93115.10(g)]		
Part 7	50 hr/yr operating limit per engine for S56, S57, S58 and S59,	N	
	Firewater pump engines [Basis: "Stationary Diesel Engine ATCM"		
	93115.3(n)		
Part 8	Operating hour records for S56, S57, S58 and S59, Firewater pump	N	
	engines [Basis: "Stationary Diesel Engine ATCM" 93115.10(g)		
BAAQMD			
Condition			
22850			
Part 1	50 hr/yr operating limit (non-emergency) for S1011 [Basis:	N	
	"Stationary Diesel Engine ATCM" 93115]		
Part 4	Operating hour records for S51011 [Basis: "Stationary Diesel Engine	N	
	ATCM" 93115]		

Table IV – A.16 Source-specific Applicable Requirements S336 – UNIT 231, B-104 HEATER S337 – UNIT 231, B-105 HEATER

	2001 01.22 20 ,2 200 22 22 22 22 22 22 22 22 22 22 22 2		
		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)]		

IV. Source Specific Applicable Requirements

	5557 - CM1 251, B-105 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Regulation 1			
1-521	Monitoring May Be Required	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	Y^1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentraton Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	

IV. Source Specific Applicable Requirements

Applicable	Pagulatian Title or	Federally Enforceable	Future Effective
Applicable Requirement	Regulation Title or Description of Requirement	(Y/N)	Effective Date
9-10-303	Federal Facility-wide NOx emission rate limit	Y	Date
9-10-305	CO emission limit	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of POS Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon	1	
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (10/16/13)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission		

IV. Source Specific Applicable Requirements

	5557 - CNII 251, B-105 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1	limits), of Part 60	· · · · ·	
60.13(b)	Continuous monitoring systems and devices operational prior to	Y	
	performance tests required by 60.8		
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
40 CFR 60,	Standards of Performance for Petroleum Refineries (12/1/15)		
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
40 CFR 60,	Appendix A to Part 60 – Test Methods	Y	
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	

IV. Source Specific Applicable Requirements

	9337 - CMI 231, B-103 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1a	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	

IV. Source Specific Applicable Requirements

	9337 – UNII 231, B-103 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
BAAQMD	Individual throughput limits for sources S336 and S337 [Basis: 2-1-	Y	
Condition	234.3]		
20989, Part A			
BAAQMD			
Condition			
21235			
Part 1	Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305]	Y	
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 3	"NOx Box" requirement for sources without NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 4	"NOx Box" development procedure [Basis: Regulation 9-10-502]	Y	
Part 5	"NOx Box" parameters [Basis: Regulation 9-10-502]	Y	
Part 6a	Allowed "NOx Box" deviations [Basis: Regulation 9-10-502]	Y	
Part 6b	"NOx Box" deviation reporting requirement [Basis: Regulation 9-10-502]	Y	
Part 7	NOx, CO, O2 source test requirement for sources without NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301]	N	
Part 12	Quarterly report showing amount of IERC's used during previous quarter, IERC's used during current ACP period, projection of IERC's required and certification that the facility possesses IERC's equal to the amount projected [Basis: Regulation 2-9-502.3]	N	
Part 13	Annual reconciliation report and surrendering of banking certificate(s) [Basis: Regulation 2-9-502.4]	N	

IV. Source Specific Applicable Requirements

Table IV – A.16 Source-specific Applicable Requirements S336 – Unit 231, B-104 Heater S337 – Unit 231, B-105 Heater

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

	,	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (7/09/08)		
Regulation 1			
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	CEM performance testing	N	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/7/17,		
Regulation 2,	effective until 6/30/22)		

IV. Source Specific Applicable Requirements

	5551 - UNIT 207, D-001/002 HEATERS	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Rule 1	Description of requirement	(2/11)	Dutt
2-1-403	Permit conditions requiring measurement of emissions	Y	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/15/21,		
Regulation 2,	effective 7/1/22)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 2,	Permits, General Requirements (5/21/18)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y – note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	

IV. Source Specific Applicable Requirements

S351 - UNIT 267, B-001/002 HEATERS Federally Future					
Applicable	Regulation Title or	Enforceable	Effective		
Requirement	Description of Requirement	(Y/N)	Date		
9-10-303	Federal Facility-wide NOx emission rate limit	Y	Dute		
9-10-305	CO emission limit	N			
9-10-502	Monitoring	Y			
9-10-406	Determination of Compliance	N			
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N			
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y			
9-10-502.2	Fuel flowmeters	Y			
9-10-504	Recordkeeping	N			
9-10-504	Records	N N			
9-10-304.1		N N			
9-10-303	Reporting Determination of NOx	N N			
	+				
9-10-602	Determination of CO and Stack Gas O2	N			
9-10-603	Compliance Determination	Y			
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon				
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters				
Rule 10	in Petroleum Refineries (4/2/08)	37			
9-10-504	Recordkeeping	Y			
9-10-504.1	Records	Y			
9-10-505	Reporting	Y			
9-10-601	Determination of NOx	Y			
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y			
Manual of					
Procedures,					
Volume V	C				
40 CFR 60,	General Provisions (1/18/08)				
Subpart A 60.7(b)	Records	Y			
	Notification and recordkeeping for continuous monitoring	Y			
60.7(c)	1 2	Y			
60.7(d)	Summary reports				
60.7(e)	Reduction of frequency of summary reports	Y			
60.7(f)	Records Alternative Neticination	Y			
60.7(g)	Alternative Notification	Y			
60.7(h)	Specific Provisions	Y			
60.8	Performance Tests	Y			
60.11	Compliance with Standards and Maintenance Requirements	Y			

IV. Source Specific Applicable Requirements

	5351 – UNIT 207, B-001/002 HEATERS		
		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission		
	limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to	Y	
	performance tests required by 60.8		
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
40 CFR 60,	Standards of Performance for Petroleum Refineries (12/1/15)		
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(e)(3)(ii)	Excess H2S emission definitions for 60.7(c)	Y	
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
40 CFR 60,	Appendix A to Part 60 – Test Methods	Y	
Appendix A			
40 CFR 60,	Performance Specifications		
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	

IV. Source Specific Applicable Requirements

	5551 - UNIT 207, B-001/002 HEATERS	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	

IV. Source Specific Applicable Requirements

	S351 – UNIT 267, B-601/602 HEATERS	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part B.1	S351 abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part B.2	S351 NOx emission limit [Basis: BACT, Cumulative Increase]	Y	
Part B.3	S351 NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase]	Y	
BAAQMD	Throughput limits for source S351 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part A			
BAAQMD			
Condition			
21235 Part 1	Sources subject to Regulation 9-10–301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305]	Y	
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 8	CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301]	N	
Part 12	Quarterly report showing amount of IERC's used during previous quarter, IERC's used during current ACP period, projection of IERC's required and certification that the facility possesses IERC's equal to the amount projected [Basis: Regulation 2-9-502.3]	N	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 13	Annual reconciliation report and surrendering of banking certificate(s)	N	
	[Basis: Regulation 2-9-502.4]		
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

Table IV – A.18 Source-specific Applicable Requirements S371 – UNIT 228, B-520 FURNACE S372 – UNIT 228, B-521 FURNACE

Aunliachla	December Title on	Federally	Future Effective
Applicable Requirement	Regulation Title or Description of Requirement	Enforceable (Y/N)	Date
BAAQMD	General Provisions and Definitions (7/09/08)	(1/14)	Date
Regulation 1	General Provisions and Definitions (7/07/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	

IV. Source Specific Applicable Requirements

Table IV – A.18 Source-specific Applicable Requirements S371 – UNIT 228, B-520 FURNACE S372 – UNIT 228, B-521 FURNACE

	5572 - CMT 220, D-321 F UNIACE	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMbtu	N	
9-10-301.3	Test-firing on Non-gaseous fuel Contribution	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Federal Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam generator and Process Heater Status Report	N	
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records	N	
9-10-505	Reporting	N	
9-10-601	Determination of NOx	N	
9-10-602	Determination of CO and Stack Gas O2	N	
9-10-603	Compliance Determination	Y	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (4/2/08)		
9-10-504	Recordkeeping	Y	
9-10-504.1	Records	Y	
9-10-505	Reporting	Y	
9-10-601	Determination of NOx	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60,	General Provisions (1/18/08)		

IV. Source Specific Applicable Requirements

Table IV – A.18 Source-specific Applicable Requirements S371 – UNIT 228, B-520 FURNACE S372 – UNIT 228, B-521 FURNACE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Subpart A	Records	Y	
60.7(b)			
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix	Y	
	F, (if used to demonstrate compliance with continuous emission		
	limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to	Y	
	performance tests required by 60.8		
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for	Y	
	non-opacity-measuring devices		
60.13(f)	Continuous monitoring system installation location requirement	Y	
40 CFR 60,	Standards of Performance for Petroleum Refineries (12/1/15)		
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion (in lieu of separate combustion device exhaust SO2		

IV. Source Specific Applicable Requirements

Table IV – A.18 Source-specific Applicable Requirements S371 – UNIT 228, B-520 FURNACE

S372 – UNIT 228, B-521 FURNACE

	,	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	monitors as required by 60.105(a)(3))		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
40 CFR 60,	Appendix A to Part 60 – Test Methods	Y	
Appendix A			
40 CFR 60,	Performance Specifications		
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(1)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – A.18 Source-specific Applicable Requirements S371 – UNIT 228, B-520 FURNACE

S372 – UNIT 228, B-521 FURNACE

	S372 - UNII 228, B-321 FURNACE	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1b	Heat ratings, firing limits [Basis: Regulation 2-1-301]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part C.1	S371, S372 abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part C.2	S371, S372 NOx emission limits [Basis: BACT, Cumulative Increase]	Y	
Part C.3	S371, S372 CO emission limits [Basis: BACT, Cumulative Increase]	Y	
BAAQMD	Individual throughput limits for sources S371 and S372 [Basis: 2-1-	Y	
Condition	234.3]		
20989, Part A			
BAAQMD			

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – A.18 Source-specific Applicable Requirements S371 – UNIT 228, B-520 FURNACE S372 – UNIT 228, B-521 FURNACE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Condition 21235			
Part 1	Sources subject to Regulation 9-10-301 and 9-10-305 [Basis: Regulation 9-10-301, 9-10-305]	Y	
Part 2	O2 CEM requirement [Basis: Regulation 9-10-502]	Y	
Part 8	CO source test requirement for sources with NOx CEMs [Basis: Regulation 9-10-502]	Y	
Part 9	CO, O2 CEM requirement [Basis: Regulation 9-10-502, 1-522]	Y	
Part 10	Recordkeeping requirement [Basis: Regulation 9-10-504]	Y	
Part 11	Compliance demonstration with Alternative Compliance Plan [Basis: Regulation 2-9-303, 9-10-301]	N	
Part 12	Quarterly report showing amount of IERC's used during previous quarter, IERC's used during current ACP period, projection of IERC's required and certification that the facility possesses IERC's equal to the amount projected [Basis: Regulation 2-9-502.3]	N	
Part 13	Annual reconciliation report and surrendering of banking certificate(s) [Basis: Regulation 2-9-502.4]	N	
Part 14	ACP renewal request [Basis: Regulation 2-9-502.2]	N	
Part 15	Recordkeeping requirement [Basis: Regulation 2-9-502.2]	N	

This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.19
Source-specific Applicable Requirements
S438 – Unit 110, H-1 Furnace

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (7/09/08)		
Regulation 1			
1-521	Monitoring May Be Required	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	S438 – UNIT 110, H-1 FURNACE Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	performance test requirements	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Nitrogen Oxides and Carbon Monoxide from Boiler, Steam		
Regulation 9	Generators and Process Heaters in Petroleum Refineries (11/3/21)		

IV. Source Specific Applicable Requirements

	S438 – UNIT 110, H-1 FURNACE	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Rule 10	2 total prior of 2 to quantum or	(2/11)	2400
9-10-110.5	Exemption as heater is subject to BACT requirements	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission limits), of Part 60	Y	
60.13(b)	Continuous monitoring systems and devices operational prior to performance tests required by 60.8	Y	
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices	Y	
60.13(f)	Continuous monitoring system installation location requirement	Y	
40 CFR 60,	Standards of Performance for Petroleum Refineries (12/1/15)		
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement		
Kequii eiiieiii	except for gas burned as a result of process upset or gas burned at	(Y/N)	Date
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
00.103(4)(1)	combustion (in lieu of separate combustion device exhaust SO2		
	monitors as required by 60.105(a)(3))		
60.105(a)(4)	Exemption from SO2 or H2S monitoring for fuel inherently low in	Y	
(iv)	sulfur content (UK Sweet gas and PSA off gas)		
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
60.107(e)	Recordkeeping – Maintain records of 60.105(a)(4)(iv) exemption	Y	
	chosen.		
40 CFR 60,	New Source performance Standards - General Provisions		
Subpart A	(03/16/1994)		
60.13	Monitoring Requirements	Y	
40 CFR 60,	Appendix A to Part 60 – Test Methods	Y	
Appendix A			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(l)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement 63.7545(b) 63.7545(e)	Regulation Title or Description of Requirement Initial Notification Requirements Notification of Compliance Status	Federally Enforceable (Y/N) Y	Future Effective Date
Requirement 63.7545(b) 63.7545(e)	Description of Requirement Initial Notification Requirements	(Y/N)	
63.7545(e)	†	Y	
	Notification of Compliance Status		
		Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD			
Condition			
1694			
Part A.1c	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part E.1	S438 abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part E.2	S438 annual firing limit [Basis: Cumulative Increase]	Y	
Part E.3	S438 PSA offgas fuel TRS limit [Basis: BACT, Cumulative Increase]	Y	
Part E.4	S438 NOx, CO and POC emission limits [Basis: BACT, Cumulative Increase]	Y	

Table IV – A.19 Source-specific Applicable Requirements S438 – Unit 110, H-1 Furnace

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part E.5	S438 fuel gas TRS limit [Basis: BACT, Cumulative Increase]	Y	
Part E.6	S438 Records [Basis: Cumulative Increase]	Y	
Part E.7	S438 modification startup source test requirement [Basis: BACT, Cumulative Increase]	Y	
Part E.8	S438 modification startup source test requirement [Basis: BACT, Cumulative Increase]	Y	

This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.20 Source-specific Applicable Requirements S461 – UNIT 250, B-701 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (7/09/08)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		

IV. Source Specific Applicable Requirements

	S461 – UNIT 250, B-701 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/7/17, ,		
Regulation 2,	effective until 6/30/22)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/15/21,		
Regulation 2,	effective 7/1/22)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 2,	Permits, General Requirements (5/21/18)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
2-1-501	Monitors	Y- note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentraton Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Nitrogen Oxides and Carbon Monoxide from Boiler, Steam		
Regulation 9	Generators and Process Heaters in Petroleum Refineries (11/3/21)		

IV. Source Specific Applicable Requirements

	S461 – UNIT 250, B-701 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Rule 10	2 total prior of 2 to quantum or and a second or a sec	(2/2/)	2 400
9-10-110.5	Exemption as heater is subject to BACT requirements	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60,	General Provisions (1/18/08)		
Subpart A			
60.7(b)	Records	Y	
60.7(c)	Notification and recordkeeping for continuous monitoring	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of summary reports	Y	
60.7(f)	Records	Y	
60.7(g)	Alternative Notification	Y	
60.7(h)	Specific Provisions	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission	Y	
	limits), of Part 60		
60.13(b)	Continuous monitoring systems and devices operational prior to performance tests required by 60.8	Y	
60.13(d)(1)	Continuous monitoring system zero and span calibration requirements	Y	
60.13(e)	Continuous monitoring system minimum frequency of operation	Y	
60.13(e)(2)	Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices	Y	
60.13(f)	Continuous monitoring system installation location requirement	Y	
40 CFR 60,	Standards of Performance for Petroleum Refineries (12/01/2015)		
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	

IV. Source Specific Applicable Requirements

	5401 - CM1 250, B-701 HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(e)(3)	Excess H2S emission definitions for 60.7(c)	Y	
(ii)			
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
40 CFR 60,	Appendix A to Part 60 – Test Methods	Y	
Appendix A			
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	H2S continuous emission monitoring systems	Y	
Specification 7			
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(l)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	

IV. Source Specific Applicable Requirements

Table IV – A.20 Source-specific Applicable Requirements \$461 – UNIT 250, B-701 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	
63.7550(h)	Reporting Procedures	Y	
63.7555(a)	Required Records	Y	
63.7555(h)	Alternative Fuel Usage Records	Y	
63.7555(i)	Records of Startup and Shutdown	Y	
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y	
63.7560(a)	Recordkeeping Requirements	Y	
63.7560(b)	Duration of Recordkeeping	Y	
63.7560(c)	Location of Records	Y	
Table 3	Work Practice Standards	Y	
Table 9	Reporting Requirements	Y	
Table 10	Applicability of General Provisions (Subpart A)	Y	
BAAQMD Condition 1694			
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5c	Records of SO2 emissions [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
BAAQMD Condition 21096			
Part 1	Fuel restrictions [Basis: BACT, Cumulative Increase]	Y	
Part 2	Heat ratings, annual firing limits [Basis: Cumulative Increase]	Y	
Part 3a	Abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part 3b	Emission rate limits [Basis: BACT, Cumulative Increase]	Y	
Part 3c	Ammonia limit [Basis: [Regulation 2, Rule 5]	N	
Part 4	Continuous fuel monitor requirement [Basis: Cumulative Increase]	Y	
Part 5a	NOx, O2 CEM requirement [Basis: BACT, Cumulative Increase]	Y	
Part 5b	Annual CO source test requirement [Basis: BACT, Cumulative Increase]	Y	
Part 5c	CO monitoring using hand held monitor [Basis: BACT, Cumulative Increase]	Y	
Part 6	Fuel gas TRS concentration limit [Basis: BACT, Cumulative	Y	

Table IV – A.20 Source-specific Applicable Requirements \$461 – UNIT 250, B-701 HEATER

5401 – UNIT 250, B-701 HEATER				
		Federally	Future	
Applicable	Regulation Title or	Enforceable	Effective	
Requirement	Description of Requirement	(Y/N)	Date	
	Increase, SO2 bubble]			
Part 7a	TRS testing requirement [Basis: BACT, Cumulative Increase, SO2	Y		
	Bubble]			
Part 7b	TRS records requirement [Basis: BACT, Cumulative Increase, SO2	Y		
	Bubble]			
Part 7c	H2S testing requirement [Basis: 40 CFR 60.13(i)]	Y		
Part 10	Recordkeeping and Annual Emission Limits [Basis: 2-6-503,	Y		
	Cumulative Increase]			
BAAQMD				
Condition				
21099				
Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y		
Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y		
Part 3	Centrifugal compressor requirements [Basis: BACT]	Y		
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y		
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y		
Part 6	ULSD project component count report requirement [Basis: BACT,	Y		
	Cumulative Increase, Toxic Management Policy]			

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.21 Source-specific Applicable Requirements S45 – UNIT 246 B-801A/B, HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (7/9/08)		
Regulation 1			
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	

IV. Source Specific Applicable Requirements

	S45 – UNII 240 B-801A/B, HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/7/17,		
Regulation 2,	effective until 6/30/22;)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/15/21,		
Regulation 2,	effective 7/1/22)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 2,	Permits, General Requirements (5/21/18)		
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
2-1-501	Monitors	Y- note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	

IV. Source Specific Applicable Requirements

	545 – UNII 240 B-801A/B, HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentraton Correction	N	
6-1-410	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Manual of			
Procedures,			
Volume V			
40 CFR 60	General Provisions (2/12/98)		
Subpart A			
60.7	Notification and record keeping	Y	
60.7(a)	Various notifications	Y	
60.7(a)(1)	Notification of date of construction	Y	
60.7(a)(3)	Notification of startup date	Y	
60.7(a)(4)	Notification of any physical or operational change to an existing facility	Y	
60.7(a)(5)	Notification of date of beginning of CEM performance demonstration	Y	
60.7(b)	Records of any startup, shutdown, or malfunction, malfunction of control equipment; or periods when a CEM is inoperative	Y	
60.7(c)	Excess emissions and monitoring systems performance reports	Y	
60.7(d)	Summary reports	Y	
60.7(e)	Reduction of frequency of reports	Y	
60.7(f)	Records of monitoring	Y	
60.7(g)	Notification substantially similar to 40 CFR 60.7	Y	
60.13	Monitoring requirements	Y	
60.13(a)	Continuous monitoring systems subject to Appendix B, and Appendix F, (if used to demonstrate compliance with continuous emission	Y	
	limits), of Part 60		

IV. Source Specific Applicable Requirements

Applicable Requirement Description of Requirement (Y/N) Date 60.13(b) Continuous monitoring systems and devices operational prior to performance tests required by 60.8 (Continuous monitoring system zero and span calibration requirements (Pol.13(c)) Continuous monitoring system minimum frequency of operation (Pol.13(c)) Continuous monitoring system installation location requirement (Pol.13(c)) (Pol.13(c)) Continuous monitoring system installation location requirement (Pol.13(c)) (P		S45 – UNIT 246 B-801A/B, HEATER	F. 1	F-4
Requirement Description of Requirement (V/N) Date 60.13(b) Continuous monitoring systems and devices operational prior to performance tests required by 60.8 60.13(d)(1) Continuous monitoring system system and pan calibration requirements Y 60.13(e) Continuous monitoring system minimum frequency of operation Y 60.13(e)(2) Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices 60.13(f) Continuous monitoring system installation location requirement Y NSPS Standards of Performance for Petroleum Refineries (12/1/15) 40 CFR 60, Subpart J 60.100 Applicability 60.104 Standards for Sulfur Oxides: Compliance Schedule 60.104 Standards for Sulfur Oxides: Compliance Schedule 60.104 Standards for Sulfur Oxides: Compliance Schedule 60.104 (a)(1) fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions 60.105 Monitoring of Emissions and Operations 60.105 monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) 60.105(e)(3) Excess H2S emission definitions for 60.7(c) (ii) 60.106(a) Test methods and procedures 60.106(a) Method 11 shall be used to verify compliance with 60.104(a)(1) Y NSPS Appendix A to Part 60 – Test Methods 40 CFR 60, Appendix A to Part 60 – Test Methods Performance Specification 2 H2S continuous emission monitoring systems Y Performance Specifications and Test Procedures for SO2 and NOx Continuous Y Specification 2 H2S continuous emission monitoring systems Y Procedure 1 QA requirements for gas continuous emission monitoring systems	A 12 1.1 .	December 1974	Federally	Future
60.13(h) Continuous monitoring systems and devices operational prior to performance tests required by 60.8 60.13(d)(1) Continuous monitoring system zero and span calibration requirements Y 60.13(e) Continuous monitoring system minimum frequency of operation Y 60.13(e)(2) Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices 60.13(f) Continuous monitoring system installation location requirement Y NSPS Standards of Performance for Petroleum Refineries (12/1/15) 40 CFR 60, Subpart J 60.100 Applicability Y 60.104 Standards for Sulfur Oxides: Compliance Schedule Y 60.104 Gold Standards for Sulfur Oxides: Compliance Schedule Y 60.104 (a)(1) fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions 60.105 Monitoring of Emissions and Operations Y 60.105(a)(4) monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) 60.105(e)(3) Excess H2S emission definitions for 60.7(c) (ii) 60.106(e)(1) Method 11 shall be used to verify compliance with 60.104(a)(1) Y NSPS Appendix A to Part 60 – Test Methods 40 CFR 60 Appendix A 40 CFR 60 Appendix A 40 CFR 60 Performance Specifications and Test Procedures for SO2 and NOx Continuous Ferformance Specification 2 Emission Monitoring Systems in Stationary Sources H2S continuous emission monitoring systems Y 50 CFR 60 Appendix F 70 Cquality Assurance Procedures 71 A0 CFR 60 Appendix F 71 Procedure 1 QA requirements for gas continuous emission monitoring systems				
performance tests required by 60.8 60.13(d)(1) Continuous monitoring system zero and span calibration requirements Y 60.13(e) Continuous monitoring system minimum frequency of operation Y 60.13(e)(2) Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices 60.13(f) Continuous monitoring system installation location requirement Y NSPS 60.13(f) Continuous monitoring system installation location requirement Y NSPS 8 Standards of Performance for Petroleum Refineries (12/1/15) 8 40 CFR 60, 8 Subpart J 60.100 Applicability 9 4 60.104 Standards for Sulfur Oxides: Compliance Schedule Y 60.104 Standards for Sulfur Oxides: Compliance Schedule Y 60.104 (a)(1) fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) Y 60.105 (a)(3) (a) fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) Y 60.105 (a)(4) monitoring of Emissions and Operations 8 (a) monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) 60.105(e)(3) Excess H2S emission definitions for 60.7(c) (ii) 60.106(e)(1) Method 11 shall be used to verify compliance with 60.104(a)(1) Y NSPS 40 CFR 60, Appendix A 40 CFR 60, Appendix B Performance Specifications and Test Procedures for SO2 and NOx Continuous Y Specification 2 Emission Monitoring Systems in Stationary Sources Performance Specification 2 Emission monitoring systems Y 9 90 CPR 60 40 CFR 60	-	-		Date
60.13(d)(1) Continuous monitoring system zero and span calibration requirements Y 60.13(e) Continuous monitoring system minimum frequency of operation Y 60.13(e)(2) Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices 60.13(f) Continuous monitoring system installation location requirement Y NSPS Standards of Performance for Petroleum Refineries (12/1/15) 40 CFR 60, Subpart J 60.100 Applicability 60.104 Standards for Sulfur Oxides: Compliance Schedule Y 60.104 (a)(1) fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions 60.105 Monitoring of Emissions and Operations Y 60.105(a)(4) monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) 60.105(e)(3) Excess H2S emission definitions for 60.7(c) (ii) 60.106(e)(1) Method 11 shall be used to verify compliance with 60.104(a)(1) Y NSPS 40 CFR 60, Appendix A 40 CFR 60 Appendix A Performance Specifications and Test Procedures for SO2 and NOx Continuous Performance Specification 7 40 CFR 60 Appendix F Procedure 1 QA requirements for gas continuous emission monitoring systems Y	60.13(b)		Y	
60.13(e) Continuous monitoring system minimum frequency of operation Y 60.13(e)(2) Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices 60.13(f) Continuous monitoring system installation location requirement Y NSPS 60.13(f) Continuous monitoring system installation location requirement Y NSPS 40 CFR 60, Subpart J 60.100 Applicability 60.104 Standards for Sulfur Oxides: Compliance Schedule Y 60.104 Standards for Sulfur Oxides: Compliance Schedule Y 60.104 fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) Y except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions 60.105 Monitoring of Emissions and Operations Y 60.105(a)(4) monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) 60.105(e)(3) Excess H2S emission definitions for 60.7(c) (ii) 60.106(e)(1) Method 11 shall be used to verify compliance with 60.104(a)(1) Y NSPS Appendix A to Part 60 – Test Methods 40 CFR 60, Appendix A 40 CFR 60, Appendix B Performance Specifications and Test Procedures for SO2 and NOx Continuous Specification 7 40 CFR 60 Appendix F Procedure 1 QA requirements for gas continuous emission monitoring systems Y	(0.12(1)(1)		37	
60.13(e)(2) Continuous monitoring system minimum frequency of operation for non-opacity-measuring devices 60.13(f) Continuous monitoring system installation location requirement Y NSPS Standards of Performance for Petroleum Refineries (12/1/15) 40 CFR 60, Subpart J 60.100 Applicability Y 60.104 Standards for Sulfur Oxides: Compliance Schedule Y 60.104(a)(1) fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions 60.105 Monitoring of Emissions and Operations Y monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) Excess H2S emission definitions for 60.7(c) (ii) 60.105(e)(3) Excess H2S emission definitions for 60.7(c) (iii) 60.106(a) Test methods and procedures Y 60.106(e)(1) Method 11 shall be used to verify compliance with 60.104(a)(1) Y NSPS Appendix A 40 CFR 60 Appendix A 40 CFR 60 Appendix B Performance Specifications and Test Procedures for SO2 and NOx Continuous Emission Monitoring Systems in Stationary Sources Performance Specification 7 40 CFR 60 Appendix F Procedure 1 QA requirements for gas continuous emission monitoring systems Y		1		
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Procedure 1 QA requirements for gas continuous emission monitoring systems Y				
		OA requirements for gas continuous emission monitoring systems	Y	
	40 CFR 63,	Requirements for Control Technology Determinations for Major	Y	

IV. Source Specific Applicable Requirements

	S45 – UNIT 246 B-801A/B, HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Subpart B	Sources in Accordance With Clean Air Act Sections, Sections		
	112(g) and 112(j)		
63.50	Applicability	Y	
63.51	Definitions	Y	
63.52	Approval process for new and existing affected sources	Y	
63.53	Application content for case-by-case MACT determinations	Y	
63.54	Preconstruction review procedures for new affected sources	Y	
63.55	Maximum achievable control technology (MACT) determinations for	Y	
	affected sources subject to case-by-case determination of equivalent		
	emission limitations		
63.56	Requirements for case-by-case determination of equivalent emission	Y	
	limitations after promulgation of subsequent MACT standard		
NESHAP	National Emission Standards for Hazardous Air Pollutants for		
40 CFR 63,	Major Sources: Industrial, Commercial, and Institutional Boilers		
Subpart	and Process Heaters (11/20/2015)		
DDDDD			
63.7490(d)	Applicability	Y	
63.7495(b)	Compliance Dates	Y	
63.7495(d)	Notification Dates	Y	
63.7499(l)	Gas 1 Designed Units	Y	
63.7500(e)	Applicable Compliance Requirements	Y	
63.7500(f)	Startup and Shutdown Exclusions	Y	
63.7510(e)	Initial Compliance Demonstration	Y	
63.7515(d)	Annual Tune-up Compliance Dates	Y	
63.7530(e)	Notification of Compliance Status	Y	
63.7540a(10)	Annual Tune-Up Requirements	Y	
63.7540a(13)	Annual Tune-up Requirements if Unit is Not in Operation	Y	
63.7545(a)	Notification Requirements	Y	
63.7545(b)	Initial Notification Requirements	Y	
63.7545(e)	Notification of Compliance Status	Y	
63.7545(f)	Alternative Fuel Usage	Y	
63.7545(h)	Fuel Switch Notification	Y	
63.7550(a)	Reports to Submit	Y	
63.7550(b)	Report Submittal Dates	Y	
63.7550(c)	Compliance Report Requirements	Y	

IV. Source Specific Applicable Requirements

S45 – UNIT 246 B-801A/B, HEATER Federally				
Applicable	Regulation Title or	Enforceable	Future Effective	
Requirement	Description of Requirement	(Y/N)	Date	
63.7550(h)	Reporting Procedures	Y		
63.7555(a)	Required Records	Y		
63.7555(h)	Alternative Fuel Usage Records	Y		
63.7555(i)	Records of Startup and Shutdown	Y		
63.7555(j)	Records of Fuels Used During Startup and Shutdown	Y		
63.7560(a)	Recordkeeping Requirements	Y		
63.7560(b)	Duration of Recordkeeping	Y		
63.7560(c)	Location of Records	Y		
Table 3	Work Practice Standards	Y		
Table 9	Reporting Requirements	Y		
Table 10	Applicability of General Provisions (Subpart A)	Y		
BAAQMD				
Condition				
22962				
Part 1	Usage of refinery fuel gas or natural gas [BACT, Cumulative	Y		
	Increase]			
Part 2	Throughput Limits [Cumulative Increase]	Y		
Part 3	Abatement with SCR [BACT, Cumulative Increase]	Y		
Part 4a	NOx concentration limit [BACT, Cumulative Increase]	Y		
Part 4b	CO concentration limit when operating under 30 MMbtu/hr [BACT,	Y		
	Cumulative Increase, 40 CFR 63.52(a)]			
Part 4c	POC mass emission limit [Cumulative Increase]	Y		
Part 4d	PM10 mass emission limit [BACT, Cumulative Increase]	Y		
Part 4e	CO concentration limit when operating above 30 MMbtu/hr [BACT,	Y		
	Cumulative Increase, 40 CFR 63.52(a)]			
Part 5	Ammonia concentration limit [BAAQMD Regulation 2, Rule 5]	N		
Part 6a	Annual emission limit for NOX [BACT, Cumulative Increase]	Y		
Part 6b	Annual emission limit for CO [BACT, Cumulative Increase]	Y		
Part 6c	Annual emission limit for POC [BACT, Cumulative Increase]	Y		
Part 6d	Annual emission limit for PM10 [BACT, Cumulative Increase]	Y		
Part 6e	Annual emission limit for SO2 [BACT, Cumulative Increase]	Y		
Part 7	Fuel flow monitors and recorders [Cumulative Increase]	Y		
Part 8	NOx and O2 monitors [BACT, Cumulative Increase]	Y		
Part 9	CO source tests [BACT, Cumulative Increase]	Y		

IV. Source Specific Applicable Requirements

	545 – UNII 240 B-801A/B, HEATER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 9a	CO monitoring using hand held monitor [Basis: Cumulative Increase]	Y	Dute
Part 10	Sulfur content in fuel [BACT, Cumulative Increase]	Y	
Part 11	Monitoring for sulfur content in fuel [BACT, Cumulative Increase]	Y	
	-		
Part 12	Records of sulfur content [BACT, Cumulative Increase]	Y	
Part 14	Records of startups, shutdowns, standby mode and heater	Y	
	dryout/warmup periods [2-6-503]		
Part 15	Approval of the design and location of the source test ports [1-501]	Y	
Part 16	Source tests for NOx, CO, POC, PM10, ammonia, and sulfuric acid	Y	
	mist [BACT, Cumulative Increase, Regulation 2, Rule 5]		
Part 17	Source test and continuous emission monitoring requirements	Y	
	[BACT, Cumulative Increase]		
BAAQMD Condition 22970			
Part A.1	Applicability of Condition 22970 [Cumulative increase, PSD]	Y	
Part A.2a	Annual NOx limit for S45, Heater, S434, U246 High Pressure Reactor	Y	
	Train; and S1010, Sulfur Recovery Unit [Cumulative increase]		
Part A.2b	Annual SO2 limit for S45, Heater, S434, U246 High Pressure Reactor	Y	
	Train; and S1010, Sulfur Recovery Unit [Cumulative increase]		
Part A.2c	Annual PM10 limit for S45, Heater, S434, U246 High Pressure	Y	
	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative		
	increase, PSD]		
Part A.2d	Annual POC limit for S45, Heater, S434, U246 High Pressure Reactor	Y	
	Train; and S1010, Sulfur Recovery Unit [Cumulative increase]		
Part A.2e	Annual CO limit for S45, Heater, S434, U246 High Pressure Reactor	Y	
	Train; and S1010, Sulfur Recovery Unit [Cumulative increase]		
Part A.2f	Annual sulfuric acid mist limit for S45, Heater, S434, U246 High	Y	
	Pressure Reactor Train; and S1010, Sulfur Recovery Unit [PSD]		
Part A.2g	Annual ammonia limit for S45, Heater, S434, U246 High Pressure	N	
	Reactor Train; and S1010, Sulfur Recovery Unit [BAAQMD		
D . A . 2	Regulation 2, Rule 5] Daily sulfuric acid mist limit for S45, Heater, S434, U246 High	V	
Part A.3	Pressure Reactor Train; and S1010, Sulfur Recovery Unit at Facility	Y	
	A0016 and S2 at B7419. [PSD]		
Part A.4.a	Determination of compliance with Part A.2 [Cumulative increase,		
1 411 / 1. 7.4	PSD, BAAQMD Regulation 2, Rule 5]		
Part A.4.a.i	NOx data from NOx CEM	Y	
Part A.4.a.ii	CO data from annual source tests	Y	

IV. Source Specific Applicable Requirements

Table IV – A.21 Source-specific Applicable Requirements S45 – UNIT 246 B-801A/B, HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part A.4.a.iii	POC, PM10, and sulfuric acid mist rates from initial source tests	Y	
Part A.4.a.iv	Ammonia rate from initial source test	N	
Part A.4.v	Calculation of SO2 from fuel sulfur analysis	Y	
Part A.5	Additional offsets and PSD analysis, if necessary [Offsets, PSD]	Y	
Part A.6	Annual PM10 limit for S45, S434, and S1010 at Facility A0016, and S2 and S3 at Facility B7419 [1-104, 2-2-304]	Y	
Part B	Offset Report [2-1-403, 2-2-410]	Y	

Table IV – B
Source-specific Applicable Requirements
S400 WET WEATHER WASTEWATER SUMP
S401 DRY WEATHER WASTEWATER SUMP

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Wastewater Collection and Separation Systems (11/3/21)		
Regulation 8			
Rule 8			
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration	N	
	or Temperature		
8-8-116	Limited Exemption, Oil-water Separation Trenches	N	
8-8-308	Junction Box: Equipped with either a solid, gasketed, fixed cover	Y	
	totally enclosing the junction box or a solid manhole cover. May		
	include openings in covers/vent pipes if total open area does not		
	exceed 12.6 square inches and vent pipes are 3 ft long.		
8-8-312	Controlled Wastewater Collection System Components at Petroleum	N	
	Refineries		
8-8-402	Wastewater Inspection and Maintenance Plans at Petroleum	N	
	Refineries		
8-8-402.4	Wastewater Inspection and Maintenance Plans at Petroleum	N	
	Refineries; semi-annual inspections of controlled equipment		
8-8-402.5	Wastewater Inspection and Maintenance Plans at Petroleum	N	
	Refineries; keep records per 8-8-505		
8-8-505	Records for Wastewater Collection System Components at	N	
	Petroleum Refineries		

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

Table IV – B Source-specific Applicable Requirements S400 WET WEATHER WASTEWATER SUMP S401 DRY WEATHER WASTEWATER SUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-603	Inspection Procedures	N	2
SIP	Organic Compounds, Wastewater (Oil-Water) Separators		
Regulation 8,	(8/29/94)		
Rule 8			
8-8-603	Inspection Procedures	Y	
40 CFR 60,	Standards of Performance for VOC Emissions from Petroleum		
Subpart QQQ	Refinery Wastewater Systems (10/17/00)		
60.690(a)(1)	Applicability: Subpart QQQ applies to affected facilities	Y	
	constructed, modified, or reconstructed after May 4, 1987		
60.690(a)(2)	Wastewater sumps are considered part of an individual drain system which is a separate affected facility	Y	
60.692-1(a)	The provisions of Subpart QQQ apply except during periods of startup, shutdown, or malfunction	Y	
60.692-1(b)	Determine compliance through review of records and reports, performance test results, and inspections	Y	
60.692-2 (c)(1)	Wastewater sumps in the wastewater process sewer line shall not be open to the atmosphere and shall be covered or enclosed in a manner with no visible gaps or cracks in joints, seals.	Y	
60.692-2 (c)(2)	The portion of each unburied wastewater sump in the wastewater process sewer line shall be visually inspected semiannually for indication of cracks, gaps, or other problems that could result in VOC emissions	Y	
60.692-2 (c)(3)	Whenever cracks, gaps, or other problems are detected, repairs shall be made as soon as practicable, but not later than 15 calendar days after identification, except as provided in 60.692-6.	Y	
60.692-6(a)	Delays of repairs are allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown.	Y	
60.692-6(b)	Delayed repairs shall be completed before the end of the next refinery or process unit shutdown.	Y	
60.697(a)	Each owner or operator shall comply with the recordkeeping provisions of Subpart QQQ.	Y	
60.697(b)(3)	Record the location, date, and corrective action for inspections required by 60.692-2(c) when a problem is identified that could result in VOC emissions.	Y	

IV. Source Specific Applicable Requirements

Table IV – B Source-specific Applicable Requirements S400 WET WEATHER WASTEWATER SUMP S401 DRY WEATHER WASTEWATER SUMP

	S401 DRY WEATHER WASTEWATER SUM		Entuno
Annliaghla	Regulation Title or	Federally Enforceable	Future Effective
Applicable			
Requirement	Description of Requirement	(Y/N)	Date
60.697(e)(1)	If an emission point cannot be repaired or corrected without a	Y	
	process unit shutdown, record the expected date of a successful		
	repair.		
60.697(e)(2)	The reason for the delay as specified in 60.692-6 shall be recorded if	Y	
	an emission point or equipment problem is not repaired or corrected		
	in the specified amount of time.		
60.697(e)(3)	The signature of the owner or operator whose decision it was that	Y	
	repair could not be effected without refinery or process shutdown		
	shall be recorded.		
60.697(e)(4)	The date of successful repair or corrective action shall be recorded.	Y	
60.697(f)(1)	A copy of the design specifications for all equipment used to comply	Y	
	with the provisions of this subpart shall be kept for the life of the		
	source in a readily accessible location.		
60.697(f)(2)	Detailed information pertaining to the design specifications shall be	Y	
	kept.		
60.698(b)(1)	Submit semiannually to the Administrator a certification that all of	Y	
	the required inspections have been carried out in accordance with		
	Subpart QQQ standards.		
60.698(c)	Submit semiannually to the Administrator a report that summarizes	Y	
	all inspections when cracks, gaps, or other problems that could result		
	in VOC emissions are identified, including information about the		
	repairs or corrective actions taken		
BAAQMD			
Condition			
1440			
Part 4b	Monthly leak inspections in accordance with Reg. 8-8-603. After	Y	
	three consecutive monthly inspections with no leaks detected,		
	conduct quarterly inspections for the equipment. [Basis:		
	Cumulative Increase]		
Part 5	VOC monitoring records [Basis: Cumulative Increase]	Y	
BAAQMD	Throughput limits for sources S400, S401 [Basis: 2-1-234.3]	Y	
Condition	Imoughput lilling for sources 5400, 5401 [Duois. 2-1-254.5]	1	
20989,			
Part A			
1 all A			

Table IV - C Source-specific Applicable Requirements S324 API OIL/WASTEWATER SEPARATOR

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Wastewater (Oil-Water) Separator (11/3/21)	N	
Regulation 8,	, , , , , , , , , , , , , , , , , , ,		
Rule 8			
8-8-113	Exemption, secondary wastewater treatment processes and storm	Y	
	water sewer systems		
8-8-114	Exemption, bypassed oil-water separator or air flotation influent	Y	
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9	N	
0 0 302	liters per seconds (300 gal/min), must be equipped with one of the	1,	
	following:		
8-8-302.1	a solid, vapor-tight, full contact fixed cover which totally encloses	Y	
0 0 002.1	the separator tank, chamber, or basin liquid contents, with all cover	1	
	openings closed and sealed, except when the opening is being used		
	for inspection, maintenance, or wastewater sampling.		
8-8-306	Wastewater separator effluent channels rated capacity larger than or	Y	
0-0-300	equal to 25.2 liters per second (400 gal/min) must be equipped with	1	
	one of the following:		
8-8-306.1	a solid, gasketed, fixed cover total enclosing the oil-water separator	Y	
0-0-300.1	effluent channel liquid contents, with all cover openings closed,	1	
	except when being used for inspection, maintenance, or wastewater		
	sampling.		
8-8-501	Maintain records when wastewater bypasses the API Separator or	N	
0 0 001	the Air Floatation Unit	1,	
8-8-503	Maintain records for semiannual gap inspections, closure	Y	
0 0 000	requirements, and repairs for oil-water separator effluent channel	•	
	fixed roof seals, access doors, and other openings.		
SIP	Wastewater (Oil-Water) Separator (8/29/94)	Y	
Regulation 8,	(0.277 t)	-	
Rule 8			
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9	Y	
0 0 302	liters per seconds (300 gal/min), must be equipped with one of the		
	following:		
8-8-501	Maintain records when wastewater bypasses the API Separator or	Y	
	the Air Floatation Unit		
40 CFR 60,	Standards of Performance for VOC Emissions from Petroleum	N	

Table IV - C Source-specific Applicable Requirements S324 API OIL/WASTEWATER SEPARATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Subpart QQQ	Refinery Wastewater Systems (10/17/00)		
	(S324 Oil/Water Separator only)		
60.690(a)(1)	Applicability: Subpart QQQ applies to affected facilities	Y	
	constructed, modified, or reconstructed after May 4, 1987		
60.690(a)(3)	An oil-water separator is a separate affected facility	Y	
60.692-1(a)	The provisions of Subpart QQQ apply except during periods of	Y	
	startup, shutdown, or malfunction		
60.692-1(b)	Determine compliance through review of records and reports,	Y	
	performance test results, and inspections		
60.692-3 (a)	Each oil-water separator tank, slop oil tank, storage vessel, or other	Y	
	auxiliary equipment shall be equipped and operated with a fixed roof		
	which meets the following specifications:		
60.692-3 (a)(1)	The fixed roof shall completely cover the separator tank, slop oil	Y	
	tank, storage vessel or other auxiliary equipment.		
60.692-3 (a)(2)	The vapor space under a fixed roof shall not be purged unless the	Y	
	vapor is directed to a control device.		
60.692-3 (a)(3)	Roof access doors or openings shall be gasketed, latched, and kept	Y	
	closed during operation, except during inspection and maintenance.		
60.692-3 (a)(4)	Roof seals, access doors, and other openings shall be checked by	Y	
	visual inspection initially and semiannually thereafter.		
60.692-3 (a)(5)	When a broken seal or gasket or other problem is identified repairs	Y	
	shall be attempted as soon as practicable, but no later than 15 days		
	later.		
60.692-3 (e)	Slop oil from an oil-water separator and oily wastewater from slop	Y	
	oil handling equipment shall be collected, stored, transported,		
	recycled, reused, or disposed of in an enclosed system.		
60.692-6(a)	Delays of repairs are allowed if the repair is technically impossible	Y	
	without a complete or partial refinery or process unit shutdown.		
60.692-6(b)	Delayed repairs shall be completed before the end of the next	Y	
	refinery or process unit shutdown.		
60.697(a)	Each owner or operator shall comply with the recordkeeping	Y	
	provisions of Subpart QQQ.		
60.697(c)	Record the location, date, and corrective action for inspections	Y	
	required by 60.692-3(a) when a problem is identified that could		
	result in VOC emissions.		
60.697(e)(1)	If an emission point cannot be repaired or corrected without a	Y	

Table IV - C Source-specific Applicable Requirements S324 API OIL/WASTEWATER SEPARATOR

	5324 ATTOIL/ WASTEWATER SEPARATOR	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
requirement	process unit shutdown, record the expected date of a successful	(2/11)	2
	repair.		
60.697(e)(2)	The reason for the delay as specified in 60.692-6 shall be recorded if	Y	
	an emission point or equipment problem is not repaired or corrected		
	in the specified amount of time.		
60.697(e)(3)	The signature of the owner or operator whose decision it was that	Y	
	repair could not be effected without refinery or process shutdown		
	shall be recorded.		
60.697(e)(4)	The date of successful repair or corrective action shall be recorded.	Y	
60.697(f)(1)	A copy of the design specifications for all equipment used to comply	Y	
	with the provisions of this subpart shall be kept for the life of the		
	source in a readily accessible location.		
60.697(f)(2)	Detailed information pertaining to the design specifications shall be	Y	
	kept.		
60.698(b)(1)	Submit semiannually to the Administrator a certification that all of	Y	
	the required inspection have been carried out in accordance with		
	Subpart QQQ standards.		
60.698(c)	Submit semiannually to the Administrator a report that summarizes	Y	
	all inspections when cracks, gaps, or other problems that could result		
	in VOC emissions are identified, including information about the		
	repairs or corrective actions taken		
40 CFR 61	National Emission Standards for Benzene Waste Operations		
Subpart FF	(12/04/2003)		
40 CFR 61.347	Standards: Oil-water separators	Y	
40 CFR	Standards: Oil-water separators	Y	
61.347(a)			
40 CFR	Fixed-roof: no detectable emissions	Y	
61.347(a)(1)			
(i)(A)			
40 CFR	Fixed-roof: Openings	Y	
61.347(a)(1)			
(i)(B)			
40 CFR	Closed vent systems comply with 61.349	Y	
61.347(a)(1)			
(ii)			

Table IV - C Source-specific Applicable Requirements S324 API OIL/WASTEWATER SEPARATOR

	5524 ATT OIL/ WASTEWATER SETARATOR	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR	Quarterly visual inspection	Y	Date
61.347(b)	Quarterly visual hispection	1	
40 CFR	First efforts at repair	Y	
61.347(c)	The crisis wileyan	_	
BAAQMD			
Condition			
1440			
Part 1	No vapor space in separator [Basis: Cumulative Increase]	Y	
Part 4a	Monthly leak inspections in accordance with Reg. 8-8-603. After	Y	
	three consecutive monthly inspections with no leaks detected,		
	conduct quarterly inspections for doors, hatches, covers or other		
	openings [Basis: Cumulative Increase]		
Part 5	VOC monitoring records [Basis: Cumulative Increase]	Y	
Part 6	Maximum wastewater throughput [Basis: Cumulative Increase]	Y	
BAAQMD			Upon
Condition			Startup of
26069			A-53
Part 1	Abate S-324 with A-53 requirements [Basis: Cumulative Increase]	Y	Upon
			Startup of
			A-53
Part 2	Emission limit and VOC destruction Efficiency Requirements for A-	Y	Upon
	53 [Basis: Cumulative Increase]		Startup of
			A-53
Part 3	Minimum temperature requirements for A-53 [Basis: Cumulative	Y	Upon
	Increase]		Startup of
			A-53
Part 4	Allowable temperature excursions [Basis: Regulation 2-1-403]	Y	Upon
			Startup of
			A-53
Part 5	Records for allowable temperature excursions [Basis: Regulation 2-	Y	Upon
	1-403]		Startup of
			A-53
Part 6	Temperature monitoring device [Basis: Cumulative Increase]	Y	Upon
			Startup of
			A-53
Part 7	Non-compliance reporting [Basis: Cumulative Increase]	Y	Upon

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

Table IV - C Source-specific Applicable Requirements S324 API OIL/WASTEWATER SEPARATOR

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
			Startup of
			A-53
Part 8	Startup source test requirements [Basis: Cumulative Increase]	Y	Upon
			Startup of
			A-53
Part 9	Source test procedures [Basis: Cumulative Increase]	Y	Upon
			Startup of
			A-53
Part 10	Recordkeeping [Basis: Cumulative Increase; Recordkeeping]	Y	Upon
			Startup of
			A-53
BAAQMD	Throughput limit for source S324 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part A			

Table IV – D
Source-specific Applicable Requirements
S1007 DISSOLVED AIR FLOTATION UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	General Provisions and Definitions (5/4/11)	(1/N)	Date
Regulation 1	General Provisions and Definitions (5/4/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	Y ¹	

IV. Source Specific Applicable Requirements

	S1007 DISSOLVED AIR FLOTATION UNIT		E 4
A 12 1. 1 .	December 1974	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Wastewater Collection and Separation Systems (11/3/21)		
Regulation 8,	(=====================================		
Rule 8			
8-8-307	Air Flotation Unit: any air flotation unit and/or pre-air flotation	Y	
	unit flocculation sump, basin, chamber or tank with a maximum		
	allowable capacity greater than 400 gals/min unless is equipped		
	with one of the following:		
8-8-307.1	A solid, gasketed, fixed cover totally enclosing the air flotation and	Y	
	pre-air-flotation-unit flocculation tank, chamber, or basin	1	
	(compartment) liquid contents, with all cover openings closed,		
	except when the opening is being used for inspection, maintenance,		
	or wastewater sampling. The cover may include an atmospheric		
	vent or pressure/vacuum valve. Roof seals, access doors, and other		
	openings shall be checked by visual inspection initially and		
	semiannually thereafter to ensure that no cracks or gaps greater		
	than 0.32 cm (0.125 inch) occur in the roof or between the roof and		
	wall; and that the access doors and other openings are closed and		
	gasketed properly; (Standard applies when unit not controlled by		
	organic compound vapor recovery system)		
8-8-307.2	Organic compound vapor recovery system with a combined	N	
	collection and control efficiency of at least 70 percent by weight		
	(Standard applies when unit controlled by organic compound vapor		
0.0.504	recovery system)		
8-8-501	Maintain records when wastewater bypasses the API Separator or	N	
0 0 502	the Air Floatation Unit	7.7	
8-8-503	Inspection and Repair Records	Y	

IV. Source Specific Applicable Requirements

	S1007 DISSOLVED AIR FLOTATION UNIT	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
SIP	Wastewater (Oil-Water) Separators (8/29/94)	Y	
Regulation 8,			
Rule 8			
8-8-307	Air Flotation Unit: any air flotation unit and/or pre-air flotation unit	Y	
	flocculation sump, basin, chamber or tank with a maximum		
	allowable capacity greater than 400 gals/min unless is equipped		
	with one of the following:		
8-8-307.2	Organic compound vapor recovery system with a combined	Y	
	collection and control efficiency of at least 70 percent by weight		
	(Standard applies when unit controlled by organic compound vapor		
	recovery system)		
8-8-501	Maintain records when wastewater bypasses the API Separator or	Y	
	the Air Floatation Unit		
40 CFR 61,	General Provisions (11/7/85)		
Subpart A			
61.5	Prohibited Activities	Y	
61.10	Source reporting and waiver request	Y	
61.10(c)	Changes in information provided	Y	
61.10(d)	Format for reporting	Y	
61.10(e)	Calendar days	Y	
61.10(f)	Requirement for postmarks	Y	
61.10(g)	Alternate deadlines pursuant to agreement with Administrator	Y	
61.10(h)	Coordination of federal reports with state reports	Y	
61.10(i)	Common schedules	Y	
61.10(j)	Procedure for adjusting deadlines	Y	
61.12	Compliance with standards and maintenance requirements	Y	
61.13	Emission tests and waiver of emission tests	Y	
61.14	Monitoring requirements	Y	
61.15	Modification	Y	
61.16	Availability of information	Y	
61.17	State authority	Y	
61.19	Circumvention	Y	
40 CFR 61	National Emission Standards for Benzene Waste Operations		
Subpart FF	(12/04/2003) (Applies to DAF and Thermal Oxidizer (A49) or		
	Carbon Adsorption (A51), or Thermal Oxidizer (A53) when		
	A49, A51, or A53 are in operation)		

IV. Source Specific Applicable Requirements

	S1007 DISSOLVED AIR FLOTATION UNIT	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
-		,	
61.340(a)	Applicability: Chemical Manufacturing, coke by-product recovery, petroleum refineries	Y	
61.343	Standard: Tanks	Y	
61.343(a)	Control of tanks	Y	
61.343(a)(1)	Fixed-roof and closed-vent system that routes all organic vapors to a control device	Y	
61.343(a)(1) (i)(A)	No detectable emissions over 500 ppmv	Y	
61.343(a)(1) (i)(B)	Closed and sealed openings	Y	
61.343(a)(1) (i)(C)	Operation below atmospheric pressure	Y	
61.343(a)(1) (ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
61.343(c)	Quarterly inspections	Y	
61.343(d)	Repair as soon as practicable but no later than 45 days after identification	Y	
61.355	Test methods, procedures and compliance provisions	Y	
61.355(h)	Leak inspection procedures	Y	
61.355(k)	Determination of benzene quantity	Y	
61.355(k)(2)	Determination of benzene quantity from controlled sources	Y	
61.355(k)(5)	Procedure for calculation of benzene quantity	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	Recordkeeping and retention requirements	Y	
61.356(b)	Identification of waste streams	Y	
61.356(b)(4)	Measurements, calculations, and documentation used to determine that total benzene quantity is less than 6.0 Mg/yr	Y	
61.356(d)	Engineering design documentation for all control equipment	Y	
61.356(g)	Recordkeeping Requirements: Visual inspection per 61.343 through 61.347	Y	
61.356(h)	Recordkeeping Requirements: Leak Monitoring	Y	
61.356(m)	Monitoring of pressure in head space	Y	
61.357	Reporting requirements	Y	
61.357(d)(7)	Quarterly reports	Y	
61.357(d)(7)	Periods of operation equal to or greater than atmospheric pressure	Y	

IV. Source Specific Applicable Requirements

	S100/ DISSOLVED AIR FLOTATION UNI		_
		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
(v)			
BAAQMD			
Condition			
1440			
Part 4b	Monthly leak inspections in accordance with Reg. 8-8-603. After	Y	
	three consecutive monthly inspections with no leaks detected,		
	conduct quarterly inspections for the equipment. [Basis:		
	Cumulative Increase]		
Part 5	VOC monitoring records [Basis: Cumulative Increase]	Y	
Part 6	Maximum wastewater throughput [Basis: Cumulative Increase]	Y	
Part 7	Control of DAF to provide POC offsets [Offsets, CEQA]	Y	
Part 7a	Source test requirement; contingency if 44 tons of POC reduction	Y	
	not achieved [Offsets, CEQA]		
Part 7b.i	Source test of A49, DAF Thermal oxidizer [Offsets, CEQA]	Y	
Part 7b.ii	Temperature excursions [Offsets, CEQA]	Y	
Part 7b.iii	Temperature measuring device [Offsets, CEQA]	Y	
Part 7b.v	Source tests for SO2 [Offsets, CEQA]	Y	
Part 7b.vi	Contingency if SO2 emissions are greater than 1.2 tons per year	Y	
	[Offsets, CEQA]		
Part 7c	Requirements for A51, DAF Carbon Bed [Offsets]	Y	
Part 9	Requirement to seal DAF outlet channel and downstream sumps.	Y	
	Any vents on the channel shall be abated. [Offsets, CEQA]		
Part 10	Requirement for use of thermal oxidizer at least 90%. [CEQA]	N	
Part 11	Alternate operating scenario: contingency for non-operation of	Y	
	control devices; must record beginning and end in		
	contemporaneous log		
BAAQMD			
Condition			
22970			
Part B	Offset Report [2-1-403, 2-2-410]	Y	
BAAQMD	Throughput limit for S1007 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part A			

IV. Source Specific Applicable Requirements

	A49 DAF THERMAL OXIDIZER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/4/11)	(=1-1)	
Regulation 1	, ,		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of Inoperation	Y	
1-523.2	Limits on periods of Inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1	, ,		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	\mathbf{Y}^1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.2	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-311.1	Total Suspended Particulate (TSP) Weight Limit	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6 6-301	Ringelmann #1 Limitation		
6-305	Visible Particles	Y	
6-310.3		Y	
	Particulate Weight Limitation	Y	
6-311	General Operations Appearance of Emissions	Y	
BAAQMD	Wastewater Collection and Separation Systems (11/3/21)	Y	
Regulation 8,	masterater Concetion and Separation Systems (11/3/21)		
Regulation 8,			
8-8-307	Air Flotation Unit: any air flotation unit and/or pre-air flotation unit	Y	
	flocculation sump, basin, chamber or tank with a maximum	_	

IV. Source Specific Applicable Requirements

	A49 DAF THERMAL OXIDIZER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	allowable capacity greater than 400 gals/min unless is equipped with		
	one of the following:		
	Organic compound vapor recovery system with a combined	N	
8-8-307.2	collection and control efficiency of at least 70 percent by weight		
	(Standard applies when unit controlled by organic compound vapor		
CID	recovery system)	\$7	
SIP	Wastewater (Oil-Water) Separators (8/2/94)	Y	
Regulation 8,			
Rule 8	A' El (a' TI 'a	37	
8-8-307	Air Flotation Unit:	Y	
8-8-307.2	Organic compound vapor recovery system with a combined	Y	
	collection and control efficiency of at least 70 percent by weight		
	(Standard applies when unit controlled by organic compound vapor		
40 CED (1	recovery system)		
40 CFR 61, Subpart A	General Provisions (11/7/85)		
61.5	Prohibited Activities	Y	
61.10	Source reporting and waiver request	Y	
61.10(c)	Changes in information provided	Y	
61.10(d)	Format for reporting	Y	
61.10(a)	Calendar days	Y	
61.10(c)	Requirement for postmarks	Y	
61.10(r)	Alternate deadlines pursuant to agreement with Administrator	Y	
61.10(g)	Coordination of federal reports with state reports	Y	
61.10(i)	Common schedules	Y	
61.10(j)	Procedure for adjusting deadlines	Y	
61.12	Compliance with standards and maintenance requirements	Y	
61.13	Emission tests and waiver of emission tests	Y	
61.14	Monitoring requirements	Y	
61.15	Modification Modification	Y	
61.16	Availability of informations	Y	
61.17	State authority	Y	
61.19	Circumvention	Y	
40 CFR 61	National Emission Standards for Benzene Waste Operations	<u> </u>	
Subpart FF	(12/04/2003) (Applies to closed vent system and control devices		
	from DAF to Thermal Oxidizer (A49) Carbon Adsorption (A51),		

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Kequirement	or Thermal Oxidizer (A53) when A49, A51, or A53 are in operation)	(1/14)	Date
61.340(a)	Applicability: Chemical Manufacturing, coke by-product recovery, petroleum refineries	Y	
61.349	Standards: Closed-Vent Systems and Control Devices	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
61.349(a)(1) (i)	Standards: Closed-Vent System design and requirements: no detectable emissions above 500 ppm	Y	
61.349(a)(1) (ii)(B)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; no requirement for flow indicator for carsealed valves on bypass lines in closed-vent systems	Y	
61.349(a)(1) (iii)	Standards: Closed-vent Systems and Control Devices; Closed vent system requirements; Gauging/sampling devices are gas-tight	Y	
61.349(a)(1) (iv)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Safety valve provisions	Y	
61.349(a)(2)	Standards: Closed-Vent Systems and Control Devices; Control device requirements	Y	
61.349(a)(2) (i)	Standards: Closed-Vent Systems and Control Devices; Enclosed combustion device requirements	Y	
61.349(a)(2) (i)(A)	Controlled by enclosed combustion device with 95% or greater control efficiency	Y	
61.349(b)	Operation of control device at all times	Y	
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
61.349(c)(2)	Performance tests	Y	
61.349(e)	Administrator may request performance tests	Y	
61.349(f)	Visually inspect for leaks quarterly	Y	
61.349(g)	Repair leaks; 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Monitor per 61.354(c)	Y	
61.354	Monitoring of Operations		
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices - Continuously monitor control device operation	Y	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
61.354(c)(1)	Monitor thermal vapor incinerator temperature (for A49)	Y	
61.354(d)	Monitor on a daily basis or at intervals no greater than 20% of the	Y	
	design carbon replacement interval, whichever is greater. Replace		
	carbon immediately when carbon breakthrough is indicated (for A51)		
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations; Closed vent system with bypass line;	Y	
	Visually inspect carseal/valve positions monthly		
61.354(g)	Monitoring of Operations; Pressure Monitor	Y	
61.355	Test methods, procedures and compliance provisions	Y	
61.355(h)	Leak inspection procedures	Y	
61.355(i)	Performance test procedures	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	Recordkeeping and retention requirements	Y	
61.356(d)	Engineering design documentation for all control equipment	Y	
61.356(f)	Recordkeeping Requirements: Closed vent system and control	Y	
	device per 61.349 – retain for life of device		
61.356(f)(1)	Recordkeeping Requirements; certification of performance level	Y	
61.356(f)(3)	Requirements for performance tests	Y	
61.356(g)	Recordkeeping Requirements: Visual inspection per 61.343 through 61.347	Y	
61.356(h)	Recordkeeping Requirements: Leak Monitoring		
61.356(j)	Recordkeeping Requirements: Control device operation	Y	
61.356(j)(1)	Recordkeeping Requirements: dates of startup and shutdown	Y	
61.356(j)(2)	Recordkeeping Requirements: description of parameters	Y	
61.356(j)(3)	Recorrdkeeping Requirements: periods when closed vent system and	Y	
	control device are not operating		
61.356(j)(3)	Recordkeeping Requirements: Bypass Line Controls	Y	
(i)			
61.356(j)(4)	Recordkeeping Requirements: Thermal vapor incinerator records of	Y	
	temperature (for DAF TO, A49)		
61.356(m)	Monitoring of pressure in head space	Y	
61.357	Reporting requirements	Y	
61.357(d)(7)	Quarterly reports		
61.357(d)(7)	Reports of periods of operation below design combustion zone	Y	
(iv)(A)	temperature		

IV. Source Specific Applicable Requirements

Table IV – Da Source-specific Applicable Requirements A49 DAF THERMAL OXIDIZER

	A4) DAI THERMAL CAIDIZER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
61.357(d)(7)	Periods of operation equal to or greater than atmospheric pressure	Y	
(v)			
BAAQMD			
Condition			
1440			
Part 7	Control of DAF to provide POC offsets [Offsets, CEQA]	Y	
Part 7a	Source test requirement; contingency if 44 tons of POC reduction not achieved [Offsets, CEQA]	Y	
Part 7a.i	Source test timing requirements [Offsets, CEQA]	Y	
Part 7b.i	Source test of A49, DAF Thermal oxidizer [Offsets, CEQA]	Y	
Part 7b.ii	Temperature excursions [Offsets, CEQA]	Y	
Part 7b.iii	Temperature measuring device [Offsets, CEQA]	Y	
Part 7b.v	Source tests for SO2 [Offsets, CEQA]	Y	
Part 7b.vi	Contingency if SO2 emissions are greater than 1.2 tons per year [Offsets, CEQA]	Y	
Part 9	Requirement to seal DAF outlet channel and downstream sumps. Any vents on the channel shall be abated. [Offsets, CEQA]	Y	
Part 10	Requirement for use of thermal oxidizer at least 90% of the time on a consecutive 12-month basis. [CEQA]	N	
Part 11	Alternate operating scenario: contingency for non-operation of control devices; must record beginning and end in contemporaneous log. [40 CFR 61, Subpart FF, 40 CFR 70.6(a)(9), BAAQMD Regulation 2-6-409.7]	Y	
BAAQMD			
Condition 22970			
Part B	Offset Report [2-1-403, 2-2-410]	Y	

Table IV – Db Source-specific Applicable Requirements A51 DAF CARBON BED

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/4/11)		

IV. Source Specific Applicable Requirements

	A51 DAF CARBON BED	F 1 11	F 4
	D 1 (1 70)	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y-note 1	
1-523.3	Reports of Violations	Y^1	
BAAQMD	Wastewater Collection and Separation Systems (11/3/21)		
Regulation 8,			
Rule 8			
8-8-307	Air Flotation Unit: any air flotation unit and/or pre-air flotation unit	Y	
	flocculation sump, basin, chamber or tank with a maximum		
	allowable capacity greater than 400 gals/min unless is equipped with one of the following:		
	Organic compound vapor recovery system with a combined	N	
8-8-307.2	collection and control efficiency of at least 70 percent by weight	1N	
0 0 301.2	(Standard applies when unit controlled by organic compound vapor		
	recovery system)		
SIP	Wastewater (Oil-Water) Separators (8/2/94)	Y	
Regulation 8,	Comments (or control of the control	•	
regulation 0,			<u> </u>

IV. Source Specific Applicable Requirements

Regulation Title or Description of Requirement (V/N) Date Rule 8 Sa-307		ASI DAF CARBON BED	Federally	Future
Requirement Description of Requirement (Y/N) Date Rule 8 -8-8-307 Air Flotation Unit: -8-8-307.2 Organic compound vapor recovery system with a combined collection and control efficiency of at least 70 percent by weight (Standard applies when unit controlled by organic compound vapor recovery system) General Provisions (117/85)	Annlicable	Regulation Title or	-	
Rule 8 1-8-307 Air Flotation Unit: 1-8-307.2 Organic compound vapor recovery system with a combined collection and control efficiency of at least 70 percent by weight (Standard applies when unit controlled by organic compound vapor recovery system) 10 CFR 61, General Provisions (117/85) 10 CFR 61, General Provisions (117/85) 10 Source reporting and waiver request 11.10(c) Changes in information provided 11.10(d) Format for reporting 12 Y 13.110(d) Format for reporting 13.110(e) Calendar days 13.110(f) Requirement for postmarks 13.110(g) Alternate deadlines pursuant to agreement with Administrator 13.110(g) Alternate deadlines pursuant to agreement with Administrator 13.110(g) Common schedules 13.110(g) Procedure for adjusting deadlines 13.111 Compliance with standards and maintenance requirements 13.112 Compliance with standards and maintenance requirements 13.113 Emission tests and waiver of emission tests 13.114 Monitoring requirements 13.115 Modification 14 Availability of informations 15 Availability of informations 16 CFR 61 (12/04/2003) (Applies to closed vent system and control devices from DAF to Thermal Oxidizer (A53) when A49, A51, or A53 are in operation 16.1340(a) Applicability: Chemical Manufacturing, coke by-product recovery, petroleum refineries 16.1349 Standards: Closed-Vent Systems and Control Devices 17 Y 18.1349(a) Standards: Closed-Vent Systems and Control Devices; Y				
Air Flotation Unit: -8-8-307. Air Flotation Unit: -8-8-307.2 Organic compound vapor recovery system with a combined collection and control efficiency of at least 70 percent by weight (Standard applies when unit controlled by organic compound vapor recovery system)	-	Description of Requirement	(1/11)	Date
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Monitoring requirements Modification Y Modification Y	61.12			
Modification Y State Availability of informations Y State authority Y Circumvention Y Motional Emission Standards for Benzene Waste Operations (12/04/2003) (Applies to closed vent system and control devices from DAF to Thermal Oxidizer (A49), Carbon Adsorption (A51), or Thermal Oxidizer (A53) when A49, A51, or A53 are in operation) Applicability: Chemical Manufacturing, coke by-product recovery, petroleum refineries Standards: Closed-Vent Systems and Control Devices Y Standards: Closed-Vent Systems and Control Devices; Y	61.13	Emission tests and waiver of emission tests		
Availability of informations State authority Y State authority State authority Y State authority State	61.14			
State authority Circumvention Y State Authority Y Authority Standards Closed Vent Systems Authority Y State Authority Y Y State Authority Y State Authori	61.15		Y	
Circumvention National Emission Standards for Benzene Waste Operations (12/04/2003) (Applies to closed vent system and control devices from DAF to Thermal Oxidizer (A49), Carbon Adsorption (A51), or Thermal Oxidizer (A53) when A49, A51, or A53 are in operation) Applicability: Chemical Manufacturing, coke by-product recovery, petroleum refineries Standards: Closed-Vent Systems and Control Devices Y Standards: Closed-Vent Systems and Control Devices; Y	61.16	Availability of informations	Y	
National Emission Standards for Benzene Waste Operations (12/04/2003) (Applies to closed vent system and control devices from DAF to Thermal Oxidizer (A49), Carbon Adsorption (A51), or Thermal Oxidizer (A53) when A49, A51, or A53 are in operation) S1.340(a) Applicability: Chemical Manufacturing, coke by-product recovery, petroleum refineries S1.349 Standards: Closed-Vent Systems and Control Devices Y Standards: Closed-Vent Systems and Control Devices; Y	61.17	State authority	Y	
Subpart FF (12/04/2003) (Applies to closed vent system and control devices from DAF to Thermal Oxidizer (A49), Carbon Adsorption (A51), or Thermal Oxidizer (A53) when A49, A51, or A53 are in operation) (51.340(a) Applicability: Chemical Manufacturing, coke by-product recovery, petroleum refineries (51.349 Standards: Closed-Vent Systems and Control Devices Y (51.349(a) Standards: Closed-Vent Systems and Control Devices; Y	61.19	Circumvention	Y	
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Standards: Closed-Vent Systems and Control Devices; Y		petroleum refineries		
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	61.349(a)	-	Y	
51.349(a)(1) Standards: Closed-Vent Systems and Control Devices; Closed vent	61.349(a)(1)		Y	

IV. Source Specific Applicable Requirements

	ASI DAF CARBON DED	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Requirement	system requirements	(1/11)	Date
61.349(a)(1)	Standards: Closed-Vent System design and requirements: no	Y	
(i)	detectable emissions above 500 ppm	1	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent	Y	
(ii)(B)	system requirements; no requirement for flow indicator for car-	1	
(II)(D)	sealed valves on bypass lines in closed-vent systems		
61 240(a)(1)	Standards: Closed-vent Systems and Control Devices; Closed vent	Y	
61.349(a)(1)	<u> </u>	ı	
(iii)	system requirements; Gauging/sampling devices are gas-tight	V	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent	Y	
(iv)	system requirements; Safety valve provisions	37	
61.349(a)(2)	Standards: Closed-Vent Systems and Control Devices; Control	Y	
	device requirements		
61.349(a)(2)	Vapor recovery system (e.g.carbon adsorption system) recovers or	Y	
(ii)	controls organic emissions with an efficiency of 95% or greater by		
	weight VOC or 98% or greater for Benzene (applies only to A51,		
	DAF Carbon Adsorption)		
61.349(b)	Operation of control device at all times	Y	
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control	Y	
	Device Performance Demonstration		
61.349(c)(2)	Performance tests	Y	
61.349(e)	Administrator may request performance tests	Y	
61.349(f)	Visually inspect for leaks quarterly	Y	
61.349(g)	Repair leaks; 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Monitor per 61.354(c)	Y	
61.354	Monitoring of Operations		
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices	Y	
	- Continuously monitor control device operation		
61.354(d)	Monitor on a daily basis or at intervals no greater than 20% of the	Y	
	design carbon replacement interval, whichever is greater. Replace		
	carbon immediately when carbon breakthrough is indicated (for		
	A51)		
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations; Closed vent system with bypass line;	Y	
	Visually inspect carseal/valve positions monthly		
61.354(g)	Monitoring of Operations; Pressure Monitor	Y	
61.355	Test methods, procedures and compliance provisions	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement Pecurition of Requirement Pecurition of Requirement Peculiary Enforceable (Y/N) Effective Date 61.355(h) Leak inspection procedures Y 4 61.355(i) Performance test procedures Y 4 61.356(a) Recordkeeping requirements Y 4 61.356(b) Engineering design documentation for all control equipment Y 4 61.356(b) Recordkeeping Requirements: Closed vent system and control device per 61.349 – retain for life of device Y 4 61.356(f)(1) Recordkeeping Requirements; certification of performance level Y 4 61.356(f)(3) Requirements for performance tests Y 4 61.356(f)(3) Recordkeeping Requirements: Visual inspection per 61.343 through 61.347 Y 4 61.356(f) Recordkeeping Requirements: Cabk Monitoring 6 61.356(f) Recordkeeping Requirements: Cabk Monitoring 7 61.356(f) 61.356(f)(1) Recordkeeping Requirements: dates of startup and shutdown Y 61.356(f) Y 61.356(f) 61.356(f)(2) Recordkeeping Requirements: description of parameters Y 61.356		A51 DAF CARBON BED	F 1 11	P 4
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61.357 Reporting requirements 61.357(d)(7) Quarterly reports 61.357(d)(7) Reports of periods of operation at concentrations 20% higher than (iv)(D) design 61.357(d)(7) Reports of instances where carbon is not replaced at pre-determined (iv)(I) intervals 61.357(d)(7) Periods of operation equal to or greater than atmospheric pressure Y BAAQMD Condition 1440		Carbon Adsorption, A51)		
61.357(d)(7) Quarterly reports 61.357(d)(7) Reports of periods of operation at concentrations 20% higher than Y (iv)(D) design 61.357(d)(7) Reports of instances where carbon is not replaced at pre-determined Y (iv)(I) intervals 61.357(d)(7) Periods of operation equal to or greater than atmospheric pressure Y (v) BAAQMD Condition 1440	61.356(m)	Monitoring of pressure in head space	Y	
61.357(d)(7) Reports of periods of operation at concentrations 20% higher than (iv)(D) design 61.357(d)(7) Reports of instances where carbon is not replaced at pre-determined (iv)(I) intervals 61.357(d)(7) Periods of operation equal to or greater than atmospheric pressure (v) BAAQMD Condition 1440	61.357	Reporting requirements	Y	
(iv)(D) design 61.357(d)(7) Reports of instances where carbon is not replaced at pre-determined (iv)(I) intervals 61.357(d)(7) Periods of operation equal to or greater than atmospheric pressure Y (v) BAAQMD Condition 1440	61.357(d)(7)	Quarterly reports		
61.357(d)(7) Reports of instances where carbon is not replaced at pre-determined (iv)(I) intervals 61.357(d)(7) Periods of operation equal to or greater than atmospheric pressure (v) BAAQMD Condition 1440	61.357(d)(7)	Reports of periods of operation at concentrations 20% higher than	Y	
(iv)(I) intervals 61.357(d)(7) Periods of operation equal to or greater than atmospheric pressure (v) BAAQMD Condition 1440	(iv)(D)	design		
(iv)(I) intervals 61.357(d)(7) Periods of operation equal to or greater than atmospheric pressure (v) BAAQMD Condition 1440	61.357(d)(7)	Reports of instances where carbon is not replaced at pre-determined	Y	
(v) BAAQMD Condition 1440	(iv)(I)			
(v) BAAQMD Condition 1440	61.357(d)(7)	Periods of operation equal to or greater than atmospheric pressure	Y	
Condition 1440				
Condition 1440	BAAQMD			
	-			
Part 7 Control of DAE to provide POC offsets [Offsets CEOA] V	1440			
ratt / Control of DAT to provide t OC offsets, CEQA]	Part 7	Control of DAF to provide POC offsets [Offsets, CEQA]	Y	
Part 7a Source test requirement; contingency if 44 tons of POC reduction Y		-		

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

	1131 DITT CARDON BED		
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
_	not achieved [Offsets, CEQA]		
Part 7a.ii	Source test timing requirements [Offsets, CEQA]	Y	
Part 7c	Requirements for A51, DAF Carbon Bed [Offsets]	Y	
Part 9	Requirement to seal DAF outlet channel and downstream sumps. Any vents on the channel shall be abated. [Offsets, CEQA]	Y	
Part 11	Alternate operating scenario: contingency for non-operation of control devices; must record beginning and end in contemporaneous log	Y	
BAAQMD			
Condition			
22970			
Part B	Offset Report [2-1-403, 2-2-410]	Y	

Table IV - E
Source-specific Applicable Requirements – Wastewater
PONDS/BIOTREATERS/SURFACE IMPOUNDMENTS
S381 AERATION TANK F-201; S382 AERATION TANK F-202;
S383 CLARIFIER F-203; S384 CLARIFIER F-204

Applicable	Pagulation Title on	Federally Enforceable	Future Effective
	Regulation Title or		
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Condition			
1440			
Part 4c	Monthly leak inspections in accordance with Reg. 8-8-603. After	Y	
	three consecutive monthly inspections with no leaks detected,		
	conduct quarterly inspections for the equipment. [Basis:		
	Cumulative Increase]		
Part 5	VOC monitoring records [Basis: Cumulative Increase]	Y	
BAAQMD	Throughput limits for sources S381, S382, S383, S384 [Basis: 2-1-	Y	
Condition	234.3]		
20989, Part			
A			

Facility Name: Phillips 66 - San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV - F Source-specific Applicable Requirements – Wastewater PONDS/BIOTREATERS/SURFACE IMPOUNDMENTS S1008 PRIMARY STORMWATER BASIN S1009 MAIN STORMWATER BASIN

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Wastewater Collection and Separation Systems (11/3/21)	N	
Regulation 8,			
Rule 8			
8-8-114	Exemption, bypassed oil-water separator or air flotation influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records:	N	
	record requirements for water which bypasses normal treatment and		
	is diverted to S1008, S1009		
SIP	Wastewater (Oil-Water) Separators (8/29/94)	Y	
Regulation 8,			
Rule 8			
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records:	Y	
	record requirements for water which bypasses normal treatment and		
	is diverted to S1008, S1009		
BAAQMD			
Condition			
1440			
Part 2	Minimize diversion of wastewater to S1008, S1009 [Basis:	Y	
	Cumulative Increase]		
Part 3	Records of wastewater diversions to S1008, S1009 [Basis:	Y	
	Cumulative Increase]		

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV - G

Source-specific Applicable Requirements – Miscellaneous Wastewater Sources Subject to Condition 1440

S385 – WASTEWATER EFFLUENT MEDIA FILTER F271-F278 S386 – PAC REGENERATION SLUDGE THICKENER F-211 S387 – WET AIR REGENERATION SYSTEM P-202 S390 – THICKENED SLUDGE STORAGE F-106

S392 - REGENERATED PAC SLURRY STORAGE F-266

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD			
Condition			
1440			
Part 4c	Monthly leak inspections in accordance with Reg. 8-8-603. After three consecutive monthly inspections with no leaks detected, conduct quarterly inspections for the equipment. [Basis: Cumulative Increase]	Y	
Part 5	VOC monitoring records [Basis: Cumulative Increase]	Y	
BAAQMD Condition 20989, Part A	Throughput limits for sources S385, S386, S387, S390, S392 [Basis: 2-1-234.3]	Y	

Table IV - H Source-specific Applicable Requirements WASTEWATER JUNCTION BOXES

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Wastewater Collection and Separation Systems (11/3/21)	N	
Regulation 8,			
Rule 8			
8-8-308	Junction Box: equipped with either a solid, gasketed, fixed cover	Y	
	totally enclosing the junction box or a solid manhole cover. May		
	include openings in the covers and vent pipes if the total open area		
	of the junction box does not exceed 12.6 square inches and all vent		
	pipes are at least 3 feet in length.		
40 CFR 60,	Standards of Performance for VOC Emissions from Petroleum	N	
Subpart	Refinery Wastewater Systems (10/17/00)		

Table IV - H
Source-specific Applicable Requirements
WASTEWATER JUNCTION BOXES

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
QQQ	[APPLIES ONLY TO J-BOXES DOWNSTREAM OF S400, S401 SUMPS]	. ,	
60.690(a)(1)	Applicability: Subpart QQQ applies to affected facilities constructed, modified, or reconstructed after May 4, 1987	Y	
60.690(a)(2)	Wastewater junction boxes are considered part of an individual drain system which is a separate affected facility	Y	
60.692-1(a)	The provisions of Subpart QQQ apply except during periods of startup, shutdown, or malfunction	Y	
60.692-1(b)	Determine compliance through review of records and reports, performance test results, and inspections	Y	
60.692-2 (b)(1)	Junction boxes shall be equipped with a cover and may have an open vent pipe which is at least 3 feet in length and does not exceed 4 inches in diameter.	Y	
60.692-2 (b)(2)	Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance.	Y	
60.692-2 (b)(3)	Junction box shall be visually inspected semiannually to ensure that the cover is in place and to ensure that the cover has a tight seal around the edge.	Y	
60.692-2 (b)(4)	If a broken seal or gap is identified, first effort at repair shall be made as soon as practicable, but not later than 15 calendar days after the broken seal or gap is identified, except as provided in 60.692-6.	Y	
60.692-2 (e)	Refinery wastewater routed through new process drains and a new first common downstream junction box, shall not be routed through a downstream catch basin.	Y	
60.692-6(a)	Delays of repairs are allowed if the repair is technically impossible without a complete or partial refinery or process unit shutdown.	Y	
60.692-6(b)	Delayed repairs shall be completed before the end of the next refinery or process unit shutdown.	Y	
60.697(a)	Each owner or operator shall comply with the recordkeeping provisions of Subpart QQQ.	Y	
60.697(b)(2)	Record the location, date, and corrective action for inspections required by 60.692-2(b) when a broken seal, gap or other problem is identified that could result in VOC emissions.	Y	
60.697(e)(1)	If an emission point cannot be repaired or corrected without a process unit shutdown, record the expected date of a successful	Y	

Facility Name: Phillips 66 - San Francisco Refinery

Permit for Facility #: A0016

Table IV - H Source-specific Applicable Requirements WASTEWATER JUNCTION BOXES

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	repair.		
60.697(e)(2)	The reason for the delay as specified in 60.692-6 shall be recorded if an emission point or equipment problem is not repaired or corrected in the specified amount of time.	Y	
60.697(e)(3)	The signature of the owner or operator whose decision it was that repair could not be effected without refinery or process shutdown shall be recorded.	Y	
60.697(e)(4)	The date of successful repair or corrective action shall be recorded.	Y	
60.697(f)(1)	A copy of the design specifications for all equipment used to comply with the provisions of this subpart shall be kept for the life of the source in a readily accessible location.	Y	
60.697(f)(2)	Detailed information pertaining to the design specifications shall be kept.	Y	
60.698(b)(1)	Submit semiannually to the Administrator a certification that all of the required inspections have been carried out in accordance with Subpart QQQ standards.	Y	
60.698(c)	Submit semiannually to the Administrator a report that summarizes all inspections when cracks, gaps, or other problems that could result in VOC emissions are identified, including information about the repairs or corrective actions taken	Y	

Table IV – I Source-specific Applicable Requirements WASTEWATER PROCESS SEWERS/SEWER LINES

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Wastewater Collection and Separation Systems (11/3/21)		
Regulation 8			
Rule 8			
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration	N	
	or Temperature		
8-8-116	Limited Exemption, Oil-water Separation Trenches	N	

Reopening Revision Date: October 27, 2022

Table IV – I Source-specific Applicable Requirements WASTEWATER PROCESS SEWERS/SEWER LINES

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-8-308	Junction Box: Equipped with either a solid, gasketed, fixed cover	Y	
	totally enclosing the junction box or a solid manhole cover. May		
	include openings in covers/vent pipes if total open area does not		
	exceed 12.6 square inches and vent pipes are 3 ft long.		
8-8-312	Controlled Wastewater Collection System Components at Petroleum	N	
	Refineries		
8-8-313	Uncontrolled Wastewater Collection System Components at	N	
	Petroleum Refineries; comply with 8-8-313.1 or 8-8-313.2 for		
	uncontrolled sources		
8-8-313.2	Uncontrolled Wastewater Collection System Components at	N	
	Petroleum Refineries; Inspection and Maintenance Plan Option		
8-8-314	New Wastewater Collection System Components at Petroleum	N	
	Refineries; equip new components with water seal or equivalent		
	control		
8-8-402	Wastewater Inspection and Maintenance Plans at Petroleum	N	
	Refineries		
8-8-402.1	Wastewater Inspection and Maintenance Plans at Petroleum	N	
	Refineries : ID all components and submit to BAAQMD		
8-8-402.2	Wastewater Inspection and Maintenance Plans at Petroleum	N	
	Refineries ; complete initial inspection of components		
8-8-402.3	Wastewater Inspection and Maintenance Plans at Petroleum	N	
	Refineries; implement 8-8-313.2 Inspection and Maintenance Plan		
8-8-402.4	Wastewater Inspection and Maintenance Plans at Petroleum	N	
	Refineries; semi-annual inspections of controlled equipment		
8-8-402.5	Wastewater Inspection and Maintenance Plans at Petroleum	N	
	Refineries ; keep records per 8-8-505		
8-8-502	Wastewater Critical Organic Compound Concentration or	N	
	Temperature Records		
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-505	Records for Wastewater Collection System Components at	N	
	Petroleum Refineries		
8-8-505.1	Records for Wastewater Collection System Components at	N	
	Petroleum Refineries		
8-8-505.2	Records for Wastewater Collection System Components at	N	
	Petroleum Refineries		

IV. Source Specific Applicable Requirements

Table IV – I Source-specific Applicable Requirements WASTEWATER PROCESS SEWERS/SEWER LINES

	WASTEWATER PROCESS SEWERS/SEWER L	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-8-505.3	Records for Wastewater Collection System Components at	N	Dute
0 0 303.3	Petroleum Refineries	11	
8-8-505.4	Records for Wastewater Collection System Components at	N	
0 0 303.1	Petroleum Refineries	11	
8-8-601	Wastewater Analysis for Critical Organic Compounds	Y	
8-8-603	Inspection Procedures	N	
SIP	Organic Compounds, Wastewater (Oil-Water) Separators	1,	
Regulation 8,	(8/29/1994)		
Rule 8	(0.27.25.4)		
8-8-112	Exemption, Wastewater Critical OC Concentration or Temperature	Y	
8-8-502	Wastewater Critical OC Concentration and/or Temperature Records	Y	
8-8-603	Inspection Procedures	Y	
40 CFR 60,	Applies to S324 only:		
Subpart	Standards of Performance for VOC Emissions from Petroleum		
QQQ	Refinery Wastewater Systems (10/17/00)		
60.690(a)(1)	Applicability: Subpart QQQ applies to affected facilities	Y	
	constructed, modified, or reconstructed after May 4, 1987		
60.690(a)(2)	Wastewater process sewer lines are considered part of an individual	Y	
	drain system which is a separate affected facility		
60.692-1(a)	The provisions of Subpart QQQ apply except during periods of	Y	
	startup, shutdown, or malfunction		
60.692-1(b)	Determine compliance through review of records and reports,	Y	
	performance test results, and inspections		
60.692-2	Sewer lines shall not be open to the atmosphere and shall be covered	Y	
(c)(1)	or enclosed in a manner with no visible gaps or cracks in joints,		
	seals.		
60.692-2	The portion of each unburied sewer line shall be visually inspected	Y	
(c)(2)	semiannually for indication of cracks, gaps, or other problems that		
	could result in VOC emissions		
60.692-2	Whenever cracks, gaps, or other problems are detected, repairs shall	Y	
(c)(3)	be made as soon as practicable, but not later than 15 calendar days		
	after identification, except as provided in 60.692-6.		
60.692-6(a)	Delay of repairs are allowed if the repair is technically impossible	Y	
	without a complete or partial refinery or process unit shutdown.		
60.692-6(b)	Delayed repairs shall be completed before the end of the next	Y	
	refinery or process unit shutdown.		

IV. Source Specific Applicable Requirements

Table IV – I Source-specific Applicable Requirements WASTEWATER PROCESS SEWERS/SEWER LINES

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.697(a)	Each owner or operator shall comply with the recordkeeping	Y	
	provisions of Subpart QQQ.		
60.697(b)(3)	Record the location, date, and corrective action for inspections	Y	
	required by 60.692-2(c) when a problem is identified that could		
	result in VOC emissions.		
60.697(e)(1)	If an emission point cannot be repaired or corrected without a	Y	
	process unit shutdown, record the expected date of a successful		
	repair.		
60.697(e)(2)	The reason for the delay as specified in 60.692-6 shall be recorded if	Y	
	an emission point or equipment problem is not repaired or corrected		
	in the specified amount of time.		
60.697(e)(3)	The signature of the owner or operator whose decision it was that	Y	
	repair could not be effected without refinery or process shutdown		
	shall be recorded.		
60.697(e)(4)	The date of successful repair or corrective action shall be recorded.	Y	
60.697(f)(1)	A copy of the design specifications for all equipment used to comply	Y	
	with the provisions of this subpart shall be kept for the life of the		
	source in a readily accessible location.		
60.697(f)(2)	Detailed information pertaining to the design specifications shall be	Y	
	kept.		
60.698(b)(1)	Submit semiannually to the Administrator a certification that all of	Y	
	the required inspections have been carried out in accordance with		
	Subpart QQQ standards.		
60.698(c)	Submit semiannually to the Administrator a report that summarizes	Y	
	all inspections when cracks, gaps, or other problems that could result		
	in VOC emissions are identified, including information about the		
	repairs or corrective actions taken		

IV. Source Specific Applicable Requirements

Table IV – I.1 Source-specific Applicable Requirements – Process Vessels WASTEWATER-INDIVIDUAL DRAIN SYSTEMS APPLIES TO S434, CRACKING AND S1010, SULFUR RECOVERY UNIT

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirements	(Y/N)	Date
Requirement	For additional requirements for S434, see Table IV-Na.	(1111)	Dute
	For additional requirements for S1010, see Table IV-Ub.		
40 CFR 60	Standards of Performance for VOC Emissions from Petroleum		
Subpart QQQ	Refinery Wastewater Systems (10/17/00) APPLIES TO S434		
Suspuit QQQ	ONLY		
60.690(a)(1)	Applicability: Subpart QQQ applies to affected facilities	Y	
	constructed, modified, or reconstructed after May 4, 1987		
60.690(a)(2)	An individual drain system is a separate affected facility	Y	
60.692-1(a)	The provisions of Subpart QQQ apply except during periods of	Y	
	startup, shutdown, or malfunction		
60.692-1(b)	Determine compliance through review of records and reports,	Y	
	performance test results, and inspections		
60.692-2(a)(1)	Drain water seal control.	Y	
60.692-2(a)(2)	Monthly inspections. Drains in active service.	Y	
60.692-2(a)(3)	Weekly inspection. Drains out of active service.	Y	
60.692-2(a)(4)	Alternative compliance to (a)(3), drains out of active service.	Y	
	Semiannual inspection of caps or plugs.		
60.692-2(a)(5)	Low water level and/or missing plug or cap repair requirements.	Y	
60.692-2(b)(1)	Junction box cover requirement.	Y	
60.692-2(b)(2)	Junction box cover tight seal requirement.	Y	
60.692-2(b)(3)	Junction box semiannual visual inspections.	Y	
60.692-2(b)(4)	Broken seal or gap repair requirements.	Y	
60.692-2(c)(1)	Sewer lines covered and not open to atmosphere.	Y	
60.692-2(c)(2)	Semiannual visual inspection. Unburied sewer lines.	Y	
60.692-2(c)(3)	Sewer line repair requirements.	Y	
60.692-2(e)	Wastewater routed through new process drains can not be routed	Y	
	through a downstream catch basin.		
60.692-6(a)	Delays of repairs are allowed if the repair is technically impossible	Y	
	without a complete or partial refinery or process unit shutdown.		
60.692-6(b)	Delayed repairs shall be completed before the end of the next	Y	
	refinery or process unit shutdown.		
60.696(a)	Initial equipment inspection.	Y	
60.697(a)	Each owner or operator shall comply with the recordkeeping	Y	

IV. Source Specific Applicable Requirements

Table IV – I.1 Source-specific Applicable Requirements – Process Vessels WASTEWATER-INDIVIDUAL DRAIN SYSTEMS APPLIES TO S434, CRACKING AND S1010, SULFUR RECOVERY UNIT

	LIES 10 5454, CRACKING AND STOTE, SULFUR R	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirements	(Y/N)	Date
	provisions of Subpart QQQ.		
60.697(b)(1)	Corrective action recordkeeping: Individual drain systems.	Y	
60.697(b)(2)	Corrective action recordkeeping: Junction boxes.	Y	
60.697(b)(3)	Corrective action recordkeeping: Sewer lines.	Y	
60.697(e)(1)	If an emission point cannot be repaired or corrected without a process unit shutdown, record the expected date of a successful repair.	Y	
60.697(e)(2)	The reason for the delay as specified in 60.692-6 shall be recorded if an emission point or equipment problem is not repaired or corrected in the specified amount of time.	Y	
60.697(e)(3)	The signature of the owner or operator whose decision it was that repair could not be effected without refinery or process shutdown shall be recorded.	Y	
60.697(e)(4)	The date of successful repair or corrective action shall be recorded.	Y	
60.697(f)(1)	A copy of the design specifications for all equipment used to comply with the provisions of this subpart shall be kept for the life of the source in a readily accessible location.	Y	
60.697(f)(2)	Detailed information pertaining to the design specifications shall be kept.	Y	
60.697(g)	Location of capped or plugged drains that are out of active service.	Y	
60.698(b)(1)	Submit semiannually to the Administrator a certification that all of the required inspection have been carried out in accordance with Subpart QQQ standards.	Y	
60.698(c)	Submit semiannually to the Administrator a report that summarizes all inspections when cracks, gaps, or other problems that could result in VOC emissions are identified, including information about the repairs or corrective actions taken	Y	

Facility Name: Phillips 66 - San Francisco Refinery

Permit for Facility #: A0016

Table IV - J Source-specific Applicable Requirements WASTEWATER GAUGING AND SAMPLING DEVICES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Wastewater (Oil-Water) Separator (11/3/21)		
Regulation 8,			
Rule 8			
8-8-303	Gauging and Sampling Devices: Any compartment or access hatch shall have a vapor tight cover, seal, or lid that is closed, except for inspection, maintenance, or wastewater sampling.	Y	
8-8-504	Any instrument used for the measurement of organic compounds shall be a gas detector that meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (40 CFR 60, Appendix A)	Y	
8-8-603	Vapor tight inspections shall be conducted using a portable gas detector as prescribed in EPA Reference Method 21 (40 CFR 60, Appendix A).	N	
SIP	Wastewater (Oil-Water) Separator (8/29/94)	Y	
Regulation 8,			
Rule 8			
8-8-603	Vapor tight inspections shall be conducted using a portable gas detector as prescribed in EPA Reference Method 21 (40 CFR 60, Appendix A).	Y	

Table IV - K
Source-specific Applicable Requirements
S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Regulation 8,	Organic Compounds - Gasoline Dispensing Facilities (11/3/21)		
Rule 7			
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	

IV. Source Specific Applicable Requirements

Table IV - K
Source-specific Applicable Requirements
S294 – Non-Retail Gasoline Dispensing Facility

	5294 – NON-RETAIL GASOLINE DISPENSING FA	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers	Y	
	Guidelines or CARB Executive Order		
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppetted Drybreaks	Y	
8-7-301.8	No Coaxial Phase 1 Systems on New and Modified Tanks	Y	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	Y	
8-7-301.10	System Vapor Recovery Rate	Y	
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-301.13	Annual Phase I testing	Y	
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirement for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Insertion Interlocks	Y	
8-7-302.7	Built-In Vapor Check Valve	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing	Y	
8-7-302.12	Liquid Retain Limit	Y	
8-7-302.13	Spitting Limit	Y	
8-7-302.14	Annual balance Phase II backpressure test	Y	
8-7-302.15	Annual vacuum assist Phase II test	N	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-313	Requirements for New or Modified Phase II Installations	Y	
8-7-315	Pressure Vacuum Valve Requirement, Underground Storage Tank	Y	
8-7-401	Permit Requirements, New and Modified Installations	Y	

Reopening Revision Date: October 27, 2022

Table IV - K
Source-specific Applicable Requirements
S294 – Non-Retail Gasoline Dispensing Facility

	S294 – NON-RETAIL GASOLINE DISPENSING FA	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-407	Periodic Testing	Y	
8-7-408	Periodic Testing Notification	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Record Keeping Requirements	Y	
8-7-503.1	Gasoline Dispensed Records	Y	
8-7-503.2	Dispensing Facility Maintenance Records	Y	
8-7-503.3	Dispensing Records Retention	Y	
BAAQMD	Gasoline throughput shall not exceed 400,000 gallons in any	N	
Condition	consecutive 12-month period. [Basis: Toxic Risk Policy]		
7523			
BAAQMD			
Condition			
18680			
Part 1	Operation and maintenance standards for vapor recovery system	N	
	(CARB Executive Order VR-101)		
Part 2	36-month testing requirement	N	
BAAQMD	Throughput limits for S294 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part			
A			
BAAQMD			
Condition			
22951			
Part 1	Operation and maintenance standards for Healy EVR Phase II Vapor	N	
	Recovery System [Basis: [basis: CARB Executive Order VR-201,		
	Section 41954(f)]		
Part 2	Records [Basis: Regulation 2-1-403, CARB Executive Order VR-	N	
D 0	201, Section 41954(f)]		
Part 3	Vapor Tight [Regulation 8-7-203]	N	
Part 4	Vapor Integrey Requirements [basis: CARB Executive Order VR-201, Section 41954(f)]	N	
Part 5	Source Test Notification [Regulation 2-1-403]	N	
Part 6	Maximum hose assembly length [basis: CARB Executive Order	N	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

Table IV - K
Source-specific Applicable Requirements
S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	VR-201, Section 41954(f)]		
Part 7	Dispensing rate limit [Regulation 2-1-403]	N	
Part 8	Ball valve position [basis: CARB Executive Order VR-201, Section 41954(f)]	N	
Part 9	Maintenance Requirement [Basis: CARB Executive Order VR-201, Section 41954(f)]	N	
Part 10	No dispensing when vapor pump is disabled [basis: CARB Executive Order VR-201, Section 41954(f)]	N	
Part 11	Access for inspection [basis: Regulation 2-1-403]	N	
Part 12	Retrofit requirements as required by CARB [CARB Executive Order VR-201, Section 41954(f)]	N	

 $\begin{tabular}{ll} Table IV-L.1\\ Source-specific Applicable Requirements\\ S296-C-1 FLARE \end{tabular}$

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
District	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	

IV. Source Specific Applicable Requirements

Table IV – L.1 Source-specific Applicable Requirements S296 – C-1 FLARE

	5290 - C-1 FLARE	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Flare Monitoring at Petroleum Refineries (11/3/21)	Ì	
Regulation			
12, Rule 11			
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
BAAQMD	Flares at Petroleum Refineries (11/3/21)		
Regulation			
12, Rule 12			
12-12-301	Flare Minimization	N	
12-12-401	Flare Minimization Plan Requirements	N	
12-12-402	Submission of Flare Minimization Plans	N	
12-12-403	Review and Approval of Flare Minimization Plans	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
40 CFR	New Source Performance Standards – General Provisions (01/18/08)	Y	
Part 60			
Subpart A			
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and abbreviations	Y	
60.4	Address	Y	
60.5	Determination of construction or modification	Y	
60.6	Review of plans	Y	

 $\begin{array}{c} Table\ IV-L.1 \\ Source\text{-specific Applicable Requirements} \\ S296-C\text{-}1\ FLARE \end{array}$

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.7	Notification and record keeping	Y	
60.8	Performance tests	Y	
60.9	Availability of information	Y	
60.10	State authority	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumstances	Y	
60.13	Monitoring Requirements		
60.13(i)	Alternative Monitoring		
60.14	Modifications	Y	
60.15	Reconstruction	Y	
60.16	Priority list	Y	
60.17	Incorporation by reference	Y	
60.19	General notification and reporting requirements	Y	
NSPS	Standards of Performance for Petroleum Refineries for Which	Y	
40 CFR 60	Construction, Reconstruction, or Modification Commenced After		
Subpart Ja	May 14, 2007 (11/26/2018)		
60.100a(a)	General applicability	Y	
60.100a(b)	Applicability dates	Y	
60.100a(c)	Flare modification	Y	
60.100a(c)(1)	Flare modification exceptions	Y	
60.100a(c)(2)	Flare modification for increased flow capacity	Y	
60.103a(f)	H2S concentration limit compliance dates for modified flares	Y	
60.103a(g)	Flare Management Plan exemption for sources complying with	Y	
	BAAQMD Rule 12-11 and Rule 12-12		
60.103a(h)	Flare gas H2S concentration limit	Y	
60.103a(j)	Alternate means of emission limitation	Y	
60.104a(a)	Performance test requirements	Y	
60.104a(c)	Performance test methods	Y	
60.104a(j)	Test methods and procedures for fuel gas H2S concentration determination	Y	
60.107a(a)	Monitoring requirements applicability	Y	
60.107a(b)	Exemption from H2S monitoring requirement for low sulfur fuel gas streams	Y	

IV. Source Specific Applicable Requirements

$\begin{tabular}{ll} Table IV-L.1\\ Source-specific Applicable Requirements\\ S296-C-1 FLARE \end{tabular}$

S290 – C-1 FLARE					
A 12 1.1 .	Described on Tital and	Federally	Future		
Applicable	Regulation Title or	Enforceable	Effective		
Requirement	Description of Requirement	(Y/N) Y	Date		
60.107a(h)	Alternative monitoring for flares located in BAAQMD				
60.107a(i)	Excess emission quantification	Y			
60.107a(i)(2)	H2S concentration limit for flares	Y			
60.108a(c)	Recordkeeping Requirements	Y			
60.108a(c)(1)	Recordkeeping requirement for flare management plan	Y			
60.108a(c)(5)	Recordkeeping requirements of fuel gas monitoring stream exemptions from 60.107a(a)(3)	Y			
60.108a(d)	Excess emission report requirements	Y			
60.109a	Delegation of authority	Y			
NESHAP 40	General Provisions (12/07/2015)	Y			
CFR 63					
Subpart A					
NESHAP 40	National Emission Standards for Hazardous Air Pollutants from	Y			
CFR 63	Petroleum Refineries (11/26/18)				
Subpart CC					
63.640(s)	Overlap of this subpart with other regulations for flares	Y			
63.648(a)(3)	Flares must meet the requirements of 63.670 on or after January 30, 2019	Y			
63.655(g)(11)	Periodic report content guidelines	Y			
63.655(i)(6)	Retain reporting information for at least 5 years	Y			
63.655(i)(9)	Recordkeeping for flares	Y			
63.670	Requirements for flare control devices	Y			
63.671	Requirements for flare monitoring systems	Y			
40 CFR 60,	Standards of Performance for Equipment Leaks (Fugitive Emission	Y			
Subpart VV;	Sources) (8/18/95);	_			
BAAQMD	BAAQMD Standards of Performance for New Stationary Sources				
Regulation	(12/20/95)				
10-52	(Standard applies with flares are used as control devices for the purpose				
	of complying with 40 CFR 60.482-4a(c). The main control device is the				
	fuel gas system.)				
60.482-4	Standards: Pressure Relief Devices in gas/vapor service	Y			
60.482-4(c)	Leakage routed to control device	Y			
60.482-10	Standards: Closed vent systems and control devices	Y			

 $\begin{tabular}{ll} Table IV-L.1\\ Source-specific Applicable Requirements\\ S296-C-1 FLARE \end{tabular}$

	5270 - C-1 FLARE	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
NSPS Part	Applies to S307 and S434, Cracking	Y	
60 Subpart	Standards of Performance for Equipment Leaks of VOC in the		
VVa;	Synthetic Organic Chemicals Manufacturing Industry for Which		
BAAQMD	Construction, Reconstruction, or Modification Commenced After		
Regulation	November 7, 2006 (11/16/07); BAAQMD Standards of Performance		
10-52	for New Stationary Sources (12/20/95) (Applies to equipment in		
	VOC service)		
	(Standard applies with flares are used as control devices for the purpose		
	of complying with 40 CFR 60.482-4a(c). The main control device is the		
	fuel gas system.)		
60.482-4a	Standards: Pressure Relief Devices in gas/vapor service	Y	
60.482-4a(c)	Leakage routed to control device	Y	
60.482.10a	Standards: Closed vent systems and control devices	Y	
BAAQMD			
Condition			
18255			
Part 3	Flaring event definition [Basis: 2-6-409.2]	Y	
Part 4	Flaring event inspection procedure [Basis: 6-301, 2-1-403]	Y	
Part 5	Flaring event compliance criteria [Basis: 2-6-403]	Y	
Part 6	Flaring event records [Basis: 2-6-501, 2-6-409.2]	Y	
Part 8	Requirement for flare gas recovery system [Basis: Consent Decree Case	Y	
	No. 05-0258, paragraph 139(a)]		
Part 9	Periodic maintenance of flare gas recovery system [Basis: Consent	Y	
	Decree Case No. 05-0258, paragraph 148]		
Part 10	Temporary bypass of flare gas recovery system [Basis: Consent Decree	Y	
	Case No. 05-0258, paragraph 149]		
Part 12	Acid Gas or Hydrocarbon Flaring Incident Root Cause Analyses [Basis:	Y	
	Consent Decree Case No. 05-0258, paragraphs 152, 167]		
Part 13	Tail Gas Root Cause Analysis [Basis: Consent Decree Case No. 05-	Y	
	0258, paragraph 152]		

IV. Source Specific Applicable Requirements

$\begin{tabular}{ll} Table IV-L.2\\ Source-specific Applicable Requirements\\ S398-MP-30\,FLARE \end{tabular}$

	SS96 – WIF-SUFLARE	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
District	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentation Limit	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Flare Monitoring at Petroleum Refineries (06/04/03)		
Regulation			
12, -Rule 11			
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
BAAQMD	Flares at Petroleum Refineries (11/3/21)		_
Regulation			
12, Rule 12			
12-12-301	Flare Minimization	N	
12-12-401	Flare Minimization Plan Requirements	N	
12-12-402	Submission of Flare Minimization Plans	N	
12-12-403	Review and Approval of Flare Minimization Plans	N	
12-12-404	Update of Flare Minimization Plans	N	

Table IV – L.2 Source-specific Applicable Requirements S398 – MP-30 FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
40 CFR	New Source Performance Standards – General Provisions (01/18/08)	Y	
Part 60			
Subpart A			
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and abbreviations	Y	
60.4	Address	Y	
60.5	Determination of construction or modification	Y	
60.6	Review of plans	Y	
60.7	Notification and record keeping	Y	
60.8	Performance tests	Y	
60.9	Availability of information	Y	
60.10	State authority	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumstances	Y	
60.13	Monitoring Requirements		
60.13(i)	Alternative Monitoring		
60.14	Modifications	Y	
60.15	Reconstruction	Y	
60.16	Priority list	Y	
60.17	Incorporation by reference	Y	
60.19	General notification and reporting requirements	Y	
NSPS	Standards of Performance for Petroleum Refineries for Which	Y	
40 CFR 60	Construction, Reconstruction, or Modification Commenced After		
Subpart Ja	May 14, 2007 (11/26/2018)		
60.100a(a)	General applicability	Y	
60.100a(b)	Applicability Dates	Y	
60.100a(c)	Flare modification	Y	
60.100a(c)(1)	Flare modification exceptions	Y	

IV. Source Specific Applicable Requirements

$\begin{tabular}{ll} Table IV-L.2\\ Source-specific Applicable Requirements\\ S398-MP-30\,FLARE \end{tabular}$

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.100a(c)(2)	Flare modification for increased flow capacity	Y	
60.103a(f)	H2S concentration limit compliance dates for modified flares	Y	
60.103a(g)	Flare Management Plan exemption for sources complying with	Y	
	BAAQMD Rule 12-11 and Rule 12-12		
60.103a(h)	Flare gas H2S concentration limit	Y	
60.103a(j)	Alternate means of emission limitation	Y	
60.104a(a)	Performance test requirements	Y	
60.104a(c)	Performance test methods	Y	
60.104a(j)	Test methods and procedures for fuel gas H2S concentration determination	Y	
60.107a(a)	Monitoring requirements applicability	Y	
60.107a(b)	Exemption from H2S monitoring requirement for low sulfur fuel gas streams	Y	
60.107a(h)	Alternative monitoring for flares located in BAAQMD	Y	
60.107a(i)	Excess emission quantification	Y	
60.107a(i)(3)	H2S concentration limit for flares	Y	
60.108a(c)	Recordkeeping Requirements	Y	
60.108a(c)(1)	Recordkeeping requirement for flare management plan	Y	
60.108a(c)(5)	Recordkeeping requirements of fuel gas monitoring stream exemptions from 60.107a(a)(3)	Y	
60.108a(d)	Excess emission report requirements	Y	
60.109a	Delegation of authority	Y	
NESHAP 40 CFR 63 Subpart A	General Provisions (12/07/2015)	Y	
NESHAP 40	National Emission Standards for Hazardous Air Pollutants from	Y	
CFR 63	Petroleum Refineries (8/1/18)		
Subpart CC			
63.640(s)	Overlap of this subpart with other regulations for flares	Y	
63.648(a)(3)	Flares must meet the requirements of 63.670 on or after January 30, 2019	Y	
63.655(g)(11)	Periodic report content guidelines	Y	
63.655(i)(6)	Retain reporting information for at least 5 years	Y	
63.655(i)(9)	Recordkeeping for flares	Y	
63.670	Requirements for flare control devices	Y	

IV. Source Specific Applicable Requirements

$\begin{tabular}{ll} Table IV-L.2\\ Source-specific Applicable Requirements\\ S398-MP-30\,FLARE \end{tabular}$

	9370 – WII - 30 F LARE	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.671	Requirements for flare monitoring systems	Y	
40 CFR 60,	Standards of Performance for Equipment Leaks (Fugitive Emission	Y	
Subpart VV;	Sources) (8/18/95);		
BAAQMD	BAAQMD Standards of Performance for New Stationary Sources		
Regulation	(12/20/95)		
10-52	(Standard applies with flares are used as control devices for the purpose		
	of complying with 40 CFR 60.482-4a(c). The main control device is the		
	fuel gas system.)		
60.482-4	Standards: Pressure Relief Devices in gas/vapor service	Y	
60.482-4(c)	Leakage routed to control device	Y	
60.482-10	Standards: Closed vent systems and control devices	Y	
NSPS Part	Applies to S307 and S434, Cracking	Y	
60 Subpart	Standards of Performance for Equipment Leaks of VOC in the		
VVa;	Synthetic Organic Chemicals Manufacturing Industry for Which		
BAAQMD	Construction, Reconstruction, or Modification Commenced After		
Regulation	November 7, 2006 (11/16/07); BAAQMD Standards of Performance		
10-52	for New Stationary Sources (12/20/95) (Applies to equipment in		
	VOC service)		
	(Standard applies with flares are used as control devices for the purpose		
	of complying with 40 CFR 60.482-4a(c). The main control device is the		
	fuel gas system.)		
60.482-4a	Standards: Pressure Relief Devices in gas/vapor service	Y	
60.482-4a(c)	Leakage routed to control device	Y	
60.482.10a	Standards: Closed vent systems and control devices	Y	
BAAQMD			
Condition			
18255			
Part 3	Flaring event definition [Basis: 2-6-409.2]	Y	
Part 4	Flaring event inspection procedure [Basis: 6-301, 2-1-403]	Y	
Part 5	Flaring event compliance criteria [Basis: 2-6-403]	Y	
Part 6	Flaring event records [Basis: 2-6-501, 2-6-409.2]	Y	
Part 9	Periodic maintenance of flare gas recovery system [Basis: Consent	Y	
	Decree Case No. 05-0258, paragraph 148]		
Part 10	Temporary bypass of flare gas recovery system [Basis: Consent Decree	Y	
	Case No. 05-0258, paragraph 149]		

Facility Name: Phillips 66-San Francisco Refinery

Permit for Facility #: A0016

Table IV – L.2 Source-specific Applicable Requirements S398 – MP-30 FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 11	Elimination of routes of routine flaring [Basis: Consent Decree Case No.	Y	
	05-0258, paragraph 1 <u>39(c)</u>]		
Part 12	Acid Gas or Hydrocarbon Flaring Incident Root Cause Analyses [Basis:	Y	
	Consent Decree Case No. 05-0258, paragraphs 152, 167]		
Part 13	Tail Gas Root Cause Analysis [Basis: Consent Decree Case No. 05-	Y	
	0258, paragraph 152]		

Table IV - M
Source-specific Applicable Requirements
\$300 - U-200 DELAYED COKER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
District	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311.1	Total Suspended Particulte (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Organic Compounds – Process Vessel Depressurization (11/3/21)		
Regulation 8,			
Rule 10			
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to	N	

IV. Source Specific Applicable Requirements

Table IV - M Source-specific Applicable Requirements \$300 - U-200 DELAYED COKER

	S300 – U-200 DELAYED COKER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
requirement	release to atmosphere	(2/11)	Dute
8-10-302.2	Organic compound concentration of a refinery process vessel may	N	
0-10-302.2	exceed 10,000 ppm prior to release to atmosphere provided total	1	
	number of such vessels during 5-year period does not exceed 10%		
8-10-401	Turnaround Records. Annual report due February 1 of each year	N	
0-10-401	with initial report of process vessels due 4/1/2004.	11	
9 10 501		Y	
8-10-501	Monitoring prior to and during process vessel opening		
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP	Organic Compounds – Process Vessel Depressurization		
Regulation 8,	(10/03/84)		
Rule 10			
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented	Y	
	through a knock-out pot and then abated in one of the following		
	ways, to as low a vessel pressure as possible, but at least until		
	pressure is reduced to less than 1000 mm Hg (4.6 psig)		
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each	Y	
	process unit turnaround, and retained for at least 2 years and made		
	available to the District on demand during inspections		
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to	Y	
	atmosphere begin		
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
NESHAP 40	General Provisions (12/07/2015)	Y	
CFR 63			
Subpart A			
NESHAP 40	National Emission Standards for Hazardous Air Pollutants from	Y	
CFR 63	Petroleum Refineries (11/26/18)		
Subpart CC	, , ,		
63.655(e)	Reporting requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - M Source-specific Applicable Requirements \$300 - U-200 DELAYED COKER

	S300 – U-200 DELAYED COKER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.655(f)(1)(Notification of compliance for delayed coking units	Y	Date
viii)	Tourieuton of comphance for delayed coking annis	1	
63.655(g)(12)	Periodic report requirements	Y	
63.655(i)(6)	Information reported required to be maintained for 5 years	Y	
63.655(i)(7)	Recordkeeping requirements	Y	
63.657	Delayed coking unit decoking operation standards	Y	
63.657(a)	Depressurization requirements for coke drums	Y	
63.657(a)(1)(i	Average pressure level limit of 2 psig or comply with 63.657(a)(1)(ii)	Y	
63.657(a)(1)(i i)	Average temperature limit of 220 degrees Farenheit or comply with 63.657(a)(1)(i)	Y	
63.657(b)	Pressure monitoring system requirements or comply with 63.657(c)	Y	
63.657(c)	Continuous temperature monitoring system requirements or comply with 63.657(b)	Y	
63.657(d)	Requirements for pressure and temperature measurements	Y	
63.657(e)	Requirements for "water overflow" coke cooling	Y	
63.657(f)	Provisions for partially draining coke drums prior to achieving	Y	
	pressure and temperature limits		
BAAQMD			
Condition			
21092			
Part 1	Throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Recordkeeping requirements [Basis: Cumulative Increase]	Y	
Part 3	Reporting requirement [Basis: Cumulative Increase]	Y	
BAAQMD			
Condition			
21099			
Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y	
Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y	
Part 3	Centrifugal compressor requirements [Basis: BACT]	Y	
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y	
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y	
Part 6	ULSD project component count report requirement [Basis: BACT,	Y	
	Cumulative Increase, Toxic Management Policy]		

IV. Source Specific Applicable Requirements

Table IV - Na

Source-specific Applicable Requirements – Process Vessels S304 –U-229 LIGHT NAPHTHA HYDROTREATER;

S305 - U-230 Prefractionator / Naphtha Hydrotreater;

S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;

 $S318-U\text{-}76\ Gasoline\ /\ Mid\text{-}Barrel\ Blending\ Unit;}$

S319 – U-215 GASOLINE FRACTIONATING UNIT;

S322 – U-40 RAW MATERIALS RECEIVING; S339-U80 REFINED OIL SHIPPING UNIT;

S434, U246 HIGH PRESSURE REACTOR TRAIN (CRACKING);

S435 - REFORMATE SPLITTER; S436 - DEISOPENTANIZER;

S460 – U-250 ULSD HYDROTREATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
requirement	For additional requirements for S434, see Table IV-I.1	(2/1/)	2
BAAQMD	Organic Compounds – Process Vessel Depressurization		
Regulation 8,	(11/3/21)		
Rule 10			
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8, Rule 10	Organic Compounds – Process Vessel Depressurization (10/03/84)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg (4.6 psig)	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	

IV. Source Specific Applicable Requirements

Table IV - Na

Source-specific Applicable Requirements – Process Vessels S304 –U-229 LIGHT NAPHTHA HYDROTREATER;

S305 - U-230 Prefractionator / Naphtha Hydrotreater;

S307 - U-240 UNICRACKING UNIT; S309 - U-248 UNISAR UNIT;

S318 - U-76 GASOLINE / MID-BARREL BLENDING UNIT;

S319 – U-215 GASOLINE FRACTIONATING UNIT;

 ${\bf S322-U\text{-}40~Raw~materials~Receiving;}~{\bf S339\text{-}U80~Refined~Oil~Shipping~Unit;}$

S434, U246 HIGH PRESSURE REACTOR TRAIN (CRACKING);

S435 – REFORMATE SPLITTER; S436 – DEISOPENTANIZER;

S460 - U-250 ULSD HYDROTREATER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each	Y	
	process unit turnaround, and retained for at least 2 years and made		
	available to the District on demand during inspections:		
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to	Y	
	atmosphere begin		
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
40 CFR 60	Standards of Performance for VOC Emissions from Petroleum	Y	
Subpart QQQ	Refinery Wastewater Systems (8/18/95) APPLIES TO S434		
	ONLY. See Table IV-I.1		
BAAQMD	Throughput limits for S305, S435, S436, S437 [Basis:	Y	
Condition	2-1-234.3]		
20989, Part A			
BAAQMD	Throughput limits for S319 [Basis: 2-1-234.3]	N	
Condition			
20989, Part A			
BAAQMD	APPLIES TO S460 ONLY		
Condition			
21094			
Part 1	Daily throughput limit [Basis: Regulation 2-1-234]	Y	
Part 2	Throughput records [Basis: Regulation 2-1-234]	Y	
BAAQMD	APPLIES TO S304 ONLY		
Condition			
21095			
Part 1	Daily throughput limit [Basis: 2-1-234]	Y	
Part 2	Daily throughput records [Basis: 2-1-234]	Y	

IV. Source Specific Applicable Requirements

Table IV - Na

Source-specific Applicable Requirements – Process Vessels S304 –U-229 LIGHT NAPHTHA HYDROTREATER;

S305 - U-230 Prefractionator / Naphtha Hydrotreater;

S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;

S318 - U-76 GASOLINE / MID-BARREL BLENDING UNIT;

S319 – U-215 GASOLINE FRACTIONATING UNIT;

S322 – U-40 RAW MATERIALS RECEIVING; S339-U80 REFINED OIL SHIPPING UNIT; S434, U246 HIGH PRESSURE REACTOR TRAIN (CRACKING);

S435 - REFORMATE SPLITTER; S436 - DEISOPENTANIZER;

S460 - U-250 ULSD HYDROTREATER

	5400 - C-250 CLSD IIIDROIREATER	Fadamilla.	E4
Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Requirement	Description of Requirement	(1/N)	Date
BAAQMD	APPLIES TO S304, S460 ONLY		
Condition	THE EAST OF SECURITION OF THE PARTY OF THE P		
21099			
Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y	
Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y	
Part 3	Centrifugal compressor requirements [Basis: BACT]	Y	
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y	
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y	
Part 6	ULSD project component count report requirement [Basis:	Y	
	BACT, Cumulative Increase, Toxic Management Policy]		
BAAQMD	[APPLIES TO S318 ONLY]		
Condition			
22549			
Part 1	Daily petroleum liquid throughput limit excluding diesel	Y	
	[Cumulative Increase]		
Part 2	Annual throughput limit [Cumulative Increase]	Y	
Part 3	Daily records of petroleum liquid throughput limit [Cumulative	Y	
	Increase]		
Part 4	Pressure relief devices routed to fuel gas system, furnace or flare	Y	
	with 98% recovery efficiency [8-28-302, BACT]		
BAAQMD	APPLIES TO S307 and S434		
Condition			
22965			
Part 1	Daily throughput limit [Cumulative Increase]	Y	
Part 2	Daily throughput records [Cumulative Increase]	Y	
Part 3	Pressure relief valves vented to fuel gas recovery system, furnace	Y	

IV. Source Specific Applicable Requirements

Table IV - Na

Source-specific Applicable Requirements – Process Vessels S304 –U-229 LIGHT NAPHTHA HYDROTREATER;

S305 – U-230 Prefractionator / Naphtha Hydrotreater;

S307 - U-240 UNICRACKING UNIT; S309 - U-248 UNISAR UNIT;

S318-U-76 Gasoline / Mid-Barrel Blending Unit;

S319 – U-215 GASOLINE FRACTIONATING UNIT;

S322 – U-40 RAW MATERIALS RECEIVING; S339-U80 REFINED OIL SHIPPING UNIT; S434, U246 HIGH PRESSURE REACTOR TRAIN (CRACKING);

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S435 – REFORMATE SPLITTER; S436 – DEISOPENTANIZER; S460 – U-250 ULSD Hydrotreater

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	or flare [8-28-302, BACT]		
BAAQMD	APPLIES TO S309 ONLY		
Condition			
22967			
Part 1	Daily throughput limit [Cumulative Increase]	Y	
Part 2	Daily throughput records [Cumulative Increase]	Y	
BAAQMD	APPLIES TO S339 ONLY		
Condition			
22968			
Part 1	Daily throughput limit [Cumulative Increase]	Y	
Part 2	Daily throughput records [Cumulative Increase]	Y	
BAAQMD	APPLIES TO S434 ONLY		
Condition			
22969			
Part 1	Annual throughput limit [Cumulative Increase]	Y	
Part 2	Monthly throughput records [Cumulative Increase]	Y	
Part 3	Pressure relief valves vented to fuel gas recovery system, furnace	Y	
	or flare [8-28-302, BACT]		
BAAQMD	APPLIES TO S434 ONLY		
Condition 22970			
Part A.1	Applicability of Condition 22970 [Cumulative increase, PSD]	Y	
Part A.2a	Annual NOx limit for S45, Heater, S434, U246 High Pressure	Y	
	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative		
	increase]		
Part A.2b	Annual SO2 limit for S45, Heater, S434, U246 High Pressure	Y	
	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative		

IV. Source Specific Applicable Requirements

Table IV - Na

Source-specific Applicable Requirements – Process Vessels S304 –U-229 LIGHT NAPHTHA HYDROTREATER;

S305 - U-230 Prefractionator / Naphtha Hydrotreater;

S307 - U-240 UNICRACKING UNIT; S309 - U-248 UNISAR UNIT;

S318 - U-76 GASOLINE / MID-BARREL BLENDING UNIT;

S319 - U-215 GASOLINE FRACTIONATING UNIT;

 ${\bf S322-U\text{-}40~Raw~materials~Receiving;}~{\bf S339\text{-}U80~Refined~Oil~Shipping~Unit;}$

 ${\bf S434, U246\, High\, Pressure\, Reactor\, Train\, (Cracking);}$

 $S435-Reformate\ Splitter;\ S436-Deisopentanizer;$

S460 - U-250 ULSD HYDROTREATER

		Federally	Future
Applicable Requirement	Regulation Title or Description of Requirement	Enforceable (V/N)	Effective Date
Requirement	increase]	(Y/N)	Date
Part A.2c	Annual PM10 limit for S45, Heater, S434, U246 High Pressure	Y	
1 411 71.20	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative	1	
	increase, PSD]		
Part A.2d	Annual POC limit for S45, Heater, S434, U246 High Pressure	Y	
	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative		
	increase]		
Part A.2e	Annual CO limit for S45, Heater, S434, U246 High Pressure	Y	
	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative		
	increase]		
Part A.2f	Annual sulfuric acid mist limit for S45, Heater, S434, U246 High	Y	
	Pressure Reactor Train; and S1010, Sulfur Recovery Unit [PSD]		
Part A.2g	Annual ammonia limit for S45, Heater, S434, U246 High Pressure	N	
	Reactor Train; and S1010, Sulfur Recovery Unit [BAAQMD		
	Regulation 2, Rule 5]		
Part A.3	Daily sulfuric acid mist limit for S45, Heater, S434, U246 High	Y	
	Pressure Reactor Train; and S1010, Sulfur Recovery Unit at		
	Facility A0016 and S2 at B7419. [PSD]		
Part A.4	Determination of compliance with Part A.2 [Cumulative increase,	Y	
	PSD, BAAQMD Regulation 2, Rule 5]		
Part A.5	Additional offsets and PSD analysis, if necessary [Offsets, PSD]	Y	
Part A.6	Annual PM10 limit for S45, S434, and S1010 at Facility A0016,	Y	
	and S2 and S3 at Facility B7419 [1-104, 2-2-304]		
Part B	Offset Report [2-1-403, 2-2-410]	Y	

Table IV – Nb Source-specific Applicable Requirements – Process Vessels S306 – U-231 Platforming Unit; S308 – U-244 Reforming Unit

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds – Process Vessel Depressurization		
Regulation 8,	(11/3/21)		
Rule 10			
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP	Organic Compounds – Process Vessel Depressurization		
Regulation 8,	(10/03/84)		
Rule 10			
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented	Y	
	through a knock-out pot and then abated in one of the following		
	ways, to as low a vessel pressure as possible, but at least until		
	pressure is reduced to less than 1000 mm Hg (4.6 psig)		
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections:	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
40 CFR 63	National Emission Standards for Hazardous Pollutants for	Y	

IV. Source Specific Applicable Requirements

Table IV – Nb Source-specific Applicable Requirements – Process Vessels S306 – U-231 Platforming Unit; S308 – U-244 Reforming Unit

	806 – U-231 Platforming Unit; S308 – U-244 Ref 	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Subpart UUU	Petroleum Refineries: Catalytic Cracking Units, Catalytic		
	Reforming Units, and Sulfur Recovery Units (12/01/15)		
63.1561	Am I subject to this subpart?	Y	
63.1562(a)	New, reconstructed, or existing affected sources	Y	
63.1562(b)(2)	Catalytic reforming units	Y	
63.1562(f)(5)	Exemption for gaseous streams routed to a fuel gas system	Y	
63.1563	When do I have to comply with this subpart?	Y	
63.1563(b)	Deadline for existing sources-4/11/05	Y	
63.1563(e)	Notification requirements	Y	
63.1566	What are my requirements for organic HAP emissions from catalytic reforming units?	Y	
63.1566(a)	Emission Limitations and Work Practice Standards	Y	
63.1566(a)(1)	Meet each emission limitation in Table 15 that applies	Y	
63.1566(a)(1)(i	Vent TOC emissions to flare or comply with 63.1566(a)(1)(ii)	Y	
63.1566(a)(1)(i	TOC or non-methane TOC percent reduction standard or	Y	
i)	concentration limit, whichever is less stringent or comply with 63.1566(a)(1)(i)		
63.1566(a)(2)	Comply with option 1 in Table 16: flare pilot light must be on and	Y	
	flare must be operating at all times that emissions from S306 or S308 regeneration vented to flare		
63.1566(a)(3)	Applicability of emission limitations-emissions from catalytic	Y	
	reforming unit process vents associated with initial catalyst depressuring and catalyst purging operations that occur prior to the coke burn-off cycle. The emission limitations in Tables 15 and 16 of this subpart do not apply to the coke burn-off, catalyst rejuvenation, reduction or activation vents, or to the control systems used for these vents.		
63.1566(a)(4)	Emission limitations do not apply during depressuring when the vessel is at or below 5 psig except that during active purging operations or active depressuring the emission limitations apply regardless of the reactor vent pressure	Y	
63.1566(a)(5)	Prepare an Operation, Maintenance and Monitoring Plan and operate in compliance with the plan	Y	
63.1566(b)	How do I demonstrate initial compliance with the emission limitations and work practice standard?	Y	

Table IV – Nb Source-specific Applicable Requirements – Process Vessels S306 – U-231 Platforming Unit; S308 – U-244 Reforming Unit

	306 – U-231 PLATFORMING UNIT; S308 – U-244 REF		Future
Applicable	Regulation Title or	Federally Enforceable	Effective
	Description of Requirement		
Requirement		(Y/N)	Date
63.1566(b)(1)	Install, operate, and maintain a continuous monitoring system(s)	Y	
63.1566(b)	Conduct each performance test required by Table 18: Option 1 or	Y	
(2)	Option 2		
63.1566(b)(3)	Establish each site-specific operating limit in Table 16 that applies	Y	
63.1566(b)(4)	Determine initial compliance with emission limitations	Y	
63.1566(b)(5)	No requirement to perform TOC performance test if emissions are	Y	
(i)	vented to a flare as provided in Option 1 of Table 15		
63.1566(b)(6)	Demonstrate initial compliance with each emission limitation that	Y	
	applies according to Table 19		
63.1566(b)(7)	Demonstrate Initial Compliance with Work Practice Standard by	Y	
. , , ,	submitting Operation, Maintenance, and Monitoring Plan		
63.1566(b)(8)	Submit the Notification of Compliance Status per §63.1574	Y	
02.1200(0)(0)		-	
63.1566(c)	How do I demonstrate continuous compliance with the emission	Y	
	limitations and work practice standards?		
63.1566(c) (1)	Demonstrate continuous compliance with emission limitations in	Y	
	Table 15 and Table 16		
63.1566(c) (2)	Demonstrate continuous compliance with work practice standards	Y	
	by complying with the procedures in the operation, maintenance,		
	and monitoring plan		
63.1567	Requirements for Inorganic HAP Emissions from Catalytic	Y	
03.1307	Reforming Units	1	
63.1567(a)	Emission Limitations and Work Practice Standards	Y	
	Emission Limitations and Work Fractice Standards Emission Limitations for Hydrogen Chloride (HCl) during coke	Y	
63.1567(a)(1)	burn-off and catalyst rejuvenation using internal scrubbing system:	1	
	Reduce uncontrolled HCl emissions by 92% or to a concentration		
	of 30 ppmvd corrected to 3%O2 (Table 22, Item 1)		
60.1565() (2)	TI HOL	37	
63.1567(a)(2)	The HCl concentration in the catalyst regenerator exhaust gas must	Y	
	not exceed the limit established during the performance test. (Table		
	2, Item 1.b)		
63.1567(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate	Y	
	in compliance with the plan		
63.1567(b)	How do I demonstrate initial compliance with the emission	Y	
	limitations and work practice standard?		

Table IV – Nb Source-specific Applicable Requirements – Process Vessels S306 – U-231 Platforming Unit; S308 – U-244 Reforming Unit

٥	300 - U-231 F LATFORMING UNIT; \$500 - U-244 REF	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.1567(b)(1)	Install, operate, and maintain a continuous monitoring system(s)	¥	
	according to the requirements in §63.1572 and Table 24 of this		
	subpart.		
63.1567(b)(2)	Performance Test: measure HCl concentration at the outlet (for the	Y	
. , , ,	concentration standard) or at the inlet and outlet (for the percent		
	reduction standard) of the scrubber (Table 25, Item 4.ii)		
	Conduct each performance test for a catalytic reforming unit		
	according to the requirements in §63.1571 and the conditions		
	specified in Table 25 of this subpart.		
63.1567(b)(3)	Establish each site-specific operating limit in Table 23 of this	Y	
	subpart that applies to you according to the procedures in Table 25		
	of this subpart.		
63.1567(b)(4)	Demonstrate Initial Compliance with Emission Limitations: reduce	Y	
	HCl concentration by 92% or to 30 ppmv (Table 26, Item 1)		
	Use the equations in paragraphs (b)(4)(i) through (iv) of this		
	section to determine initial compliance with the emission		
	limitations.		
63.1567(b)(5)	Demonstrate Initial Compliance with Work Practice Standard by	Y	
	submitting Operation, Maintenance, and Monitoring Plan		
	Demonstrate initial compliance with each emission limitation that		
	applies to you according to Table 26 of this subpart.		
63.1567(b)(6)	Submit Notice of Initial Compliance Status	Y	
	Demonstrate initial compliance with the work practice standard in		
	paragraph (a)(3) of this section by submitting the operation,		
	maintenance, and monitoring plan to your permitting authority as		
	part of your Notification of Compliance Status.		
63.1567(b)(7)	Submit the Notification of Compliance Status containing the results		
	of the initial compliance demonstration according to the		
	requirements in §63.1574.		
63.1567 <u>(c)</u>	Continuous Compliance Demonstration	Y	
	How do I demonstrate continuous compliance with the emission		
	limitations and work practice standard?		
63.1567(c)(1)	Demonstrate Continuous Compliance with Emission Limitation:	Y	
	maintain 92% control efficiency or 30 ppmv HCl concentration		
	Table 28, Item 1.c.		
63.1567(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard	Y	
	through maintaining records to document conformance with the		

 $Table\ IV-Nb$ $Source\text{-specific Applicable Requirements}-Process\ Vessels$ $S306-U\text{-}231\ PLATFORMING\ UNIT;\ S308-U\text{-}244\ REFORMING\ UNIT$

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	Operation, Maintenance, and Monitoring Plan		
63.1570	What are my general requirements for complying with this subpart?	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times	Y	
63.1570(c)	Operate and maintain source including pollution control and	Y	
	monitoring equipment in a manner consistent with safety and good		
	air pollution control practices for minimizing emissions		
63.1570(d)	During the period between the compliance date specified for your	Y	
	affected source and the date upon which continuous monitoring		
	systems have been installed and validated and any applicable		
	operating limits have been set, you must maintain a log detailing		
	the operation and maintenance of the process and emissions control		
	equipment		
63.1570(f)	Report deviations from compliance with this subpart according to	Y	
	the requirements of 63.1575		
63.1571	How and when do I conduct a performance test or other initial	Y	
	compliance demonstration?		
63.1571(a)(1)	For emission limitation or work practice standard where	Y	
	compliance not demonstrated using performance test, opacity		
	observation, or visible emission observation, conduct initial		
	compliance demonstration within 30 days after compliance date		
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of	Y	
	63.7(e) except that performance tests shall be conducted at the		
	maximum representative operating capcity for the process		
63.1571(b)(2)	Conduct three separate test runs of at least an hour for each	Y	
	performance test		
63.1571(b)(3)	Conduct each performance evaluation in accordance with the	Y	
	requirements of 63.8(e)		
63.1571(b)(4)	Arithmetic average of emission rates	Y	
63.1571(c)	What procedures must I use for an engineering assessment?		
63.1571(d)	Can I adjust the process or control device measured values when		
` '	establishing an operating limit?		
63.1571(d)(4)	Adjust process or control device measured values when	Y	
· - · · (- /(·/	establishing operating limit (optional)	-	
63.1571(e)	Changes to Operating limits	Y	
63.1572	What are my monitoring installation, operation, and maintenance	Y	

 $Table\ IV-Nb$ $Source\text{-specific Applicable Requirements}-Process\ Vessels$ $S306-U\text{-}231\ PLATFORMING\ UNIT;\ S308-U\text{-}244\ REFORMING\ UNIT$

	- U-231 PLATFORMING UNIT; \$308 – U-244 REF	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	requirements?		
63.1572(c)(1)	Use a colormetric tube sampling system with a printed numerical scale in ppmv, a standard measurement range of 1 to 10 ppmv (or 1 to 30 ppmv if applicable), and a standard deviation for measured values of no more than +/- 15 percent. System must include a gas detection pump and hot air probe if needed for the measurement range. Table 41, Item 3.	Y	
63.1572(c)(2)	One cycle every 15 minutes	Y	
63.1572(c)(3)	Valid hourly average data from at least 75% of hours operated	Y	
63.1572(c)(4)	Hourly and daily averages	Y	
63.1572(c)(5)	Records of results of inspections, calibrations, and validation checks	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating	Y	
63.1572(d)(2)	Not use data recorded during required QA/QC activities (including calibration checks and required zero and span adjustments)	Y	
63.1573	What are my monitoring alternatives?	Y	
63.1573(d)	Can I use another type of monitoring system? (Note: another type of monitoring system may not be used without prior approval)	Y	
63.1573(e)	Can I monitor other process or control device operating parameters? (Note: Facility may not other process or control device operating parameters without prior approval)	Y	
63.1573(f)	How do I request to monitor alternative parameters?	Y	
63.1574	What notifications must I submit and when?	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3) (ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	

 $Table\ IV-Nb$ $Source\text{-specific Applicable Requirements}-Process\ Vessels$ $S306-U\text{-}231\ PLATFORMING\ UNIT;\ S308-U\text{-}244\ REFORMING\ UNIT$

50	006 – U-231 PLATFORMING UNIT; 8308 – U-244 REF 	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.1575	What reports must I submit and when?	Y	Date
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(c) through (e) (Table 43, Item 1) on a semi-annual basis; Performance test and CEMS performance evaluation data (Table 43, Item 2) within 60 days after the test completion date according to 63.1575(k) (Table 43, Item 2)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(f)(2)	Submittal of requested change in the applicability of an emission standard	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(k)	Electronic submittal of performance test and CEMS performance evaluation data	Y	
63.1575(k)(1)	Submittal of performance test results within 60 days	Y	
63.1576	What records must I keep, in what form, and for how long?	Y	
63.1576(a)	Required Records – General	Y	
63.1576(d)	Records required by Tables 20, 21, 27, and 28 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
BAAQMD	Throughput limit for S306 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part A			
BAAQMD	APPLIES TO S308 ONLY		
Condition			
22966			
Part 1	Daily throughput limit [Cumulative Increase]	Y	
Part 2	Daily records of throughput [Cumulative Increase]	Y	
Part 3	Pressure relief devices routed to fuel gas system, furnace or flare with 98% recovery efficiency [8-28-302, BACT]	Y	

IV. Source Specific Applicable Requirements

Table IV – Nc Source-specific Applicable Requirements – Process Vessels S437 – Hydrogen Plant

	S437 – HYDROGEN PLANT	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds – Miscellaneous Operations (6/15/94)	,	
Regulation 8,			
Rule 2			
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and	Y	
	300 ppm carbon on a dry basis		
BAAQMD	Organic Compounds – Vacuum Producing Systems (7/20/83)		
Regulation 8,			
Rule 9			
8-9-301	Vacuum Producing System POC emissions must be controlled by	Y	
	combustion or venting to fuel gas systems		
8-9-601	Determination of Emissions	Y	
BAAQMD	Organic Compounds – Process Vessel Depressurization (11/3/21)		
Regulation 8,			
Rule 10			
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to	N	
	release to atmosphere		
8-10-302.2	Organic compound concentration of a refinery process vessel may	N	
	exceed 10,000 ppm prior to release to atmosphere provided total		
	number of such vessels during 5-year period does not exceed 10%		
8-10-401	Turnaround Records. Annual report due February 1 of each year	N	
	with initial report of process vessels due 4/1/2004.		
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP	Organic Compounds – Process Vessel Depressurization (10/3/84)		
Regulation 8,			
Rule 10			
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented	Y	
	through a knock-out pot and then abated in one of the following		
	ways, to as low a vessel pressure as possible, but at least until		
	pressure is reduced to less than 1000 mm Hg:		

Facility Name: Phillips 66-San Francisco Refinery

Permit for Facility #: A0016

Table IV – Nc Source-specific Applicable Requirements – Process Vessels S437 – Hydrogen Plant

5457 – II I DROGEN I LANI			
		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each	Y	
	process unit turnaround, and retained for at least 2 years and made		
	available to the District on demand during inspections:		
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to	Y	
	atmosphere begin		
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	

Table IV - O Source-specific Applicable Requirements S350 – U-267 CRUDE DISTILLATION UNIT

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds - Vacuum Producing Systems (7/20/83)		
Regulation 8,			
Rule 9			
8-9-301	Vacuum Producing System POC emissions must be controlled by	Y	
	combustion or venting to fuel gas systems		
8-9-601	Determination of Emissions	Y	
BAAQMD	Organic Compounds – Process Vessel Depressurization (11/3/21)		
Regulation 8,			
Rule 10			
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to	N	
	release to atmosphere		

Table IV - O Source-specific Applicable Requirements S350 – U-267 CRUDE DISTILLATION UNIT

	S350 – U-267 CRUDE DISTILLATION UNI	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-10-302.2	Organic compound concentration of a refinery process vessel may	N	
	exceed 10,000 ppm prior to release to atmosphere provided total		
	number of such vessels during 5-year period does not exceed 10%		
8-10-401	Turnaround Records. Annual report due February 1 of each year	N	
	with initial report of process vessels due 4/1/2004.		
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP	Organic Compounds – Process Vessel Depressurization (10/3/84)		
Regulation 8,			
Rule 10			
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented	Y	
	through a knock-out pot and then abated in one of the following		
	ways, to as low a vessel pressure as possible, but at least until		
	pressure is reduced to less than 1000 mm Hg (4.6 psig)		
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each	Y	
	process unit turnaround, and retained for at least 2 years and made		
	available to the District on demand during inspections:		
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to	Y	
	atmosphere begin		
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD			
Condition			
383			
Part 1a	Sulfur content limit in crude [Basis: Cumulative Increase]	Y	
Part 1b	Crude analysis requirement [Basis: Cumulative Increase]	Y	
Part 2	Daily crude feed limits [Basis: Cumulative Increase]	Y	
Part 3a	Daily recordkeeping requirements [Basis: Cumulative Increase]	Y	

Table IV - O Source-specific Applicable Requirements S350 – U-267 CRUDE DISTILLATION UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3b	Records of sulfur content of crude feed [Basis: Cumulative Increase]	Y	
Part 4	Requirement for water seals [Basis: toxics, cumulative increase]	Y	
BAAQMD Condition 21099			
Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y	
Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y	
Part 3	Centrifugal compressor requirements [Basis: BACT]	Y	
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y	
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y	
Part 6	ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy]	Y	

Table IV - P Source-specific Applicable Requirements S432 – U-215 DEISOBUTANIZER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds – Process Vessel Depressurization (11/3/21)		
Regulation 8,			
Rule 10			
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to	N	
	release to atmosphere		
8-10-302.2	Organic compound concentration of a refinery process vessel may	N	
	exceed 10,000 ppm prior to release to atmosphere provided total		
	number of such vessels during 5-year period does not exceed 10%		
8-10-401	Turnaround Records. Annual report due February 1 of each year	N	
	with initial report of process vessels due 4/1/2004.		
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	

IV. Source Specific Applicable Requirements

Table IV - P Source-specific Applicable Requirements S432 – U-215 DEISOBUTANIZER

	S432 – U-215 DEISOBUTANIZER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-10-503	Recordkeeping	N	Date
	Monitoring Procedures	N	
8-10-601		IN	
SIP	Organic Compounds – Process Vessel Depressurization		
Regulation 8,	(10/03/84)		
Rule 10			
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented	Y	
	through a knock-out pot and then abated in one of the following		
	ways, to as low a vessel pressure as possible, but at least until		
	pressure is reduced to less than 1000 mm Hg (4.6 psig)		
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each	Y	
	process unit turnaround, and retained for at least 2 years and made		
	available to the District on demand during inspections:		
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to	Y	
	atmosphere begin	_	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD			
Condition			
6725			
Part 1	Flange, valve design requirements [Basis: Cumulative Increase]	Y	
Part 2	Vent collection requirement for relief valves [Basis: Cumulative	Y	
	Increase]		
Part 3	Pump, compressor design requirements [Basis: Cumulative	Y	
	Increase		
Part 4	Daily throughput limit [Cumulative Increase]	Y	
Part 5	Pressure relief valves vented to fuel gas recovery system, furnace or	Y	
	flare [8-28-302, BACT]	-	
Part 6	Daily records [Cumulative Increase]	Y	
	y		1

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-Q.1$ Source-specific Applicable Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)		
Regulation 1		***	
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	performance testing requirements	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedances reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedances reporting requirements	Y - note 1	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y – note 1	
1-523.3	Reports of Violations	Y – note 1	
BAAQMD	Regulation 2, Rule 1 – Permits, General Requirements (12/7/17,		
Regulation 2,	effective 6/30/22)		
Rule 1	,		
	<u>l</u>	ll	

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-Q.1$ Source-specific Applicable Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
2-1-403	Permit conditions-measurement of emissions	Y	
2-1-501	Monitors	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/15/21,		
Regulation 2,	effective 7/1/22)		
Rule 1			
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 2,	Permits, General Requirements (5/21/18)		
Rule 1			
2-1-403	Permit conditions-measurement of emissions	Y - note 1	
2-1-501	Monitors	Y- note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate Weight Limitation; Heat Transfer Operation	Y	
BAAQMD	Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary	N	
Regulation 9,	Gas Turbines (12/6/06)		
Rule 9			
9-9-113	Exemption – Inspection/Maintenance	N	

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-Q.1$ Source-specific Applicable Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
9-9-114	Exemption – Startup/Shutdown	N	
9-9-115	Limited Exemption, Minor Inspection and Maintenance Work	N	
9-9-120	Interchangeable Emission Reduction Credits	N	
9-9-301	Emission Limits – General	N	
9-9-301.1.3	Emission Limits	N	
9-9-301.2	Emission limits effective on January 1, 2010	N	
9-9-401	Efficiency Certification	Y	
9-9-501	Continuous Emission Monitoring (CEM)	N	
9-9-601	Determination of Emissions	N	
9-9-602	Determination of Stack Gas Oxygen	Y	
9-9-603	Continuous Emission Monitoring	N	
9-9-604	Determination of HHV and LHV	N	
9-9-605	Compliance With Output Based NOx Emissions Standards	N	
SIP	Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary		
Regulation 9,	Gas Turbines (12/15/97)		
Rule 9			
9-9-113	Exemption – Inspection/Maintenance	Y	
9-9-114	Exemption – Startup/Shutdown	Y	
9-9-301	Emission Limits – General	Y	
9-9-301.3	Emission Limits	Y	
9-9-401	Efficiency Certification	Y	
9-9-501	Continuous Emission Monitoring (CEM)	Y	
9-9-600	Manual of Procedures	Y	
9-9-601	Determination of Emissions	Y	
9-9-603	continuous Emission Monitoring	Y	
9-9-604	Determination of HHV and LHV	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures	Y	
Manual of	(1/20/82)		
Procedures,			
Volume V			
40 CFR 60	New Source Performance Standards- General Provisions		
Subpart A	(10/23/15)		

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-Q.1$ Source-specific Applicable Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.13	Monitoring Requirements	Y	2400
40 CFR 60,	Standards of Performance for Petroleum Refineries (121/15)		
Subpart J	(222/20)		
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (except for natural gas)	Y	
60.105(a)(4) (iv)	Exemption from SO2 or H2S monitoring for fuel inherently low in sulfur content (UK Sweet gas and natural gas)	Y	
60.105(e)(3) (ii)	Excess H2S emission definitions for 60.7(c)	Y	
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
60.107(e)	Recordkeeping – Maintain records of 60.105(a)(4)(iv) exemption chosen.	Y	
40 CFR 60, Subpart GG	Standards of Performance for Stationary Gas Turbines (2/27/14)		
60.330	Applicability	Y	
60.332(a)(2)	Alternate Standard, NOx (except when ice fog deemed a traffic hazard per 60.332(f)	Y	
60.332(d)	Compliance with 60.332(a)(2) required	Y	
60.332(f)	Exemption from 60.332(a)(2) when steam injection would result in ice fog which is deemed a traffic hazard	Y	
60.332(k)	Exemption: Natural gas turbines >10 MMbtu/hr when firing emergency fuel	Y	
60.333	Performance Standards, SO2	Y	
60.333(b)	Fuel Sulfur Limit (in lieu of SO2 concentration emission limit – 150 ppmv @ 15% O2 - in 60.333(a))	Y	

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-Q.1$ Source-specific Applicable Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.334	Monitoring Requirements	Y	
60.334(h)(1)	Fuel Sulfur Content (for refinery fuel gas)	Y	
60.334(h)(3) (i)	Gas Quality Characteristics in current, valid purchase contract (for natural gas)	Y	
60.334(i)	Fuel sulfur content monitoring frequency	Y	
6.0334(i)(3)	Custom schedules for determination of fuel sulfur content	Y	
6.0334(i)(3) (i)	Custom schedules for determination of fuel sulfur content	Y	
60.334(j)	Excess emission reporting per 60.7(c)	Y	
60.334(j)(2)	Excess emission definition for fuel sulfur content	Y	
6.0334(j)(2) (i)	Excess emission definition for fuel sulfur content	Y	
60.334(j)(2) (iii)	Monitor downtime period definition	Y	
60.334(j)(5)	Excess emission reports due the 30th day following end of each calendar quarter	Y	
60.335	Test Methods and Procedures	Y	
BAAQMD Condition 12122			
Part 1	Restriction to natural gas and refinery fuel gas [Basis: Cumulative Increase]	Y	
Part 2	Restriction on duct burner operation to times when associated turbine is also operated [Basis: BACT, Cumulative Increase]	Y	
Part 3	Abatement requirement for S352 and S355 at A13 [Basis: BACT, Cumulative Increase]	Y	
Part 4	Abatement requirement for S353 and S356 at A14 [Basis: BACT, Cumulative Increase]	Y	
Part 5	Abatement requirement for S354 and S357 at A15 [Basis: BACT, Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-Q.1$ Source-specific Applicable Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7	CO exhaust concentration limit [Basis: BACT, Cumulative	Y	
	Increase]		
Part 8	POC exhaust concentration limit [Basis: BACT, Cumulative	Y	
	Increase]		
Part 9a	NOx hourly, daily and annual emission limits [Basis: BACT,	Y	
	Cumulative Increase] (Part 9a will be deleted after offsets are		
	provided for CFEP project)		
Part 9b	NOx hourly, daily and annual emission limits after offsets are	Y	
	provided by the turbines/duct burners [Basis: BACT, Cumulative		
	Increase]		
Part 9c	NOx CEM requirement [Basis: BACT, Cumulative Increase]	Y	
Part 9d	Requirement for fuel meter [Basis: Cumulative Increase, 2-6-503]	Y	
Part 10a	CO annual emission limits [Basis: BACT, Cumulative Increase]	Y	
Part 10b	CO CEM requirement [Basis: BACT, Cumulative Increase]	Y	
Part 11	POC hourly and annual emission limits [Basis: BACT, Cumulative	Y	
	Increase]		
Part 12	Refinery fuel gas testing requirement for total reduced sulfur [Basis:	Y	
	Cumulative Increase]		
Part 13	Reporting requirement for refinery fuel gas total reduced sulfur	Y	
	measurements [Basis: Cumulative Increase]		
Part 14	Annual POC source test [Basis: Regulation 2-6-409.2]	Y	
Part 15	Recordkeeping requirement [Basis: BACT, Cumulative Increase]	Y	
BAAQMD	PSD Approval to Construct / Modify issued 3/3/86, modified		
Condition	5/26/89. The basis for each section is PSD.		
18629			
Part III	Facilities Operation	Y	
Part IV	Malfunction	Y	
Part V	Right to Entry	Y	
Part V.A	entry to premises	Y	
Part V.B	access to records	Y	
Part V.C	right to inspection of equipment and operations	Y	

IV. Source Specific Applicable Requirements

$\label{eq:control_equation} Table~IV-Q.1$ Source-specific Applicable Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Part V.D	right to sample emissions	Y	
Part VI	Transfer of Ownership	Y	
Part VII	Severability	Y	
Part VIII	Other Applicable Regulations	Y	
Part IX	Special Conditions	Y	
Part IX.B	Air Pollution Control Equipment	Y	
Part IX.B.1	Requirement for steam injection	Y	
Part IX.B.2	Requirement for SCR	Y	
Part IX.D.1	restriction to refinery fuel gas and natural gas	Y	
Part IX.D.2	466 MMbtu/hr firing rate limit for each of 3 turbine/duct burner sets	Y	
Part IX.D.3	1048 MMbtu/hr total firing rate limit	Y	
Part IX.D.4	fuel usage and related records	Y	
Part IX.E	Emission Limits for NOx	Y	
Part IX.F	Emission Limits for SO2	Y	
Part IX.G	Continuous Emission Monitoring	Y	
Part IX.G.1.a	Requirement for NOx CEM and fuel gas H2S sampling	Y	
Part IX.G.1.b	parametric monitoring of stack flowrates	Y	
Part IX.G.2	Requirement to maintain records (2 years)	Y	
Part IX.G.3	quarterly report of SO2 emissions and excess emissions	Y	
Part IX.G.3.a.(1)	total sulfur concentration in each fuel gas sample	Y	
Part	daily average sulfur content in fuel gas, daily average SO2 mass	Y	
IX.G.3.a.(2)	emission rate, total ton/yr of SO2		
Part IX.G.3.b	excess SO2 emissions	Y	
Part IX.G.3.c	excess SO2 emissions during startups, shutdowns and malfunctions	Y	
Part IX.G.3.d	time and date of CEM failures	Y	
Part IX.G.3.e	affirmative statement of CEM operation when no failures occur	Y	
Part IX.G.3.f	definition of excess SO2 emissions	Y	
Part IX.G.3.g	excess SO2 emissions indicated by CEM is a violation	Y	
Part IX.H	New Source Performance Standards (Subparts A and GG)	Y	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – Q.1 Source-specific Applicable Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

S354 - COMBUSTION TURBINE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part X	Agency Notifications	Y	
BAAQMD			
Condition			
22970			
Part B	Offset Report [2-1-403, 2-2-410]	Y	

This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – Q.2 Source-specific Applicable Requirements S355 – SUPPLEMENTAL DUCT BURNERS FOR S352 S356 – SUPPLEMENTAL DUCT BURNERS FOR S353 S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/04/11)		
Regulation 1			
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	performance test requirements	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – Q.2 Source-specific Applicable Requirements S355 – SUPPLEMENTAL DUCT BURNERS FOR S352 S356 – SUPPLEMENTAL DUCT BURNERS FOR S353

	5557 - SULLEMENTAL DUCT DURNERS FOR	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE	·	
Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Particulate Matter and Visible Emissions (8/1/18)		
Regulation 6,	1		
Rule 1			
6-1-114.1	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limit	N	
6-1-310.3	Concentration Correction	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-1-310	Particulate Weight Limitation	Y	
6-310.3	Particulate Weight Limitation	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/7/17,		
Regulation 2,	effective until 6/30/22)		
Rule 1			
2-1-403	Permit conditions-measurement of emissions	Y	
2-1-501	Monitors	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (12/15/21,		
Regulation 2,	effective 7/1/22)		
Rule 1			
2-1-403	Permit conditions-measurement of emissions	N	

IV. Source Specific Applicable Requirements

Table IV – Q.2 Source-specific Applicable Requirements S355 – SUPPLEMENTAL DUCT BURNERS FOR S352 S356 – SUPPLEMENTAL DUCT BURNERS FOR S353

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
2-1-501	Monitors	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 2,	Permits, General Requirements (5/21/18)		
Rule 1			
2-1-403	Permit conditions-measurement of emissions	Y-note 1	
2-1-501	Monitors	Y- note 1	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Boilers, Steam Generators, and Process Heaters		
Rule 10	in Petroleum Refineries (11/3/21)		
9-10-110.3	Exemption: Waste heat recovery boilers associated with gas turbines	Y	
BAAQMD	Continuous Emission Monitoring Policy and Procedures	Y	
Manual of	(1/20/82)		
Procedures,			
Volume V			
40 CFR 60,	New Source Performance Standards - General Provisions		
Subpart A	(03/16/1994)		
60.13	Monitoring Requirements	Y	
40 CFR 60,	Standards of Performance for Industrial-Commercial-		
Subpart Db	Institutional Steam Generating Units (2/27/14)		
60.40b(a)	Applicability	Y	
60.40b(c)	Affected facilities subject to Subpart J are subject to PM and NOx	Y	
	standards in Subpart Db and SO2 standards in Subpart J		
60.40b(f)	Modification for the sole purpose of combusting gases containing	Y	
	TRS is not a modification		
60.40b(j)	Units subject to Subpart Db are not subject to Subpart D	Y	
60.44b(a)	NOx Standard	Y	
60.44b(a)(4)(i)	NOx standard for duct burner used in combined cycle system for	Y	
	natural gas-firing only conditions		
60.44b(e)	NOx standard for refinery-produced byproduct (i.e., fuel gas) with	Y	
	oil or natural gas combustion.		
60.44b(f)	NOx standard for refinery-produced byproduct with oil or natural	Y	
	gas combustion may be determined on a case-by-case basis (based		
	on 25 ppmv NOx standard for PSD Permit Condition 18629, Part		

IV. Source Specific Applicable Requirements

Table IV – Q.2 Source-specific Applicable Requirements S355 – Supplemental Duct Burners for S352 S356 – Supplemental Duct Burners for S353

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Requirement	IX.E).	(1/11)	Dutt
60.44b(h)	NOx standard applicable at all times	Y	
60.44b(i)	30-day rolling average	Y	
60.46b	Compliance/Performance test Methods for NOx	Y	
60.46b(b)	NOx standard applicable at all times	Y	
60.48b	Emission Monitoring for NOx	Y	
60.48b(b)(1)	Install, calibrate, and operate CEM and record output for measuring NOx discharges	Y	
60.48b(c)	Record data during all periods of operation of CEM except during breakdown and repairs	Y	
60.48b(d)	Continuous NOx monitors measure 1-hr average emission rates	Y	
60.48b(e)	Complies with 60.13	Y	
60.48b(e)(2)	Span values for NOx	Y	
60.48b(e)(3)	Span values for NOx rounded to nearest 500 ppm	Y	
60.48b(f)	Standby monitoring system and test methods	Y	
60.48b(g)	NOx CEM requirements for units with 250 MMbtu/hr heat input capacity or less	Y	
60.48b(g)(1)	NOx CEM requirements for units with 250 MMbtu/hr heat input capacity or less	Y	
60.48b(h)	NOx CEM not required if subject to \$60.44b(a)(4) for natural gas firing-only conditions	Y	
60.49b	Reporting and Recordkeeping	Y	
60.49b(d)	Record amounts of each fuel combusted/day and calculate annual capacity factors at a 12-month rolling average	Y	
60.49b(g)	Recordkeeping – NOx data	Y	
60.49b(h)	Excess emission reports	Y	
60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with nitrogen content of 0.3 weight percent or less – for natural gas firing-only conditions	Y	
60.49b(h)(2)(ii)	Heat input capacity of affected units is 250 MMbtu/hr or less and NOx CEM is required under 60.48b(g)(1)	Y	
60.49b(h)(4)	Excess emission definition	Y	
60.49b(i)	Reports of 60.49b(g) data	Y	

IV. Source Specific Applicable Requirements

Table IV – Q.2 Source-specific Applicable Requirements S355 – Supplemental Duct Burners for S352 S356 – Supplemental Duct Burners for S353

	S357 – SUPPLEMENTAL DUCT BURNERS FO		Future
Applicable	Regulation Title or	Federally Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.49b(o)	Records retained for 2 years	Y	Date
		Y	
60.49b(v)	Electronic quarterly reports		
60.49b(w)	Semi-annual reports	Y	
40 CFR 60,	Standards of Performance for Petroleum Refineries (12/1/15)		
Subpart J			
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)	Y	
	except for gas burned as a result of process upset or gas burned at		
	flares from relief valve leaks or other emergency malfunctions		
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to	Y	
	combustion		
60.105(a)(4)	Exemption from SO2 or H2S monitoring for fuel inherently low in	Y	
(iv)	sulfur content (UK Sweet gas and natural gas)		
60.105(e)(3)(ii)	Excess H2S emission definitions for 60.7(c)	Y	
60.106(a)	Test methods and procedures	Y	
60.106(e)(1)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
60.107(e)	Recordkeeping – Maintain records of 60.105(a)(4)(iv) exemption	Y	
	chosen.		
BAAQMD			
Condition			
12122			
Part 1	Restriction to natural gas and refinery fuel gas [Basis: Cumulative	Y	
	Increase]		
Part 2	Restriction on duct burner operation to times when associated	Y	
	turbine is also operated [Basis: BACT, Cumulative Increase]		
Part 3	Abatement requirement for S352 and S355 at A13 [Basis: BACT,	Y	
	Cumulative Increase]		
Part 4	Abatement requirement for S353 and S356 at A14 [Basis: BACT,	Y	
	Cumulative Increase]		
Part 5	Abatement requirement for S354 and S357 at A15 [Basis: BACT,	Y	
	1 Eller		

IV. Source Specific Applicable Requirements

Table IV – Q.2 Source-specific Applicable Requirements S355 – Supplemental Duct Burners for S352 S356 – Supplemental Duct Burners for S353

A1913	Developed the Control of the Control	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	Cumulative Increase]		
Part 6	Duct burner annual firing limit [Basis: Cumulative Increase]	Y	
Part 7	CO exhaust concentration limit [Basis: BACT, Cumulative	Y	
	Increase]		
Part 8	POC exhaust concentration limit [Basis: BACT, Cumulative	Y	
	Increase]		
Part 9a	NOx hourly, daily and annual emission limits [Basis: BACT,	Y	
	Cumulative Increase] (Part 9a will be deleted after offsets are		
	provided for CFEP project)		
Part 9b	NOx hourly, daily and annual emission limits after offsets are	Y	
	provided by the turbines/duct burners [Basis: BACT, Cumulative		
	Increase]		
Part 9c	NOx CEM requirement [Basis: BACT, Cumulative Increase]	Y	
Part 9d	Requirement for fuel meter [Basis: Cumulative Increase, 2-6-503]	Y	
Part 10a	CO annual emission limits [Basis: BACT, Cumulative Increase]	Y	
Part 10b	CO CEM requirement [Basis: BACT, Cumulative Increase]	Y	
Part 11	POC hourly and annual emission limits [Basis: BACT, Cumulative	Y	
	Increase]		
Part 12	Refinery fuel gas testing requirement for total reduced sulfur [Basis:	Y	
	Cumulative Increase]		
Part 13	Reporting requirement for refinery fuel gas total reduced sulfur	Y	
	measurements [Basis: Cumulative Increase]		
Part 14	Annual POC source test [Basis: Regulation 2-6-409.2]	Y	
Part 15	Recordkeeping requirement [Basis: BACT, Cumulative Increase]	Y	
Part 16	Alternative monitoring plan for U240 Sweet Unicracker Gas [40	Y	
	CFR 60.13(i), EPA letter of July 2, 2007		
BAAQMD	PSD Approval to Construct / Modify issued 3/3/86, modified		
Condition	5/26/89. The basis for each section is PSD.		
18629			
Part III	Facilities Operation	Y	
Part IV	Malfunction	Y	
Part V	Right to Entry	Y	
Part V.A	entry to premises	Y	

IV. Source Specific Applicable Requirements

Table IV – Q.2 Source-specific Applicable Requirements S355 – Supplemental Duct Burners for S352 S356 – Supplemental Duct Burners for S353 S357 – Supplemental Duct Burners for S354

	5557 - SUITLEMENTAL DUCT BURNERS FO	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part V.B	access to records	Y	
Part V.C	right to inspection of equipment and operations	Y	
Part V.D	right to sample emissions	Y	
Part VI	Transfer of Ownership	Y	
Part VII	Severability	Y	
Part VIII	Other Applicable Regulations	Y	
Part IX	Special Conditions	Y	
Part IX.B	Air Pollution Control Equipment	Y	
Part IX.B.1	Requirement for steam injection	Y	
Part IX.B.2	Requirement for SCR	Y	
Part IX.D.1	restriction to refinery fuel gas and natural gas	Y	
Part IX.D.2	466 MMbtu/hr firing rate limit for each of 3 turbine/duct burner	Y	
	sets		
Part IX.D.3	1048 MMbtu/hr total firing rate limit	Y	
Part IX.D.4	fuel usage and related records	Y	
Part IX.E	Emission Limits for NOx	Y	
Part IX.F	Emission Limits for SO2	Y	
Part IX.G	Continuous Emission Monitoring	Y	
Part IX.G.1.a	Requirement for NOx CEM and fuel gas H2S sampling	Y	
Part IX.G.1.b	parametric monitoring of stack flowrates	Y	
Part IX.G.2	Requirement to maintain records (2 years)	Y	
Part IX.G.3	quarterly report of SO2 emissions and excess emissions	Y	
Part	total sulfur concentration in each fuel gas sample	Y	
IX.G.3.a.(1)			
Part	daily average sulfur content in fuel gas, daily average SO2 mass	Y	
IX.G.3.a.(2)	emission rate, total ton/yr of SO2		
Part IX.G.3.b	excess SO2 emissions	Y	
Part IX.G.3.c	excess SO2 emissions during startups, shutdowns and	Y	
	malfunctions		
Part IX.G.3.d	time and date of CEM failures	Y	
Part IX.G.3.e	affirmative statement of CEM operation when no failures occur	Y	
Part IX.G.3.f	definition of excess SO2 emissions	Y	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – Q.2 Source-specific Applicable Requirements S355 – SUPPLEMENTAL DUCT BURNERS FOR S352 S356 – SUPPLEMENTAL DUCT BURNERS FOR S353

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part IX.G.3.g	excess SO2 emissions indicated by CEM is a violation	Y	
Part IX.H	New Source Performance Standards (Subparts A and GG)	Y	
Part X	Agency Notifications	Y	
BAAQMD			
Condition			
22970			
Part B	Offset Report [2-1-403, 2-2-410]	Y	

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV - R
Source-specific Applicable Requirements
S376 - TOOL ROOM COLD CLEANER
S377 - MACHINE SHOP COLD CLEANER
S378 - AUTO SHOP COLD CLEANER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds – Solvent Cleaning Operations (10/16/02)		
Regulation 8,			
Rule 16			
8-16-201	Definitions	Y	
8-16-303	Cold Cleaner Requirements	Y	
8-16-303.1	General Operating Requirements	Y	
8-16-303.1.1	Operate and maintain in proper working order	Y	
8-16-303.1.2	Leak Repair Requirement	Y	
8-16-303.1.3	Solvent Storage or Disposal – Evaporation Prevention	Y	
8-16-303.1.4	Waste Solvent Disposal	Y	
8-16-	Covered Containers for Waste Solvent Awaiting Pick-up	Y	
303.1.4(a)			
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be	Y	

IV. Source Specific Applicable Requirements

Table IV - R Source-specific Applicable Requirements \$376 - Tool Room Cold Cleaner \$377 - Machine Shop Cold Cleaner \$378 - Auto Shop Cold Cleaner

	S578 – AUTO SHOP COLD CLEANER	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
•	Removed		
8-16-303.1.6	Solvent Spray Requirements	Y	
8-16-303.2	Cold Cleaner Operating Requirements	Y	
8-16-303.2.1	Solvent shall be Drained from Cleaned Parts	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Solvent Cleaning of Porous or Absorbent Materials is Prohibited	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	Y	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-303.3.4	Label Stating Operating Requirements	Y	
8-16-303.5	Cold Cleaner Requirements for Repair and Maintenance	Y	
	Cleaning		
8-16-303.5.2	Cleaning solution shall be branched, cyclic, or linear completely	Y	
	methylated siloxane (VMS)		
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide Monthly Solvent Usage Records	Y	
8-16-501.3	Monthly Records of Type and Amount of Solvent Used for Wipe	Y	
	Cleaning		
8-16-501.5	Records Retained for Previous 24 Month Period	Y	
BAAQMD			
Condition			
16677			
Part 1	Net usage of citrus-based solvent at S376, S377 and S378 shall not	Y	
	exceed 150 gallons each in any consecutive 12-month period.		
	[Basis: Cumulative Increase]		
Part 2	Criteria for using solvents other than based solvents.	Y	
	[Basis: Cumulative Increase and Toxic Risk Screen]		
Part 3a, 3b, 3c	Recordkeeping requirements.	Y	
	[Basis: Cumulative Increase and Toxic Risk Screen]		

IV. Source Specific Applicable Requirements

Table IV - S Source-specific Applicable Requirements S425 – MARINE LOADING BERTH M1 S426 – MARINE LOADING BERTH M2

Requirement Description of Requirement (Y/N) Date BAAQMD Organic Compounds-Marine Tank Vessel Operations (11/3/21) 8-44-110 Exemption: loading events Y 8-44-111 Exemption: marine vessel fueling Y 8-44-115 Exemption. Safety/Emergency Operations N 8-44-116 Limited Exemption, Equipment Leaks N 8-44-101 Limitations on Marine Tank Vessel Loading and Lightering (after 1/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, JP-4 fuel and crude oil and any other organic compound or mixture of organic compounds that exists as a liquid at actual conditions of use or storage that has a flash point less than 100 degrees F) 8-44-304 Emission Control Requirements N 8-44-305.1 Emission Limits N 8-44-305.1 Inspection requirements during operation N 8-44-305.1 Tagging, minimization, and repair requirements N 8-44-400 Notifications Regarding Safety/Emergency Exemption N 8-44-501.1 Records for loading events N 8-44-501.1 Name of vessel N 8-44-501.1.1 Name of vessel N 8-44-501.1.2 Owner, country, operator, and agent N 8-44-501.1.3 Arrival and departure N 8-44-501.1.4 Tank identifying designation, type, and amount N 8-44-501.1.5 Flash point and temperature N 8-44-501.1.6 Prior cargo N 8-44-501.1.7 Source of flash point data and copy of source document or analysis N 8-44-501.1.9 Means used to comply with 8-44-304 N 8-44-501.1.1 Information in 8-44-501.1.1 through 8-44-501.1.3 N 8-44-501.2.1 Information in 8-44-501.1.1 through 8-44-501.1.3 N 8-44-501.2.1 Information in 8-44-501.1.1 through 8-44-501.1.3 N	4 11 11		Federally	Future
BAAQMD Regulation 8, Rule 44 8-44-110 Exemption: loading events	Applicable	Regulation Title or	Enforceable	Effective
Regulation 8, Rule 44 Rule 44 8-44-110 Exemption: loading events Y 8-44-111 Exemption: marine vessel fueling Y 8-44-115 Exemption, Safety/Emergency Operations N 8-44-116 Limited Exemption, Equipment Leaks N 8-44-301 Limitations on Marine Tank Vessel Loading and Lightering (after 1/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, JP-4 fuel and crude oil and any other organic compound or mixture of organic compounds that exists as a liquid at actual conditions of use or storage that has a flash point less than 100 degrees F) 8-44-304 Emission Control Requirements N 8-44-305 Equipment Leaks N 8-44-305.1 Emission Limits N 8-44-305.2 Emission Limits N 8-44-305.3 Inspection requirements during operation N 8-44-305.4 Tagging, minimization, and repair requirements N 8-44-403 Notifications Regarding Safety/Emergency Exemption N 8-44-501 Recordkeeping N 8-44-501 Records for loading events N 8-44-501.1 N N 8-44-5			(Y/N)	Date
Rule 44 8-44-110 Exemption: loading events Y 8-44-111 Exemption: marine vessel fueling Y 8-44-115 Exemption, Safety/Emergency Operations N 8-44-116 Limited Exemption, Equipment Leaks N 8-44-101 Limited Exemption, Equipment Leaks N 8-44-301 Limitations on Marine Tank Vessel Loading and Lightering (after I/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, JP-4 fuel and crude oil and any other organic compound or mixture of organic compounds that exists as a liquid at actual conditions of use or storage that has a flash point less than 100 degrees F) 8-44-304 Emission Control Requirements N 8-44-305 Equipment Leaks 8-44-305 Imission Limits N 8-44-305.1 Emission Limits N 8-44-305.4 Tagging, minimization, and repair requirements N 8-44-305.4 Tagging, minimization, and repair requirements N 8-44-501. Recordseping N 8-44-501. Records for loading events N 8-44-501.1 Name of vessel N 8-44-501.1.1 Owner, country, operator, and agent N 8-44-501.1.2 Owner, country, operator, and agent N 8-44-501.1.3 Arrival and departure N 8-44-501.1.4 Tank identifying designation, type, and amount N 8-44-501.1.5 Flash point and temperature N 8-44-501.1.6 Prior cargo N 8-44-501.1.7 Source of flash point data and copy of source document or analysis N 8-44-501.1.9 Means used to comply with 8-44-304 8-44-501.1.10 Date and time of inspections, identification equipment N 8-44-501.1.1 Information in 8-44-501.1.1 through 8-44-501.1.3 N 8-44-501.2.1 Information in 8-44-501.1.1 through 8-44-501.1.3 N	_	Organic Compounds-Marine Tank Vessel Operations (11/3/21)		
8-44-110 Exemption: loading events Y 8-44-111 Exemption: marine vessel fueling Y 8-44-115 Exemption, Safety/Emergency Operations N 8-44-116 Limited Exemption, Equipment Leaks N 8-44-301 Limitations on Marine Tank Vessel Loading and Lightering (after 1/1/07, applies to all gasoline, gasoline blending stocks, aviation gas, 1P-4 fuel and crude oil and any other organic compound or mixture of organic compounds that exists as a liquid at actual conditions of use or storage that has a flash point less than 100 degrees F) 8-44-304 Emission Control Requirements N 8-44-305 Equipment Leaks N 8-44-305.1 Emission Limits N 8-44-305.3 Inspection requirements during operation N 8-44-305.4 Tagging, minimization, and repair requirements N 8-44-301. Recordkeeping N 8-44-501 Records for loading events N 8-44-501.1 Records for loading events N 8-44-501.1.1 Name of vessel N 8-44-501.1.2 Owner, country, operator, and agent N 8-44-501.1.3 Arrival and departure N 8-44-501.1.4 Tank identifying designation, type, and amount N 8-44-501.1.5 Flash point and temperature N 8-44-501.1.6 Prior cargo N 8-44-501.1.7 Source of flash point data and copy of source document or analysis N 8-44-501.1.9 Means used to comply with 8-44-304 N 8-44-501.1.1 Date and time of inspections, identification equipment N 8-44-501.1.1 Information in 8-44-501.1.1 through 8-44-501.1.3 N 8-44-501.2.1 Information in 8-44-501.1.1 through 8-44-501.1.3 N	_			
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8-44-501.2.2 Tank identifying designation, amount of ballast water N				
	8-44-501.2.3	Prior cargo	N	

IV. Source Specific Applicable Requirements

Table IV - S Source-specific Applicable Requirements S425 – MARINE LOADING BERTH M1 S426 – MARINE LOADING BERTH M2

	S426 – MARINE LOADING BERTH M2	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-44-501.2.4	Means used to comply with 8-44-302	N	
8-44-501.2.5	Date and time of inspections, identification equipment	N	
8-44-501.3	Records for venting operations	N	
8-44-501.3.1	Information in 8-44-501.1.1 through 8-44-501.1.3	N	
8-44-501.3.2	Tank identifying designation, prior cargo	N	
8-44-501.3.3	Activity leading to venting	N	
8-44-501.3.4	Means used to comply with 8-44-303	N	
8-44-501.3.5	Date and time of inspections, identification equipment	N	
8-44-503	Record Keeping – Exemptions	<u>N</u>	
8-44-504	Burden of Proof	<u>Y</u>	
SIP	Organic Compounds-Marine Vessel Loading Terminals (8/30/93)	<u>Y</u>	
Regulation 8,			
Rule 44			
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 gram per cubic meter (2 lb per 1000 bbl) of organic liquid	Y	
	loaded, or		
8-44-301.2	POC emissions reduced 95% by weight from uncontrolled conditions	Y	
8-44-302	Emission control equipment	Y	
8-44-303	Operating practice	Y	
8-44-304	Equipment Maintenance	Y	
8-44-304.1	Certified leak free, gas tight and in good working order	Y	
8-44-304.2	Loading ceases any time gas or liquid leaks are discovered	Y	
8-44-305	Ozone Excess Day Prohibition	Y	
8-44-402	Safety/Emergency Operations	Y	
8-44-402.1	Rule does not require act/omission in violation of Coast Guard/other	Y	
	rules		
8-44-402.2	Rule does not prevent act/omission for vessel safety or saving life at sea	Y	
8-44-501	Record keeping	Y	
8-44-501.1	Name and location	Y	
8-44-501.2	Responsible company	Y	
8-44-501.3	Dates and times	Y	
8-44-501.4	Name, registry of the vessel loaded and legal owner	Y	
8-44-501.5	Prior cargo carried	Y	
8-44-501.6	Type, amount of liquid cargo loaded	Y	

IV. Source Specific Applicable Requirements

Table IV - S Source-specific Applicable Requirements S425 – MARINE LOADING BERTH M1 S426 – MARINE LOADING BERTH M2

	S420 – WARINE LOADING BERTH WIZ	Fodovally	Future
Applicable	Regulation Title or	Federally Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-44-501.7	Condition of tanks	Y	Dutt
8-44-502	Burden of proof	Y	
40 CFR 63	National Emission Standards for Hazardous Air Pollutants for	Y	
Subpart A	Source Categories (12/01/2015)	1	
NESHAPS	National Emission Standards for Marine Tank Vessel Loading		
Part 63	Operations (12/01/15)		
Subpart Y	Operations (12/01/13)		
63.560(a)	Maximum Achievable Control Technology (MACT) applicability	Y	
63.560(a)(2)	MACT does not apply to existing sources with emissions < 10 and 25	Y	
03.300(a)(2)	tons	1	
63.560(a)(3)	Record keeping in 63.567(j)(4) and emission estimation in 63.565(l)	Y	
	apply to existing sources < 10 and 25 tons		
63.560(b)(2)	Sources with throughput less than 10 million barrels of gasoline and 200	Y	
	million barrels of crude oil are exempt from the emission standards of		
	63.562(c) and (d).		
63.565(l)	Emission estimation procedures	Y	
63.567(j)(4)	Retain records of emission estimates per 63.565(l), and actual	Y	
	throughputs, by commodity, for 5 years		
BAAQMD			
Condition			
4336			
Part 1	A420 oxidizer temperature requirements [Basis: Cumulative Increase]	Y	
Part 2	Monitoring requirements [Basis: Cumulative Increase]	Y	
Part 3	Prohibition against loading without A420 in service [Basis:	Y	
	Cumulative Increase]		
Part 4	Leak test requirement [Basis: Cumulative Increase]	Y	
Part 5	Maximum loading pressure relative to relief valve setpoint [Basis:	Y	
	Cumulative Increase]		
Part 6a	Throughput limit for regulated materials [Basis: Cumulative Increase]	Y	
Part 6b	Maximum loading rate [Basis: Cumulative Increase]	Y	
Part 7	Limit on receipts of crude and gas oil via tanker (ship) or barge, limit on	Y	
	number of tankers or ships [Cumulative increase, 2-1-403, Offsets]		
Part 8	Recordkeeping requirement [Basis: Cumulative Increase]	Y	
Part 9	Destruction efficiency [Basis: BACT]	Y	

Facility Name: Phillips 66-San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV - T
Source-specific Applicable Requirements
S450 – GROUNDWATER EXTRACTION TRENCHES

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Condition			
12245			
Part 1	Extracted water to be treated at wastewater treatment plant and not	Y	
	exposed to the atmosphere [Basis: Cumulative Increase]		
Part 2	Covers required on all pump vaults and piping access boxes [Basis:	Y	
	Cumulative Increase]		

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236 HELD PLANT UNIT 238, \$301 – MOLTEN SULE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	General Provisions and Definitions (4/18/2012//)		
Regulation 1			
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 10	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

S302 - MOLTEN SULFUR PIT 230 AND S303 - MOLTEN SULFUR PIT 238 Federally			
Applicable	Regulation Title or	Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Regulation 1	General Provisions and Definitions (6/28/99)	(1/14)	Date
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
		Y - note 1	
1-522.7	emission limit exceedance reporting requirements	Y - note 1	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.2	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
(applies only			
to S1002,			
S1003)			
6-1-311.1	Total Suspended Particulate (TSP) Weight Limits	N	
(applies only			
to S1002,			
S1003)			
6-1-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	N	
(applies only			
to S1002,			
S1003)			
6-1-401	Appearance of Emissions	N	
6-1-505	Determination of SO3 and Sulfuric Acid Mist Compliance	N	
(applies only	·		
to S1002,			
S1003)			
6-1-602	Methods for Determining Compliance	N	
(applies only			
to S1002,			
S1003)			
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6	, ´		

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

	02 - WOLTEN SULFUR I II 230 AND 5303 - WOLTEN	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
6-301	Ringelmann #1 Limitation	Y	2400
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (11/3/21)	1	
Regulation 9,	morganic Gaseous Fonutaints – Suntil Dioxide (11/3/21)		
Rule 1			
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing	N	
9-1-313	more than 20,000 bbl/day of crude oil)	14	
9-1-313.2	operation of a sulfur removal and recovery system that removes	N	
9-1-313.2	and recovers: 95% of H2S from refinery fuel gas, 95% of H2S	14	
	and ammonia from process water streams		
SIP	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)		
Regulation 9,	morganic Gaseous Fonutaints – Sumir Dioxide (0/8/99)		
Rule 1			
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing	Y	
9-1-313	more than 20,000 bbl/day of crude oil)	1	
9-1-313.2	operation of a sulfur removal and recovery system that removes	Y – note 1	
9-1-313.2	and recovers: 95% of H2S from refinery fuel gas, 95% of H2S	1 – note 1	
	and ammonia from process water streams		
BAAQMD	Continuous Emission Monitoring Policy and Procedures	Y	
Manual of	(1/20/82)	1	
Procedures,	(1/20/82)		
Volume V			
40 CFR 60	General Provisions (03/16/1994)		
Subpart A	(0.0/10/15/4)		
60.7	Notification and record keeping	Y	
60.7(a)(5)	Notification of beginning of demonstration of continuous monitoring	Y	
00.7(a)(3)	system	1	
60.7(b)	Records of startup, shutdown, or malfunction, malfunction of control	Y	
00.7(0)	equipment; or periods when CEM is inoperative	1	
60.7(a)		v	
60.7(c)	Excess emissions and monitoring systems reports	Y	İ

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

S302 - MOLTEN SULFUR PIT 230 AND S303 - MOLTEN SULFUR PIT 250 Federally			
Applicable	Regulation Title or	Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.7(d)	Format of summary report forms	Y	Date
60.7(f)	Records	Y	
60.8	Performance tests	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance determined by performance tests and CEM	Y	
60.11(d)	Good air pollution control practice	Y	
60.11(d)	applicable subpart shall supersede any conflicting provisions in	Y	
00.11(1)	paragraphs (a) through (e)	1	
60.11(g)	Credible evidence	Y	
60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
60.13(a)	CEMs subject to Appendices B and F	Y	
60.13(b)	Installation of CEMs before performance tests	Y	
60.13(d)(1)	Zero and span calibration drifts	Y	
60.13(e)	Continuous operation; minimum frequency of operation	Y	
60.13(e)(2)	Monitoring cycle every 15 minutes	Y	
60.13(f)	Representative measurements	Y	
60.19	General notification and reporting requirements	Y	
		_	
NSPS	Standards of Performance for Petroleum Refineries for which		
40 CFR 60	Construction, Reconstruction, or Modification Commenced		
Subpart Ja	After May 14, 2007 (11/26/18)		
60.100a(b)	Applicability to sources built after 5/14/07	Y	
60.102a	Emissions limitations	Y	
60.102a(a)	Compliance within 60 days of achieving maximum production rate	Y	
	or 180 days after initial startup		
60.102a(f)(1)	Standards for Sulfur Oxides	Y	
60.102a(f)(3)	Periods of maintenance for the sulfur pits	Y	
60.103a	Work Practice Standards	Y	
60.103a(c)(3)	Root cause analysis of any emission limit exceedance or process	Y	
	start-up, shutdown, upset, or malfunction that causes a discharge to		
	the atmosphere in excess 500 lb per day of SO2.		
60.103a(d)	Root cause analysis and corrective action analysis must be	Y	

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

Applicable Requirement	U2 - MOLTEN SULFUR PIT 236 AND S3U3 - MOLTEN S Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
- Trequirement	completed not later than 45 days after a discharge meeting the	(1/11)	Dute
	conditions specified in 60.103a(c)(3)		
60.103a(d)(1)	Root cause analysis for a single continuous discharge	Y	
60.103a(d)(5)	Root cause analysis for more than one affected facility in the same 24-hour period	Y	
60.103a(e)	Implementation of corrective action(s) identified pursuant to 60.103a(d)	Y	
60.104a	Performance tests	Y	
60.104a(a)	Initial performance test	Y	
60.104a(c)	Allowable performance tests	Y	_
60.104a(h)	Performance tests for SRUs	Y	
60.104a(h)(1)	Method 1 for sample and velocity traverses	Y	
60.104a(h)(2)	Method 2 for velocity and volumetric flow rate	Y	
60.104a(h)(3)	Method 3, 3A, or 3B for gas analysis	Y	
60.104a(h)(4)	Method 6, 6A, or 6C for SO2 concentration	Y	
60.104a(h)(5)	Method 15 or 15A for reduced sulfur compounds and H2S concentrations	Y	
60.106a	Monitoring of emissions and operations for sulfur recovery units	Y	
60.106a(a)	Continuous monitoring systems	Y	
60.106a(a)(1)	Continuous SO2 and O2 Monitoring systems	Y	
60.106a(b)	Excess emissions		
60.108a	Recordkeeping and reporting requirements.	Y	
60.108a(a)	Compliance with notification, recordkeeping, and reporting requirements in §60.7 and other requirements as specified in this section.	Y	
60.108a(b)	Notification to Administrator of monitoring option	Y	
60.108a(c)(6)	Notification of discharges greater than 500 lb SO2/day and discharge to flare greater than 500,000 scfd	Y	
60.108a(d)	Excess emissions reports	Y	
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	Specifications and Test Procedures for SO2 and NOX Continuous	Y	

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

Applicable Requirement Description of Requirement Effective Endorceable (Y/N) Date Specification Emission Monitoring Systems in Stationary Sources Quality Assurance Procedures Quality Assurance Procedures 40 CFR 63 National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic UtU Reforming Units, and Sulfur Recovery Units (12/01/15) 63.1561 Am I subject to this subpart? Y 63.1562(a) New, reconstructed, or existing affected sources Y 63.1563 When do I have to comply with this subpart? Y 63.1563 Deadline for existing sources-4/11/05 Y 63.1563 What are my requirements Y 63.1568(a) Emission limitations and work practice standards Y 63.1568(a) Emission limitations and work practice standards Y 63.1568(a) Sulfur Emission Limitation from Claus sulfur recovery units electing to meet NSPS Limits: 250 ppmvd SO2 at 0% excess air. (Table 29, Item 2.a) 63.1568(a) Options for compliance during periods of startup and shutdown Y 63.1568(a) Options for compliance during periods of startup and shutdown Y 63.1568(a) Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan 63.1568(b) Demonstrate Initial Compliance with Emission Limitation and Work Y 63.1568(b) Demonstrate Initial Compliance with Emission Limitation and Work Y 63.1568(b) Performance Test: measure SO2 concentration using CEMS every 15 minutes for 24 hours and reduce the data to 1-hr averages (Table 32, Item 1) 63.1568(b) Demonstrate Initial Compliance with Emission Limitation: Average Y 63.1568(b) Demonstrate Initial Compliance with Emission Limitation: Average Y 63.1568(b) Demonstrate Initial Compliance with Emission Limitation: Average Y 63.1568(b) Demonstrate Initial Compliance with Emission Limitation: Average Y 63.1568(b) Demonstrate Initial Compliance with Emission Limitation: Average Y 63.1568(b) Demonst	33	S302 – MOLTEN SULFUR PIT 236 AND S303 – MOLTEN SULFUR PIT 238			
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40 CFR 60 Appendix F 40 CFR 63 National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic UUU Reforming Units, and Sulfur Recovery Units (12/01/15) 63.1561 Am I subject to this subpart? New, reconstructed, or existing affected sources Y 63.1562(a) New, reconstructed, or existing affected sources Y 63.1563(b) Sulfur recovery units and tail gas treatment units Y 63.1563(b) Deadline for existing sources-4/11/05 Y 63.1563(c) Notification requirements Y 63.1568 What are my requirements for HAP emissions from sulfur recovery units? 63.1568(a) Emission limitations and work practice standards Y 63.1568(a) Sulfur Emission Limitation from Claus sulfur recovery units electing to meet NSPS Limits: 250 ppmvd SO2 at 0% excess air. (Table 29, Item 2.a) 63.1568(a)(3) Prepare Operation, Maintenance, and Monitoring Plan and operate at all times according to the procedures in the plan 63.1568(a)(4) Options for compliance during periods of startup and shutdown Y 63.1568(b) Demonstrate Initial Compliance with Emission Limitation and Work Practice Standard 63.1568(b)(1) Continuous Emission Monitoring System to measure and record hourly average SO2 concentration, with O2 monitor to correct excess air concentration (Table 31, Item 2.a) 63.1568(b)(2) Performance Test: measure SO2 concentration using CEMS every 15 minutes for 24 hours and reduce the data to 1-hr averages (Table 32, Item 1) 63.1568(b)(5) Demonstrate Initial Compliance with Emission Limitation: Average SO2 emissions measured by CEMS in initial performance test not					
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63.1568(b)(5) Demonstrate Initial Compliance with Emission Limitation: Average SO2 emissions measured by CEMS in initial performance test not					
SO2 emissions measured by CEMS in initial performance test not	63.1568(b)(5)		Y		
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IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

	02 - MOLTEN SULFUR III 230 AND 5303 - MOLTEN	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	meets applicable requirements (Table 33, Item 2.a)		
63.1568(b)(6)	Demonstrate initial compliance by submitting Operation,	Y	
	Maintenance, and Monitoring Plan		
63.1568(b)(7)	Submit Notice of Compliance Status	Y	
63.1568(c)	Demonstrate Continuous Compliance with Emission Limitation and	Y	
	Work Practice Standards		
63.1568(c)(1)	Demonstrate Continuous Compliance with Emission Limitation:	Y	
	collect hourly average SO2 monitoring data; maintain hourly		
	average below applicable limit; determine and record each 12-hour		
	concentration; report 12-hour concentration greater than applicable		
	limitation (Table 34, Item 2.a)		
63.1568(c)(2)	Demonstrate Continuous Compliance with Work Practice Standards	<u>Y</u>	
	by complying with the procedures in Operation, Maintenance, and		
	Monitoring Plan.		
63.1570	What are my general requirements for complying with this subpart?	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times	Y	
63.1570(c)	Operate and maintain source including pollution control and	Y	
	monitoring equipment ina manner consistent with safety and good		
	air pollution control practices for minimizing emissions.		
63.1570(d)	Between 4/11/05 and the date continuous monitoring systems are	Y	
	installed and validated and operating limits have been set, maintain a		
	log detailing operation and maintenance of process and equipment.		
63.1570(f)	Report deviations from compliance with this subpart according to	Y	
	the requirements of 63.1575		
63.1571	How and when do I conduct a performance test or other initial	Y	
	compliance demonstration?		
63.1571(a)	Conduct Performance Test and submit results no later than 150 days	Y	
	after compliance date		
63.1571(a)(1)	For emission limitation or work practice standard where compliance	Y	
	not demonstrated using performance test, opacity observation, or		
	visible emission observation, conduct initial compliance		
	demonstration within 30 days after compliance date		
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of	Y	

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

	02 – MOLTEN SULFUR PTI 230 AND S303 – MOLTEN S	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Requirement	63.7(e) and at maximum representative operating capacity for the	(1/14)	Date
	process.		
63.1571(b)(2)	Conduct three separate test runs of at least an hour for each	Y	
03.1371(0)(2)	performance test	1	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the	Y	
	requirements of 63.8(e)	-	
63.1571(b)(4)	Arithmetic average of emission rates	Y	
63.1572	What are my monitoring installation, operation, and maintenance	Y	
	requirements?		
63.1572(a)	Requirements for installation, operation, and maintenance of	Y	
	continuous emission monitoring system		
63.1572(a)(1)	SO2 CEMS must meet requirements of Performance Specification 2	Y	
	(40 CFR Part 60, App B) (Table 40, Item 4)		
63.1572(a)(2)	Conduct performance evaluation for SO2 CEMS according to	Y	
	Performance Specification 2 (Table 40, Item 4)		
63.1572(a)(3)	CEMS must complete one cycle of operation for each 15-minute	Y	
	period		
63.1572(a)(4)	Data reduction per 63.8(g)(2)	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct all monitoring in a continuous operation at all times the	Y	
	affected source is operating		
63.1572(d)(2)	Data recorded during QA/QC activities (including calibration checks	Y	
	and required zero and span adjustments) not used for compliance		
	purposes		
63.1573	What are my monitoring alternatives?	Y	
63.1573(e)	Monitoring for alternative parameters (optional)	Y	
63.1573(f)	Alternative Monitoring Requests (optional)	Y	
63.1574	What notifications must I submit and when?	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(1)	Notifications of reconstruction	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days	Y	
	before scheduled (instead of 60 days)		
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)	Submit Notification of Compliance Status for initial compliance	Y	

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
(ii)	demonstration that includes a performance test, no later than 150		
	days after source compliance date		
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table	Y	
	42): identification of affected sources and emission points (Item 1);		
	initial compliance demonstration (Item 2); continuous compliance		
	(Item 3)		
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring	Y	
	Plan		
63.1574(f)(1)	Submit plan to permitting authority for review and approval along	Y	
	with notification of compliance status. Include duty to prepare and		
	implement plan into Part 70 or 71 permit.		
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(2)(Procedures for monitoring emissions and process and control device	Y	
ii)	operating parameters for each affected source.		
63.1574(f)(2)(Monitoring schedule	Y	
viii)			
63.1574(f)(2)(Quality control plan for continuous emission monitor	Y	
ix)			
63.1574(f)(2)(Maintenance schedule for monitoring systems and control devices	Y	
x)			
63.1575	What reports must I submit and when?	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report	Y	
	including information in 63.1575(c) through (e) (Table 43, Item 1)		
	on a semi-annual basis;		
	Performance test and CEMS performance evaluation data (Table 43,		
	Item 2) within 60 days after the test completion date according to		
	63.1575(k)		
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and	Y	
	work practice standards where CEMS or COMS is not used to		
	comply with emission limitation or work practice standard		
63.1575(e)	Information required for deviations from emission limitations and	Y	
	work practice standards where CEMS or COMS is used to comply		

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

	02 – MOLTEN SULFUR PTI 230 AND S303 – MOLTEN S	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
requirement	with emission limitation or work practice standard	(2/11)	Dute
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(f)(2)	Submittal of requested change in the applicability of an emission	Y	
03.1373(1)(2)	standard	1	
63.1575(g)	Submittal of reports required by other regulations in place of or as	Y	
	part of compliance report if they contain the required information		
63.1575(k)	Electronic submittal of performance test and CEMS performance	Y	
	evaluation data		
63.1575(k)(1)	Submittal of performance test results within 60 days	Y	
63.1575(k)(2)	Submittal of CEMS performance evaluation data within 60 days	Y	
63.1576	What records must I keep, in what form, and for how long?	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for CEMs	Y	
63.1576(b)(1)	Records described in §63.10(b)(2)(vi) through (xi).	Y	
63.1576(b)(3)	Performance evaluation plan as required in §63.8(d)(2).	Y	
63.1576(b)(4)	Requests for alternatives to the relative accuracy test for continuous	Y	
	emission monitoring systems as required in §63.8(f)(6)(i).		
63.1576(b)(5)	Records of the date and time that each deviation started and stopped.	Y	
63.1576(d)	Records required by Tables 34 and 35 of Subpart UUU	Y	
63.1576(e)	Maintain copy of operation, maintenance, and monitoring plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for 2 years; may be maintained offsite for remaining	Y	
	3 years		
BAAQMD			
Condition			
18255			
Part 13	Tail Gas Root Cause Analysis [Basis: Consent Decree Case No. 05-	Y	
	0258, paragraph 152]		
BAAQMD			
Condition			
19278			

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

	02 - WOLTEN SULFUR I II 230 AND 3303 - WOLTEN	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 3	Annual source test to verify SO3 and H2SO4 exhaust	Y	
	concentrations. [Basis: Regulation 6-330]		
Part 4	Visible emissions monitoring for particulate [Basis: Regulation	Y	
	2-6-503]		
Part 5	Source test within 90 days of issuance of Major Facility Review	Y	
	permit pursuant to Application 10994; Annual testing [2-6-503]		
Part 6	Daily and annual throughput limits for S1002 and S1003	Y	
	[Cumulative Increase]		
BAAQMD	APPLIES TO S1002, S1003 ONLY		
Condition			
21099			
Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y	
Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y	
Part 3	Centrifugal compressor requirements [Basis: BACT]	Y	
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y	
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y	
Part 6	ULSD project component count report requirement [Basis: BACT,	Y	
	Cumulative Increase, Toxic Management Policy]		
BAAQMD	APPLIES TO S301, S302, S303		
Condition			
22964			
Part 1	Throughput limit for S301, S302, S303 [Cumulative Increase]	<u>Y</u>	
Part 4	Abatement requirement for S301 [Consent Decree Case No. 05-	<u>Y</u>	
	0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-		
	0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR		
	60.104(a)(2)(i)]		
Part 5	Abatement requirement for S302 [Consent Decree Case No. 05-	<u>Y</u>	
	0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-		
	0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR		
	60.104(a)(2)(i)]		
Part 6	Abatement requirement for S303 [Consent Decree Case No. 05-	<u>Y</u>	
	0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-		
	0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR		

IV. Source Specific Applicable Requirements

Table IV – Ua Source-specific Applicable Requirements \$1002 – SULFUR PLANT UNIT 236

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
	60.104(a)(2)(i)]		
Part 7	Maintenance allowance for sulfur pits [Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07]	<u>Y</u>	
Part 8	Recordkeeping [Cumulative Increase]	Y	

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – Ub
Source-specific Applicable Requirements
S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR PLANT UNIT

	,	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	For additional requirements for S1010, see Table IV-I.1		
BAAQMD	General Provisions and Definitions (<u>5/4/11</u>)		
Regulation 1			
1-501	Sampling Facilities	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.4	CEMS for SO2	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures		
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by	Y	
	District		

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
1-523	Parametric Monitoring and Recordkeeping Procedures	N	Date
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2		Y	
1-523.3	Limits on periods of inoperation	+	
	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1		7.71	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y ¹	
1-522.7	emission limit exceedance reporting requirements	Y ¹	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y ¹	
1-523.3	Reports of Violations	Y ¹	
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-114.2	Exemption from 6-1-310.2 and 311.2 emission limits	N	
6-1-114.3	Exemption from 6-1-504 source testing requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
(applies only			
to S1010)			
6-1-311.1	Total Suspended Particulate (TSP) Weight Limits	N	
(applies only to S1010)			
6-1-330	Sulfur Recovery Units (SO3, H2SO4 emission limitations)	N	
6-1-401	Appearance of Emissions	N N	
6-1-505	Determination of SO3 and Sulfuric Acid Mist Compliance	N N	
(applies only	Determination of 303 and Surfure Acid Wist Compitance	14	
to S1010)			
6-1-602	Methods for Determining Compliance	N	
(applies only	Themoso for Determining compliance		
to S1010)			
	D (* 14 M (4 177 11 E * * * (0/4/00)		
SIP	Particulate Matter and Visible Emissions (9/4/98)		

IV. Source Specific Applicable Requirements

	Federally	Future
		Effective
		Date
Ringelmann #1 Limitation	Y	
Visible Particles	Y	
Particulate Weight Limitation	Y	
General Operations	Y	
Sulfur Recovery Units (SO3, H2SO4 emission limitations)	Y	
Appearance of Emissions	Y	
Inorganic Gaseous Pollutants – Sulfur Dioxide (11/3/21)		
Emission Limitations for Sulfur Recovery Plants	Y	
Sulfur Removal Operations at Petroleum Refineries (processing	N	
more than 20,000 bbl/day of crude oil)		
operation of a sulfur removal and recovery system that removes	N	
and recovers: 95% of H2S from refinery fuel gas, 95% of H2S		
and ammonia from process water streams (sulfur recovery is		
required when a facility removes 16.5 ton/day or more of		
elemental sulfur).		
Emission Monitoring Requirements	Y	
Emission Monitoring	Y	
Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)		
Sulfur Removal Operations at Petroleum Refineries (processing	Y	
	Y – note 1	
• •		
•		
	Y	
200200 2000 2000 0000 00000000000000000		
Continuous Emission Monitoring Policy and Procedures	Y	
· •		
	i	
	Particulate Weight Limitation General Operations Sulfur Recovery Units (SO3, H2SO4 emission limitations) Appearance of Emissions Inorganic Gaseous Pollutants – Sulfur Dioxide (11/3/21) Emission Limitations for Sulfur Recovery Plants Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil) operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur). Emission Monitoring Requirements Emission Monitoring	Regulation Title or Description of Requirement Enforceable (Y/N) Ringelmann #1 Limitation Y Visible Particles Y Particulate Weight Limitation Y General Operations Y Sulfur Recovery Units (SO3, H2SO4 emission limitations) Y Appearance of Emissions Y Inorganic Gaseous Pollutants – Sulfur Dioxide (11/3/21) Y Emission Limitations for Sulfur Recovery Plants Y Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil) N operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur). Y Emission Monitoring Requirements Y Emission Monitoring at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil) Y operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams Y - note 1 Source Test Policy and Procedures (1/20/82) Y

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Subpart A			
60.7	Notification and record keeping	Y	
60.7(a)(5)	Notification of beginning of demonstration of continuous monitoring	Y	
	system		
60.7(b)	Records of startup, shutdown, or malfunction, malfunction of control	Y	
	equipment; or periods when CEM is inoperative		
60.7(c)	Excess emissions and monitoring systems reports	Y	
60.7(d)	Format of summary report forms	Y	
60.7(f)	Records	Y	
60.8	Performance tests	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.11(a)	Compliance determined by performance tests and CEM	Y	
60.11(d)	Good air pollution control practice	Y	
60.11(f)	applicable subpart shall supersede any conflicting provisions in	Y	
60.11(a)	paragraphs (a) through (e) Credible evidence	Y	
60.11(g) 60.12	Circumvention	Y	
60.13	Monitoring requirements	Y	
	CEMs subject to Appendices B and F	Y	
60.13(a)		Y	
60.13(b) 60.13(d)(1)	Installation of CEMs before performance tests Zero and span calibration drifts	Y	
	-	Y	
60.13(e)	Continuous operation; minimum frequency of operation	Y	
60.13(e)(2)	Monitoring cycle every 15 minutes		
60.13(f)	Representative measurements	Y	
60.19	General notification and reporting requirements Standards of Performance for Petroleum Refineries for which	Y	
NSPS 40 CFR 60	Construction, Reconstruction, or Modification Commenced		
Subpart Ja	After May 14, 2007 (11/26/18)		
60.100a(b)	Applicability to sources built after 5/14/07	Y	
60.102a	Emissions limitations	Y	
60.102a(a)	Compliance within 60 days of achieving maximum production rate	Y	
(w)	or 180 days after initial startup	-	
60.102a(f)(1)	Standards for Sulfur Oxides	Y	
60.102a(f)(3)	Periods of maintenance for the sulfur pits	Y	
60.103a	Work Practice Standards	Y	

IV. Source Specific Applicable Requirements

	S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.103a(c)(3)	Root cause analysis of any emission limit exceedance or process	Y	
	start-up, shutdown, upset, or malfunction that causes a discharge to		
	the atmosphere in excess 500 lb per day of SO2.		
60.103a(d)	Root cause analysis and corrective action analysis must be	Y	
	completed not later than 45 days after a discharge meeting the		
	conditions specified in 60.103a(c)(3)		
60.103a(d)(1)	Root cause analysis for a single continuous discharge	Y	
60.103a(d)(5)	Root cause analysis for more than one affected facility in the same	Y	
	24-hour period		
60.103a(e)	Implementation of corrective action(s) identified pursuant to	Y	
	60.103a(d)		
60.104a	Performance tests	Y	
60.104a(a)	Initial performance test	Y	
60.104a(c)	Allowable performance tests	Y	
60.104a(h)	Performance tests for SRUs	Y	
60.104a(h)(1)	Method 1 for sample and velocity traverses	Y	
60.104a(h)(2)	Method 2 for velocity and volumetric flow rate	Y	
60.104a(h)(3)	Method 3, 3A, or 3B for gas analysis	Y	
60.104a(h)(4)	Method 6, 6A, or 6C for SO2 concentration	Y	
60.104a(h)(5)	Method 15 or 15A for reduced sulfur compounds and H2S	Y	
, , , ,	concentrations		
60.106a	Monitoring of emissions and operations for sulfur recovery units	Y	
60.106a(a)	Continuous monitoring systems	Y	
60.106a(a)(1)	Continuous SO2 and O2 Monitoring systems	Y	
60.106a(b)	Excess emissions	Y	
60.108a	Recordkeeping and reporting requirements.	Y	
60.108a(a)	Compliance with notification, recordkeeping, and reporting	Y	
()	requirements in §60.7 and other requirements as specified in this		
	section.		
60.108a(b)	Notification to Administrator of monitoring option	Y	
60.108a(c)(6)	Notification of discharges greater than 500 lb SO2/day and	Y	
	discharge to flare greater than 500,000 scfd		
60.108a(d)	Excess emissions reports	Y	
40.000 40			
40 CFR 60	Standards of Performance for VOC Emissions from Petroleum	Y	

IV. Source Specific Applicable Requirements

	S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Subpart	Refinery Wastewater Systems (8/18/95) APPLIES TO S1010		
QQQ	ONLY. See Table IV-I.1		
NSPS	Performance Specifications		
40 CFR 60			
Appendix B			
Performance	Specifications and Test Procedures for SO2 and NOX Continuous	Y	
Specification	Emission Monitoring Systems in Stationary Sources		
2			
NSPS	Quality Assurance Procedures		
40 CFR 60			
Appendix F			
40 CFR 63	National Emission Standards for Hazardous Pollutants for	Y	
Subpart	Petroleum Refineries: Catalytic Cracking Units, Catalytic		
UUU	Reforming Units, and Sulfur Recovery Units (12/01/15)		
63.1561	Am I subject to this subpart?	Y	
63.1562(a)	New, reconstructed, or existing affected sources	Y	
63.1562(b)(3)	Sulfur recovery units and tail gas treatment units	Y	
63.1563	When do I have to comply with this subpart?	Y	
63.1563(b)	Deadline for existing sources-4/11/05	Y	
63.1563(e)	Notification requirements	Y	
63.1568	What are my requirements for HAP emissions from sulfur recovery	Y	
	units?		
63.1568(a)	Emission limitations and work practice standards	Y	
63.1568(a)(1)	Sulfur Emission Limitation from Claus sulfur recovery units	Y	
(i)	electing to meet NSPS Limits: 250 ppmvd SO2 at 0% excess air.		
	(Table 29, Item 2.a)		
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate	Y	
	at all times according to the procedures in the plan		
63.1568(a)(4)	Options for compliance during periods of startup and shutdown	Y	
63.1568(b)	Demonstrate Initial Compliance with Emission Limitation and Work	Y	
	Practice Standard		
63.1568(b)(1)	Continuous Emission Monitoring System to measure and record	Y	
	hourly average SO2 concentration, with O2 monitor to correct		
	excess air concentration (Table 31, Item 2.a)		

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.1568(b)(2)	Performance Test: measure SO2 concentration using CEMS every	Y	
	15 minutes for 24 hours and reduce the data to 1-hr averages (Table		
	32, Item 1)		
63.1568(b)(5)	Demonstrate Initial Compliance with Emission Limitation: Average	Y	
	SO2 emissions measured by CEMS in initial performance test not		
	greater than 250 ppmvd at 0% excess O2, and monitoring system		
	meets applicable requirements (Table 33, Item 2.a)		
63.1568(b)(6)	Demonstrate initial compliance by submitting Operation,	Y	
	Maintenance, and Monitoring Plan		
63.1568(b)(7)	Submit Notice of Compliance Status	Y	
63.1568(c)	Demonstrate Continuous Compliance with Emission Limitation and	Y	
	Work Practice Standards		
63.1568(c)(1)	Demonstrate Continuous Compliance with Emission Limitation:	Y	
	collect hourly average SO2 monitoring data; maintain hourly		
	average below applicable limit; determine and record each 12-hour		
	concentration; report 12-hour concentration greater than applicable		
	limitation (Table 34, Item 2.a)		
63.1568(c)(2)	Demonstrate Continuous Compliance with Work Practice Standards	Y	
	by complying with the procedures in Operation, Maintenance, and		
	Monitoring Plan.		
63.1570	What are my general requirements for complying with this subpart?	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times	Y	
63.1570(c)	Operate and maintain source including pollution control and	Y	
	monitoring equipment in a manner consistent with safety and good		
	air pollution control practices for minimizing emissions.		
63.1570(d)	Between 4/11/05 and the date continuous monitoring systems are	Y	
	installed and validated and operating limits have been set, maintain a		
	log detailing operation and maintenance of process and equipment.		
63.1570(f)	Report deviations from compliance with this subpart according to	Y	
	the requirements of 63.1575		
63.1571	How and when do I conduct a performance test or other initial	Y	
	compliance demonstration?		
63.1571(a)	Conduct Performance Test and submit results no later than 150 days	Y	
	after compliance date		
63.1571(a)(1)	For emission limitation or work practice standard where compliance	Y	

IV. Source Specific Applicable Requirements

	S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
-	not demonstrated using performance test, opacity observation, or	· , , , , , , , , , , , , , , , , , , ,	
	visible emission observation, conduct initial compliance		
	demonstration within 30 days after compliance date		
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of	Y	
	63.7(e) and at maximum representative operating capacity for the		
	process.		
63.1571(b)(2)	Conduct three separate test runs of at least an hour for each	Y	
	performance test		
63.1571(b)(3)	Conduct each performance evaluation in accordance with the	Y	
	requirements of 63.8(e)		
63.1571(b)(4)	Arithmetic average of emission rates	Y	
63.1572	What are my monitoring installation, operation, and maintenance	Y	
	requirements?		
63.1572(a)	Requirements for installation, operation, and maintenance of	Y	
	continuous emission monitoring system		
63.1572(a)(1)	SO2 CEMS must meet requirements of Performance Specification 2	Y	
	(40 CFR Part 60, App B) (Table 40, Item 4)		
63.1572(a)(2)	Conduct performance evaluation for SO2 CEMS according to	Y	
	Performance Specification 2 (Table 40, Item 4)		
63.1572(a)(3)	CEMS must complete one cycle of operation for each 15-minute	Y	
	period		
63.1572(a)(4)	Data reduction per 63.8(g)(2)	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct all monitoring at all times in a continuous operation at all	Y	
	times the affected source is operating		
63.1572(d)(2)	Data recorded during QA/QC activities (including calibration checks	Y	
	and required zero and span adjustments) not used for compliance		
	purposes		
63.1573	What are my monitoring alternatives?	Y	
63.1573(e)	Monitoring for alternative parameters (optional)	Y	
63.1573(f)	Alternative Monitoring Requests (optional)	Y	
63.1574	What notifications must I submit and when?	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(1)	Notifications of reconstruction	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)	Submit Notification of Compliance Status for initial compliance	Y	
(ii)	demonstration that includes a performance test, no later than 150		
. ,	days after source compliance date		
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table	Y	
	42): identification of affected sources and emission points (Item 1);		
	initial compliance demonstration (Item 2); continuous compliance		
	(Item 3)		
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along	Y	
	with notification of compliance status. Include duty to prepare and		
	implement plan into Part 70 or 71 permit.		
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(2)(Procedures for monitoring emissions and process and control device	Y	
ii)	operating parameters for each affected source.		
63.1574(f)(2)(Monitoring schedule	Y	
viii)			
63.1574(f)(2)(Quality control plan for continuous emission monitor	Y	
ix)			
63.1574(f)(2)(Maintenance schedule for monitoring systems and control devices	Y	
x)			
63.1575	What reports must I submit and when?	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report	Y	
	including information in 63.1575(c) through (e) (Table 43, Item 1)		
	on a semi-annual basis;		
	Performance test and CEMS performance evaluation data (Table 43,		
	Item 2) within 60 days after the test completion date according to		
	63.1575(k)		
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and	Y	
	work practice standards where CEMS or COMS is not used to		

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
	comply with emission limitation or work practice standard		
63.1575(e)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(f)(2)	Submittal of requested change in the applicability of an emission standard	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(k)	Electronic submittal of performance test and CEMS performance evaluation data	Y	
63.1575(k)(1)	Submittal of performance test results within 60 days	Y	
63.1575(k)(2)	Submittal of CEMS performance evaluation data within 60 days	Y	
63.1576	What records must I keep, in what form, and for how long?	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for CEMs	Y	
63.1576(b)(1)	Records described in §63.10(b)(2)(vi) through (xi).	Y	
63.1576(b)(3)	Performance evaluation plan as required in §63.8(d)(2).	Y	
63.1576(b)(4)	Requests for alternatives to the relative accuracy test for continuous emission monitoring systems as required in §63.8(f)(6)(i).	Y	
63.1576(b)(5)	Records of the date and time that each deviation started and stopped.	Y	
63.1576(d)	Records required by Tables 34 and 35 of Subpart UUU	Y	
63.1576(e)	Maintain copy of operation, maintenance, and monitoring plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for 2 years; may be maintained offsite for remaining 3 years	Y	
40 CFR 64	Compliance Assurance Monitoring (10/27/97)	Y	
64.2(a)	General Applicability	Y	
64.3	Monitoring design criteria	Y	
64.3(a)(1)	One or more indicators or emissions	Y	
64.3(a)(2)	Appropriate range	Y	
64.3(a)(3)(i)	Indicator based on a single minimum value (for temperature	Y	

IV. Source Specific Applicable Requirements

Applicable	S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Kequii einent	monitoring)	(1/14)	Date
64.2(b)		V	
64.3(b)	Performance criteria	Y	
64.3(b)(1)	Requirement for specifications that provide for obtaining data that	Y	
C4.2(L)(1)	are representative of the parameters (for temperature monitor) Requirement for specifications that provide for obtaining data that	Y	
64.3(b)(1)	are representative of the emissions (for CO and SO2 CEMs, use	1	
	BAAQMD Manual of Procedures Volume V, approval from District		
	Source Test Group)		
64.3(b)(2)	Verification procedures	Y	
64.3(b)(3)	Quality assurance and control practices	Y	
64.3(b)(4)	Specifications for frequency	Y	
64.3(c)	Evaluation factors	Y	
64.3(d)	Special criteria for the use of continuous emission, opacity or	Y	
04.3(u)	predictive monitoring systems	1	
64.4	Submittal Requirements	Y	
64.4(a)	Submittal information (applies to temperature monitor)	Y	
64.4(a)(1)	Indicators to be monitored (applies to temperature monitor)	Y	
64.4(a)(1)	Ranges or designated conditions (applies to temperature monitor)	Y	
	Performance criteria (applies to temperature monitor)	Y	
64.4(a)(3)			
64.4(b)	Presumptively acceptable monitoring (applies to CO and SO2 CEMs)	Y	
64.4(b)(2)	Use of CEMs (applies to CO and SO2 CEMs)	Y	
64.4(c)(1)	Verification during source tests	Y	
64.4(c)(2)	Documentation of no change to control device	Y	
64.4(d)	Submittal of test plan	Y	
64.4(e)	Implementation plan and schedule for installing, testing and	Y	
	performing		
64.5	Deadlines for submittals	Y	
64.5(b)	Other pollutant-specific units	Y	
64.6	Approval of monitoring	Y	
64.6(b)	Conditions for approval	Y	
64.6(c)	Establishment of permit terms	Y	
64.6(d)	Enforceable schedule	Y	
64.7	Operation of approved monitoring	Y	
64.7(a)	Commencement of monitoring	Y	

IV. Source Specific Applicable Requirements

	5405, MOLTEN SULFUR PIT; S1010 – 0255 SULFUR		E-4
		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
64.7(b)	Maintenance	Y	
64.7(c)	Continued operation	Y	
64.7(d)	Response to exceedances or excursions	Y	
64.7(e)	Documentation of need for improved monitoring	Y	
64.9	Reporting and recordkeeping requirements	Y	
64.10	Savings provisions	Y	
BAAQMD			
Condition			
18255			
Part 13	Tail Gas Root Cause Analysis [Basis: Consent Decree Case No. 05-	Y	
	0258, paragraph 152]		
BAAQMD			
Condition			
22964			
Part 2	Annual throughput limit at S465 [Cumulative increase]	Y	
Part 3	Control of S465, Sulfur Pit, by S1010 [Cumulative increase, 40 CFR	Y	
	60.104(b)]		
Part 9	Recordkeeping [Cumulative increase]	Y	
BAAQMD			
Condition			
22970			
Part A.1	Applicability of Condition 22970 [Cumulative increase, PSD]	Y	
Part A.2a	Annual NOx limit for S45, Heater, S434, U246 High Pressure	Y	
	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative		
	increase]		
Part A.2b	Annual SO2 limit for S45, Heater, S434, U246 High Pressure	Y	
	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative		
	increase]		
Part A.2c	Annual PM10 limit for S45, Heater, S434, U246 High Pressure	Y	
_ 310 1 1.20	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative	•	
	increase, PSD]		
Part A.2d	Annual POC limit for S45, Heater, S434, U246 High Pressure	Y	
1 411 / 1.24	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative	1	
	reactor fram, and 51010, Sunta Recovery Unit [Cumulative		

IV. Source Specific Applicable Requirements

S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR PLANT UNIT				
		Federally	Future	
Applicable	Regulation Title or	Enforceable	Effective	
Requirement	Description of Requirement	(Y/N)	Date	
	increase]			
Part A.2e	Annual CO limit for S45, Heater, S434, U246 High Pressure	Y		
	Reactor Train; and S1010, Sulfur Recovery Unit [Cumulative			
	increase]			
Part A.2f	Annual sulfuric acid mist limit for S45, Heater, S434, U246 High	Y		
	Pressure Reactor Train; and S1010, Sulfur Recovery Unit [PSD]			
Part A.2g	Annual ammonia limit for S45, Heater, S434, U246 High Pressure	N		
	Reactor Train; and S1010, Sulfur Recovery Unit [BAAQMD			
	Regulation 2, Rule 5]			
Part A.3	Daily sulfuric acid mist limit for S45, Heater, S434, U246 High	Y		
	Pressure Reactor Train; and S1010, Sulfur Recovery Unit at Facility			
	A0016 and S2 at B7419. [PSD]			
Part A.4.b	Determination of compliance with Part A.2 [Cumulative increase,	Y		
	PSD, BAAQMD Regulation 2, Rule 5]			
Part A.4.b.i	Use of data from SO2 and CO CEMs	Y		
Part A.4.b.ii	Use of data from annual source tests for NOx and sulfuric acid mist	Y		
Part A.4.b.iii	Use of data from annual source tests for ammonia	N		
Part A.4.b.iv	Use of data from initial source tests for POC and PM10	Y		
Part A.5	Additional offsets and PSD analysis, if necessary [Offsets, PSD]	Y		
Part A.6	Annual PM10 limit for S45, S434, and S1010 at Facility A0016, and	Y		
	S2 and S3 at Facility B7419 [1-104, 2-2-304]			
Part B	Offset Report [2-1-403, 2-2-410]	Y		
BAAQMD				
Condition				
23125				
Part 1	Throughput limit [Cumulative Increase]	Y		
Part 3	Abatement requirement [Cumulative Increase]	Y		
Part 4	Control requirement for S503, S504, and S505 [Cumulative	Y		
	Increase, 2-1-305]			
Part 5	Pressure relief devices [8-28-302, BACT]	Y		
Part 6	Requirement for use of natural gas as supplemental fuel at	Y		
	incinerator [BACT]			
Part 7a	Concentration limit for SO2 [BACT]	Y		
Part 7b	Concentration limit for CO [BACT]	Y		

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 7c	Concentration limit for NOx [BACT]	Y	
Part 8a	Concentration limit for NH3 [Regulation 2, Rule 5]	N	
Part 8b	Concentration limit for H2S [Regulation 2, Rule 5]	N	
Part 9a	Hourly mass emission limit for NOx [2-1-305]	Y	
Part 9b	Hourly mass emission limit for H2S [Regulation 2, Rule 5]	N	
Part 9c	Hourly mass emission limit for NH3 [Regulation 2, Rule 5]	N	
Part 10a	Daily mass emission limit for sulfuric acid mist [PSD]	Y	
Part 10b	Daily mass emission limit for PM10 [2-1-301]	Y	
Part 11a	Annual mass emission limit for SO2 [BACT, Cumulative Increase]	Y	
Part 11b	Annual mass emission limit for NH3 [Regulation 2, Rule 5]	Y	
Part 11c	Annual mass emission limit for CO [BACT, Cumulative Increase]	Y	
Part 11d	Annual mass emission limit for NOx [BACT, Cumulative Increase]	Y	
Part 11e	Annual mass emission limit for POC [Cumulative Increase]	Y	
Part 11f	Annual mass emission limit for PM10 [Cumulative Increase]	Y	
Part 11g	Annual mass emission limit for sulfuric acid mist [2-1-301]	Y	
Part 11h	Annual mass emission limit for H2S [Regulation 2, Rule 5]	N	
Part 11i	Annual mass emission limit for total reduced sulfur [PSD]	Y	
Part 11j	Annual mass emission limit for reduced sulfur compounds [PSD]	Y	
Part 11k	Annual mass emission limit for H2S [PSD]	Y	
Part 12	Approval of source test ports [1-501]	Y	
Part 13	Source test requirements [BACT, Cumulative Increase; Regulation	Y	
	2, Rule 5; BAAQMD Regulation 6; PSD, 40 CFR 64.6(d)]		
Part 14	Minimum temperature requirement [Offsets, 40 CFR 64]	Y	
Part 15	Temperature measurement requirement [1-521, 40 CFR 64.6(d)]	Y	
Part 16	Temperature excursions [2-1-403]	Y	
Part 17	Recordkeeping for allowable temperature excursions [2-1-403]	Y	
Part 18	Temperatures above the limit [2-1-403]	Y	
Part 19	Submission of source test protocols [[BACT, Cumulative Increase;	Y	
	Regulation 2, Rule 5]		
Part 20a	Annual source test to demonstrate compliance with BAAQMD	Y	
	Regulation 6-1-310 and SIP Regulation 6-310		
Part 20b	Annual source test to demonstrate compliance with BAAQMD	Y	
	Regulation 6-1-311.1 and SIP Regulation 6-311		
Part 20c	Annual source test to demonstrate compliance with BAAQMD	Y	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
	Regulation 6-1-330 and SIP Regulation 6-330		
Part 20d	Annual source test to demonstrate compliance with emission rates in	Y	
	parts 7c, 8a, 8b, 9a, 9b, and 9c of this condition [BACT, PSD,		
	Regulation 2, Rule 5, Cumulative Increase]		
Part 20e	Annual source test to determine emission rates of sulfuric acid mist,	Y	
	total reduced sulfur, and reduced sulfur compounds [PSD,		
	Regulation 2, Rule 5]		
Part 21	SO2 and O2 CEMS [BACT, Cumulative Increase, 40 CFR 60.105a;	Y	
	40 CFR 64.6(c)(1), (c)(3), and (d); 40 CFR 63.1568(a)(1)(i)]		
Part 22	Flow monitor and CO CEM [BACT, cumulative increase; 40 CFR	Y	
	64.6(c)(1) and (d)]		
Part 24	Daily throughput records [Cumulative increase]	Y	
Part 25	Determination of compliance [Cumulative increase; Regulation 2,	Y	
	Rule 5; Cumulative Increase, PSD]		
Part 26	Visible emissions check [Basis: BAAQMD Regulations 6-1-301, 2-	Y	
	1-403]		
Part 27	Location and installation of temperature monitor [40 CFR	Y	
	64.3(b)(1)]		
Part 28	Verification procedures for temperature monitor [40 CFR	Y	
	64.3(b)(2)]		
Part 29	Quality assurance and control practices for temperature monitor [40	Y	
D 20	CFR 64.3(b)(3)]	v	
Part 30	Frequency of temperature measurement, alternate H2S analysis [40 CFR 64.3(b)(4)]	Y	
Part 31	Determination of temperature exceedances [40 CFSR 64.6(c)(2)]	Y	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – Uc Source-specific Applicable Requirements S503, SULFUR STORAGE TANK; S504, SULFUR DEGASSING UNIT; AND S505, SULFUR LOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Condition			
23125			
Part 2	Sulfur throughput at S503 [Cumulative increase]	Y	
Part 4	Control requirement for S503, S504, and S505 [Cumulative increase, 2-1-305]	Y	
Part 24	Throughput records for S503 [Cumulative increase]	Y	

Table IV – V Source-specific Applicable Requirements S370 – ISOMERIZATION UNIT 228

		Federally	Future	
Applicable	Regulation Title or	Enforceable	Effective	
Requirement	Description of Requirement	(Y/N)	Date	
BAAQMD	Organic Compounds – Process Vessel Depressurization (11/3/21)			
Regulation 8,				
Rule 10				

IV. Source Specific Applicable Requirements

Table IV – V Source-specific Applicable Requirements S370 – ISOMERIZATION UNIT 228

	S570 – ISOMERIZATION UNIT 228	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to	N	
	release to atmosphere		
8-10-302.2	Organic compound concentration of a refinery process vessel may	N	
	exceed 10,000 ppm prior to release to atmosphere provided total		
	number of such vessels during 5-year period does not exceed 10%		
8-10-401	Turnaround Records. Annual report due February 1 of each year	N	
	with initial report of process vessels due 4/1/2004.		
8-10-501	Monitoring prior to and during process vessel opening	Y	
8-10-502	Concentration measurement using EPA Method 21	Y	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP	Organic Compounds – Process Vessel Depressurization		
Regulation 8,	(10/03/84)		
Rule 10			
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented	Y	
	through a knock-out pot and then abated in one of the following		
	ways, to as low a vessel pressure as possible, but at least until		
	pressure is reduced to less than 1000 mm Hg:		
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each	Y	
	process unit turnaround, and retained for at least 2 years and made		
	available to the District on demand during inspections:		
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to	Y	
	atmosphere begin		
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD			
Condition			
12121			
Part 1	Daily feed rate limit [Basis: Cumulative Increase]	Y	
Part 2	Daily feed rate records [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV – V Source-specific Applicable Requirements S370 – ISOMERIZATION UNIT 228

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Throughput limits for S370 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part			
A			

Table IV – W Source-specific Applicable Requirements \$380 – ACTIVATED CARBON SILO (P-204)

	S380 – ACTIVATED CARBON SILO (P-204	<u> </u>	
		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6,			
Rule 1			
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311.1	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			
Condition			
18251			
Part 1a	Abatement requirement [Basis: Regulation 2-1-234]	Y	
Part 2a	Differential pressure monitor requirement [Basis: Regulation 1-	Y	
	441]		
Part 2b	Baghouse differential pressure monitoring requirement [Basis:	Y	
	Regulation 1-441]		
Part 3	Differential pressure recordkeeping requirement [Basis: Regulation	Y	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – W Source-specific Applicable Requirements S380 – ACTIVATED CARBON SILO (P-204)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	1-441]		
BAAQMD	Throughput limits for S380 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part			
A			

Facility Name: Phillips 66-San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – X Source-specific Applicable Requirements S462 – U-215 FUEL GAS CAUSTIC TREATMENT SYSTEM S463 – U-215 BUTANE CAUSTIC TREATMENT SYSTEM

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Throughput limits for S462, S463 [Basis: 2-1-234.3]	Y	
Condition			
20989, Part			
A			
BAAQMD			
Condition			
21099			
Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y	
Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y	
Part 3	Centrifugal compressor requirements [Basis: BACT]	Y	
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y	
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y	
Part 6	ULSD project component count report requirement [Basis: BACT,	Y	
	Cumulative Increase, Toxic Management Policy]		

IV. Source Specific Applicable Requirements

Table IV- AA
Fugitive Sources: Applicable Requirements

			i ugitiv	bources.	Аррисави	requiren	icites			
Process Unit	BAAQMD Regulation 8, Rule 18	BAAQMD Regulation 8, Rule 28	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10, Rule 59	NSPS Part 60, Subpart QQQ; BAAQMD Regulation 10, Rule 69	NSPS Part 60, Subpart VV; BAAQMD Regulation 10, Rule 52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Regulation 11, Rule 12	NESHAPS Part 61, Subpart V; BAAQMD Regulation 11, Rule 7	NESHAPS Part 63, Subpart H	NESHAPS Part 63, Subpart CC
Refinery-wide applicability	Y	Y	N	N	N	N	Y	N	N	Y
Specific unit applicability	*7	V		N	W.	.				
U240 Unicracking Unit (S307)	Y	Y	Y (GGGa)	N	Y (VVa)	N	N	N		Y
U244 Reforming Unit (S308)	Y	Y	N	N	N	N	N	N		Y
U248 UNISAR Unit (S309)	Y	Y	N	N	N	N	N	N		Y
U76 Gasoline/Mid Barrel Blending Unit (S318)	Y	N	N	N	Y	N	N	N		Y
Unit 233 (S338)	Y	Y	N	NA	NA	NA	NA	NA		NA
U80 Refined Oil Shipping Unit (S339)	Y	N	N	N	N	N	N	N		Y?
Unit 267 Crude Unit (S350)	Y	Y	N	N	Y	N	N	N		Y
Unit 228 Isomerization Unit (\$370)	Y	Y	N	N	Y	N	N	N		Y
U215 Deiso- butanizer (S432)	Y	Y	N	N	N	N	N	N?		Y
U246 High Pressure Reactor Train (S434)	Y	Y	Y (GGGa)	N	Y	N	N	N?	Y	Y
Hydrogen Manufacturing Unit	Y	Y	Y	N	Y	N	N	N		Y

IV. Source Specific Applicable Requirements

Table IV- AA
Fugitive Sources: Applicable Requirements

			rugiuve	e Sources:	Аррисавіе	e K equiren	ients			
Process Unit	BAAQMD Regulation 8, Rule 18	BAAQMD Regulation 8, Rule 28	NSPS Part 60, Subpart GGG; BAAQMD Regulation 10, Rule 59	NSPS Part 60, Subpart QQQ; BAAQMD Regulation 10, Rule 69	NSPS Part 60, Subpart VV; BAAQMD Regulation 10, Rule 52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Regulation 11, Rule 12	NESHAPS Part 61, Subpart V; BAAQMD Regulation 11, Rule 7	NESHAPS Part 63, Subpart H	NESHAPS Part 63, Subpart CC
(S437)										
Unit 100 Wastewater plant (S324)	Y	Y	N	Y	N	N	Y	N		Y
Unit 100 Wastewater plant (S195,)	Y	Y	N	N	N	N	N	N		Y
Unit 100 Wastewater plant (S1007)	Y	Y	N	N	N	N	Y	N		Y
Unit U235 Sulfur Recovery Unit (S1010)	Y	Y	N	N	N	N	N	N	Y	Y (equipment leaks but not vents)
S296, Flare	Y	Y	Y (GGG and GGGa, closed vent and control device reqs. only)	N	Y (VV and VVa, closed vent and control device reqs. only)	N	N	N	N	Y
S398, Flare	Y	Y	Y (GGG and GGGa, closed vent and control device reqs. only)	N	Y (VV and VVa, closed vent and control device reqs. only)	N	N	N	N	Y
Fuel gas recovesry system	Y	Y	Y (GGG and GGGa)	N	Y (VV and VVa)	N	N	N	N	Y

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Organic Compounds-Equipment Leaks (11/3/21)	(1/11)	Date
Regulation 8,	Organic Compounds-Equipment Leaks (11/3/21)		
Rule 18			
8-18-100	General/Applicability	N	
8-18-200	Definitions	N	
8-18-301	General Standard	Y	
8-18-302	Valves	N	
8-18-303	Pumps and compressors	N	
8-18-304	Connections	N	
8-18-305	Pressure relief devices	N	
8-18-306	Non-repairable equipment	N	
8-18-307	Liquid Leaks	Y	
8-18-308	Alternate compliance	Y	
8-18-309	Open-Ended Valve or Line	N	
8-18-310	Recurrent Leaks	N	
8-18-311	Mass Emissions	N	
8-18-401	Inspection	N	
8-18-402	Identification	N	
8-18-403		N	
	Visual inspection schedule Alternate inspection schedule		
8-18-404		N	
8-18-405	Alternate inspection reduction plan	Y	
8-18-406	Interim Compliance		
8-18-407	Recurrent Leak Schedule	N	
8-18-501	Portable Hydrocarbon Detector	N	
8-18-502	Records	N	
8-18-503	Reports	N	07/01/16
8-18-503.1	Quarterly Reports to the APCO	N	07/01/16
8-18-503.2	Annual component inventory submittal to the District	N	07/01/16
8-18-503.4 8-18-503.5	Inspection records of all equipment during a turnaround Submit records of all changes since last submittal	N N	Submitted by
0.40.505			01/01/2018
8-18-602	Inspection Procedures	Y	
8-18-604	Determination of Mass Emissions	N	

IV. Source Specific Applicable Requirements

	COM ONENTS (FACILITY WIDE EXCELLASIVO	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
SIP	Organic Compounds-Equipment Leaks (6/5/03)		
Regulation 8,			
Rule 18			
8-18-100	General/Applicability	Y	
8-18-200	Definitions	Y	
8-18-304	Connections	Y	
8-18-306	Non-repairable equipment	Y	
8-18-402	Identification	Y	
8-18-502	Records	Y	
8-18-604	Determination of Mass Emissions	Y	
BAAQMD	Episodic Releases From Pressure Relief Devices at Petroleum		
Regulation 8,	Refineries and Chemical Plants (11/3/21)		
Rule 28			
8-28-100	General/Applicability	N	
8-28-200	Definitions	N	
8-28-302	Applies to S307, S308, S318, S432, S434, and S1010	N	
	Pressure Relief Devices at New or Modified Sources at Petroleum		
	Refineries		
8-28-303	Applies to other Pressure Relief Devices per Section 8-28-100	N	
	except those at S307, S308, S318, S432, S434, and S1010		
	Pressure Relief Devices at Existing Sources at Petroleum Refineries		
8-28-304	Repeat Releases - Pressure Relief Devices at Petroleum Refineries	N	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-404	Identification	N	
8-28-405	Process Safety Requirements	N	
8-28-406	Monitoring System Demonstration Report	Y	
8-28-407	Process Unit Identification Report	Y	
8-28-502	Records	Y	
8-28-503	Monitoring	Y	
SIP	Episodic Releases From Pressure Relief Devices at Petroleum		
Regulation 8,	Refineries and Chemical Plants (5/24/04)		
Rule 28			
8-28-100	General/Applicability	Y	
8-28-200	Definitions	Y	

IV. Source Specific Applicable Requirements

	COMPONENTS (FACILITY-WIDE EXCEPT AS NO	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-28-302	Applies to S307, S308, S318, S432, S434, and S1010	Y	2400
0 20 002	Pressure Relief Devices at New or Modified Sources at Petroleum	-	
	Refineries		
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	Y	
8-28-304	Repeat Releases - Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	
8-28-405	Prevention Measures Procedures	Y	
NSPS, Subpart			
VV, applies to the			
S350 crude unit,			
S370			
isomerization			
unit, S437			
hydrogen plant			
40 CFR 60,	Standards of Performance for Equipment Leaks (Fugitive	Y	
Subpart VV;	Emission Sources) (06/02/2008);		
BAAQMD	BAAQMD Standards of Performance for New Stationary Sources		
Regulation 10-52	(12/20/95)		
60.480	Applicability and designation of affected facility	Y	
60.481	Definitions	Y	
60.482-1	Standards: General	Y	
60.482-2	Standards: Pumps in light liquid service	Y	
60.482-2(a)(1)	Monthly monitoring of each pump, except for 60.482-1(c),	Y	
	60.482-2(d), (e), or (f)		
60.482-2(a)(2)	Weekly visual inspection of each pump, except for (e), (f), or (g)	Y	
60.482-2(b)	Air measurement >10,000 ppm or dripping liquid indicates leak	Y	
60.482-2(c)	Pump leak repair period	Y	
60.482-2(d)	Requirements for Dual-Mechanical seal pump	Y	
60.482-2(e)	No detectable emission designation: <500 ppm	Y	
60.482-2(f)	Requirements for Closed Vent Systems	Y	
60.482-3	Standards: Compressors	Y	
60.482-4	Standards: Pressure Relief Devices in gas/vapor service	Y	
60.482-5	Standards: Sampling connecting systems	Y	

IV. Source Specific Applicable Requirements

	COMPONENTS (FACILITY-WIDE EXCEPT AS NOT	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.482-6	Standards: Open-ended valves or lines	Y	
60.482-7	Standards: Valves in gas/vapor service and in light liquid service	Y	
60.482-7(a)-(c)	Monitor monthly unless 2 successive months <10,000 ppm, then	Y	
(1)	monitor first month of each quarter. If leak >10,000 ppm is detected,	_	
	resume monthly monitoring		
60.482-7(d)	Valve leak repair period	Y	
60.482-7(e)	Methods for first attempts or minimizing valve leaks	Y	
60.482-7(f)	Designated no-emissions (<500 ppm) valves with no external	Y	
	actuating mechanisms in contact with process fluid, may revert to		
	annual monitoring, or that requested by the Administrator		
60.482-8	Standards: Pumps and valves in heavy liquid service, pressure relief	Y	
	devices in light liquid or heavy liquid service, and connectors		
60.482-9	Standards: Delay in repair	Y	
60.482-9(b)	Repair may be delayed for isolated equipment	Y	
60.482-9(c)	Delay of repair for valves is only allowed under certain circumstances	Y	
60.482-9(d)(1)	Only dual-mechanical seal pumps qualify for delay of repair	Y	
60.482-9(d)(2)	Pump leaks must be repaired within 6 months	Y	
	Deleted because repeated		
	(moved up four lines)		
60.482-10	Standards: Closed vent systems and control devices	Y	
60.483-1,	Alternative standards for valvesallowable percentage of valves	Y	
60.483-2, and	leaking and Alternative standards for valvesskip period leak		
BAAQMD	detection and repair		
8-18-404.1	If a process unit has 5 consecutive quarters with <2% of valves		
	leaking at >10,000 ppm, then any individual valve which measures		
	<100 ppm for 5 consecutive quarters may be monitored annually		
60.485	Test Methods and Procedures	Y	
60.486	Recordkeeping Requirements	Y	
60.487	Reporting Requirements	Y	
NSPS Part 60	Applies to S307 and S434, Cracking	Y	
Subpart VVa;	Standards of Performance for Equipment Leaks of VOC in the		
BAAQMD	Synthetic Organic Chemicals Manufacturing Industry for Which		
Regulation 10-52	Construction, Reconstruction, or Modification Commenced After		
	November 7, 2006 (06/02/2008); BAAQMD Standards of		
	Performance for New Stationary Sources (12/20/95) (Applies to		
	equipment in VOC service)		

IV. Source Specific Applicable Requirements

	COMPONENTS (FACILITY-WIDE EXCEPT AS NO	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.480a	Applicability and designation of affected facility	Y	
60.481a	Definitions	Y	
_	Equipment: each valve, pump, pressure relief device, sampling	Y	
	connection system, open-ended valve or line, and flange or other		
	connector in VOC service. For the purposes of recordkeeping and		
	reporting only, compressors are considered equipment.		
60.482-1a	Standards: General	Y	
60.482-2a	Standards: Pumps in light liquid service	Y	
60.482-2a(a)(1)	Monthly monitoring of each pump, except for 60.482-1a(c) and (f),	Y	
	60.482-2(d), (e), or (f)		
60.482-2a(a)(2)	Weekly visual inspection of each pump, except for 60.482-1a(f)	Y	
60.482-2a(b)(1)	Air measurement >2,000 ppm or dripping liquid indicates leak	Y	
60.482-2a(b)(2)	Procedure for liquid drips		
60.482-2a(c)	Pump leak repair period	Y	
60.482-2a(d)	Requirements for Dual-Mechanical seal pump	Y	
60.482-2a(e)	No detectable emission designation: <500 ppm	Y	
60.482-2a(f)	Requirements for Closed Vent Systems	Y	
60.482-2a(g)	Unsafe to monitor pumps	Y	
60.482-3a	Standards: Compressors	Y	
60.482-4a	Standards: Pressure Relief Devices in gas/vapor service	Y	
60.482-5a	Standards: Sampling connecting systems	Y	
60.482-6a	Standards: Open-ended valves or lines	Y	
60.482-7a	Standards: Valves in gas/vapor service and in light liquid service	Y	
60.482-7a(a)(1)	Monthly monitoring of valves	Y	
60.482-7a(b)	Leak standard > 500 ppm	Y	
60.482-7a(c)	Reduction in monitoring frequency	Y	
60.482-7a(d)	Valve leak repair period	Y	
60.482-7a(e)	Methods for first attempts or minimizing valve leaks	Y	
60.482-7a(f)	Designated no-emissions (<500 ppm) valves with no external	Y	
	actuating mechanisms in contact with process fluid, may revert to		
	annual monitoring, or that requested by the Administrator		
60.482-8a	Standards: Pumps, valves, and connectors in heavy liquid service and	Y	
	pressure relief devices in light liquid or heavy liquid service (per 40		
	CFR 60, Subpart GGGa, Section 60.593a(g), standard applies to all		
	connectors, not just those in heavy liquid service)		
60.482-9a	Standards: Delay of repair	Y	

IV. Source Specific Applicable Requirements

	COM ONE TIS (FACILITY-WIDE EXCELT AS NO	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.483-1a	Alternative standards for valvesallowable percentage of valves	Y	Date
00.103 14	leaking (must notify EPA administrator and BAAQMD)	-	
60.483-2a	Alternative standards for valvesskip period leak detection and repair	Y	
00. 4 03-2a	(must notify EPA administrator and BAAQMD)	1	
60.485a	Test Methods and Procedures	Y	
60.486a	Recordkeeping Requirements	Y	
60.487a	Reporting Requirements	Y	
	Reporting Requirements	1	
NSPS, Subpart			
GGG, applies to the S350 crude			
unit, S370			
isomerization			
unit, S437			
hydrogen plant			
40 CFR 60,	Standards of Performance for Equipment Leaks (Fugitive		
Subpart GGG;	Emission Sources) (06/02/2008);		
BAAQMD	BAAQMD Standards of Performance for New Stationary Sources		
Regulation 10-59	(4/19/89)		
60.590	Applicability	Y	
60.591	Definitions	Y	
60.592	Subject to provisions of Part 60, Subpart VV	Y	
60.593	Exceptions	Y	
NSPS Part 60	-	1	
Subpart GGGa;	Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for Which Construction, Reconstruction, or		
BAAQMD	Modification Commenced After November 7, 2006 (06/02/2008);		
Regulation 10-59	BAAQMD Standards of Performance for New Stationary Sources		
(Applies to S307	(4/19/89)		
and S434,			
Cracking Units)			
60.590a	Applicability	Y	
60.591a	Definitions	Y	
60.592a	Subject to provisions of Part 60, Subpart VVa	Y	
60.593a	Exceptions	Y	
60.593a(a)	Compliance with exceptions	Y	
60.593a(b)(1)	Compressors in hydrogen service	Y	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.593a(g)	Connectors in gas/vapor or light liquid service exempt if	Y	
	owner/operator complies with 40 CFR 60.482-8a for all connectors		
BAAQMD	Incorporates by reference 40 CFR 60, Subpart GGG	Y	
Regulation 10-59			
NSPS, Subpart			
QQQ, applies to			
the S324 Oil-			
water separator			
unit.			
40 CFR 60,	Standards of Performance for VOC Emission From Petroleum		
Subpart QQQ;	Refinery Wastewater Systems (10/17/00);		
BAAQMD	BAAQMD Standards of Performance for New Stationary Sources		
Regulation 10-69	(12/20/95)		
60.690	Applicability	Y	
60.691	Definitions	Y	
60.692-6	Delay of Repair Standards	Y	
60.695	Monitoring of closed-vent systems with bypass lines	Y	
60.696	Performance test methods and procedures and compliance provisions	Y	
60.697	Recordkeeping	Y	
60.698	Reporting	Y	
40 CFR 61,	National Emission Standard for Benzene Waste Operations		
Subpart FF;	(12/4/03);		
BAAQMD	BAAQMD National Emission Standard for Benzene Emissions		
Regulation 11,	from Benzene Transfer Operations and Benzene Waste		
Rule 12	Operations (7/18/90)		
	Subpart FF citations below are applicable only to equipment whose		
	benzene quantity for 61.342(e)(2) is calculated per 61.355(k)(2) as		
	controlled.		
40 CFR	Containers: no detectable emissions	Y	
61.345(a)(1)(i)			
40 CFR 61.345(b)	Containers: Visual inspection	Y	
40 CFR 61.345(c)	Containers: Repair within 15 days	Y	
40 CFR	Individual drain systems: no detectable emissions	Y	
61.346(a)(1)(i)(A)			
40 CFR	Individual drain systems: Visual inspection	Y	
61.346(a)(2)			

IV. Source Specific Applicable Requirements

Applicable Requirement Regulation Title or Description of Requirement Enforceable (Y/N) Effective Date 40 CFR Individual drain systems: Repair within 15 days Y 61.346(a)(3) 40 CFR Oil-water separators: no detectable emissions Y 61.347(a)(1) (i) 40 CFR 61.347(b) Oil-water separators: Visual inspection Y 40 CFR 61.347(b) 40 CFR 61.347(c) Oil-water separators: Repair within 15 days Y 61.355(h) 41 CFR 61.347(c) Coll-water separators: Repair within 15 days Y 61.356(g) Recordkeeping Requirements: Visual inspection per 61.343 through 61.347 Y 61.356(g) Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349 Y 40 CFR 63, National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (11/26/18) Y 63.640(a) Applicability Y 63.640(p) Overlap of Subpart CC with other regulations for equipment leaks. Y 63.641 Definitions Y 63.648(a) Equipment leak standards. Comply with 40 CFR 60. Subpart VV Y 63.648(d) New sources Y		COMPONENTS (FACILITY-WIDE EXCEPT AS NO	Federally	Future
Description of Requirement	Applicable	Regulation Title or	_	
40 CFR Individual drain systems: Repair within 15 days Y 61.346(a)(3) 40 CFR Oil-water separators: no detectable emissions Y 61.347(a)(1) (i) (ii) 40 CFR 61.347(b) Oil-water separators: Visual inspection Y 40 CFR 61.347(c) Oil-water separators: Repair within 15 days Y 61.355(h) Leak inspection procedures Y 61.356(g) Recordkeeping Requirements: Visual inspection per 61.343 through Y 61.356(h) Recordkeeping Requirements: No detectable emissions tests per Y 61.343 through 61.347, and 61.349 40 CFR 63, National Emission Standards for Hazardous Air Pollutants from Y Subpart CC Petroleum Refineries (11/26/18) Y 63.640(a) Applicability Y 63.640(a) Applicability Y 63.641 Definitions Y 63.642(e) Gaided Equipment leak standards. Comply with 40 CFR 60, Subpart VV Y 63.648(a) Equipment leak standards. Comply with 40 CFR 60, Subpart VV Y 63.648(b) Use of monitoring data from prior to 8/18/95 to qualify for less Stringent monitoring frequency 63.648(e) Equipment leak standards - reciprocating pumps in heavy liquid Y 63.648(f) Equipment leak standards - reciprocating pumps in light liquid Y 63.648(f) Equipment leak standards - reciprocating pumps in light liquid Y 63.648(f) Equipment leak standards - reciprocating pumps in light liquid Y 63.648(f) Equipment leak standards - reciprocating compressors Y 63.648(f) Equipment leak standards - reciprocating compressors Y 63.648(f) Equipment leak standards - reciprocating compressors Y 63.648(f) Equipment leak standards - applicable pressure relief valves Y 63.655(d) Record keeping and reporting Y 63.655(d)				
40 CFR 61.347(a)(1) (i) 40 CFR 61.347(b) Oil-water separators: No detectable emissions Y 40 CFR 61.347(b) Oil-water separators: Visual inspection V 40 CFR 61.347(c) Oil-water separators: Repair within 15 days Y 61.355(h) Leak inspection procedures Y 61.356(g) Recordkeeping Requirements: Visual inspection per 61.343 through 61.347 61.356(h) Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349 40 CFR 63, National Emission Standards for Hazardous Air Pollutants from Y Subpart CC Petroleum Refineries (11/26/18) 63.640(a) Applicability Y 63.640(p) Overlap of Subpart CC with other regulations for equipment leaks. Y 63.641 Definitions Y 63.648(a) Equipment leak standards. Comply with 40 CFR 60, Subpart VV Y 63.648(b) Use of monitoring data from prior to 8/18/95 to qualify for less stringent monitoring frequency 63.648(e) Equipment leak standards – reciprocating pumps in heavy liquid service 63.648(f) Equipment leak standards – reciprocating pumps in heavy liquid service 63.648(f) Equipment leak standards – reciprocating pumps in heavy liquid service 63.648(f) Equipment leak standards – reciprocating pumps in heavy liquid service 63.648(f) Equipment leak standards – reciprocating pumps in heavy liquid service 63.648(f) Equipment leak standards – reciprocating pumps in heavy liquid service 63.648(f) Equipment leak standards – reciprocating pumps in heavy liquid service 63.648(f) Equipment leak standards – reciprocating pumps in light liquid y service 63.648(f) Equipment leak standards – reciprocating pumps in light liquid service 63.648(f) Equipment leak standards – reciprocating pumps in light liquid service 63.648(f) Equipment leak standards – reciprocating pumps in light liquid service 63.648(f) Equipment leak standards – reciprocating pumps in light liquid service 63.648(f) Equipment leak standards – reciprocating pumps in light liquid service 63.648(f) Equipment leak standards – reciprocating pumps in light liquid service 63.648(f) Equipment leak standards – reciprocating	40 CFR			
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(i) 40 CFR 61.347(b) Oil-water separators: Visual inspection 47 40 CFR 61.347(c) Oil-water separators: Repair within 15 days 41 61.355(h) Leak inspection procedures 42 40 CFR 61.347(c) Oil-water separators: Repair within 15 days 43 41.355(h) Leak inspection procedures 44 61.356(g) Recordkeeping Requirements: Visual inspection per 61.343 through 61.347 61.356(h) Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349 40 CFR 63, National Emission Standards for Hazardous Air Pollutants from Subpart CC Petroleum Refineries (11/26/18) 63.640(a) Applicability 7 63.640(b) Overlap of Subpart CC with other regulations for equipment leaks. 7 63.641 Definitions 7 63.642(e) 7 63.648(a) Equipment leak standards. Comply with 40 CFR 60, Subpart VV 7 63.648(d) Luse of monitoring data from prior to 8/18/95 to qualify for less 7 8 stringent monitoring frequency 63.648(d) New sources 7 63.648(e) Equipment leak standards – reciprocating pumps in heavy liquid 8 service 63.648(f) Equipment leak standards – reciprocating pumps in light liquid 9 4 8 service 63.648(g) Equipment leak standards – reciprocating compressors 9 7 63.648(i) Equipment leak standards – reciprocating compressors 9 7 63.648(i) Equipment leak standards – reciprocating compressors 9 7 63.648(i) Equipment leak standards – reciprocating compressors 9 7 63.648(i) Equipment leak standards – reciprocating compressors 9 7 63.648(i) Equipment leak standards – applicable pressure relief valves 9 7 63.648(i) Equipment leak standards – applicable pressure relief valves 9 8 63.648(i) Equipment leak standards – applicable pressure relief valves 9 8 63.648(i) Equipment leak standards – reciprocating compressors 9 9 63.648(i) Equipment leak standards – reciprocating compressors 9 9 63.648(i) Equipment leak standards – reciprocating compressors 9 9 63.648(i) Equipment leak standards – reciprocating compressors 9 9 63.648(i) Equipment leak standards – reciprocating compressors 9 9 63.648(i) Equipment leak standards – reciprocating compressor	40 CFR	Oil-water separators: no detectable emissions	Y	
40 CFR 61.347(b) Oil-water separators: Visual inspection Y 40 CFR 61.347(c) Oil-water separators: Repair within 15 days Y 61.355(h) Leak inspection procedures 41 Ceak inspection procedures 42 Ceak inspection procedures 43 Ceak inspection procedures 44 CFR 63.356(g) Recordkeeping Requirements: Visual inspection per 61.343 through 61.347 61.356(h) Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349 40 CFR 63, National Emission Standards for Hazardous Air Pollutants from Y Subpart CC Petroleum Refineries (11/26/18) 40 CFR 63, Overlap of Subpart CC with other regulations for equipment leaks. 41 Petroleum Refineries (11/26/18) 43.640(a) Applicability Y 43.641 Definitions 43.642(e) Y 43.63.648(a) Equipment leak standards. Comply with 40 CFR 60, Subpart VV Y 43.63.648(b) Use of monitoring data from prior to 8/18/95 to qualify for less stringent monitoring frequency 43.648(e) Equipment leak standards – reciprocating pumps in heavy liquid service 43.648(e) Equipment leak standards – reciprocating pumps in light liquid service 43.648(g) Equipment leak standards – reciprocating pumps in light liquid service 43.648(g) Equipment leak standards – reciprocating compressors 44 Ceaks (a) Equipment leak standards – reciprocating compressors 54 Ceaks (a) Equipment leak standards – reciprocating compressors 55 Ceaks (a) Equipment leak standards – reciprocating compressors 56 Ceaks (a) Equipment leak standards – reciprocating compressors 57 Ceaks (a) Equipment leak standards – reciprocating compressors 58 Ceaks (a) Equipment leak standards – reciprocating compressors 59 Ceaks (a) Equipment leak standards – reciprocating compressors 59 Ceaks (a) Equipment leak standards – reciprocating compressors 59 Ceaks (a) Equipment leak standards – reciprocating compressors 59 Ceaks (a) Equipment leak standards – reciprocating compressors 50 Ceaks (a) Equipment leak standards – reciprocating compressors 50 Ceaks (a) Equipment leak standards – reciprocating compressors 50 Ceaks (a) Equipment leaks tand	61.347(a)(1)			
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61.356(g) Recordkeeping Requirements: Visual inspection per 61.343 through 61.347 61.356(h) Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349 40 CFR 63, National Emission Standards for Hazardous Air Pollutants from Y Subpart CC Petroleum Refineries (11/26/18) 63.640(a) Applicability Y 63.640(p) Overlap of Subpart CC with other regulations for equipment leaks. Y 63.641 Definitions Y 63.642(e) Y 63.648(a) Equipment leak standards. Comply with 40 CFR 60, Subpart VV Y 63.648(b) Use of monitoring data from prior to 8/18/95 to qualify for less stringent monitoring frequency 63.648(d) New sources Y 63.648(e) Equipment leak standards – reciprocating pumps in heavy liquid service 63.648(f) Equipment leak standards – reciprocating pumps in light liquid y service 63.648(g) Equipment leak standards – compressors in hydrogen service Y 63.648(h) Keep records for 5 years 63.648(i) Equipment leak standards – reciprocating compressors Y 63.648(i) Equipment leak standards – reciprocating compressors Y 63.648(i) Equipment leak standards – applicable pressure relief valves Y 63.648(j) Equipment leak standards – applicable pressure relief valves Y 63.655(d) Record keeping and reporting Y 8AAQMD Condition 21099 Part 1 Light hydrocarbon control valve requirements [Basis: BACT] Y	40 CFR 61.347(c)	Oil-water separators: Repair within 15 days	Y	
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63.648(i) Equipment leak standards – reciprocating compressors Y 63.648(j) Equipment leak standards – applicable pressure relief valves Y 63.655(d) Record keeping and reporting Y BAAQMD APPLIES TO S304, S460 ONLY Condition 21099 Part 1 Light hydrocarbon control valve requirements [Basis: BACT] Y Part 2 Light hydrocarbon flange/connector requirements [Basis: BACT] Y	63.648(h)	Keep records for 5 years	Y	
63.655(d) Record keeping and reporting Y BAAQMD APPLIES TO S304, S460 ONLY Condition 21099 Part 1 Light hydrocarbon control valve requirements [Basis: BACT] Y Part 2 Light hydrocarbon flange/connector requirements [Basis: BACT] Y	63.648(i)			
APPLIES TO S304, S460 ONLY Condition 21099 Part 1 Light hydrocarbon control valve requirements [Basis: BACT] Y Part 2 Light hydrocarbon flange/connector requirements [Basis: BACT] Y	63.648(j)	Equipment leak standards – applicable pressure relief valves	Y	
Condition 21099 Part 1 Light hydrocarbon control valve requirements [Basis: BACT] Y Part 2 Light hydrocarbon flange/connector requirements [Basis: BACT] Y	63.655(d)	Record keeping and reporting	Y	
Part 1 Light hydrocarbon control valve requirements [Basis: BACT] Y Part 2 Light hydrocarbon flange/connector requirements [Basis: BACT] Y	BAAQMD	APPLIES TO S304, S460 ONLY		
Part 2 Light hydrocarbon flange/connector requirements [Basis: BACT] Y	Condition 21099			
	Part 1	Light hydrocarbon control valve requirements [Basis: BACT]	Y	
Part 3 Centrifugal compressor requirements [Basis: BACT] Y	Part 2	Light hydrocarbon flange/connector requirements [Basis: BACT]	Y	
	Part 3	Centrifugal compressor requirements [Basis: BACT]	Y	

IV. Source Specific Applicable Requirements

Table IV – AB Applicable Requirements COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

	COM ONENTS (FACILITY WIDE EXCELT ASTO	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 4	Light hydrocarbon centrifugal pump requirements [Basis: BACT]	Y	
Part 5	Monitoring and repair program requirement [Basis: BACT]	Y	
Part 6	ULSD project component count report requirement [Basis: BACT, Cumulative Increase, Toxic Management Policy]	Y	
BAAQMD	APPLIES TO COMPONENTS INSTALLED FOR CFEP		
Condition #23725	PROJECT		
Part 1	Fugitive Equipment	Y	
Part 1a	Specifications for valves in light hydrocarbon service [BACT]	Y	
Part 1b	100 ppm leak standard for valves [BACT, Regulation 8, Rule 18]	Y	
Part 1c	Specification for flanges and connectors [BACT]	Y	
Part 1d	Specifications for compressors [BACT]	Y	
Part 1e	100 ppm leak standard for pumps and compressors [BACT]	Y	
Part 1f	Specifications for pumps [BACT]	Y	
Part 1g	Identification of pumps and compressors with unique permanent identification code [Cumulative increase, BACT]	Y	
Part 2	Component count every 180 days after startup until completion	Y	
	[Cumulative increase, Offsets, Regulation 2, Rule 5]		_
Part 3	Calculations of CFEP fugitive emissions [Cumulative increase, BACT, Offsets]	Y	
Part 4	Inspection Frequency	Y	

Table IV – BB.1 Source-Specific Applicable Requirements NSPS KB LOW VAPOR PRESSURE PERMITTED WASTEWATER SLUDGE TANKS WITH VAPOR RECOVERY TO FUEL GAS S433 (F224-MOSC)

Applicable Requirement BAAQMD Regulation 8, Rule 5	Regulation Title or Description of Requirement Organic Compounds, Storage of Organic Liquids (10/18/06) EXEMPT	Federally Enforceable (Y/N)	Future Effective Date
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/03) EXEMPT		
8-5-117	Exemption, Low Vapor Pressure	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.1 Source-Specific Applicable Requirements NSPS KB LOW VAPOR PRESSURE PERMITTED WASTEWATER SLUDGE TANKS WITH VAPOR RECOVERY TO FUEL GAS S433 (F224-MOSC)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	Organic Compounds, Wastewater (Oil-Water Separators) (11/3/21) REQUIREMENTS FOR SLUDGE DEWATERING UNITS		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308	N	
8-8-303	Standards: Gauging and Sampling Devices	Y	
8-8-304	Standards: Sludge-dewatering Unit	N	
8-8-504	Monitoring and Records: Portable Hydrocarbon Detector	Y	
8-8-602	Manual of Procedures: Determination of Emissions	N	
8-8-603	Manual of Procedures: Inspection Procedures	N	
SIP	Wastewater (Oil-Water) Separator (8/29/94)		
Regulation 8, Rule 8			
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308	Y	
8-8-304	Standards: Sludge-dewatering Unit	Y	
8-8-602	Manual of Procedures: Determination of Emissions	Y	
8-8-603	Manual of Procedures: Inspection Procedures	Y	
40 CFR 60, Subpart Kb	Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/2003) REQUIREMENTS FOR RECORDKEEPING ONLY		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa	Y	
60.110b(c)	Applicability and Designation of Affected Facility; Exemptions for storage vessels > or = to 75 cu m	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(e)	Monitoring of Operations; Determine TVP	Y	
60.116b(e)(3)	Monitoring of Operations; Determine TVP-other liquids	Y	
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
60.116b(g)	Monitoring of Operations; Exemption from 40 CFR 60.116b(c) and 40 CFR 60.116b(d) for tanks with closed vent system and control device	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.1 Source-Specific Applicable Requirements NSPS KB LOW VAPOR PRESSURE PERMITTED WASTEWATER SLUDGE TANKS WITH VAPOR RECOVERY TO FUEL GAS S433 (F224-MOSC)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (11/26/18) REQUIREMENTS FOR EMISSION POINTS ROUTED TO FUEL GAS		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(d)(5)	Exemption for emission points routed to fuel gas system	Y	
BAAQMD Condition 7353	APPLICABLE TO S433		
Part 1	Requirement to vent tank to fuel gas system [Basis: Cumulative Increase]	Y	
Part 2	Valve, pump design requirements [Basis: Cumulative Increase]	Y	
Part 3	Limitation on material stored [Basis: Cumulative Increase]	Y	
Part 4	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 5	Weekly throughput records [Basis: Recordkeeping]	Y	
BAAQMD Condition 20773			
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	

Table IV – BB.2 Source-Specific Applicable Requirements Low Vapor Pressure Permitted Tanks < 10,000 Gallons S194 (Tank 306)

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	EXEMPT		
Rule 5			
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8,	Organic Compounds, Storage of Organic Liquids (06/05/03)		
Rule 5	EXEMPT		

IV. Source Specific Applicable Requirements

Table IV – BB.2 Source-Specific Applicable Requirements Low Vapor Pressure Permitted Tanks < 10,000 Gallons S194 (Tank 306)

8-5-117	Exemption, Low Vapor Pressure	Y	
BAAQMD			
Condition 20773			
Part 1	Requirement to verify exempt status of tank based on true vapor	Y	
	pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]		
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	
BAAQMD	Throughput limit for source S194 [Basis: 2-1-234.3]	N	
Condition 20989,			
Part A			

Table IV – BB.3 Source-Specific Applicable Requirements Low Vapor Pressure Permitted Tanks Vented to Fuel Gas S173 (Tank 280), S174, (Tank 281),

Future **Applicable Federally Regulation Title or** Requiremen Enforceable **Effective Description of Requirement** (Y/N)Tanks S173 and S174 will be subject to the requirements in Table IV-BB.19 until they are controlled by A7, Odor Abatement System. S173 and S174 will be subject to the requirements in Table IV- BB.3 when controlled by A7. **BAAOMD** Organic Compounds, Storage of Organic Liquids (10/18/06) Regulation **EXEMPT** 8. Rule 5 8-5-117 Y Limited Exemption, Low Vapor Pressure SIP Organic Compounds, Storage of Organic Liquids (06/05/03) **EXEMPT** Regulation Rule 5 8-5-117 Exemption, Low Vapor Pressure Y 40 CFR 63, National Emission Standards for Hazardous Air Pollutants for Subpart CC Petroleum Refining (11/26/18) REQUIREMENTS FOR EMISSION POINTS ROUTED TO FUEL **GAS** Y Applies to S173 and S174: 63.640(c)(2) Applicability and Designation of Storage Vessels 63.640(c)(3) Wastewater streams and treatment operations associated with petroleum Y refining process units meeting the criteria of section 63.640(a) 63.640(d)(5) Exemption for emission points routed to fuel gas system Y **BAAQMD** Condition 20773

IV. Source Specific Applicable Requirements

Table IV – BB.3 Source-Specific Applicable Requirements LOW VAPOR PRESSURE PERMITTED TANKS VENTED TO FUEL GAS

S173 (TANK 280), S174, (TANK 281),

t D Part 1 R of	Regulation Title or Description of Requirement Requirement to verify exempt status of tank based on true vapor pressure	Federally Enforceable (Y/N)	Future Effective
of	Requirement to verify exempt status of tank based on true vapor pressure	(1/11)	Date
	of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	
BAAQMD Condition 20989, Part A	Throughput limits for sources [Basis: 2-1-234.3]	N	
BAAQMD A Condition 23724	Applies to S173 and S174		
Part 1a R	Requirement for abatement by A7, Odor Abatement System [2-1-403]	Y	When blan- keting is required to preserve product or feed
Part 2	Requirement for utility-grade natural gas blanket [2-1-403]	Y	•
	Requirement for pressure monitoring device for S173 and S174. [2-1-403]	Y	
	After pressure monitoring devices are installed, requirement to operate below tank set pressure [2-1-403]	Y	
Part 4a T	Tank pressures for tanks subject to Regulation 8, Rule 5 [Regulation 8, Rule 5]	Y	
	Pressure relief valve setting at or above nominal set pressure	Y	
Part 6	Corrective Plan	Y	
Part 7 P	Pressure monitoring records [2-1-403]	Y	
Part 8	Initial date for reporting pressures in excess of nominal set pressure	Y	
Part 9	Compliance with nuisance and odor regulations [1-301, 7-301, 7-302]	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.4 Source-Specific Applicable Requirements NSPS KB LOW VAPOR PRESSURE PERMITTED FIXED ROOF WASTEWATER SLUDGE TANKS S195 (TANK 501),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06) EXEMPT		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/03) EXEMPT		
8-5-117	Exemption, Low Vapor Pressure	Y	
BAAQMD Regulation 8, Rule 8	Organic Compounds, Wastewater (Oil-Water Separators) (11/3/21) REQUIREMENTS FOR SLUDGE DEWATERING UNITS		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308	N	
8-8-303	Standards: Gauging and Sampling Devices	Y	
8-8-305	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels	Y	
8-8-504	Monitoring and Records: Portable Hydrocarbon Detector	Y	
8-8-602	Manual of Procedures: Determination of Emissions	N	
8-8-603	Manual of Procedures: Inspection Procedures	N	
SIP	Wastewater (Oil-Water) Separator (8/29/94)		
Regulation 8, Rule 8			
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308	Y	
8-8-602	Manual of Procedures: Determination of Emissions	Y	
8-8-603	Manual of Procedures: Inspection Procedures	Y	
40 CFR 60, Subpart Kb	Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/03)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa	Y	
40 CFR 63, Subpart	National Emission Standards for Hazardous Air Pollutants for		
CC	Petroleum Refining (11/26/18) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		

The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.

IV. Source Specific Applicable Requirements

Table IV – BB.4 Source-Specific Applicable Requirements NSPS KB LOW VAPOR PRESSURE PERMITTED FIXED ROOF WASTEWATER SLUDGE TANKS S195 (TANK 501),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Keep records specified in 40 CFR 63.123	Y	
63.655(i)(1)(iv)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification	Y	
63.655(i)(1)(vi)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements-RecordkeepingRecord retention – 5 years	Y	
BAAQMD Condition 20773			
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	
BAAQMD Condition 20989, Part A	Throughput limits for source S195 [Basis: 2-1-234.3]	Y	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	N	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	

IV. Source Specific Applicable Requirements

		Fodo:::	Future
Applicable	Regulation Title or	Federally Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	Y	Date
6-3-320.3.1	- Gap requirements	1	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	N	
	wells		
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y	
	wellsprojection below liquid surface		
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y	
	wellscover, seal, or lid		
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y	
	wells total secondary seal gap must include well gap		
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains	N	
	must be 90% covered		
8-5-321	Primary seal requirements	N	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid	Y	
	mounted except as provided in 8-5-305.1.3		
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements -	N	
	geometry of shoe		
8-5-321.3.2	Primary seal requirements; Metallic-shoe-type seal requirements -	N	
	welded tanks gap requirements		
8-5-322	Secondary seal requirements	N	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N	
8-5-322.2	Secondary seal requirements; Insertion of probes	N	
8-5-322.5	Secondary seal requirements; Gap requirements for welded external	N	
0.7.000 /	floating roof tanks with seal installed after September 4, 1985		
8-5-322.6	Secondary seal requirements; extent of seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank	N	
8-3-401.2	Fittings Inspections	11	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test	N	
0-5-404	Reports	11	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks	N	
	selected for enhanced monitoring program		
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating	N	
	enhanced monitoring program		

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements – Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seal requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seal requirements Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seal requirements Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
40 CFR 60, Subpart Kb	Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/03) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks- > 151 cu m with maximum TVP >= 5.2 kPa and <76.6 kPa; or >= 75 cu m and < 151 cu m with maximum TVP >= 27.6 kPa and < 76.6 kPa	Y	
60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y	
60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y	
60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y	
60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y	
60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y	
60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y	
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y	
60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y	
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y	
60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y	
60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y	
60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.5 Source-Specific Applicable Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF TANKS S439 (TANK 109), S440 (TANK 110), S442 (TANK 112), S444 (TANK 243),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y	
60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y	
60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y	
60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y	
60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y	
60.113b(b)(4)(ii)	Testing and Procedures; External floating roof secondary seal gap limitations	Y	
60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y	
60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	
60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	
60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y	
60.113b(b)(6)(i)	Testing and Procedures; External floating roof or seal defect repairs	Y	
60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y	
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks; Record retention	Y	
60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y	
60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y	
60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report – content requirements	Y	
60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records requirements	Y	
60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
60.116b(e)	Monitoring of Operations; Determine TVP	Y	

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.116b(e)(2)	Monitoring of Operations; Determine TVP-crude oil and refined	Y	
40 CFR 63, Subpart	petroleum National Emission Standards for Hazardous Pollutants for		
CC CFK 05, Subpart	Petroleum Refining (11/26/18)		
cc	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
	TANKS ALSO SUBJECT TO NSPS, Subpart Kb		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(n)(2)	Applicability and Designation of Affected Source Overlap for	Y	
	Storage Vessels-Existing Group 1 also subject to Kb only subject to		
	Kb and 63.640(n)(8).		
63.640(n)(8)	Applicability and Designation of Affected Source Overlap for	Y	
	Storage Vessels-Additional requirements for Kb storage vessels		
63.640(n)(8)(i)	Applicability and Designation of Affected Source Overlap for	Y	
	Storage Vessels-Additional requirements for Kb storage vessels		
63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for	Y	
	Storage Vessels-Additional requirements for Kb storage vessels		
63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for	Y	
	Storage Vessels-Additional requirements for Kb storage vessels		
63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for	Y	
	Storage Vessels-Additional requirements for Kb storage vessels		
63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for	Y	
52 540() (O) (1)	Storage Vessels-Additional requirements for Kb storage vessels	**	
63.640(n)(8)(vi)	Applicability and Designation of Affected Source Overlap for	Y	
(2 (40()(9)(")	Storage Vessels-Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(vii)	Applicability and Designation of Affected Source Overlap for	Y	
BAAQMD	Storage Vessels-Additional requirements for Kb storage vessels APPLICABLE TO S439		
Condition 12124	AFFEICABLE 10 5439		
Part 1	Crude oil or petroleum liquids with a vapor pressure of 3.0 psia or	Y	
1 art 1	less [BACT]	1	
Part 2	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 3	Equipment requirements for tank openings [Basis: BACT,	Y	
	Cumulative Increase]		
Part 4	Monthly throughput records [Basis: Cumulative Increase]	Y	
BAAQMD	APPLICABLE TO S440		
Condition 12125			
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	
BAAQMD	APPLICABLE TO S442		
Condition 12127			
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	

Facility Name: Phillips 66 - San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – BB.5 Source-Specific Applicable Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF TANKS S439 (TANK 109), S440 (TANK 110), S442 (TANK 112), S444 (TANK 243),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Gas oil and crude oil vapor pressure requirements [Basis: Cumulative Increase]	Y	
Part 3	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 4	Monthly throughput records [Basis: Cumulative Increase]	Y	
BAAQMD Condition 12129	APPLICABLE TO S444		
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	

Table IV – BB.6 Source-Specific Applicable Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	N	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	

IV. Source Specific Applicable Requirements

Table IV - BB.6 **Source-Specific Applicable Requirements** NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER **EQUALIZATION TANKS**

	5101 (1ANK 104), 5102 (1ANK 103), 5100 (1A	,	Future
Applicable	Decembration Title on	Federally	
Requirement	Regulation Title or Description of Requirement	Enforceable	Effective
	•	(Y/N)	Date
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of	N	
0.7.110.1	Tanks in Operation; No product movement, Minimize emissions		
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Not to exceed 7 days		
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Self report if out of compliance during		
	exemption period		
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Keep records for each exemption		
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	_
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight	N	
0-5-504.0.1	if leaking	11	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks	N	
	at next removal from service		
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid	N	
	surface		
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals,	N	
	lids		
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals,	Y	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	lids - Gap requirements	_	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	N	
0 0 02011	wells	1,	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y	
0 3 320.1.1	wellsprojection below liquid surface	1	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y	
0-3-320.4.2	wellscover, seal, or lid	1	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y	
0-3-320.4.3	wells total secondary seal gap must include well gap	1	
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains	N	
0-3-320.0	must be 90% covered	14	
8-5-321	Primary seal requirements	N	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid	Y	
	mounted except as provided in 8-5-305.1.3		

IV. Source Specific Applicable Requirements

Table IV – BB.6 Source-Specific Applicable Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements - geometry of shoe	N	
8-5-321.3.2	Primary seal requirements; Metallic-shoe-type seal requirements - welded tanks gap requirements	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N	
8-5-322.2	Secondary seal requirements; Insertion of probes	N	
8-5-322.5	Secondary seal requirements; Gap requirements for welded external floating roof tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal requirements; extent of seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303 (applies only to S106)	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP-Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	

IV. Source Specific Applicable Requirements

Table IV – BB.6 Source-Specific Applicable Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements – Floating roof tanks; Projection below liquid surface	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.6 Source-Specific Applicable Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers,	Y	Dute
0 3 320.3	seals, lids –		
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well	Y	
	requirements in floating roof tanks		
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seal requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seal requirements	Y	
	Geometry of shoe		
8-5-321.3.2	Primary seal requirements; Metallic shoe type seal requirements	Y	
	Gaps for welded tanks		
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gap for welded tanks with seal	Y	
	installed after September 4, 1985		
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters;	Y	
	Concentration of <10,000 ppm as methane after degassing		
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary	Y	
	and Secondary Seal Inspections		
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank	Y	
	Fittings Inspections		
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal	Y	
	Replacement Records – Retain 10 years		
8-5-503	Portable hydrocarbon detector	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination (applies only to \$106)	Y	
BAAQMD	Organic Compounds, Wastewater (Oil-Water Separators)		
Regulation 8,	(11/3/21)		
Rule 8	REQUIREMENTS FOR WASTEWATER SEPARATORS		
8-8-302	Standards: Wastewater Separators Larger than or Equal to 18.9 Liters	N	
	per second (300 gal per min)		

IV. Source Specific Applicable Requirements

Table IV – BB.6 Source-Specific Applicable Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS

S101 (TANK 104), S102 (TANK 105), S106 (TANK 130)

	5101 (TANK 104), 5102 (TANK 103), 5100 (TA		Future
Applicable		Federally	
Requirement	Regulation Title or	Enforceable	Effective
	Description of Requirement	(Y/N)	Date
8-8-302.2	Standards: Wastewater Separators Larger than or Equal to 18.9 Liters	Y	
	per second (300 gal per min); Floating roof tank with double seals		
8-8-302.2.1	Standards: Wastewater Separators Larger than or Equal to 18.9 Liters	Y	
	per second (300 gal per min); Floating roof tank with double seals –		
	liquid mounted primary seal gap criteria		
8-8-302.2.2	Standards: Wastewater Separators Larger than or Equal to 18.9 Liters	Y	
	per second (300 gal per min); Floating roof tank with double seals –		
	secondary and wiper seals gap criteria		
8-8-302.2.3	Standards: Wastewater Separators Larger than or Equal to 18.9 Liters	Y	
	per second (300 gal per min); Floating roof tank with double seals –		
	primary and secondary seal gap inspection		
8-8-303	Standards: Gauging and Sampling Devices	Y	
8-8-503	Monitoring and Records: Inspection and Repair Records	Y	
8-8-504	Monitoring and Records: Portable Hydrocarbon Detector	Y	
8-8-603	Manual of Procedures: Inspection Procedures	N	
SIP	Wastewater (Oil-Water) Separator (8/29/94)		
Regulation 8,			
Rule 8			
8-8-302	Standards: Wastewater Separators Larger than or Equal to 18.9 Liters	Y	
0-0-302	per second (300 gal per min)	1	
8-8-603	Manual of Procedures: Inspection Procedures	Y	
40 CFR 60,	Standards of Performance for Storage Vessels for Volatile	1	
Subpart Kb	Organic Liquid Storage Vessels for Which Construction,		
Subpart Kb	Reconstruction, or Modification Commenced After July 23, 1984		
	(10/15/03)		
	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
	TANKS		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic	Y	
00.110 <i>b</i> (u)	liquid storage vessels > or = to 40 cu m, after 7/23/1984		
60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for	Y	
00.112 <i>b</i> (u)	tanks->151 cu m with maximum TVP >=5.2 kPa and <76.6 kPa; or		
	>=75 cu m and <151 cu m with maximum TVP $>=27.6$ kPa and $<$		
	76.6 kPa		
60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating	Y	
00.1120(a)(2)	roof option	1	
60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating	Y	
00.1120(a)(2)(1)	roof seal requirements	1	
60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating	Y	
60.112b(a)(2)(i)(A)	roof primary seal requirements	1	
60.112h(a)(2)(i)(D)		Y	
60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating	ı Y	
60.112h(a)(2)(ii)	roof secondary seal requirements	V	
60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating	Y	
	roof openings requirements		

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

Table IV – BB.6 Source-Specific Applicable Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y	
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y	
60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y	
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y	
60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y	
60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y	
60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y	
60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y	
60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y	
60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y	
60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y	
60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y	
60.113b(b)(4)(ii)	Testing and Procedures; External floating roof secondary seal gap limitations	Y	
60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y	
60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	
60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	
60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y	
60.113b(b)(6)(i)	Testing and Procedures; External floating roof or seal defect repairs	Y	
60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y	

IV. Source Specific Applicable Requirements

Table IV - BB.6 **Source-Specific Applicable Requirements** NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER **EQUALIZATION TANKS**

	5101 (TANK 104), 5102 (TANK 103), 5100 (TA	,	E 4
Applicable		Federally	Future
Requirement	Regulation Title or	Enforceable	Effective
Kequitement	Description of Requirement	(Y/N)	Date
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks;	Y	
	Record retention		
60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external	Y	
	floating		
60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external	Y	
	floating roof control equipment description and certification		
60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external	Y	
	floating roof seal gap measurement report – content requirements		
60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external	Y	
	floating roof seal gap measurement records requirements		
60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external	Y	
	floating roof seal gap exceedance report		
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
60.116b(e)	Monitoring of Operations; Determine TVP	Y	
60.116b(e)(3)	Monitoring of Operations; Determine TVP-other liquids	Y	
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or	Y	
.,	variable composition)		
40 CFR 60, Subpart	Standards of Performance for VOC Emissions from Petroleum		
QQQ	Refinery Wastewater Systems (10/17/2000)		
	REQUIREMENTS FOR STORAGE VESSELS ALSO		
	SUBJECT TO NSPS, Subpart Kb		
60.690(a)(1)	Applicability and Designation of Affected Facility	Y	
60.690(a)(3)	Applicability and Designation of Affected Facility	Y	
60.692-1	Standards: General	Y	
60.692-1(a)	Standards: General	Y	
60.692-1(b)	Standards: General	Y	
60.692-3	Standards: Oil-Water Separators (includes storage vessels)	Y	
60.692-3(d)	Standards: Oil-Water Separators (includes storage vessels) – Overlap	Y	
	with Kb		
60.692-6	Standards: Delay of Repair	Y	
60.692-6(a)	Standards: Delay of Repair	Y	
60.692-6(b)	Standards: Delay of Repair	Y	
60.697	Recordkeeping Requirements	Y	
60.697(a)	Recordkeeping Requirements	Y	
60.697(e)(1)	Recordkeeping Requirements	Y	
60.697(e)(1)	Recordkeeping Requirements	Y	
	Recordkeeping Requirements Recordkeeping Requirements	Y	
60.697(e)(3)	7 0 7		
60.697(e)(4)	Recordkeeping Requirements	Y	
60.697(f)(1)	Recordkeeping Requirements	Y	
60.697(f)(2)	Recordkeeping Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.6 Source-Specific Applicable Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS

S101 (TANK 104), S102 (TANK 105), S106 (TANK 130)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61 Subpart	National Emission Standards for Benzene Waste Operations		
<u>FF</u>	(12/04/2003)		
	Alternative Standards for Tanks; External floating roof meeting the		
40 CFR 61.351(a)(2)	requirements of 40 CFR 60.112b(a)(2)	Y	
	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt		
40 CFR 61.351(b)	from 61.343	Y	
	Recordkeeping Requirements: Comply with recordkeeping		
40 CFR 61.356(k)	requirements of 40 CFR 60.115b	Y	
	Reporting Requirements: : Comply with reporting requirements of 40		
40 CFR 61.357(f)	CFR 60.115b		
40 CFR 63, Subpart	National Emission Standards for Hazardous Pollutants for		
CC	Petroleum Refining (11/26/18)		
	REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES		
63.640(c)(3)	Wastewater streams and treatment operations associated with	Y	
	petroleum refining process units meeting the criteria of section		
	63.640(a)		
63.641	Definitions: Group 1 and Group 2 Wastewater Streams	Y	
63.655(a)	Reporting and Recordkeeping Requirements: Wastewater – no	Y	
	reporting and recordkeeping requirements for wastewater except for		
	Group 1 wastewater streams		
BAAQMD	Throughput limits for sources S101, S102, S106 [Basis: 2-1-234.3]	Y	
Condition 20989,			
Part A			

Applicable		Federally Enforce-	Future
Requirement	Regulation Title or	able	Effective
	Description of Requirement	(Y/N)	Date
S448 will be subject to	the requirements of Table IV-BB.7A when storing materials subject to	NSPS Kb and	
BAAQMD 8, Rule 5.	S448 will be subject to the requirements of Table IV-BB.7B when storing	g materials exe	empt from
NSPS Kb and BAAA	MD 8, Rule 5.		
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	REQUIREMENTS FOR INTERNAL FLOATING ROOF		
Rule 5	TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	

IV. Source Specific Applicable Requirements

	5440 (TANK 1007)	Endoualle.	
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service,	N	Bute
0 0 11111	Notification	1,	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	N	
	Tank in compliance at time of notification		
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service;	N	
	Filling, emptying, refilling floating roof tanks		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	N	
	Minimize emissions and, if required, degas per 8-5-328		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	N	
	Self report if out of compliance during exemption period		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation		
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Notification		
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Tank in compliance at time of notification		
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; No product movement, Minimize emissions		
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Not to exceed 7 days		
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Self report if out of compliance during		
	exemption period		
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Keep records for each exemption		
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring	N	
	Program		
8-5-301	Storage Tank Control Requirements	N	
8-5-305	Requirements for Internal Floating Roof Tanks	N	
8-5-305.2	Requirements for Internal Floating roof tanks; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roof tanks; Viewports in fixed	Y	
	roof tank; not required if dome roof has translucent panels		
8-5-305.4	Requirements for Internal Floating roof tanks; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roof tanks; Floating roof	N	
	requirements		
8-5-305.6	Requirements for Internal Floating roof tanks; Tank shell in good	N	
	operating condition		
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid	N	
	surface		

IV. Source Specific Applicable Requirements

	5770 (TANK 1007)	Federally	
Applicable Requirement	Regulation Title or	Enforce- able	Future Effective
	Description of Requirement	(Y/N)	Date
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.3.2	Floatinf Roof Tank Fitting Requirements; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells	N	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellsprojection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellscover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells total secondary seal gap must include well gap	Y	
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains must be 90% covered	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements - geometry of shoe	N	
8-5-321.3.2	Primary seal requirements; Metallic-shoe-type seal requirements - welded tanks gap requirements	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N	
8-5-322.2	Secondary seal requirements; Insertion of probes	N	
8-5-322.5	Secondary seal requirements; Gap requirements for welded external floating roof tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal requirements; extent of seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	

IV. Source Specific Applicable Requirements

	5770 (TANK 1007)	Federally	
Applicable Requirement	Regulation Title or Description of Requirement	Enforce- able (Y/N)	Future Effective Date
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seals requirements; Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seals requirements; Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
40 CFR 60, Subpart Kb	Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/03) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks- > 151 cu m with maximum TVP >= 5.2 kPa and <76.6; or >= 75 cu m and < 151 cu m with maximum TVP >= 27.6 kPa and < 76.6 kPa	Y	
60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y	
60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y	
60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y	
60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y	
60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y	
60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y	
60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y	
60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y	
60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y	

IV. Source Specific Applicable Requirements

S448 (TANK 1007)			
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y	
60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y	
60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before filling. Repair any defects found during inspection before filling.	Y	
60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual visual inspection through manholes and hatches (if complying with 40 CFR 60.113b(a)(3)(ii))	Y	
60.113b(a)(3)	Testing and Procedures; Internal floating roof with double seal system, inspection requirements	Y	
60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, inspection requirements - visually inspect per 40 CFR 60.113b(a)(2) annually and per 40 CFR 60.113b(a)(4) every 10 years.	Y	
60.113b(a)(4)	Testing and Procedures; Internal floating roof inspection requirements each time tank is emptied and degassed (10 year intervals if complying with 40 CFR 60.113b(a)(3)(ii))	Y	
60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y	
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks; Record retention	Y	
60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof tanks	Y	
60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y	
60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y	
60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y	
60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
60.116b(e)	Monitoring of Operations; Determine TVP	Y	
60.116b(e)(2)	Monitoring of Operations; Determine TVP-crude oil and refined petroleum	Y	
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (11/26/18) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS ALSO SUBJECT TO NSPS, Subpart Kb		

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(n)(2)	Applicability and Designation of Affected Source Overlap for Storage Vessels-Existing Group 1 also subject to Kb only subject to Kb and 63.640(n)(8).	Y	
63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(vii)	Applicability and Designation of Affected Source Overlap for Storage Vessels-Additional requirements for Kb storage vessels	Y	
BAAQMD Condition 12133			
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	
Part 4	Alternate Operating Scenario	Y	
Part 4a	Log of the stored material [Basis: 40 CFR 70.6(a)(9), BAAQMD Regulation 2-6-409.7]	Y	
Part 4b	Notification requirement for refilling with Reg. 8-5- or NSPS Subpart Kb – regulated material	Y	
Part 4c	Inspection requirement prior to refilling with Reg. 8-5- or NSPS Subpart Kb – regulated material	Y	

IV. Source Specific Applicable Requirements

	5448 (TANK 1007)		
A 12 1.1 .		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
S448 will be subject	to the requirements of Table IV-BB.9A when storing materials subject to	NSPS Kb and E	BAAQMD
8, Rule 5. S448 will	be subject to the requirements of Table IV-BB.9B when storing materials	exempt from N	SPS Kb
and BAAAMD 8, Ru	ule 5.		
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	EXEMPT		
Rule 5			
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8,	Organic Compounds, Storage of Organic Liquids (6/5/03)		
Rule 5	EXEMPT		
8-5-117	Exemption, Low Vapor Pressure	Y	
40 CFR 60,	Standards of Performance for Storage Vessels for Volatile Organic		
Subpart Kb	Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/2003)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for	Y	
	low vapor pressure; NSPS Kb does not apply to vessels with capacity	_	
	> 151 cu m and TVP < 3.5 kPa or to vessels with capacity $>= 75$ cu m		
	and <= 151 cu m and TVP < 15.0 kPa		
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for		
Subpart CC	Petroleum Refining (11/26/18)		
•	REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		
The tanks in this tab	le will be subject to the provisions of 40 CFR 63.646 and the referenced re	quirements of 4	10 CFR 63,
	pliance with 40 CFR 63.660 and the referenced requirements contained in		
	specified in 40 CFR 63.640(h), 63.660, and 63.1063.		•
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports-	Y	
03.033(11)(0)	Determination of Applicability	_	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports-	Y	
	Determination of Applicability		
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Keep records specified in 40 CFR 63.123	Y	
63.655(i)(1)(iv)	Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
	storage vessels – Data and assumptions used to determine Group 2 classification		
63.655(i)(1)(vi)	Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
32.022(1)(1)(1)	storage vessels – Data and assumptions used to determine Group 2 classification	•	
	1	1	

IV. Source Specific Applicable Requirements

Table IV – BB.7B Source-Specific Applicable Requirements NSPS KB ZERO-GAP INTERNAL FLOATING ROOF TANK BUT WITH NSPS KB AND BAAQMD 8-5 FLEXIBILITY S448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.655(i)(6)	Reporting and Recordkeeping Requirements-RecordkeepingRecord retention – 5 years	Y	
BAAQMD Condition 12133			
Part 1	Throughput of materials that are not subject to Regulation 8, Rule 5 and 40 CFR Part 60 Subpart Kb is not restricted. [Basis: Cumulative Increase]	Y	
Part 2	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	
Part 4	Alternate Operating Scenario	Y	
Part 4a	Log of the stored material [Basis: 40 CFR 70.6(a)(9), BAAQMD Regulation 2-6-409.7]	Y	
Part 4b	Notification requirement for refilling with Reg. 8-5- or NSPS Subpart Kb – regulated material	Y	
Part 4c	Inspection requirement prior to refilling with Reg. 8-5- or NSPS Subpart Kb – regulated material	Y	
BAAQMD Condition 20773			_
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	

Applicable		Federally Enforce-	Future
Requirement	Regulation Title or	able	Effective
	Description of Requirement	(Y/N)	Date
BAAQMD Regulation 8,	Organic Compounds, Storage of Organic Liquids (10/18/06) REQUIREMENTS FOR INTERNAL FLOATING ROOF		
Rule 5	TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	N	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-305	Requirements for Internal Floating Roof Tanks	N	
8-5-305.2	Requirements for Internal Floating roof tanks; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roof tanks; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roof tanks; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roof tanks; Floating roof requirements	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or	N	
	gauging wells		
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or	Y	
	gauging wellsprojection below liquid surface		
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or	Y	
	gauging wellscover, seal, or lid		
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or	Y	
	gauging wells total secondary seal gap must include well gap		
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains	N	
	must be 90% covered		
8-5-321	Primary seal requirements	N	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid	Y	
	mounted except as provided in 8-5-305.1.3		
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements -	N	
	geometry of shoe		
8-5-321.3.2	Primary seal requirements; Metallic-shoe-type seal requirements -	N	
	welded tanks gap requirements		
8-5-322	Secondary seal requirements	N	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N	
8-5-322.2	Secondary seal requirements; Insertion of probes	N	
8-5-322.5	Secondary seal requirements; Gap requirements for welded external floating roof tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal requirements; extent of seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual	N	
6-3-402.2	Inspection of Outer Most Seal	19	
8-5-402.3	Inspection of Otter Wost Sear Inspection Requirements for Internal Floating Roof Tanks; Tank	N	
0-3-402.3	Fitting Inspection	11	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test	N	
0-3-404	Reports	14	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of	N	
0-3-411.1	tanks selected for enhanced monitoring program	14	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating	N	
	enhanced monitoring program	1,	
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IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP-Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	able (Y/N)	Date
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and	Y	Dute
	certification before commencement of work per 8-5-404	_	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement;	Y	
	minimization of emissions		
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seals requirements; Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seals requirements; Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93 – note 2	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
40 CFR 63,	SOCMI HON G (12/21/2006)		
Subpart G	REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS		
63, subpart G until c	le will be subject to the provisions of 40 CFR 63.646 and the referenced rompliance with 40 CFR 63.660 and the referenced requirements contained, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.	d in 40 CFR 63	
63.119(a)	Storage Vessel Provisions Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions Reference Control TechnologyGroup 1, TVP < 76.6 kPa	Y	
63.119(b)	Storage Vessel Provisions Reference Control Technology— Internal floating roof	Y	
63.119(b)(1)	Storage Vessel Provisions Reference Control Technology Internal floating roofMust float on liquid	Y	
63.119(b)(1)(i)	Storage Vessel Provisions Reference Control Technology Internal floating roofMust float on liquid except during initial fill	Y	
63.119(b)(1)(ii)	Storage Vessel Provisions Reference Control Technology Internal floating roof Must float on liquid except after completely emptied and degassed	Y	
63.119(b)(1)(iii)	Storage Vessel Provisions Reference Control Technology Internal floating roof Must float on liquid except when completely emptied before refilling	Y	
63.119(b)(2)	Storage Vessel Provisions Reference Control Technology Internal Floating Roof Operations, when not floating	Y	
63.119(b)(3)	Storage Vessel Provisions Reference Control Technology Internal floating roof – seals; must have at least one seal	Y	
63.119(b)(3)(i)	Storage Vessel Provisions Reference Control Technology Internal floating roof – seal option; single liquid-mounted seal	Y	
63.119(b)(3)(ii)	Storage Vessel Provisions Reference Control Technology Internal floating roof - seal option; single metallic shoe seal	Y	
63.119(b)(3)(iii)	Storage Vessel Provisions Reference Control Technology Internal floating roof - seal option; double seal, lower can be vapor mounted	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.8 Source-Specific Applicable Requirements INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS PREVIOUSLY EXTERNAL FLOATING ROOF TANKS S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

Federally Future **Enforce-Applicable Effective** Requirement Regulation Title or able **Description of Requirement** (Y/N)Date 63.119(b)(4) Storage Vessel Provisions -- Reference Control Technology--Internal floating roof – automatic bleeder valve requirements 63.120(a) Storage Vessel Provisions -- Procedures to Determine Compliance--Y Compliance Demonstration--Internal floating roof 63.120(a)(1) Storage Vessel Provisions -- Procedures to Determine Y Compliance—Internal FR tank inspection schedule Y 63.120(a)(3) Storage Vessel Provisions -- Procedures to Determine Compliance—Internal FR tank inspections – tanks with double seals 63.120(a)(3)(ii) Storage Vessel Provisions -- Procedures to Determine Compliance--Y Internal FR tank inspections – tanks with double seals - annual visual inspection of IFR and secondary seal through manholes and roof hatches. Also must comply with 63.120(a)(3)(iii) every time emptied and degassed and every 10 years. 63.120(a)(3)(iii) Storage Vessel Provisions -- Procedures to Determine Compliance--Y Internal FR tank inspections – tanks with double seals - visually inspect IFR and both seals each time emptied and degassed and at least once every 10 years [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)]. Also must comply with annual visual inspection in 63.120(a)(3)(ii). 63.120(a)(4) Storage Vessel Provisions -- Procedures to Determine Compliance Y Internal FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented. Storage Vessel Provisions -- Procedures to Determine Compliance Y 63.120(a)(5) Internal FR and seal visual inspection each time emptied – 30 day notification required for 10 year inspection (63.120(a)(3)(iii)) Storage Vessel Provisions -- Procedures to Determine Compliance--Y 63.120(a)(6) External FR and seal visual inspection each time emptied --Notification for unplanned 63.120(a)(7) Storage Vessel Provisions -- Procedures to Determine Compliance--Y Internal FR and seal visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)] Y 63.123(a) Storage Vessel Provisions -- Recordkeeping--Group 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source. 63.123(c) Storage Vessel Provisions -- Recordkeeping--Group 1 Internal Y floating roof tank requirements - records of each tank inspection Y 63.123(g) Storage Vessel Provisions -- Recordkeeping, Extensions for emptying storage vessel - keep documentation specified

IV. Source Specific Applicable Requirements

Table IV – BB.8 Source-Specific Applicable Requirements INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS PREVIOUSLY EXTERNAL FLOATING ROOF TANKS S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (11/26/18) REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS		
63, subpart G until c	le will be subject to the provisions of 40 CFR 63.646 and the referenced rompliance with 40 CFR 63.660 and the referenced requirements contained, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(h)	Compliance by dates specified in Table 11, except as provided in paragraphs (h)(1) through (h)(3)	Y	
63.646	Upon demonstration of compliance with the standards in 63.660 by the compliance dates specified in 63.640(h), the standards in this section shall no longer apply.	Y	
63.646(a)	Storage Vessel Provisions-Group 1	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.646(c)	Storage Vessel Provisions—63 Subpart G exclusions for storage vessels [IFRs exempt from 63.119(b)(5) and (b)(6)]	Y	
63.646(d)	Storage Vessel Provisions-References	Y	
63.646(d)(2)	Storage Vessel Provisions-References to April 22,1994	Y	
63.646(d)(3)	Storage Vessel Provisions-References to December 31, 1992	Y	
63.646(d)(4)	Storage Vessel Provisions-References to compliance dates in 63.100 of Subpart F	Y	
63.646(e)	Storage Vessel Provisions—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals.	Y	
63.646(f)	Storage Vessel Provisions-Group 1 floating roof requirements	Y	
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements- Covers or lids closed except when in use	Y	
63.646(f)(2)	Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements	Y	
63.646(f)(3)	Storage Vessel Provisions-Group 1 floating roof requirements- Automatic bleeder vents requirements	Y	
63.646(l)	Storage Vessel Provisions-State or local permitting agency notification requirements	Y	
63.655(f)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements	Y	
63.655(f)(1)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements	Y	
63.655(f)(1)(i)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reportingstorage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.8 Source-Specific Applicable Requirements INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS PREVIOUSLY EXTERNAL FLOATING ROOF TANKS S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

		Federally	
Applicable		Enforce-	Future
Requirement	Regulation Title or	able	Effective
	Description of Requirement	(Y/N)	Date
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements-Reportingstorage vessels		
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
(1)	status report requirements-Reportingstorage vessels		
63.655(g)	Periodic Reporting and Recordkeeping Requirements	Y	
63.655(g)(1)	Periodic Reporting and Recordkeeping Requirements-storage	Y	
	vessels [Information related to gaskets, slotted membranes, and		
	sleeve seals not required for storage vessels that are part of existing		
	source]		
63.655(g)(2)(i)	Periodic Reporting and Recordkeeping Requirements- internal	Y	
	floating roof tanks – submit results of each tank inspection where		
	failure is detected in control equipment		
63.655(g)(2)(i)(A)	Periodic Reporting and Recordkeeping Requirements-internal	Y	
	floating roof tanks – submit results of each tank inspection where		
	failure is detected in control equipment – annual inspection reports		
63.655(g)(2)(i)(A)(Periodic Reporting and Recordkeeping Requirements- internal	Y	
1)	floating roof tanks – submit results of each tank inspection where		
	failure is detected in control equipment – annual inspection report;		
	definition of failure		
63.655(g)(2)(i)(A)(Periodic Reporting and Recordkeeping Requirements—internal	Y	
2)	floating roof tanks - submit results of each tank inspection where		
	failure is detected in control equipment – annual inspection report;		
	Periodic Report requirements		
63.655(g)(2)(i)(A)(Periodic Reporting and Recordkeeping Requirements—internal	Y	
3)	floating roof tanks – submit results of each tank inspection where		
	failure is detected in control equipment – annual inspection report;		
	extension documentation		
63.655(g)(2)(i)(B)	Periodic Reporting and Recordkeeping Requirements- internal	Y	
	floating roof tanks – submit results of each tank inspection where		
	failure is detected in control equipment – internal inspection report		
40 455 () (0) (1) (7) (
63.655(g)(2)(i)(B)(Periodic Reporting and Recordkeeping Requirements- internal	Y	
1)	floating roof tanks – submit results of each tank inspection where		
	failure is detected in control equipment – internal inspection report;		
60.655(.)(0)(0)(0)(0)	definition of failure	***	
63.655(g)(2)(i)(B)(Periodic Reporting and Recordkeeping Requirements- internal	Y	
2)	floating roof tanks – submit results of each tank inspection where		
	failure is detected in control equipment – internal inspection report;		
(2) (55()(2)(")	Periodic report requirements	37	
63.655(g)(2)(ii)	Periodic Reporting and Recordkeeping Requirements- internal	Y	
	floating roof tanks- submit results of each tank inspection where		

IV. Source Specific Applicable Requirements

Table IV – BB.8 Source-Specific Applicable Requirements INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS PREVIOUSLY EXTERNAL FLOATING ROOF TANKS S126 (TANK 172), S257 (TANK 1004), S258 (TANK 1005)

Applicable Requirement	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
	failure is detected in control equipment – internal inspection report; Periodic report requirements	(2/11)	2
63.655(h)(2)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections.	Y	
63.655(h)(2)(i)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections – refilling Group 1 storage vessel.	Y	
63.655(h)(2)(ii)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local].	Y	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – keep records specified in 63.123 (Subpart G)	Y	
63.655(i)(1)(i)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels—keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources. Each owner or operator subject to the storage vessel provisions in 63.660 shall keep records as specified in paragraphs (i)(1)(v) and (vi).	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years	Y	
63.660	Storage vessel provisions. Group 1 storage vessel shall comply with the requirements in 40 CFR 63, subpart WW according to the requirements of 63.660(a) through (i).	Y	
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
63.660(i)	Requirements for electing to comply with subpart SS	Y	
BAAQMD Condition 20989, Part A	Throughput limits for sources S257, S258 [Basis: 2-1-234.3]	N	
BAAQMD Condition 26689			
Part 1	Throughput limit for source S126. [Basis: Cumulative Increase]	Y	
Part 2	Storage material vapor pressure limit for S126. [Basis: Cumulative Increase]	Y	
Part 3	Recordkeeeping for S126. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

2 Seals in S257 and S258 were installed prior to 2/1/1993, but these tanks will be treated as zero-gap tanks because the seals have met these requirements when the tanks were considered external floating roof.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
BAAQMD	General Provisions and Definitions (5/4/11)		
Regulation 1	Parametric Monitoring and Recordkeeping Procedures	NT.	
1-523.1	Parametric monitor periods of inoperation	N Y	
1-523.2	Limits on periods of inoperation		
1-523.3	Reports of Violations	Y	
		N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	\mathbf{Y}^{1}	
1-523.3	Reports of Violations	Y ¹	
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (11/3/21) REQUIREMENTS FOR FIXED ROOF TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	N	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	N	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	N	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	N	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	N	

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	N	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	N	
8-5-112.6	Tank Records	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks	N	
8-5-307.1	Shell in good condition with no leakage	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	N	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	N	
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	N	
8-5-501.3	Records retained for 24 months	N	
8-5-501.4	Engineering data sheets showing setpoints for pressure vacuum valves installed after 6/1/07	N	
8-5-602	Analysis of Samples, True Vapor Pressure	N	
8-5-603	Determination of emissions	N	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	N	
8-5-604	Determination of Applicability	N	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (6/5/03)		

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
40 CFR 60, Subpart Kb	Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/2003) REQUIREMENTS FOR FIXED ROOF TANKS		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic	Y	

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
	liquid storage vessels > or = to 40 cu m, after 7/23/1984		
60.112b(a)(3)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device	Y	
60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions per 60.485(b) (Subpart VV)	Y	
60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y	
60.112b(b)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device		
60.112b(b)(1)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device as specified in 60.112b(a)(3)		
60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y	
60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y	
60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating planefficiency demonstration	Y	
60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating planmonitoring parameters	Y	
60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y	
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks; Record retention	Y	
60.115b(c)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare)	Y	
60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy – Retain for life of control device	Y	
60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records – Retain for at least 2 years	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(e)	Monitoring of Operations; Determine TVP	Y	
60.116b(e)(2)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products	Y	
60.116b(g)	Monitoring of Operations; Exemption from 60.116b(c) and 60.116b(d) for tanks with closed vent system and control device	Y	
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for		
Subpart CC	Petroleum Refineries (11/26/18) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(d)(5)	Exemption for emission points routed to fuel gas system	Y	

IV. Source Specific Applicable Requirements

	5500 (TANK 251)		
Applicable	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	APPLICABLE TO S449		
Condition 11219			
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
BAAQMD	APPLICABLE TO S445		
Condition 12130			
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
BAAQMD	Throughput limit for source S360 [Basis: 2-1-234.3]	Y	
Condition 20989,			
Part A			
BAAQMD	APPLICABLE TO S135		
Condition 22518			
Part 1	Vapor pressure limit [Cumulative increase]	Y	
Part 3	Throughput limit [Cumulative increase]	Y	
Part 4	Control requirement [Cumulative increase]	Y	
Part 5	Prohibition on tank cleaning when switching products [Cumulative increase]	Y	
BAAQMD Condition 23724			
Part 1a	Requirement for abatement by A7, Odor Abatement System [2-1-403]	Y	
Part 2	Requirement for utility-grade natural gas blanket [2-1-403]	Y	
Part 3	Requirement for pressure monitoring device for S135 by 7/5/09. [2-1-403]	Y	
Part 4	After pressure monitoring devices are installed, requirement to operate below tank set pressure [2-1-403]	Y	
Part 4a	Tank pressures for tanks subject to Regulation 8, Rule 5 [Regulation 8, Rule 5]	Y	
Part 5	Pressure relief valve setting at or above nominal set pressure	Y	
Part 6	Corrective Plan	Y	
Part 7	Pressure monitoring records [2-1-403]	Y	
Part 8	Initial date for reporting pressures in excess of nominal set pressure 7/5/09	Y	
Part 9	Compliance with nuisance and odor regulations [1-301, 7-301, 7-302]	Y	

IV. Source Specific Applicable Requirements

	5440 (TANK 510), 5447 (TANK 511)	Federally	
		Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (11/3/21) REQUIREMENTS FOR FIXED ROOF TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	N	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying tanks so equipped	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-306	Requirements for approved Emission Control System	N	
8-5-306.1	Requirements for approved Emission Control System; Abatement Efficiency >=95%	N	
8-5-307	Requirements for fixed roof tanks, pressure tanks and blanketed tanks	N	

IV. Source Specific Applicable Requirements

	S446 (TANK 310), S447 (TANK 311)	Federally	
		Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-307.1	Requirements for fixed roof tanks, pressure tanks and blanketed tanks; no liquid leakage through shell	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control system and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
SIP Regulation 8 Rule 5	, Storage of Organic Liquids (06/05/2003)		

IV. Source Specific Applicable Requirements

	S440 (TANK 310), S447 (TANK 311)	Federally	
		Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
-			Date
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, operation, and gas tight requirements	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Relief Devices	Y	

IV. Source Specific Applicable Requirements

	5440 (TANK 510), 5447 (TANK 511)	Federally	
		Enforce-	Future
Applicable	Regulation Title or	able	Effective
			Date
Requirement	Description of Requirement	(Y/N)	Date
8-5-404	Certification	Y Y	
8-5-501	Records		
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Source tests for approved emission control systems	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
40 CFR 60,	Standards of Performance for Storage Vessels for Volatile Organic		
Subpart Kb	Liquid Storage Vessels for Which Construction, Reconstruction, or		
•	Modification Commenced After July 23, 1984 (10/15/03)		
	REQUIREMENTS FOR FIXED ROOF TANKS		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic	Y	
	liquid storage vessels > or = to 40 cu m, after 7/23/1984		
60.112b(a)(3)	Standard for Volatile Organic Compounds (VOC); Closed vent system	Y	
	and control device		
60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system	Y	
	and control device no detectable emissions per 60.485(b) (Subpart VV)		
60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system	Y	
	and control device >= 95% inlet VOC emission reduction		
60.112b(b)	Standard for Volatile Organic Compounds (VOC); Requirements for	Y	
	tanks >= 75 cu m and maximum TVP >= 76.6 kPa (11.1 psia)		
60.112b(b)(1)	Standard for Volatile Organic Compounds (VOC); Closed vent system	Y	
	and control device option per 40 CFR60.112b(a)(3)		
60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y	
60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not	Y	
0011100(0)(1)	flare) operating plan submission	-	
60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not	Y	
	flare) operating planefficiency demonstration		
60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not	Y	
	flare) operating planmonitoring parameters		
60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not	Y	
	flare) operate in accordance with operating plan		
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks; Record	Y	
	retention	_	
60.115b(c)	Reporting and Recordkeeping Requirements; Closed vent system and	Y	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	control device (not flare)		
60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and	Y	
. / . /	control device (not flare) operating plan copy – Retain for life of control		
	device		

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records – Retain for at least 2 years	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(e)	Monitoring of Operations; Determine TVP	Y	
60.116b(e)(2)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products	Y	
60.116b(g)	Monitoring of Operations; Exemption from 60.116b(c) and 60.116b(d) for tanks with closed vent system and control device	Y	
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (11/26/18) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(d)(5)	Exemption for emission points routed to fuel gas system	Y	
BAAQMD Condition 12131	APPLICABLE TO S446		
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
BAAQMD Condition 12132	APPLICABLE TO S447		
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

S97 (TANK 100), S98, (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

,	ANK 1001), 5255 (TANK 1002), 5250 (TANK 1005), 5257	Federally	Future
A 12 1.1 .	Danulation Title on	Enforce-	Effective
Applicable Requirement	Regulation Title or Description of Requirement	able (Y/N)	Date
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)	(1/11)	Date
Regulation 8,			
Rule 5	REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service Limited Exemption, Tank Removal From and Return to Service,	N N	
8-3-111.1		IN	
8-5-111.1.1	Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service,	Y	
0.5.111.1.2	Notification, 3 day prior notification	37	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service,	Y	
0.7.111.2	Notification, Telephone notification	3.7	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank	N	
0.7.111.2	in compliance prior to notification	¥7	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service,	Y	
0.5.111.5	Floating roof tanks	T 7	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service,	Y	
0.7.110	Minimize emissions		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation		
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	N	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior	N	
	notification		
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone	N	
	notification		
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to	N	
	start of work. Certified per 8-5-404		
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement,	N	
	Minimize emissions		
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	N	
8-5-112.6	Tank Records	N	
8-5-119	Limited Exemption, Repair Period (Applies to S122, S123, S124,	N	
	S128, S150, S151, S177, S254, S255, S256, S259)		
8-5-301	Storage Tank Control Requirements (internal floating roof, external	N	
	floating roof, or approved emission control system)		
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal	Y	
	requirements		
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	N	

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

S97 (TANK 100), S98, (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

		Federally	Future
4 19 11	Described on Tilder on	Enforce-	
Applicable	Regulation Title or Description of Requirement	able	Effective
Requirement 8-5-304.5	Requirements for External Floating Roofs; Shell in good condition	(Y/N) N	Date
8-5-304.6		N N	
	Requirements for External Floating Roofs; tank pontoons	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers,	Y	
8-3-320.3	seals, lids	ı	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers,	Y	
8-3-320.3.1	seals, lids - Gap requirements	1	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well	Y	
8-3-320.4	requirements in floating roof tanks	1	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well	Y	
8-3-320.4.1	requirements-projection below liquid surface	ĭ	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well	Y	
8-3-320.4.2	requirements-cover, seal, or lid	ĭ	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well	Y	
8-3-320.4.3	requirements-gap between well and roof	1	
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	
8-5-320.7	Tank Fitting Requirements; Emergency roof drain Tank Fitting Requirements; Pressure relief devices	Y	
	Primary Seal Requirements	Y	
8-5-321			
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid	Y	
8-5-321.3	mounted except as provided in 8-5-305.1.3	Y	
	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-	Y	
8-5-321.3.2	geometry of shoe	Y	
8-3-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements- welded tanks	ĭ	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
	Secondary Seal Requirements; INO noies, tears, other openings Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.2		Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof	Y	
	· · · · · · · · · · · · · · · · · · ·		
9.5.222.6	tanks with seals installed after 2/1/1993	V	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y Y	
8-5-328	Tank Degassing Requirements		
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved	Y	
0.5.220.2	Emission Control System	37	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

S97 (TANK 100), S98, (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

2=1 (=	ANK 1001), \$255 (TANK 1002), \$250 (TANK 1003), \$25.	Federally	
		Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-405	Information Required	Y	
8-5-411	Enhanced Monitoring Program (Applies to list of tanks chosen by facility)_	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP – Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal	N	
	Replacement Records – Retain 10 years		
8-5-501.3	Records retained for 24 months	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination (applies only to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168), S128 (Tank 174), S129 (Tank 180), S178 (Tank 288))	Y	
SIP	Organic Compounds, Storage of Organic Liquids (6/5/03)		
Regulation 8 Rule 5			
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

S97 (TANK 100), S98, (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Satisfy requirements of 8-5-328		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of	Y	
0.7.110.1	Tanks in Operation	T7	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well requirements-projection below liquid surface	Y	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well requirements-cover, seal, or lid	Y	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well requirements-gap between well and roof	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks;	Y	
	Primary and Secondary Seal Inspections		
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

 $S97\ (Tank\ 100), S98, (Tank\ 101), S100\ (Tank\ 103), S107\ (Tank\ 150), S110\ (Tank\ 155), \\ S111\ (Tank\ 156), S112\ (Tank\ 157), S114\ (Tank\ 159), S115\ (Tank\ 160), S122\ (Tank\ 167), S123\ (Tank\ 168), S124\ (Tank\ 169), S128\ (Tank\ 174), S129\ (Tank\ 180), S150\ (Tank\ 241), S151\ (Tank\ 242), S177\ (Tank\ 287), S178\ (Tank\ 288), S186\ (Tank\ 298),$

S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006) Federally **Future** Enforce-**Applicable** Regulation Title or able Effective Requirement **Description of Requirement** (Y/N)Date Records; Type and amounts of liquid, type of blanket gas, TVP – 8-5-501.1 Retain 24 months 8-5-501.2 Records; Internal and External Floating Roof Tanks, Seal Y Replacement Records - Retain 10 years Y 8-5-503 Portable Hydrocarbon Detector 40 CFR 60. Standards of Performance for Storage Vessels for Volatile Subpart Kb Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23. 1984 (10/15/03) (Applies to S107 only) 40 CFR Standards for Volatile Organic Compounds (VOC); External 60.112b(a)(2)floating roof option Y Standards for Volatile Organic Compounds (VOC); External 40 CFR Y 60.112b(a)(2)(i)floating roof seal requirements 40 CFR Standards for Volatile Organic Compounds (VOC); External 60.112b(a)(2)(i)(A)floating roof primary seal requirements Y Standards for Volatile Organic Compounds (VOC); External 40 CFR floating roof secondary seal requirements 60.112b(a)(2)(i)(B) Y 40 CFR Standards for Volatile Organic Compounds (VOC); External 60.112b(a)(2)(ii) floating roof openings requirements Y 40 CFR Standards for Volatile Organic Compounds (VOC); External 60.112b(a)(2)(iii) floating roof floating requirements 60.113b(b)(1) Testing and Procedures; External floating roof seal gap Y measurement frequency Testing and Procedures; External floating roof primary seal gaps Y 60.113b(b)(1)(i) measurement frequency 60.113b(b)(1)(ii) Testing and Procedures; External floating roof secondary seal gaps Y measurement frequency Testing and Procedures; External floating roof reintroduction of Y 60.113b(b)(1)(iii) Y 60.113b(b)(2)Testing and Procedures; External floating roof seal gap measurement procedures Testing and Procedures; External floating roof measure seal gaps Y 60.113b(b)(2)(i)when roof is floating 60.113b(b)(2)(ii) Testing and Procedures; External floating roof measure seal gaps Y around entire circumference Y Testing and Procedures; External floating roof seal method to 60.113b(b)(2)(iii) determine surface area of seal gaps

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

 $S97\ (Tank\ 100), S98, (Tank\ 101), S100\ (Tank\ 103), S107\ (Tank\ 150), S110\ (Tank\ 155), \\ S111\ (Tank\ 156), S112\ (Tank\ 157), S114\ (Tank\ 159), S115\ (Tank\ 160), S122\ (Tank\ 167), S123\ (Tank\ 168), S124\ (Tank\ 169), S128\ (Tank\ 174), S129\ (Tank\ 180), S150\ (Tank\ 241), S151\ (Tank\ 242), S177\ (Tank\ 287), S178\ (Tank\ 288), S186\ (Tank\ 298),$

		Federally	E4
	D. J. d. Wild	Enforce-	Future
Applicable Requirement	Regulation Title or Description of Requirement	able (Y/N)	Effective Date
60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate	Y	Date
00.1130(0)(3)	total surface area ratio	1	
60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair	Y	
00.1130(0)(4)	requirements	1	
60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap	Y	
00.1150(0)(1)(1)	limitations	1	
60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe	Y	
0011100(0)(1)(1)(11)	primary seal requirements	-	
60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no	Y	
	holes, tears, openings		
60.113b(b)(4)(ii)	Testing and Procedures; External floating roof secondary seal gap	Y	
. , , , ,	limitations		
60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal	Y	
	installation		
60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	
60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no	Y	
	holes, tears, openings		
60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension	Y	
	request for seal gap repairs		
60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections	Y	
	30 day notification		
60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection	Y	
	when emptied and degassed		
60.113b(b)(6)(i)	Testing and Procedures; External floating roofroof or seal defect	Y	
	repairs		
60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to	Y	
	filling		
60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external		
	floating roof	Y	
40 CFR 61	National Emission Standards for Benzene Waste Operations		
Subpart FF	(12/04/2003) (Applies to S107 only)		
40 CFR	Alternative Standards for Tanks; External floating roof meeting the	37	
61.351(a)(2)	requirements of 40 CFR 60.112b(a)(2)	Y	
40 CED 61 251(L)	Alternative Standards for Tanks; Tanks subject to 61.351 and	37	
40 CFR 61.351(b)	exempt from 61.343	Y	
40 CFR 61.356(k)	Recordkeeping Requirements: Comply with recordkeeping requirements of 40 CFR 60.115b	Y	
40 CFK 01.330(K)	Reporting Requirements: : Comply with reporting requirements of	1	
40 CFR 61.357(f)	40 CFR 60.115b		
40 CIR 01.337(1)	70 CFR 00.1130		

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

S97 (TANK 100), S98, (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

	// \ // // // // // //	Federally	
		Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
NESHAPS Title 40	SOCMI HON G (12/21/2006)		
Part 63 Subpart G	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
1	TANKS		
The tanks in this tab	le will be subject to the provisions of 40 CFR 63.646 and the refere	nced requiren	nents of 40
	intil compliance with 40 CFR 63.660 and the referenced requireme		
63, subpart WW is d	lemonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063		
40 CFR 63.119(a)	Storage Vessel Provisions – Reference Control Technology	Y	
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(a)(1)	Group 1, TVP < 76.6 kPa		
40 CFR 63.119(c)	Storage Vessel Provisions – Reference Control Technology—	Y	
, ,	External floating roof		
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(c)(1)	External floating roof seals		
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(c)(1)(i)	External floating roof double seals required		
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(c)(1)(ii)	External floating roof primary seal requirements – metallic shoe or		
	liquid-mounted		
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(c)(1)(iii)	External floating roof seal requirements		
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(c)(3)	External floating roof—Must float on liquid		
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(c)(3)(i)	External floating roof –Must float on liquid except during initial		
	fill		
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(c)(3)(ii)	External floating roof—Must float on liquid except after		
	completely emptied and degassed		
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(c)(3)(iii)	External floating roof – Must float on liquid except when		
	completely emptied before refilling		
40 CFR	Storage Vessel Provisions – Reference Control Technology—	Y	
63.119(c)(4)	External Floating Roof Operations, when not floating		
40 CFR 63.120(b)	Storage Vessel Provisions – Procedures to Determine	Y	
	Compliance—Compliance Demonstration—External floating roof		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(1)	Compliance—External FR seal gap measurement		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(1)(i)	Compliance—External FR with double seals – primary seal gap		
	measurement – 5 year intervals		

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

\$97 (Tank 100), \$98, (Tank 101), \$100 (Tank 103), \$107 (Tank 150), \$110 (Tank 155), \$111 (Tank 156), \$112 (Tank 157), \$114 (Tank 159), \$115 (Tank 160), \$122 (Tank 167), \$123 (Tank 168), \$124 (Tank 169), \$128 (Tank 174), \$129 (Tank 180), \$150 (Tank 241), \$151 (Tank 242), \$177 (Tank 287), \$178 (Tank 288), \$186 (Tank 298),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(1)(iii)	Compliance—External FR with double seals – secondary seal gap		
	measurement – annual requirement		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(1)(iv)	Compliance—External FR seal inspections prior to tank refill with		
	organic HAP after not storing organic HAP for 1 year or longer		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(2)	Compliance—External FR seal gap determination methods		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(2)(i)	Compliance—External FR seal gap determination methods – roof		
	not resting on legs		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(2)(ii)	Compliance—External FR seal gap determination methods –		
	measure gaps around entire circumference of seal and measure		
	width and length of gaps		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(2)(iii)	Compliance—External FR seal gap determination methods –		
	determine total surface area of each gap		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(3)	Compliance—External FR primary seal gap calculation method –		
	total surface area of primary seal gaps <= 212 cm2 per meter of		
	vessel diameter. Maximum width <= 3.81 cm		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(4)	Compliance—External FR secondary seal gap calculation method		
	- total surface area of secondary seal gaps <= 21.2 cm2 per meter		
	of vessel diameter. Maximum width <= 1.27 cm		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(5)	Compliance—External FR primary seal additional requirements		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(5)(i)	Compliance—External FR primary seal additional requirements –		
	metallic shoe seal – shoe geometry		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(5)(ii)	Compliance—External FR primary seal additional requirements –		
	no holes, tears, or openings		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(6)	Compliance—External FR secondary seal requirements		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(6)(i)	Compliance—External FR secondary seal requirements – location		
	and extent		

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

\$97 (Tank 100), \$98, (Tank 101), \$100 (Tank 103), \$107 (Tank 150), \$110 (Tank 155), \$111 (Tank 156), \$112 (Tank 157), \$114 (Tank 159), \$115 (Tank 160), \$122 (Tank 167), \$123 (Tank 168), \$124 (Tank 169), \$128 (Tank 174), \$129 (Tank 180), \$150 (Tank 241), \$151 (Tank 242), \$177 (Tank 287), \$178 (Tank 288), \$186 (Tank 298),

		Federally Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	2
63.120(b)(6)(ii)	Compliance—External FR secondary seal requirements – no holes,	_	
	tears or openings		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(7)	Compliance—External FR unsafe to perform seal measurements or		
	inspect the tank		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(7)(i)	Compliance—External FR unsafe to perform seal measurements or		
	inspect the tank – complete measurements or inspection within 30		
	days after determining roof is unsafe or comply with 40 CFR		
	63.120(b)(7)(ii)		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(7)(ii)	Compliance—External FR unsafe to perform seal measurements or		
	inspect the tank – empty and remove vessel from service within 45		
	days after determining roof is unsafe or comply with 40 CFR		
	63.120(b)(7)(i). Two 30 day extensions are allowed to empty the		
	tank. Decision to use extension must be documented.		
40 CFR	Storage Vessel Provisions – Procedures to Determine Compliance	Y	
63.120(b)(8)	External FR Repairs must be made within 45 days after		
	identification or empty and remove tank from service. Two 30 day		
	extensions are allowed to empty the tank. Decision to use extension must be documented.		
	extension must be documented.		
40 CFR	Storage Vessel Provisions – Procedures to Determine Compliance	Y	
63.120(b)(9)	External FR seal gap measurement 30 day notification		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(10)	Compliance—External FR and seals visual inspection each time		
	emptied		
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(10)(i)	Compliance—External FR and seal visual inspection each time		
	emptied – Repair defects before refilling [does not apply to		
	gaskets, slotted membranes, or sleeve seals for Group 1 Refinery		
10.077	MACT tanks per 40 CFR 63.646(e)]	<u>-</u> -	
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(10)(ii)	Compliance—External FR and seal visual inspection each time		
40 CED	emptied – 30 day notification	37	
40 CFR	Storage Vessel Provisions – Procedures to Determine	Y	
63.120(b)(10)(iii)	Compliance—External FR and seal visual inspection each time		
	emptied Notification for unplanned		

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

 $S97\ (Tank\ 100), S98, (Tank\ 101), S100\ (Tank\ 103), S107\ (Tank\ 150), S110\ (Tank\ 155), \\ S111\ (Tank\ 156), S112\ (Tank\ 157), S114\ (Tank\ 159), S115\ (Tank\ 160), S122\ (Tank\ 167), S123\ (Tank\ 168), S124\ (Tank\ 169), S128\ (Tank\ 174), S129\ (Tank\ 180), S150\ (Tank\ 241), S151\ (Tank\ 242), S177\ (Tank\ 287), S178\ (Tank\ 288), S186\ (Tank\ 298),$

	(1ANK 1002), 5250 (1ANK 1003), 525	Federally	
	D. J. d. Will	Enforce-	Future
Applicable Requirement	Regulation Title or	able (Y/N)	Effective Date
40 CFR 63.123(a)	Description of Requirement Storage Vessel Provisions – Recordkeeping—Group 1 and Group	Y (1/N)	Date
40 CFK 05.125(a)	2 storage vessel dimensions and capacity. Keep for life of source.	I	
40 CFR 63.123(d)	Storage Vessel Provisions – Recordkeeping—Group 1 External	Y	
40 CFK 05.125(u)	floating roof tank requirements – records of seal gap measurements	1	
	(date, raw data, and required calculations)		
40 CFR 63.123(g)	Storage Vessel Provisions – Recordkeeping, Extensions for	Y	
40 CFK 05.125(g)	emptying storage vessel – keep documentation specified	1	
40 CFR 63 Subpart	NESHAPS for Petroleum Refineries (11/26/18)		
CC Subpart	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
CC	TANKS		
The tanks in this table	e will be subject to the provisions of 40 CFR 63.646 and the referenced	requirements of	of 40 CER
	impliance with 40 CFR 63.660 and the referenced requirements contain		
	as specified in 40 CFR 63.640(h), 63.660, and 63.1063.	cu iii 40 Ci K (oo, suopart
40 CFR	Applicability and Designation of Storage Vessels	Y	
63.640(c)(2)	Applicability and Designation of Storage Vessels	1	
63.640(h)	Compliance by dates specified in Table 11, except as provided in	Y	
03.040(11)	paragraphs (h)(1) through (h)(3)	1	
63.646	Upon demonstration of compliance with the standards in 63.660 by	Y	
03.040	the compliance dates specified in 63.640(h), the standards in this	1	
	section shall no longer apply.		
40 CFR 63.646(a)	Storage Vessel Provisions-Group 1	Y	
40 CFR	Storage Vessel Provisions-Determine stored liquid % OHAP for	Y	
63.646(b)(1)	group determination	_	
40 CFR	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.646(b)(2)	1		
40 CFR 63.646(c)	Storage Vessel Provisions—40 CFR 63 Subpart G exclusions for	Y	
` '	storage vessels [EFRs exempt from 63.119(c)(2)]		
40 CFR 63.646(d)	Storage Vessel Provisions-References	Y	
40 CFR	Storage Vessel Provisions-References to April 22,1994	Y	
63.646(d)(2)			
40 CFR	Storage Vessel Provisions-References to December 31, 1992	Y	
63.646(d)(3)			
40 CFR	Storage Vessel Provisions-References to compliance dates in 40	Y	
63.646(d)(4)	CFR 63.100 of Subpart F		
40 CFR 63.646(e)	Storage Vessel Provisions—Exceptions for compliance with	Y	
	inspection requirements of 40 CFR 63.120 of Subpart G – Not		
	required to comply with provisions for gaskets, slotted membranes,		
	and sleeve seals.		
40 CFR 63.646(f)	Storage Vessel Provisions-Group 1 floating roof requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

\$97 (Tank 100), \$98, (Tank 101), \$100 (Tank 103), \$107 (Tank 150), \$110 (Tank 155), \$111 (Tank 156), \$112 (Tank 157), \$114 (Tank 159), \$115 (Tank 160), \$122 (Tank 167), \$123 (Tank 168), \$124 (Tank 169), \$128 (Tank 174), \$129 (Tank 180), \$150 (Tank 241), \$151 (Tank 242), \$177 (Tank 287), \$178 (Tank 288), \$186 (Tank 298),

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		Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR	Storage Vessel Provisions—Group 1 floating roof requirements-	Y	
63.646(f)(1)	Covers or lids closed except when in use		
40 CFR	Storage Vessel Provisions-Group 1 floating roof requirements-Rim	Y	
63.646(f)(2)	space vents requirements		
40 CFR	Storage Vessel ProvisionSGroup 1 floating roof requirements-	Y	
63.646(f)(3)	Automatic bleeder vents requirements		
40 CFR 63.646(l)	Storage Vessel Provisions-State or local permitting agency	Y	
	notification requirements		
40 CFR 63.655(f)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements		
40 CFR	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
63.655(f)(1)	status report requirements		
40 CFR	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
63.655(f)(1)(i)	status report requirements-Reporting—storage vessels		
40 CFR	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
63.655(f)(1)(i)(A)	status report requirements-Reporting—storage vessels		
40 CFR	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
63.655(f)(1)(i)(A)	status report requirements-Reporting—storage vessels		
(1)			
40 CFR 63.655(g)	Periodic Reporting and Recordkeeping Requirements	Y	
40 CFR	Periodic Reporting and Recordkeeping Requirements-storage	Y	
63.655(g)(1)	vessels [Information related to gaskets, slotted membranes, and		
	sleeve seals not required for storage vessels that are part of existing		
	source]		
40 CFR	Periodic Reporting and Recordkeeping Requirements-storage	Y	
63.655(g)(3)(i)	vessels with external floating roofs		
40 CFR	Periodic Reporting and Recordkeeping Requirements-storage	Y	
63.655(g)(3)(i)(A)	vessels with external floating roofs document results of each seal		
	gap measurement		
10 CED		***	
40 CFR	Periodic Reporting and Recordkeeping Requirements-storage	Y	
63.655(g)(3)(i)(B)	vessels with external floating roofs – extension documentation	3.7	
40 CFR	Periodic Reporting and Recordkeeping Requirements-storage	Y	
63.655(g)(3)(i)(C)	vessels with external floating roofs – documentation of failures	N/	
40 CFR	Periodic Reporting and Recordkeeping Requirements-storage	Y	
63.655(g)(3)(ii)	vessels with external floating roofs – documentation of failures	Y	
40 CFR	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections.	Y	
63.655(h)(2)		Y	
40 CFR	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
63.655(h)(2)(i)	vessel notification of inspections – refilling Group 1 storage vessel.		

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

\$97 (Tank 100), \$98, (Tank 101), \$100 (Tank 103), \$107 (Tank 150), \$110 (Tank 155), \$111 (Tank 156), \$112 (Tank 157), \$114 (Tank 159), \$115 (Tank 160), \$122 (Tank 167), \$123 (Tank 168), \$124 (Tank 169), \$128 (Tank 174), \$129 (Tank 180), \$150 (Tank 241), \$151 (Tank 242), \$177 (Tank 287), \$178 (Tank 288), \$186 (Tank 298),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
40 CFR 63.655(h)(2)(ii)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections —Group 1 storage vessel seal gap measurements — 30 day notification [can be waived or modified by state or local].	Y	
40 CFR 63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
40 CFR 63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
40 CFR 63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – keep records specified in 40 CFR 63.123 (Subpart G)	Y	
40 CFR 63.655(i)(1)(i)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels— keep records specified in 40 CFR 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources. Each owner or operator subject to the storage vessel provisions in 63.660 shall keep records as specified in paragraphs (i)(1)(v) and (vi).	Y	
40 CFR 63.655(i)(6)	Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years	Y	
63.660	Storage vessel provisions. Group 1 storage vessel shall comply with the requirements in 40 CFR 63, subpart WW according to the requirements of 63.660(a) through (i).	Y	
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
63.660(i)	Requirements for electing to comply with subpart SS	Y	
BAAQMD Condition 20989, Part A	Throughput limits for sources S100, S107, S110, S111, S112, S114, S115, S177, S254, S255, S256, S259 [Basis: 2-1-234.3]	N	
BAAQMD Condition 20989, Part A	Throughput limits for sources S129, S150, S151, S178 [Basis: 2-1-234.3]	Y	
BAAQMD Condition 22478	Applies to S123, S124, S186		
Part 1	Vapor pressure limit for S123 [Basis: cumulative increase]	Y	
Part 2	Vapor pressure limit for S124 [Basis: cumulative increase]	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.11 Source-Specific Applicable Requirements

MACT ZERO-GAP EXTERNAL FLOATING ROOF TANKS

S97 (Tank 100), S98, (Tank 101), S100 (Tank 103), S107 (Tank 150), S110 (Tank 155), S111 (Tank 156), S112 (Tank 157), S114 (Tank 159), S115 (Tank 160), S122 (Tank 167), S123 (Tank 168), S124 (Tank 169), S128 (Tank 174), S129 (Tank 180), S150 (Tank 241), S151 (Tank 242), S177 (Tank 287), S178 (Tank 288), S186 (Tank 298), S254 (Tank 1001), S255 (Tank 1002), S256 (Tank 1003), S259 (Tank 1006)

		Federally Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 3	Emissions limit for S186 [Basis: cumulative increase]	Y	
Part 5	Throughput limit for S123 [Basis: cumulative increase]	Y	
Part 6	Throughput limit for S124 [Basis: cumulative increase]		
Part 8a	BACT equipment requirements for S123, S124, and S186 [Basis: BACT, cumulative increase]	Y	
Part 9	Emission calculations S186 [Basis: cumulative increase]	Y	
BAAQMD Condition 22963	Applies to S98. S122, S128		
Part 1a	Vapor pressure limit for S98 for October through March [Basis: cumulative increase]	Y	
Part 1b	Vapor pressure limit for S98 for April through September [Basis: cumulative increase]		
Part 1d	Vapor pressure limit for S122 [Basis: cumulative increase]		
Part 1e	Vapor pressure limit for S128 [Basis: cumulative increase]		
Part 2a	Throughput limit for S98 for October through March [Basis: cumulative increase]		
Part 2b	Throughput limit for S98 for April through September [Basis: cumulative increase]		
Part 2d	Annual throughput limit for S122 [Basis: cumulative increase]		
Part 2e	Annual throughput limit for S128 [Basis: cumulative increase]		
Part 4	Seal, penetration, guide pole, and roof leg requirements [Basis: BACT, cumulative increase]		
BAAQMD	Applies to S97		
Condition 25477			
Part 1	Crude oil throughput, limit on content of tank [Basis: BACT, cumulative increase]	Y	
Part 2	Equipment requirements [Basis: BACT, cumulative increase]	Y	
Part 3	Recordkeeping [Basis: cumulative increase]	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

 $NSPS\ Ka - S341\ (Tank\ 208), S342\ (Tank\ 209), S343\ (Tank\ 210)$

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
Rule 5	TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	N	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	N	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	N	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	N	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	N	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	N	
8-5-112.6	Tank Records	N	
8-5-119	Limited Exemption, Repair Period (Applies to S341 only)	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-304	Requirements for External Floating Roofs	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	N	
8-5-304.5	Requirements for External Floating Roofs; Shell in good condition	N	
8-5-304.6	Requirements for External Floating Roofs; tank pontoons	N	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

	1 5 KA – 5541 (TANK 200), 5542 (TANK 207), 5545 (TA	Federally	Future
		Enforce-	Effectiv
Applicable	Regulation Title or	able	e
Requirement	Description of Requirement	(Y/N)	Date
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below	Y	
0 0 020.2	liquid surface		
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers,	Y	
	seals, lids		
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers,	Y	
	seals, lids – Gap requirements		
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well	Y	
	requirements in floating roof tanks		
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well	Y	
	requirements-projection below liquid surface		
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well	Y	
	requirements-cover, seal, or lid		
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well	Y	
	requirements-gap between well and roof		
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	
8-5-320.7	Tank Fitting Requirements; Pressure relief devices	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid	Y	
	mounted except as provided in 8-5-305.1.3		
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-	Y	
	geometry of shoe		
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-	Y	
	welded tanks		
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks	Y	
	with seals installed after 9/4/1985 or welded internal floating roof		
	tanks with seals installed after 2/1/1993		
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved	Y	
	Emission Control System		
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

146	6PS KA – 8341 (TANK 208), 8342 (TANK 209), 8343 (TA	NK 210)	Б. /
		Federally	Future
		Enforce-	Effectiv
Applicable	Regulation Title or	able	e
Requirement	Description of Requirement	(Y/N)	Date
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary	Y	
	and Secondary Seal Inspections		
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank	Y	
	Fittings Inspections		
8-5-404	Inspection, Abatement Efficiency Determination and Source Test	N	
	Reports		
8-5-405	Information Required	Y	
8-5-411	Enhanced Monitoring Program (Applies to list of tanks chosen by	N	
	facility)		
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP –	Y	
	Retain 24 months		
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement	Y	
	Records – Retain 10 years		
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
SIP	Organic Compounds, Storage of Organic Liquids (6/5/03)		
Regulation 8,	and the second s		
Rule 5			
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Tank in compliance prior to notification		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Minimize emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notice of completion not required		
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Satisfy requirements of 8-5-328		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of	Y	
	Tanks in Operation		
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior	Y	
	notification		
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone	Y	
	notification		
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior	Y	
	to start of work. Certified per 8-5-404		1
8-5-301	Storage Tank Control Requirements (internal floating roof, external	Y	
	floating roof, or approved emission control system)		

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

110	PS KA – 5341 (TANK 208), 5342 (TANK 209), 5343 (TA	1111210)	Future
		Federally	
		Enforce-	Effectiv
Applicable	Regulation Title or	able	e
Requirement	Description of Requirement	(Y/N)	Date
8-5-303	Requirements for Pressure Vacuum Valves (applies only to S107	Y	
	(Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168),		
	S128 (Tank 174), S129 (Tank 180), S178 (Tank 288))		
8-5-320	Tank Fitting Requirements	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers,	Y	
0.7.000.4	seals, lids		
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well	Y	
0.7.220.4.1	requirements in floating roof tanks	***	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well	Y	
0.5.220.4.2	requirements-projection below liquid surface	***	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well	Y	
0.5.220.4.2	requirements-cover, seal, or lid	***	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well	Y	
0.7.220	requirements-gap between well and roof	37	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved	Y	
0.5.220.2	Emission Control System	37	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank	Y	
	Fittings Inspections		
8-5-403	Inspection Requirements for Pressure Vacuum Valves (applies only	Y	
	to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123		
	(Tank 168), S128 (Tank 174), S129 (Tank 180), S178 (Tank 288))		
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal	Y	
0 3 301.2	Replacement Records - Retain 10 years	-	
8-5-503	Portable Hydrocarbon Detector	Y	
40 CFR 60,	Standards of Performance for Storage Vessels for Volatile	-	
Subpart K	Organic Liquid Storage Vessels for Which Construction,		
	Reconstruction, or Modification Commenced After June 11,		
	1973, and Prior to May 19, 1978 (10/17/2000)		
	APPLIES TO S334 (Tank 107)		
60.110(a)	Applicability and Designation of Affected Facility; Affected facility	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

	PS KA – S341 (TANK 208), S342 (TANK 209), S343 (TA	Federally Enforce-	Future Effectiv
Applicable	Regulation Title or	able	e
Requirement	Description of Requirement Applicability and Designation of Affected Facility>65,000 gal	(Y/N) Y	Date
60.110(c)(2)	after	Y	
	6/11/1973 and before 5/19/1978.		
60.112(a)(1)	Standard for petroleum liquids above 1.5 psia and below 11.1 psia	Y	
60.113(a)	Records of petroleum liquids, period of storage, and maximum true vapor pressure	Y	
60.113(b)	Nomographs may be used	Y	
40 CFR 60,	Standards of Performance for Storage Vessels for Volatile		
Subpart Ka	Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 (12/14/2000) APPLIES TO S341 (Tank 208), S342 (Tank 209), S343 (Tank 210)		
60.110a(a)	Applicability and Designation of Affected Facility	Y	
40 CFR 63,	SOCMI HON G (01/27/1995)		
Subpart G	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
	TANKS		
CFR 63, subpart 0 63, subpart WW is	able will be subject to the provisions of 40 CFR 63.646 and the reference until compliance with 40 CFR 63.660 and the referenced requirements demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.	nts contained ·	
63.119(a)	Storage Vessel Provisions Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions Reference Control TechnologyGroup 1, TVP < 76.6 kPa	Y	
63.119(c)	Storage Vessel Provisions Reference Control Technology External floating roof	Y	
63.119(c)(1)	Storage Vessel Provisions Reference Control Technology External floating roof seals	Y	
63.119(c)(1)(i)	Storage Vessel Provisions Reference Control Technology External floating roof double seals required	Y	
63.119(c)(1)(ii)	Storage Vessel Provisions Reference Control Technology External floating roof primary seal requirements – metallic shoe or liquid-mounted	Y	
63.119(c)(1)(iii)	Storage Vessel Provisions Reference Control Technology External floating roof seal requirements	Y	
63.119(c)(3)	Storage Vessel Provisions Reference Control Technology External floating roofMust float on liquid	Y	
63.119(c)(3)(i)	Storage Vessel Provisions Reference Control Technology External floating roofMust float on liquid except during initial fill	Y	
63.119(c)(3)(ii)	Storage Vessel Provisions Reference Control Technology External floating roof Must float on liquid except after completely emptied and degassed	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

 $NSPS\ Ka - S341\ (Tank\ 208), S342\ (Tank\ 209), S343\ (Tank\ 210)$

		Federally	Future
	D. A. d. Wild	Enforce-	Effectiv
Applicable	Regulation Title or	able	e
Requirement	Description of Requirement	(Y/N)	Date
63.119(c)(3)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof Must float on liquid except when		
63.119(c)(4)	completely emptied before refilling Storage Vessel Provisions Reference Control Technology	Y	+
65.119(0)(4)	External Floating Roof Operations, when not floating	I	
63.120(b)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	DemonstrationExternal floating roof		
63.120(b)(1)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR seal gap measurement		
63.120(b)(1)(i)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR with double seals - primary seal gap measurement – 5		
	year intervals		
63.120(b)(1)(iii)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR with double seals - secondary seal gap measurement -		
	annual requirement		
63.120(b)(1)(iv)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR seal inspections prior to tank refill with organic HAP		
	after not storing organic HAP for 1 year or longer		1
63.120(b)(2)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
60 100 (L) (D) (L)	External FR seal gap determination methods	***	
63.120(b)(2)(i)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR seal gap determination methods – roof not resting on legs		
63.120(b)(2)(ii)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR seal gap determination methods – measure gaps around		
	entire circumference of seal and measure width and length of gaps		
63.120(b)(2)(iii)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR seal gap determination methods – determine total		
	surface area of each gap		
63.120(b)(3)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR primary seal gap calculation method – total surface		
	area of primary seal gaps <= 212 cm2 per meter of vessel diameter.		
	Maximum width <= 3.81 cm		
63.120(b)(4)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR secondary seal gap calculation method – total surface		
	area of secondary seal gaps <= 21.2 cm ² per meter of vessel		
(2.120/h)/5)	diameter. Maximum width <= 1.27 cm	37	
63.120(b)(5)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
63 120(b)(5)(i)	External FR primary seal additional requirements Storage Vessel Provisions Procedures to Determine Compliance	Y	
63.120(b)(5)(i)	External FR primary seal additional requirements – metallic shoe	1	
	seal – shoe geometry		
	som snoe geomeny	l	

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

 $NSPS\ Ka - S341\ (Tank\ 208), S342\ (Tank\ 209), S343\ (Tank\ 210)$

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
63.120(b)(5)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR primary seal additional requirements – no holes, tears, or openings	Y	Dute
63.120(b)(6)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements	Y	
63.120(b)(6)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements – location and extent	Y	
63.120(b)(6)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements - no holes, tears or openings	Y	
63.120(b)(7)	Storage Vessel Provisions Procedures to Determine Compliance External FR unsafe to perform seal measurements or inspect the tank	Y	
63.120(b)(7)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii)	Y	
63.120(b)(7)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented.	Y	
63.120(b)(8)	Storage Vessel Provisions Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented.	Y	
63.120(b)(9)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
63.120(b)(10)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seals visual inspection each time emptied	Y	
63.120(b)(10)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seal visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)	Y	
63.120(b)(10)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seal visual inspection each time emptied – 30 day notification	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

TIDI	5 KA – 5541 (TANK 206), 5542 (TANK 209), 5545 (TA	11X 210)	Future
		Federally	Effectiv
4 11 11	Develoting Title on	Enforce-	
Applicable	Regulation Title or	able	e Doto
Requirement 63.120(b)(10)(iii)	Description of Requirement	(Y/N) Y	Date
03.120(0)(10)(111)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seal visual inspection each time emptied	ĭ	
	Notification for unplanned		
	Notification for unplanned		
63.123(a)	Storage Vessel Provisions RecordkeepingGroup 1 and Group 2	Y	
. ,	storage vessel dimensions and capacity. Keep for life of source.		
63.123(d)	Storage Vessel Provisions RecordkeepingGroup 1 External	Y	
	floating roof tank requirements - records of seal gap measurements		
	(date, raw data, and required calculations)		
63.123(g)	Storage Vessel Provisions Recordkeeping, Extensions for	Y	
	emptying storage vessel – keep documentation specified		
40 CFR 63, Subpart			
CC	Petroleum Refineries (11/26/18)		
	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
The tenks in this table	TANKS ALSO SUBJECT TO NSPS Subparts K OR Ka e will be subject to the provisions of 40 CFR 63.646 and the referenced r	aguiraments of	10 CED
	ompliance with 40 CFR 63.660 and the referenced requirements contained		
	, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.	u III 40 CI K 0.	s, subpart
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(h)	Compliance by dates specified in Table 11, except as provided in	Y	
03.040(II)	paragraphs (h)(1) through (h)(3)	1	
63.640(n)(5)	Applicability and Designation of Affected Source Overlap for	Y	
(-)(-)	Storage Vessels— Group 1 vessel also subject to NSPS, Subparts K	_	
	or Ka only subject to 63 Subpart CC		
63.646	Upon demonstration of compliance with the standards in 63.660 by	Y	
	the compliance dates specified in 63.640(h), the standards in this		
	section shall no longer apply.		
63.646(a)	Storage Vessel Provisions-Group 1	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for	Y	
(2) (4) (2)	group determination	**	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.646(c)	Storage Vessel Provisions—63 Subpart G exclusions for storage	Y	
63.646(d)	vessels [EFRs exempt from 63.119(c)(2)] Storage Vessel Provisions-References	Y	
63.646(d)(2)	Storage Vessel Provisions-References Storage Vessel Provisions-References to April 22,1994	Y	
63.646(d)(3)	Storage Vessel Provisions-References to April 22,1994 Storage Vessel Provisions-References to December 31, 1992	Y	
63.646(d)(4)	Storage Vessel Provisions-References to December 31, 1992 Storage Vessel Provisions-References to compliance dates in 63.100	Y	
03.010(4)(1)	of Subpart F	1	
63.646(e)	Storage Vessel Provisions—Exceptions for compliance with	Y	
	inspection requirements of 63.120 of Subpart G – Not required to	_	
	comply with provisions for gaskets, slotted membranes, and sleeve		
	seals.		

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

	S RA - 5341 (TANK 200), 5342 (TANK 207), 5343 (TA	Federally	Future
		Enforce-	Effectiv
Applicable	Regulation Title or	able	e
Requirement	Description of Requirement	(Y/N)	Date
63.646(f)	Storage Vessel Provisions-Group 1 floating roof requirements	Y	
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements-	Y	
	Covers or lids closed except when in use		
63.646(f)(2)	Storage Vessel Provisions-Group 1 floating roof requirements-Rim	Y	
	space vents requirements		
63.646(f)(3)	Storage Vessel Provisions-Group 1 floating roof requirements-	Y	
	Automatic bleeder vents requirements		
63.646(l)	Storage Vessel Provisions-State or local permitting agency	Y	
	notification requirements		
63.655(f)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements		
63.655(f)(1)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements		
63.655(f)(1)(i)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements-Reportingstorage vessels		
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements-Reportingstorage vessels		
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
(1)	status report requirements-Reportingstorage vessels		
63.655(g)	Periodic Reporting and Recordkeeping Requirements	Y	
63.655(g)(1)	Periodic Reporting and Recordkeeping Requirements-storage	Y	
	vessels [Information related to gaskets, slotted membranes, and		
	sleeve seals not required for storage vessels that are part of existing		
	source]		
63.655(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements-storage	Y	
	vessels with external floating roofs		
63.655(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements-storage	Y	
	vessels with external floating roofs-document results of each seal		
	gap measurement		
63.655(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements-storage	Y	
	vessels with external floating roofs – extension documentation		
63.655(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements-storage	Y	
	vessels with external floating roofs – documentation of failures		
63.655(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements-storage	Y	
	vessels with external floating roofs – documentation of failures		
63.655(h)(2)	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
	vessel notification of inspections.		
63.655(h)(2)(i)	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
	vessel notification of inspections – refilling Group 1 storage vessel.		
63.655(h)(2)(ii)	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
	vessel notification of inspections -Group 1 storage vessel seal gap		
	measurements – 30 day notification [can be waived or modified by		
	state or local].		

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

	PS KA – S341 (1ANK 208), S342 (1ANK 209), S343 (1A	Federally Enforce-	Future Effectiv
Applicable	Regulation Title or Description of Requirement	able	e Date
Requirement	•	(Y/N) Y	Date
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports-	Y	
63.655(h)(6)(ii)	Determination of Applicability Reporting and Recordkeeping Requirements-Other reports-	Y	
03.033(11)(0)(11)	Determination of Applicability	1	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
03.033(1)(1)	storage vessels – keep records specified in 63.123 (Subpart G)	1	
63.655(i)(1)(i)	Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
03.033(1)(1)(1)	storage vessels— keep records specified in 63.123 (Subpart G)	1	
	except records related to gaskets, slotted membranes, and sleeve		
	seals for vessels in existing sources. Each owner or operator subject		
	to the storage vessel provisions in 63.660 shall keep records as		
	specified in paragraphs (i)(1)(v) and (vi).		
63.655(i)(6)	Reporting and Recordkeeping Requirements—Recordkeeping for	Y	
(-)(-)	storage vessels-Record retention – 5 years		
63.660	Storage vessel provisions. Group 1 storage vessel shall comply with	Y	
	the requirements in 40 CFR 63, subpart WW according to the		
	requirements of 63.660(a) through (i).		
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(d)	Group 1 Storage Vessel Requirements	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
63.660(i)	Requirements for electing to comply with subpart SS	Y	
BAAQMD	Applies to S334		
Condition 22478			
Part 4	Vapor pressure limitContents of tank limited to crude oil [Basis:	Y	
	BACT, cumulative increase]		
Part 7	Throughput limit for S334 [Basis: cumulative increase]	Y	
Part 8b	BACT equipment requirements for S123, S124, S186, and S334	Y	
	[Basis: BACT, cumulative increase]		
BAAQMD			
Condition 26690			
Part 1	Throughput limit for source S341. [Basis: Cumulative Increase]	Y	
Part 2	Storage material vapor pressure limit for S341. [Basis: Cumulative Increase]	Y	
Part 3	Recordkeeeping for S341. [Basis: Cumulative Increase]	Y	
BAAQMD			
Condition 26691			
Part 1	Throughput limit for source S342. [Basis: Cumulative Increase]	Y	
Part 2	Storage material vapor pressure limit for S342. [Basis: Cumulative	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.12 Source-Specific Applicable Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K – S334 (TANK 107),

NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
	Increase]		
Part 3	Recordkeeeping for S342. [Basis: Cumulative Increase]	Y	

TABLE IV – BB.13a SOURCE-SPECIFIC APPLICABLE REQUIREMENTS MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S139 (TANK 204), S140 (TANK 205), S168 (TANK 269), S182 (TANK 294)

		Federally Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
Requirement	Description of Requirement	(1/11)	Date
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	\mathbf{Y}^{1}	
1-523.3	Reports of Violations	Y ¹	
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	REQUIREMENTS FOR FIXED ROOF TANKS		
Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	N	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	N	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	

IV. Source Specific Applicable Requirements

TABLE IV – BB.13a SOURCE-SPECIFIC APPLICABLE REQUIREMENTS MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS \$139 (TANK 204), \$140 (TANK 205), \$168 (TANK 269), \$182 (TANK 294)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	N	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	N	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	N	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	N	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	N	
8-5-112.6	Tank Records	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks	N	
8-5-307.1	Shell in good condition with no leakage	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	N	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	N	
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	N	
8-5-501.3	Records retained for 24 months	N	
8-5-501.4	Engineering data sheets showing setpoints for pressure vacuum valves installed after 6/1/07	N	

IV. Source Specific Applicable Requirements

TABLE IV – BB.13a SOURCE-SPECIFIC APPLICABLE REQUIREMENTS MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S139 (TANK 204), S140 (TANK 205), S168 (TANK 269), S182 (TANK 294)

5137	(1ANK 204), S140 (1ANK 205), S168 (1ANK 269), S182	(I ANK 494)
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-602	Analysis of Samples, True Vapor Pressure	N	
8-5-603	Determination of emissions	N	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	N	
8-5-605	Measurement of Leak Concentrations and Residual Concentrations	N	
SIP Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (6/5/03)		
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves (applies only to S107 (Tank 150), S110 (Tank 155), S115 (Tank 160), S123 (Tank 168), S128 (Tank 174), S129 (Tank 180), S178 (Tank 288))	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	

IV. Source Specific Applicable Requirements

TABLE IV – BB.13a SOURCE-SPECIFIC APPLICABLE REQUIREMENTS MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS \$139 (TANK 204), \$140 (TANK 205), \$168 (TANK 269), \$182 (TANK 294)

5139 (TANK 204), S140 (TANK 205), S168 (TANK 269), S182 (·)
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance,	Y	
0 0 0 00.2	operation		
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
BAAQMD	Organic Compounds, Wastewater (Oil-Water Separators)		
Regulation 8, Rule 8	(9/15/2004)		
8-8-302	Wastewater Separators Larger than or Equal to 18.9 Liters per Second	N	
8-8-302.3	Requirements for separators with fixed roofs and control device	Y	
8-8-303	Gauging and Sampling Devices	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-603	Inspection procedures	N	
SIP Regulation 8,	Organic Compounds, Wastewater (Oil-Water Separators) (8/29/94)		
Rule 8 8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	Y	
NSPS Title 40	NSPS Subpart K, Standards of Performance for Storage Vessels		
Part 60 Subpart K	for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (10/17/2000)		
	(Applicable to S139 only)		

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

TABLE IV – BB.13a SOURCE-SPECIFIC APPLICABLE REQUIREMENTS MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S139 (TANK 204), S140 (TANK 205), S168 (TANK 269), S182 (TANK 294)

5137 (1ANK 204), S140 (1ANK 205), S168 (1ANK 269), S182	<u> </u>)
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
40 CFR 60.111(b)	Definitions: Petroleum liquids	Y	
40 CFR 61 Subpart FF	National Emission Standards for Benzene Waste Operations (12/04/2003)		
_	Standards: Tanks		
40 CFR 61.343(a)		Y	
40 CFR	Standards: Tanks		
61.343(a)(1)		Y	
40 CFR			
61.343(a)(1)(i)	Standards: Tanks, Fixed roof requirements	Y	
40 CFR			
61.343(a)(1)(ii)	Standards: Tanks, Closed vent systems comply with 61.349	Y	
40 CFR 61.343(c)	Quarterly visual inspections	Y	
40 CFR 61.343(d)	First efforts at repair	Y	
40 CFR 61.349	Standards: Closed-vent systems and control devices	Y	
40 CFR 61.349(a)	Standards: Closed-vent systems and control devices	Y	
40 CFR	·		
61.349(a)(1)	Closed vent system operation	Y	
40 CFR	•		
61.349(a)(2)	Control device requirements	Y	
40 CFR			
61.349(a)(2)(i)	Control device requirements: enclosed combustion device	Y	
40 CFR 61.349(b)	Operate at all times when waste is placed in waste management unit	Y	
40 CFR 61.349(c)	Control device (except flare) demonstration	Y	
40 CFR 61.349(f)	Visual inspection quarterly	Y	
40 CFR 61.349(g)	Repair period requirements	Y	
40 CFR 61.349(h)	Monitor control device in accordance with 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations: Control device	Y	
40 CFR Part 63	National Emission Standards for Hazardous Air Pollutants for		
Subpart CC	Petroleum Refining (11/26/18) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM		
40 CFR	Applicability and Designation of Storage Vessels	Y	
63.640(c)(2)			
40 CFR	Exemption for emission points routed to fuel gas system	Y	
63.640(d)(5)			
BAAQMD	APPLIES TO S182		
Condition 13184 Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative	Y	
	Increase]	Y	
BAAQMD Condition 22963	APPLIES TO S139 AND S140		
Part 3	Requirement for abatement by A7, Odor Abatement System [8-5-301, 40 CFR 61, Subpart FF]	Y	
BAAQMD Condition 23724			

IV. Source Specific Applicable Requirements

TABLE IV – BB.13a SOURCE-SPECIFIC APPLICABLE REQUIREMENTS MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S139 (TANK 204), S140 (TANK 205), S168 (TANK 269), S182 (TANK 294)

	TANK 204); 5140 (TANK 205); 5100 (TANK 205); 5102 ((11111111111111111111111111111111111111	
Applicable	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 1a	Requirement for abatement by A7, Odor Abatement System [2-1-403]	Y	
Part 2	Requirement for utility-grade natural gas blanket [2-1-403]	Y	
Part 3	Requirement for pressure monitoring device for S168 and S182 by 7/5/09. [2-1-403]	Y	
Part 4	After pressure monitoring devices are installed, requirement to operate below tank set pressure [2-1-403]	Y	
Part 4a	Tank pressures for tanks subject to Regulation 8, Rule 5 [Regulation 8, Rule 5]	Y	
Part 5	Pressure relief valve setting at or above nominal set pressure	Y	
Part 6	Corrective Plan	Y	
Part 7	Pressure monitoring records [2-1-403]	Y	
Part 8	Initial date for reporting pressures in excess of nominal set pressure	Y	
Part 9	Compliance with nuisance and odor regulations [1-301, 7-301, 7-302]	Y	

Table IV – BB.13b Source-Specific Applicable Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S137 (TANK 202)

		Federally Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (5/4/11)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y^1	
1-523.3	Reports of Violations	Y ¹	
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	REQUIREMENTS FOR FIXED ROOF TANKS		
Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service;	N	
	Notice to the APCO		

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

Table IV – BB.13b Source-Specific Applicable Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S137 (TANK 202)

S137 (1ANK 202)			
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	N	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	N	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	N	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	N	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	N	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	N	
8-5-112.6	Records for 24 months	N	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks, and Blanketed Tanks	N	
8-5-307.1	Shell in good condition with no leakage	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	N	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	N	
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	

IV. Source Specific Applicable Requirements

Table IV – BB.13b Source-Specific Applicable Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S137 (TANK 202)

	S137 (TANK 202)	T 1 11	
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-404	Inspection, Abatement Efficiency Determination and Source Test	N	
	Reports		
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
SIP Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (6/5/03)		
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.13b Source-Specific Applicable Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS \$137 (TANK 202)

	S137 (TANK 202)		
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance,	Y	
	operation		
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters;	Y	
0.5.220.2	Concentration of <10,000 ppm as methane after degassing	37	_
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-328.3	Notification of degassing	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-332	Sludge Handling Requirements	N	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification		
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
40 CFR Part 63	National Emission Standards for Hazardous Air Pollutants for		
Subpart CC	Petroleum Refining (11/26/18) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM		
40 CFR	Applicability and Designation of Storage Vessels	Y	
63.640(c)(2)			
40 CFR	Exemption for emission points routed to fuel gas system	Y	
63.640(d)(5)			
BAAQMD Condition 22518			
Part 2	Vapor pressure limit [Cumulative increase]	Y	
Part 3	Throughput limit [Cumulative increase]	Y	
Part 4	Control requirement [Cumulative increase]	Y	
Part 5	Prohibition on tank cleaning when switching products [Cumulative	Y	
	increase]		
BAAQMD Condition 23724			
Part 1a	Requirement for abatement by A7, Odor Abatement System [2-1-403]	Y	+
1 411 14	1. Tequirement for abatement by 111, Odor Abatement bystem [2-1-403]	1	1

IV. Source Specific Applicable Requirements

Table IV – BB.13b Source-Specific Applicable Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S137 (TANK 202)

9137 (TANK 202)			
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
Part 2	Requirement for utility-grade natural gas blanket [2-1-403]	Y	
Part 3	Requirement for pressure monitoring device for S137 by 7/5/09. [2-1-403]	Y	
Part 4	After pressure monitoring devices are installed, requirement to operate below tank set pressure [2-1-403]	Y	
Part 4a	Tank pressures for tanks subject to Regulation 8, Rule 5 [Regulation 8, Rule 5]	Y	
Part 5	Pressure relief valve setting at or above nominal set pressure	Y	
Part 6	Corrective Plan	Y	
Part 7	Pressure monitoring records [2-1-403]	Y	
Part 8	Initial date for reporting pressures in excess of nominal set pressure	Y	
Part 9	Compliance with nuisance and odor regulations [1-301, 7-301, 7-302]	Y	

Applicable	Regulation Title or	Federally Enforce- able	Future Effectiv
Requirement	Description of Requirement	(Y/N)	Date
BAAOMD	Organic Compounds, Storage of Organic Liquids (11/3/21)	(2/11)	Dute
Regulation 8, Rule	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
5	TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service,	N	
	Notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	N	
	Tank in compliance at time of notification		
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service;	N	
	Filling, emptying, refilling floating roof tanks		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	N	
	Minimize emissions and, if required, degas per 8-5-328		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	N	
	Self report if out of compliance during exemption period		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation		
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Notification		

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells	N	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellsprojection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellscover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells total secondary seal gap must include well gap	Y	
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains must be 90% covered	N	

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforce- able	Future Effectiv e
Requirement	Description of Requirement	(Y/N)	Date
8-5-321	Primary seal requirements	N	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements - geometry of shoe	N	
8-5-321.3.2	Primary seal requirements; Metallic-shoe-type seal requirements - welded tanks gap requirements	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N	
8-5-322.2	Secondary seal requirements; Insertion of probes	N	
8-5-322.5	Secondary seal requirements; Gap requirements for welded external floating roof tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal requirements; extent of seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; Pressure vacuum valves gas tight standards in 8-5-303	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP-Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	

IV. Source Specific Applicable Requirements

	8133 (1ANK 193)		
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations;	N	
	EPA method 21 Instruments		
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations;	N	
	Method 21 and tank degassing residual organic concentration		
	measurement method		
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notification		<u></u>
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notification, 3 day prior notification		
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notification, Telephone notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank	Y	
	in compliance prior to notification		
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Floating roof tanks		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Minimize emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notice of completion not required		
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Satisfy requirements of 8-5-328		
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior	Y	
	notification		
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone	Y	
0.5.112.2	notification	N/	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to	Y	
8-5-112.3	start of work. Certified per 8-5-404	Y	
8-3-112.3	Limited Exemption, Tanks in Operation, No product movement,	ĭ	
0 5 112 4	Minimize emissions Limited Examption Tools in Operation Not to exceed 7 days	V	
8-5-112.4 8-5-201	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external	Y	
8 5 304	floating roof, or approved emission control system) Requirements for External Floating Roofs	Y	
8-5-304 8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
0-3-304.4	requirements for External Floating Roots, Floating foot requirements	1	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below	Y	
0-3-320.2	liquid surface	1	
	inquia surriec		

IV. Source Specific Applicable Requirements

	S133 (TANK 193)		Future Effectiv
Applicable	Regulation Title or	Enforce- able	e
Requirement	Description of Requirement	(Y/N)	Date
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers,	Y	Date
0-3-320.3	seals, lids	1	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well	Y	
0-3-320.4	requirements in floating roof tanks	1	
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-	Y	
	geometry of shoe		
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-	Y	
	welded tanks		
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks	Y	
	with seals installed after 9/4/1985 or welded internal floating roof		
	tanks with seals installed after 2/1/1993		
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters,	Y	
	Concentration of < 10,000 ppm as methane after degassing		
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary	Y	
0.7.404.7	and Secondary Seal Inspections		
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank	Y	
8-5-404	Fittings Inspections Certification	Y	
0-3-404	Certification	1	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP -	Y	
	Retain 24 months		
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement	Y	
	Records - Retain 10 years		
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
BAAQMD	Organic Compounds, Wastewater (Oil-Water Separators)		
Regulation 8,	(11/3/21)		
Rule 8	REQUIREMENTS FOR SLOP OIL VESSELS		

IV. Source Specific Applicable Requirements

	S133 (TANK 193)		1
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
8-8-113	Exemption, Secondary Wastewater Treatment Processes and	N	
	Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308		
8-8-303	Standards; Gauging and Sampling Devices	Y	
8-8-305	Standards: Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels	Y	
8-8-305.1	Standards: Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels – fixed cover requirements	Y	
8-8-503	Monitoring and Records; Inspection and Records	Y	
8-8-504	Monitoring and Records; Portable Hydrocarbon Detector	Y	
8-8-603	Manual of Procedures; Inspection procedures	N	
SIP	Wastewater (Oil-Water) Separator (8/29/94)		
Regulation 8, Rule 8			
8-8-113	Exemption, Secondary Wastewater Treatment Processes and	Y	
	Stormwater Sewer Systems (segregated) are exempt from 8-8-301,		
	8-8-302, 8-8-306, 8-8-308		
8-8-603	Manual of Procedures: Inspection Procedures	Y	
40 CFR 60,	Standards of Performance for Storage Vessels for Volatile		
Subpart Kb	Organic Liquid Storage Vessels for Which Construction,		
	Reconstruction, or Modification Commenced After July 23, 1984 (10/15/03)		
40 CFR	Standards for Volatile Organic Compounds (VOC); External		
60.112b(a)(2)	floating roof option	Y	
40 CFR	Standards for Volatile Organic Compounds (VOC); External		
60.112b(a)(2)(i)	floating roof seal requirements	Y	
40 CFR	Standards for Volatile Organic Compounds (VOC); External		
60.112b(a)(2)(i)(A)	floating roof primary seal requirements	Y	
40 CFR	Standards for Volatile Organic Compounds (VOC); External		
60.112b(a)(2)(i)(B)	floating roof secondary seal requirements	Y	
40 CFR	Standards for Volatile Organic Compounds (VOC); External		
60.112b(a)(2)(ii)	floating roof openings requirements	Y	
40 CFR	Standards for Volatile Organic Compounds (VOC); External	_	
60.112b(a)(2)(iii)	floating roof floating requirements	Y	1
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y	
60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y	
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	

IV. Source Specific Applicable Requirements

	S133 (TANK 193)	1	1
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y	
60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y	
60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y	
60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y	
60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y	
60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y	
60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y	
60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y	
60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y	
60.113b(b)(4)(ii)	Testing and Procedures; External floating roof secondary seal gap limitations	Y	
60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y	
60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	
60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	
60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y	
60.113b(b)(6)(i)	Testing and Procedures; External floating roofroof or seal defect repairs	Y	
60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y	
60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof	Y	
40 CFR 61 Subpart FF	National Emission Standards for Benzene Waste Operations (12/04/2003)		
40 CFR	Alternative Standards for Tanks; External floating roof meeting the		
61.351(a)(2)	requirements of 40 CFR 60.112b(a)(2) Alternative Standards for Tanks; Tanks subject to 61.351 and	Y	
40 CFR 61.351(b)	exempt from 61.343	Y	

IV. Source Specific Applicable Requirements

	5133 (TANK 193)		
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
Requirement	Recordkeeping Requirements: Comply with recordkeeping	(1/14)	Date
40 CFR 61.356(k)	requirements of 40 CFR 60.115b	Y	
40 CFR 01.550(k)	Reporting Requirements: : Comply with reporting requirements of	1	
40 CFR 61.357(f)	40 CFR 60.115b		
40 CFR 63,	SOCMI HON G (12/21/2006)		
Subpart G	REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
	ole will be subject to the provisions of 40 CFR 63.646 and the referen		
CFR 63, subpart G	until compliance with 40 CFR 63.660 and the referenced requiremen	its contained i	n 40 CFR
63, subpart WW is o	demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.119(a)	Storage Vessel Provisions Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions Reference Control TechnologyGroup 1, TVP < 76.6 kPa	Y	
63.119(c)	Storage Vessel Provisions Reference Control Technology	Y	
62 110()(1)	External floating roof	*7	
63.119(c)(1)	Storage Vessel Provisions Reference Control Technology External floating roof seals	Y	
63.119(c)(1)(i)	Storage Vessel Provisions Reference Control Technology	Y	
03.117(c)(1)(1)	External floating roof double seals required		
63.119(c)(1)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
******	External floating roof primary seal requirements – metallic shoe or		
	liquid-mounted		
63.119(c)(1)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof seal requirements		
63.119(c)(3)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roofMust float on liquid		
63.119(c)(3)(i)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roofMust float on liquid except during initial fill		
63.119(c)(3)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof Must float on liquid except after completely		
(2.110/.)/(2)/***)	emptied and degassed	37	
63.119(c)(3)(iii)	Storage Vessel Provisions Reference Control Technology External floating roof Must float on liquid except when	Y	
	completely emptied before refilling		
63.119(c)(4)	Storage Vessel Provisions Reference Control Technology	Y	
03.117(0)(4)	External Floating Roof Operations, when not floating	1	
63.120(b)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	Compliance DemonstrationExternal floating roof	•	
63.120(b)(1)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
/	External FR seal gap measurement		
63.120(b)(1)(i)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR with double seals - primary seal gap measurement – 5		
	year intervals		

IV. Source Specific Applicable Requirements

	S133 (1ANK 193)		
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
63.120(b)(1)(iii)	Storage Vessel Provisions Procedures to Determine Compliance External FR with double seals - secondary seal gap measurement – annual requirement	Y	
63.120(b)(1)(iv)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer	Y	
63.120(b)(2)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods	Y	
63.120(b)(2)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods – roof not resting on legs	Y	
63.120(b)(2)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps	Y	
63.120(b)(2)(iii)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods – determine total surface area of each gap	Y	
63.120(b)(3)	Storage Vessel Provisions Procedures to Determine Compliance External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm	Y	
63.120(b)(4)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm	Y	
63.120(b)(5)	Storage Vessel Provisions Procedures to Determine Compliance- External FR primary seal additional requirements	Y	
63.120(b)(5)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR primary seal additional requirements – metallic shoe seal – shoe geometry	Y	
63.120(b)(5)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR primary seal additional requirements – no holes, tears, or openings	Y	
63.120(b)(6)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements	Y	
63.120(b)(6)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements – location and extent	Y	
63.120(b)(6)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements - no holes, tears or openings	Y	
63.120(b)(7)	Storage Vessel Provisions Procedures to Determine Compliance External FR unsafe to perform seal measurements or inspect the tank	Y	

IV. Source Specific Applicable Requirements

	S133 (TANK 193)			
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date	
63.120(b)(7)(i)	Storage Vessel Provisions Procedures to Determine Compliance- External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii)	Y		
63.120(b)(7)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented.	Y		
63.120(b)(8)	Storage Vessel Provisions Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented.	Y		
63.120(b)(9)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y		
63.120(b)(10)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seals visual inspection each time emptied	Y		
63.120(b)(10)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seal visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)]	Y		
63.120(b)(10)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seal visual inspection each time emptied – 30 day notification	Y		
63.120(b)(10)(iii)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seal visual inspection each time emptied Notification for unplanned	Y		
63.123(a)	Storage Vessel Provisions RecordkeepingGroup 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source.	Y		
63.123(d)	Storage Vessel Provisions RecordkeepingGroup 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations)	Y		
63.123(g)	Storage Vessel Provisions Recordkeeping, Extensions for emptying storage vessel – keep documentation specified	Y		
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (11/26/18) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS			

IV. Source Specific Applicable Requirements

S133 (1ANK 193)			
		Federally Enforce-	Future Effectiv
Applicable	Regulation Title or	able	e
Requirement	Description of Requirement	(Y/N)	Date
	le will be subject to the provisions of 40 CFR 63.646 and the referenced i		
	ompliance with 40 CFR 63.660 and the referenced requirements contained	ed in 40 CFR 63	3, subpart
WW is demonstrated	l, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		1
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(h)	Compliance by dates specified in Table 11, except as provided in	Y	
	paragraphs (h)(1) through (h)(3)		
63.646	Upon demonstration of compliance with the standards in 63.660 by	Y	
	the compliance dates specified in 63.640(h), the standards in this		
	section shall no longer apply.		
63.646(a)	Storage Vessel Provisions-Group 1	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for	Y	
	group determination		
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.646(c)	Storage Vessel Provisions—63 Subpart G exclusions for storage	Y	
	vessels [EFRs exempt from 63.119(c)(2)]		
63.646(d)	Storage Vessel Provisions-References	Y	
63.646(d)(2)	Storage Vessel Provisions-References to April 22,1994	Y	
63.646(d)(3)	Storage Vessel Provisions-References to December 31, 1992	Y	
63.646(d)(4)	Storage Vessel Provisions-References to compliance dates in 63.100 of Subpart F	Y	
63.646(e)	Storage Vessel Provisions—Exceptions for compliance with	Y	
	inspection requirements of 63.120 of Subpart G – Not required to		
	comply with provisions for gaskets, slotted membranes, and sleeve		
	seals.		
63.646(f)	Storage Vessel Provisions-Group 1 floating roof requirements	Y	
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements-	Y	
	Covers or lids closed except when in use		
63.646(f)(2)	Storage Vessel Provisions-Group 1 floating roof requirements-Rim	Y	
	space vents requirements		
63.646(f)(3)	Storage Vessel Provisions-Group 1 floating roof requirements-	Y	
	Automatic bleeder vents requirements		
63.646(l)	Storage Vessel Provisions-State or local permitting agency	Y	
	notification requirements		
63.655(f)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements		
63.655(f)(1)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements		
63.655(f)(1)(i)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements-Reportingstorage vessels	_	
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements-Reportingstorage vessels		ļ
63.655(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
(0.555())	status report requirements-Reportingstorage vessels	***	-
63.655(g)	Periodic Reporting and Recordkeeping Requirements	Y	

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforce- able	Future Effectiv e
Requirement	Description of Requirement	(Y/N)	Date
63.655(g)(1)	Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source]	Y	
63.655(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs	Y	
63.655(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement	Y	
63.655(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation	Y	
63.655(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures	Y	
40 CFR 63.655(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures	Y	
63.655(h)(2)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections.	Y	
63.655(h)(2)(i)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections – refilling Group 1 storage vessel.	Y	
63.655(h)(2)(ii)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local].	Y	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – keep records specified in 63.123 (Subpart G)	Y	
63.655(i)(1)(i)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels– keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources. Each owner or operator subject to the storage vessel provisions in 63.660 shall keep records as specified in paragraphs (i)(1)(v) and (vi).	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years	Y	
63.660	Storage vessel provisions. Group 1 storage vessel shall comply with the requirements in 40 CFR 63, subpart WW according to the requirements of 63.660(a) through (i).	Y	
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(d)	Group 1 Storage Vessel Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.14 Source-Specific Applicable Requirements MACT ZERO-GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK S133 (TANK 193)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effectiv e Date
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
63.660(i)	Requirements for electing to comply with subpart SS	Y	
BAAQMD	Throughput limits for source S133 [Basis: 2-1-234.3]	Y	
Condition 20989,			
Part A			

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS S340 (TANK 108)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS	(2723)	2400
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	N	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	N	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS S340 (TANK 108)

	\$340 (TANK 108)				
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date		
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N			
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N			
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N			
8-5-301	Storage Tank Control Requirements	N			
8-5-304	Requirements for External Floating Roof Tanks	N			
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y			
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y			
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y			
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N			
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N			
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N			
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N			
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N			
8-5-320	Floating Roof Tank Fitting Requirements	N			
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N			
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N			
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y			
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells	N			
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellsprojection below liquid surface	Y			
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellscover, seal, or lid	Y			
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells total secondary seal gap must include well gap	Y			
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains must be 90% covered	N			
8-5-321	Primary seal requirements	N			
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y			
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y			
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N			

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS \$340 (TANK 108)

	S340 (TANK 108)				
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date		
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements -	N			
	geometry of shoe				
8-5-321.3.2	Primary seal requirements; Metallic-shoe-type seal requirements -	N			
	welded tanks gap requirements				
8-5-322	Secondary seal requirements	N			
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N			
8-5-322.2	Secondary seal requirements; Insertion of probes	N			
8-5-322.3	Secondary seal requirements; Gap requirements for all tanks	N			
8-5-322.5	Secondary seal requirements; Gap requirements for welded external floating roof tanks with seal installed after September 4, 1985	N			
8-5-322.6	Secondary seal requirements; extent of seal	N			
8-5-328	Tank degassing requirements	N			
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N			
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N			
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N			
8-5-401	Inspection Requirements for External Floating Roof Tanks	N			
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N			
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N			
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N			
8-5-411	Enhanced Monitoring Program (Optional)	N			
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N			
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N			
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N			
8-5-412	Monitoring of Leaking Pontoons	N			
8-5-501	Records	N			
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP-Retain 24 months	N			
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N			
8-5-501.3	Records; Retention	N			
8-5-602	Analysis of Samples, True Vapor Pressure	Y			
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y			
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N			
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N			

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS \$340 (TANK 108)

Applicable		Federally Enforce-	Future
Requirement	Regulation Title or	able	Effective
	Description of Requirement	(Y/N)	Date
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations;	N	
	Method 21 and tank degassing residual organic concentration		
	measurement method		
SIP Regulation 8,	Storage of Organic Liquids (06/05/03)		
Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO		
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO; 3 day prior notification		
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO; Telephone notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Compliance before notification		
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Floating roof tanks - continuous and quick filling, emptying and		
	refilling		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Minimization of emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Written notice of completion not required		
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Compliance with Section 8-5-328		
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3	Y	
	day prior notification		
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO;	Y	
	Telephone notification		
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and	Y	
	certification before commencement of work per 8-5-404		
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement;	Y	
	minimization of emissions		
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not	Y	
	exceed 7 days		
8-5-301	Storage Tank Control Requirements (internal floating roof,	Y	
	external floating roof, or approved emission control system)		
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	Y	
	requirements		
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements – Floating roof tanks, Projection below	Y	
	liquid surface	_	

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS S340 (TANK 108)

	\$340 (TANK 108)			
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y		
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y		
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y		
8-5-321	Primary seal requirements	Y		
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y		
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements- geometry of shoe	Y		
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-welded tanks	Y		
8-5-322	Secondary seal requirements	Y		
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y		
8-5-322.2	Secondary seal requirements; Insertion of probes	Y		
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not a zero-gap seal as defined in 8-5-322.5)	Y		
8-5-322.5	Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985 (becomes applicable when secondary seal is considered newly installed and subject to zerogap seal gap requirements)	Y		
8-5-322.6	Secondary seal requirements; extent of seal	Y		
8-5-328	Tank degassing requirements	Y		
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y		
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y		
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y		
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y		
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y		
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y		
8-5-404	Certification	Y		
8-5-405	Information required	Y		
8-5-501	Records	Y		
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y		
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y		
8-5-503	Portable hydrocarbon detector	Y		
40 CFR 60,	Standards of Performance for Storage Vessels for Volatile			
Subpart Ka	Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 (12/14/2000)			
60.110a(a)	Applicability and Designation of Affected Facility	Y		
	1 11 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I	L	

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS S340 (TANK 108)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
40 CFR 63, Subpart G	SOCMI HON G (12/21/06) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS	(1/14)	Date
CFR 63, subpart 0	able will be subject to the provisions of 40 CFR 63.646 and the refer G until compliance with 40 CFR 63.660 and the referenced requiren s demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.100	nents contained	
63.119(a)	Storage Vessel Provisions Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions Reference Control Technology	Y	
. , , ,	Group 1, TVP < 76.6 kPa		
63.119(c)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof		
63.119(c)(1)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof seals		
63.119(c)(1)(i)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof double seals required		
63.119(c)(1)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof primary seal requirements – metallic shoe		
20 110 () (1) (11)	or liquid-mounted		
63.119(c)(1)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
62.110(.)(2)	External floating roof seal requirements	7.7	
63.119(c)(3)	Storage Vessel Provisions Reference Control Technology	Y	
63.119(c)(3)(i)	External floating roofMust float on liquid Storage Vessel Provisions Reference Control Technology	Y	
03.119(0)(3)(1)	External floating roofMust float on liquid except during initial	1	
	fill		
63.119(c)(3)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
03.117(0)(3)(11)	External floating roof Must float on liquid except after	1	
	completely emptied and degassed		
63.119(c)(3)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
(0)(0)(00)	External floating roof Must float on liquid except when		
	completely emptied before refilling		
63.119(c)(4)	Storage Vessel Provisions Reference Control Technology	Y	
	External Floating Roof Operations, when not floating		
63.120(b)	Storage Vessel Provisions Procedures to Determine	Y	
	ComplianceCompliance DemonstrationExternal floating roof		
63.120(b)(1)	Storage Vessel Provisions Procedures to Determine	Y	
03.120(0)(1)	ComplianceExternal FR seal gap measurement	1	
63.120(b)(1)(i)	Storage Vessel Provisions Procedures to Determine	Y	
	ComplianceExternal FR with double seals - primary seal gap		
	measurement – 5 year intervals		
63.120(b)(1)(iii)	Storage Vessel Provisions Procedures to Determine	Y	
- (-)(-)	ComplianceExternal FR with double seals - secondary seal gap		
	measurement – annual requirement		

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS S340 (TANK 108)

5540 (TANK 100)				
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date	
63.120(b)(1)(iv)	Storage Vessel Provisions Procedures to Determine	Y		
03.120(0)(1)(11)	ComplianceExternal FR seal inspections prior to tank refill with	-		
	organic HAP after not storing organic HAP for 1 year or longer			
63.120(b)(2)	Storage Vessel Provisions Procedures to Determine	Y		
03.120(0)(2)	ComplianceExternal FR seal gap determination methods	1		
63.120(b)(2)(i)	Storage Vessel Provisions Procedures to Determine	Y		
03.120(0)(2)(1)	ComplianceExternal FR seal gap determination methods – roof	1		
	not resting on legs			
63.120(b)(2)(ii)	Storage Vessel Provisions Procedures to Determine	Y		
03.120(0)(2)(11)	ComplianceExternal FR seal gap determination methods –	1		
	measure gaps around entire circumference of seal and measure			
	width and length of gaps			
63.120(b)(2)(iii)	Storage Vessel Provisions Procedures to Determine	Y		
03.120(0)(2)(111)		1		
	ComplianceExternal FR seal gap determination methods – determine total surface area of each gap			
(2.100/L)/2)		V		
63.120(b)(3)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR primary seal gap calculation method –			
	total surface area of primary seal gaps <= 212 cm2 per meter of			
40.40.40.40	vessel diameter. Maximum width <= 3.81 cm			
63.120(b)(4)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR secondary seal gap calculation method			
	- total surface area of secondary seal gaps <= 21.2 cm2 per meter			
60 100 (L) (E)	of vessel diameter. Maximum width <= 1.27 cm	***		
63.120(b)(5)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR primary seal additional requirements			
63.120(b)(5)(i)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR primary seal additional requirements –			
	metallic shoe seal – shoe geometry			
63.120(b)(5)(ii)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR primary seal additional requirements –			
	no holes, tears, or openings			
63.120(b)(6)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR secondary seal requirements			
63.120(b)(6)(i)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR secondary seal requirements – location			
	and extent			
63.120(b)(6)(ii)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR secondary seal requirements - no holes,			
	tears or openings			
63.120(b)(7)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR unsafe to perform seal measurements			
	or inspect the tank			
63.120(b)(7)(i)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR unsafe to perform seal measurements			

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS S340 (TANK 108)

S340 (1ANK 108)				
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date	
	or inspect the tank – complete measurements or inspection within	, ,		
	30 days after determining roof is unsafe or comply with			
	63.120(b)(7)(ii)			
63.120(b)(7)(ii)	Storage Vessel Provisions Procedures to Determine	Y		
() () ()	ComplianceExternal FR unsafe to perform seal measurements			
	or inspect the tank – empty and remove vessel from service			
	within 45 days after determining roof is unsafe or comply with			
	63.120(b)(7)(i). Two 30 day extensions are allowed to empty the			
	tank. Decision to use extension must be documented.			
63.120(b)(8)	Storage Vessel Provisions Procedures to Determine	Y		
. , , ,	Compliance External FR Repairs must be made within 45 days			
	after identification or empty and remove tank from service. Two			
	30 day extensions are allowed to empty the tank. Decision to use			
	extension must be documented.			
63.120(b)(9)	Storage Vessel Provisions Procedures to Determine	Y		
	Compliance External FR seal gap measurement 30 day			
	notification			
63.120(b)(10)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR and seals visual inspection each time			
	emptied			
63.120(b)(10)(i)	Storage Vessel Provisions Procedures to Determine	Y		
	ComplianceExternal FR and seal visual inspection each time			
	emptied – Repair defects before refilling [does not apply to			
	gaskets, slotted membranes, or sleeve seals for Group 1 Refinery			
	MACT tanks per 63.646(e)]			
63.120(b)(10)(ii)	Storage Vessel Provisions Procedures to Determine	Y		
	Compliance External FR and seal visual inspection each time			
	emptied – 30 day notification			
63.120(b)(10)(iii)	Storage Vessel Provisions Procedures to Determine	Y		
	Compliance External FR and seal visual inspection each time			
	emptied Notification for unplanned			
63.123(a)	Storage Vessel Provisions RecordkeepingGroup 1 and Group	Y		
	2 storage vessel dimensions and capacity. Keep for life of source.			
63.123(d)	Storage Vessel Provisions RecordkeepingGroup 1 External	Y		
	floating roof tank requirements - records of seal gap			
	measurements (date, raw data, and required calculations)			
62 122(g)	Storage Vessel Provisions Recordkeeping, Extensions for	Y		
63.123(g)	emptying storage vessel – keep documentation specified	I		
40 CED 62 Cubmant	National Emission Standards for Hazardous Air Pollutants for			
40 CFR 63, Subpart CC	Petroleum Refineries (11/26/18)			
	REQUIREMENTS FOR EXTERNAL FLOATING ROOF			
	TANKS ALSO SUBJECT TO NSPS, Subparts K or Ka			
	TAMES ALSO SUBJECT TO NSES, Subparts & OF Ka			

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS \$340 (TANK 108)

	S340 (TANK 108)	Federally	
Applicable		Enforce-	Future
	Deculation Title on	able	Effective
Requirement	Regulation Title or Description of Requirement	(Y/N)	Date
The tenks in this tek			
	ole will be subject to the provisions of 40 CFR 63.646 and the referountil compliance with 40 CFR 63.660 and the referenced requirements.		
	lemonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.106.		III 40 CFK
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(h)	Compliance by dates specified in Table 11, except as provided in	I	
(2 (40(-)(5)	paragraphs (h)(1) through (h)(3)	Y	
63.640(n)(5)	Applicability and Designation of Affected Source Overlap for Storage Vessels— Group 1 vessel also subject to NSPS, Subparts	Y	
(2 (4)	K or Ka only subject to 63 Subpart CC	Y	
63.646	Upon demonstration of compliance with the standards in 63.660	Y	
	by the compliance dates specified in 63.640(h), the standards in		
(2 (4((-)	this section shall no longer apply.	V	
63.646(a)	Storage Vessel Provisions-Group 1	Y Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for	Y	
62.646(1)(2)	group determination	37	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.646(c)	Storage Vessel Provisions—63 Subpart G exclusions for storage	Y	
	vessels [EFRs exempt from 63.119(c)(2)]		
63.646(d)	Storage Vessel Provisions-References	Y	
63.646(d)(2)	Storage Vessel Provisions-References to April 22,1994	Y	
63.646(d)(3)	Storage Vessel Provisions-References to December 31, 1992	Y	
63.646(d)(4)	Storage Vessel Provisions-References to compliance dates in 63.100 of Subpart F	Y	
63.646(e)	Storage Vessel Provisions—Exceptions for compliance with	Y	
,	inspection requirements of 63.120 of Subpart G – Not required to		
	comply with provisions for gaskets, slotted membranes, and		
	sleeve seals.		
63.646(f)	Storage Vessel Provisions-Group 1 floating roof requirements	Y	
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements-	Y	
	Covers or lids closed except when in use		
63.646(f)(2)	Storage Vessel Provisions-Group 1 floating roof requirements-	Y	
	Rim space vents requirements		
63.646(f)(3)	Storage Vessel Provisions-Group 1 floating roof requirements-	Y	
()(-)	Automatic bleeder vents requirements		
63.646(l)	Storage Vessel Provisions-State or local permitting agency	Y	
	notification requirements		
63.655(f)	Reporting and Recordkeeping Requirements-Notice of	Y	
()	compliance status report requirements		
63.655(f)(1)	Reporting and Recordkeeping Requirements-Notice of	Y	
(/ (- /	compliance status report requirements	_	
63.655(f)(1)(i)	Reporting and Recordkeeping Requirements-Notice of	Y	
	compliance status report requirements-Reportingstorage vessels	_	
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of	Y	
	compliance status report requirements-Reportingstorage vessels	•	

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS \$340 (TANK 108)

S340 (TANK 108)			
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of	Y	
(1)	compliance status report requirements-Reportingstorage vessels		
63.655(g)	Periodic Reporting and Recordkeeping Requirements	Y	
63.655(g)(1)	Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source]	Y	
63.655(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs	Y	
63.655(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement	Y	
63.655(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation	Y	
63.655(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures	Y	
63.655(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures	Y	
63.655(h)(2)	Reporting and Recordkeeping Requirements-Other reports- Storage vessel notification of inspections.	Y	
63.655(h)(2)(i)	Reporting and Recordkeeping Requirements-Other reports- Storage vessel notification of inspections – refilling Group 1 storage vessel.	Y	
63.655(h)(2)(ii)	Reporting and Recordkeeping Requirements-Other reports- Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local].	Y	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – keep records specified in 63.123 (Subpart G)	Y	
63.655(i)(1)(i)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels—keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources. Each owner or operator subject to the storage vessel provisions in 63.660 shall keep records as specified in paragraphs (i)(1)(v) and (vi).	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years	Y	
63.660	Storage vessel provisions. Group 1 storage vessel shall comply with the requirements in 40 CFR 63, subpart WW according to the requirements of 63.660(a) through (i).	Y	
63.660(a)	Determination of stored liquid HAP content	Y	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – BB.15 Source-Specific Applicable Requirements NSPS KA EXTERNAL FLOATING ROOF TANK WITH ZERO-GAP SEALS S340 (TANK 108)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(d)	Group 1 Storage Vessel Requirements	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
63.660(i)	Requirements for electing to comply with subpart SS	Y	
BAAQMD Condition 25223			
Part 1	Throughput limit [cumulative increase]	Y	
Part 2	Crude oil or petroleum liquids under 3.0 psia [BACT]	Y	
Part 3	Equipment requirements [BACT, cumulative increase]	Y	
Part 4	Records [cumulative increase]	Y	

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
Rule 5	TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service,	N	
	Notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank	N	
	in compliance at time of notification		
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service;	N	
	Filling, emptying, refilling floating roof tanks		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	N	
	Minimize emissions and, if required, degas per 8-5-328		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self	N	
	report if out of compliance during exemption period		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation		

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170),

	5105 (TAIN 275), 5104 (TAIN 270), 5201 (TAIN 1010)			
Applicable	December Title on	Federally	Future	
Requirement	Regulation Title or	Enforceable	Effective	
	Description of Requirement	(Y/N)	Date	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N		
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of	N		
0-3-112.2	Tanks in Operation; Tank in compliance at time of notification	IN.		
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of	N		
0-3-112.3	Tanks in Operation; No product movement, Minimize emissions	11		
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of	N		
0-3-112.4	Tanks in Operation; Not to exceed 7 days	11		
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of	N		
0 0 112.0	Tanks in Operation; Self report if out of compliance during exemption	1,		
	period			
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of	N		
	Tanks in Operation; Keep records for each exemption			
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N		
8-5-301	Storage Tank Control Requirements	N		
8-5-304	Requirements for External Floating Roof Tanks	N		
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y		
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y		
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y		
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N		
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N		
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N		
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight	N		
	if leaking			
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks	N		
	at next removal from service			
8-5-320	Floating Roof Tank Fitting Requirements	N		
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid	N		
	surface			
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals,	N		
	lids			
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	Y		
0 0 0 20:0:1	- Gap requirements	_		
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	N		
	wells			
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y		
	wellsprojection below liquid surface			
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y		
	wellscover, seal, or lid			
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y		
	wells total secondary seal gap must include well gap			

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains must be 90% covered	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements - geometry of shoe	N	
8-5-321.3.2	Primary seal requirements; Metallic-shoe-type seal requirements - welded tanks gap requirements	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N	
8-5-322.2	Secondary seal requirements; Insertion of probes	N	
8-5-322.3	Secondary seal requirements; Gap requirements for all tanks	N	
8-5-322.5	Secondary seal requirements; Gap requirements for welded external floating roof tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal requirements; extent of seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170),

Amalianhi		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
	(applicable to S125 (Tank 170))		
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations;	N	
	EPA method 21 Instruments (applicable to S125 (Tank 170))		
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations;	N	
	Method 21 and tank degassing residual organic concentration		
	measurement method (applicable to S125 (Tank 170))		
SIP Regulation 8,	Storage of Organic Liquids (06/6/03)		
Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO		
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO; 3 day prior notification		
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO; Telephone notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Compliance before notification		
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Floating roof tanks - continuous and quick filling, emptying and		
	refilling		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Minimization of emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Written notice of completion not required		
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Compliance with Section 8-5-328		
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day	Y	
	prior notification		
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO;	Y	
	Telephone notification		
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and	Y	
	certification before commencement of work per 8-5-404		
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement;	Y	
	minimization of emissions		
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed	Y	
	7 days		
8-5-301	Storage Tank Control Requirements (internal floating roof, external	Y	
	floating roof, or approved emission control system)		
8-5-304	Requirements for External Floating Roofs	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements – Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5)	Y	
8-5-322.5	Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985 (becomes applicable when secondary seal is considered newly installed and subject to zero-gap seal gap requirements)	Y	
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170),

	S183 (1ANK 295), S184 (1ANK 290), S201 (1ANK 10.		Future
Applicable		Federally	
Requirement	Regulation Title or	Enforceable	Effective
	Description of Requirement	(Y/N)	Date
8-5-605	Pressure-Vacuum Valve Gas Tight Determination (applicable to S125	Y	
	(Tank 170))		
40 CFR 63,	SOCMI HON G (12/21/2006)		
Subpart G	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
	TANKS		
	able will be subject to the provisions of 40 CFR 63.646 and the referen		
· -	Guntil compliance with 40 CFR 63.660 and the referenced requiremen	ts contained in	40 CFR
63, subpart WW is	demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		,
63.119(a)	Storage Vessel Provisions Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions Reference Control TechnologyGroup	Y	
	1, TVP < 76.6 kPa		
63.119(c)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof		
63.119(c)(1)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof seals		
63.119(c)(1)(i)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof double seals required		
63.119(c)(1)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
.,,,,,	External floating roof primary seal requirements – metallic shoe or		
	liquid-mounted		
63.119(c)(1)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
.,,,,,	External floating roof seal requirements		
63.119(c)(3)	Storage Vessel Provisions Reference Control Technology	Y	
.,,,	External floating roofMust float on liquid		
63.119(c)(3)(i)	Storage Vessel Provisions Reference Control Technology	Y	
() () ()	External floating roofMust float on liquid except during initial fill		
63.119(c)(3)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
() () ()	External floating roof Must float on liquid except after completely		
	emptied and degassed		
63.119(c)(3)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof Must float on liquid except when		
	completely emptied before refilling		
63.119(c)(4)	Storage Vessel Provisions Reference Control Technology	Y	
	External Floating Roof Operations, when not floating		
63.120(b)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
***************************************	Compliance DemonstrationExternal floating roof		
63.120(b)(1)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
******	External FR seal gap measurement		
63.120(b)(1)(i)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
-5.120(5)(1)(1)	External FR with double seals - primary seal gap measurement – 5	_	
	year intervals		
63.120(b)(1)(iii)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
55.120(5)(1)(III)	External FR with double seals - secondary seal gap measurement –	•	
	annual requirement		
	umuu requirement	1	

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.120(b)(1)(iv)	Storage Vessel Provisions Procedures to Determine Compliance- External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer	Y	
63.120(b)(2)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods	Y	
63.120(b)(2)(i)	Storage Vessel Provisions Procedures to Determine Compliance- External FR seal gap determination methods – roof not resting on legs	Y	
63.120(b)(2)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps	Y	
63.120(b)(2)(iii)	Storage Vessel Provisions Procedures to Determine Compliance- External FR seal gap determination methods – determine total surface area of each gap	Y	
63.120(b)(3)	Storage Vessel Provisions Procedures to Determine Compliance- External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm	Y	
63.120(b)(4)	Storage Vessel Provisions Procedures to Determine Compliance- External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm	Y	
63.120(b)(5)	Storage Vessel Provisions Procedures to Determine Compliance- External FR primary seal additional requirements	Y	
63.120(b)(5)(i)	Storage Vessel Provisions Procedures to Determine Compliance- External FR primary seal additional requirements – metallic shoe seal – shoe geometry	Y	
63.120(b)(5)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR primary seal additional requirements – no holes, tears, or openings	Y	
63.120(b)(6)	Storage Vessel Provisions Procedures to Determine Compliance- External FR secondary seal requirements	Y	
63.120(b)(6)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements – location and extent	Y	
63.120(b)(6)(ii)	Storage Vessel Provisions Procedures to Determine Compliance- External FR secondary seal requirements - no holes, tears or openings	Y	
63.120(b)(7)	Storage Vessel Provisions Procedures to Determine Compliance- External FR unsafe to perform seal measurements or inspect the tank	Y	
63.120(b)(7)(i)	Storage Vessel Provisions Procedures to Determine Compliance- External FR unsafe to perform seal measurements or inspect the tank - complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii)	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170),

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.120(b)(7)(ii)	Storage Vessel Provisions Procedures to Determine Compliance-External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented.	Y	
63.120(b)(8)	Storage Vessel Provisions Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented.	Y	
63.120(b)(9)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
63.120(b)(10)	Storage Vessel Provisions Procedures to Determine Compliance- External FR and seals visual inspection each time emptied	Y	
63.120(b)(10)(i)	Storage Vessel Provisions Procedures to Determine Compliance- External FR and seal visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)]	Y	
63.120(b)(10)(ii)	Storage Vessel Provisions Procedures to Determine Compliance- External FR and seal visual inspection each time emptied – 30 day notification	Y	
63.120(b)(10)(iii)	Storage Vessel Provisions Procedures to Determine Compliance- External FR and seal visual inspection each time emptied Notification for unplanned	Y	
63.123(a)	Storage Vessel Provisions RecordkeepingGroup 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source.	Y	
63.123(d)	Storage Vessel Provisions RecordkeepingGroup 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations)	Y	
63.123(g)	Storage Vessel Provisions Recordkeeping, Extensions for emptying storage vessel – keep documentation specified	Y	
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (11/26/18) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
63, subpart G until co	e will be subject to the provisions of 40 CFR 63.646 and the referenced rempliance with 40 CFR 63.660 and the referenced requirements contained as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(h)	Compliance by dates specified in Table 11, except as provided in paragraphs (h)(1) through (h)(3)	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170),

	5103 (TANK 293), 5104 (TANK 290), 5201 (TANK 101	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.646	Upon demonstration of compliance with the standards in 63.660 by	Y	
	the compliance dates specified in 63.640(h), the standards in this		
	section shall no longer apply.		
63.646(a)	Storage Vessel Provisions-Group 1	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for	Y	
· / / /	group determination		
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.646(c)	Storage Vessel Provisions—63 Subpart G exclusions for storage	Y	
.,	vessels [EFRs exempt from 63.119(c)(2)]		
63.646(d)	Storage Vessel Provisions-References	Y	
63.646(d)(2)	Storage Vessel Provisions-References to April 22,1994	Y	
63.646(d)(3)	Storage Vessel Provisions-References to December 31, 1992	Y	
63.646(d)(4)	Storage Vessel Provisions-References to compliance dates in 63.100	Y	
05.0.0(4)(1)	of Subpart F	_	
63.646(e)	Storage Vessel Provisions—Exceptions for compliance with	Y	
	inspection requirements of 63.120 of Subpart G – Not required to	_	
	comply with provisions for gaskets, slotted membranes, and sleeve		
	seals.		
63.646(f)	Storage Vessel Provisions-Group 1 floating roof requirements	Y	
22.2.2(2)	and the second s		
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements-	Y	
	Covers or lids closed except when in use	_	
63.646(f)(2)	Storage Vessel Provisions-Group 1 floating roof requirements-Rim	Y	
.,,,	space vents requirements		
63.646(f)(3)	Storage Vessel Provisions-Group 1 floating roof requirements-	Y	
	Automatic bleeder vents requirements		
63.646(l)	Storage Vessel Provisions-State or local permitting agency	Y	
	notification requirements		
63.655(f)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements		
63.655(f)(1)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements		
63.655(f)(1)(i)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements-Reportingstorage vessels		
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
.,,,,,,,,	status report requirements-Reportingstorage vessels		
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
(1)	status report requirements-Reportingstorage vessels		
63.655(g)	Periodic Reporting and Recordkeeping Requirements	Y	
63.655(g)(1)	Periodic Reporting and Recordkeeping Requirements-storage vessels	Y	
	[Information related to gaskets, slotted membranes, and sleeve seals		
	not required for storage vessels that are part of existing source]		
63.655(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements-storage vessels	Y	
J. (, (,)	with external floating roofs		

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170),

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
63.655(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement	Y	2400
63.655(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation	Y	
63.655(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures	Y	
63.655(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures	Y	
63.655(h)(2)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections.	Y	
63.655(h)(2)(i)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections – refilling Group 1 storage vessel.	Y	
63.655(h)(2)(ii)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local].	Y	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – keep records specified in 63.123 (Subpart G)	Y	
63.655(i)(1)(i)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels—keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources. Each owner or operator subject to the storage vessel provisions in 63.660 shall keep records as specified in paragraphs (i)(1)(v) and (vi).	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years	Y	
63.660	Storage vessel provisions. Group 1 storage vessel shall comply with the requirements in 40 CFR 63, subpart WW according to the requirements of 63.660(a) through (i).	Y	
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(d)	Group 1 Storage Vessel Requirements	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
63.660(i)	Requirements for electing to comply with subpart SS	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.16 Source-Specific Applicable Requirements MACT EXTERNAL FLOATING ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

Future Federally Applicable Regulation Title or Enforceable **Effective** Requirement **Description of Requirement** (Y/N) Date BAAQMD Throughput limits for sources S113, S125 [Basis: 2-1-234.3] N Condition 20989, Part A BAAOMD Y Throughput limits for sources S183, S184 [Basis: 2-1-234.3] Condition 20989, Part A BAAAQMD Applies to S261 **Condition 25478** Part 1 Throughput limit [Basis: Cumulative Increase] Y Part 2 Equipment requirements [Basis: Cumulative Increase] Y Part 3 Records [Basis: Cumulative Increase]

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695A)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	N	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	N	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	

IV. Source Specific Applicable Requirements

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695A)

	S210 (TANK 095A)		Future
Applicable	Decodetion Title on	Federally	Effective
Requirement	Regulation Title or	Enforceable	
8-5-112.3	Description of Requirement	(Y/N) N	Date
8-3-112.3	Limited Exemption, Preventative Maintenance and Inspection of	IN	
8-5-112.4	Tanks in Operation; No product movement, Minimize emissions	N	
8-3-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	IN	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of	N	
8-3-112.3	Tanks in Operation; Self report if out of compliance during exemption	IN	
	period		
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of	N	
0-3-112.0	Tanks in Operation; Keep records for each exemption	14	
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2			
8-5-304.2 8-5-304.3	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y Y	
	Requirements for External Floating Roofs; Secondary seal (8-5-322)		
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid	N	
	surface	- '	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals,	N	
	lids		
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	Y	
	- Gap requirements		
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells	N	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellsprojection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellscover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y	
0.5.220.5	wells total secondary seal gap must include well gap	3.7	
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains must be 90% covered	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695A)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N	Dute
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements -	N	
0 0 0 21.0.1	geometry of shoe	- 1	
8-5-321.3.3	Primary seal requirements; Metallic-shoe-type seal requirements –	N	
	riveted tanks gap requirements	- ,	
8-5-322	Secondary seal requirements	N	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N	
8-5-322.2	Secondary seal requirements; Insertion of probes	N	
8-5-322.3	Secondary seal requirements; Gap requirements for all tanks	N	
8-5-322.4	Secondary seal requirements; Riveted tanks	Y	
8-5-322.6	Secondary seal requirements; extent of seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary	N	
	and Secondary Seal Inspections		
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank	N	
	Fittings Inspections		
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test	N	
	Reports		
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks	N	
	selected for enhanced monitoring program		
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating	N	
	enhanced monitoring program		
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	

IV. Source Specific Applicable Requirements

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695A)

A 12 1.1 .		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
SIP Regulation 8,	Storage of Organic Liquids (06/5//03)		
Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO		
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO; 3 day prior notification		
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO; Telephone notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Compliance before notification		
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Floating roof tanks - continuous and quick filling, emptying and		
	refilling		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Minimization of emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Written notice of completion not required		
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Compliance with Section 8-5-328		
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day	Y	
	prior notification		
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO;	Y	
	Telephone notification		
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and	Y	
	certification before commencement of work per 8-5-404		
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement;	Y	
	minimization of emissions		
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed	Y	
	7 days		
8-5-301	Storage Tank Control Requirements (internal floating roof, external	Y	
	floating roof, or approved emission control system)		
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements – Floating roof tanks, Projection below	Y	
	liquid surface		
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers,	Y	
	seals, lids	_	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well	Y	
	requirements in floating roof tanks		
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK \$216 (TANK 6954)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321	Primary seal requirements	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seal requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seal requirements Geometry of shoe	Y	
8-5-321.3.3	Primary seal requirements; Metallic shoe type seal requirements: Gaps for riveted tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.3	Secondary seal requirements; Seal gaps	Y	
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
40 CFR 63,	SOCMI HON G (12/21/2006)		
Subpart G	REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
CFR 63, subpart	table will be subject to the provisions of 40 CFR 63.646 and the reference G until compliance with 40 CFR 63.660 and the referenced requirement	its contained in	
	is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.119(a)	Storage Vessel Provisions Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions Reference Control TechnologyGroup 1, TVP < 76.6 kPa	Y	
63.119(c)	Storage Vessel Provisions Reference Control Technology External floating roof	Y	
63.119(c)(1)	Storage Vessel Provisions Reference Control Technology External floating roof seals	Y	
63.119(c)(1)(i)	Storage Vessel Provisions Reference Control Technology External floating roof double seals required	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695A)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
63.119(c)(1)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof primary seal requirements – metallic shoe or		
	liquid-mounted		
63.119(c)(1)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof seal requirements		
63.119(c)(3)	Storage Vessel Provisions Reference Control Technology	Y	
(2.110(-)(2)(;)	External floating roofMust float on liquid	Y	
63.119(c)(3)(i)	Storage Vessel Provisions Reference Control Technology External floating roofMust float on liquid except during initial fill	Y	
63.119(c)(3)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
03.117(0)(3)(11)	External floating roof Must float on liquid except after completely	1	
	emptied and degassed		
63.119(c)(3)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof Must float on liquid except when		
	completely emptied before refilling		
63.119(c)(4)	Storage Vessel Provisions Reference Control Technology	Y	
	External Floating Roof Operations, when not floating		
63.120(b)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	Compliance DemonstrationExternal floating roof		
63.120(b)(1)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR seal gap measurement		
63.120(b)(1)(i)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
	External FR with double seals - primary seal gap measurement – 5		
63.120(b)(1)(iii)	year intervals Storage Vessel Provisions Procedures to Determine Compliance	Y	
03.120(0)(1)(111)	External FR with double seals - secondary seal gap measurement –	I	
	annual requirement		
63.120(b)(1)(iv)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
	External FR seal inspections prior to tank refill with organic HAP		
	after not storing organic HAP for 1 year or longer		
63.120(b)(2)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR seal gap determination methods		
63.120(b)(2)(i)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR seal gap determination methods – roof not resting on		
	legs		
63.120(b)(2)(ii)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
	External FR seal gap determination methods – measure gaps around		
62 120(b)(2)(:::)	entire circumference of seal and measure width and length of gaps	Y	
63.120(b)(2)(iii)	Storage Vessel Provisions Procedures to Determine Compliance- External FR seal gap determination methods – determine total	1	
	surface area of each gap		
63.120(b)(3)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
00.120(0)(0)	External FR primary seal gap calculation method – total surface area	· .	
	of primary seal gaps <= 212 cm2 per meter of vessel diameter.		
	Maximum width <= 3.81 cm		

IV. Source Specific Applicable Requirements

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695A)

	S210 (TANK 095A)		Future
Applicable	D. L.C. Tru	Federally	
Requirement	Regulation Title or	Enforceable	Effective
	Description of Requirement	(Y/N)	Date
63.120(b)(4)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR secondary seal gap calculation method – total surface		
	area of secondary seal gaps <= 21.2 cm2 per meter of vessel		
	diameter. Maximum width <= 1.27 cm		
63.120(b)(5)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR primary seal additional requirements		
63.120(b)(5)(i)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR primary seal additional requirements – metallic shoe		
	seal – shoe geometry		
63.120(b)(5)(ii)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR primary seal additional requirements – no holes, tears,		
	or openings		
63.120(b)(6)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR secondary seal requirements		
63.120(b)(6)(i)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
(/ (/ (/	External FR secondary seal requirements – location and extent		
63.120(b)(6)(ii)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
***************************************	External FR secondary seal requirements - no holes, tears or	_	
	openings		
63.120(b)(7)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
03.120(0)(7)	External FR unsafe to perform seal measurements or inspect the tank	1	
63.120(b)(7)(i)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
03.120(0)(7)(1)	External FR unsafe to perform seal measurements or inspect the tank	1	
	- complete measurements or inspection within 30 days after		
	determining roof is unsafe or comply with 63.120(b)(7)(ii)		
63.120(b)(7)(ii)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
03.120(0)(7)(11)	External FR unsafe to perform seal measurements or inspect the tank	1	
	- empty and remove vessel from service within 45 days after		
	determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30		
	day extensions are allowed to empty the tank. Decision to use		
	* * * * * * * * * * * * * * * * * * * *		
(2.120/L)(9)	extension must be documented. Storage Vessel Provisions Procedures to Determine Compliance	Y	
63.120(b)(8)		Y	
	External FR Repairs must be made within 45 days after		
	identification or empty and remove tank from service. Two 30 day		
	extensions are allowed to empty the tank. Decision to use extension		
(2.120(1.)(0)	must be documented.	37	
63.120(b)(9)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
40.400.4.400	External FR seal gap measurement 30 day notification		
63.120(b)(10)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
60 100 d 1 (10) d)	External FR and seals visual inspection each time emptied		
63.120(b)(10)(i)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	
	External FR and seal visual inspection each time emptied – Repair		
	defects before refilling [does not apply to gaskets, slotted		
	membranes, or sleeve seals for Group 1 Refinery MACT tanks per		
	63.646(e)]		

IV. Source Specific Applicable Requirements

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695A)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.120(b)(10)(ii)	Storage Vessel Provisions Procedures to Determine Compliance- External FR and seal visual inspection each time emptied – 30 day notification	Y	
63.120(b)(10)(iii)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seal visual inspection each time emptied Notification for unplanned	Y	
63.123(a)	Storage Vessel Provisions RecordkeepingGroup 1 and Group 2 storage vessel dimensions and capacity. Keep for life of source.	Y	
63.123(d)	Storage Vessel Provisions RecordkeepingGroup 1 External floating roof tank requirements - records of seal gap measurements (date, raw data, and required calculations)	Y	
63.123(g)	Storage Vessel Provisions Recordkeeping, Extensions for emptying storage vessel – keep documentation specified	Y	
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (11/26/18) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
The tanks in this table	will be subject to the provisions of 40 CFR 63.646 and the referenced re	equirements of	40 CFR
63, subpart G until co	mpliance with 40 CFR 63.660 and the referenced requirements contained	d in 40 CFR 63,	subpart
WW is demonstrated,	as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(h)	Compliance by dates specified in Table 11, except as provided in paragraphs (h)(1) through (h)(3)	Y	
63.646	Upon demonstration of compliance with the standards in 63.660 by the compliance dates specified in 63.640(h), the standards in this section shall no longer apply.	Y	
63.646(a)	Storage Vessel Provisions-Group 1	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.646(c)	Storage Vessel Provisions—63 Subpart G exclusions for storage vessels [EFRs exempt from 63.119(c)(2)]	Y	
63.646(d)	Storage Vessel Provisions-References	Y	
63.646(d)(2)	Storage Vessel Provisions-References to April 22,1994	Y	
63.646(d)(3)	Storage Vessel Provisions-References to December 31, 1992	Y	
63.646(d)(4)	Storage Vessel Provisions-References to compliance dates in 63.100 of Subpart F	Y	
63.646(e)	Storage Vessel Provisions—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals.	Y	
63.646(f)	Storage Vessel Provisions-Group 1 floating roof requirements	Y	
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements- Covers or lids closed except when in use	Y	
63.646(f)(2)	Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695A)

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.646(f)(3)	Storage Vessel Provisions-Group 1 floating roof requirements-	Y	
	Automatic bleeder vents requirements		
63.646(l)	Storage Vessel Provisions-State or local permitting agency	Y	
	notification requirements		
63.655(f)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements		
63.655(f)(1)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements		
63.655(f)(1)(i)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements-Reportingstorage vessels		
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
	status report requirements-Reportingstorage vessels		
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance	Y	
(1)	status report requirements-Reportingstorage vessels		
63.655(g)	Periodic Reporting and Recordkeeping Requirements	Y	
63.655(g)(1)	Periodic Reporting and Recordkeeping Requirements-storage vessels	Y Y	
	[Information related to gaskets, slotted membranes, and sleeve seals		
	not required for storage vessels that are part of existing source]		
63.655(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements-storage vessels	Y	
	with external floating roofs		
63.655(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements-storage vessels	Y	
	with external floating roofs-document results of each seal gap		
	measurement		
63.655(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements-storage vessels	Y	
	with external floating roofs – extension documentation		
63.655(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements-storage vessels	Y	
	with external floating roofs – documentation of failures		
63.655(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements-storage vessels	Y	
	with external floating roofs – documentation of failures		
63.655(h)(2)	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
	vessel notification of inspections.		
63.655(h)(2)(i)	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
	vessel notification of inspections – refilling Group 1 storage vessel.		
63.655(h)(2)(ii)	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
	vessel notification of inspections -Group 1 storage vessel seal gap		
	measurements – 30 day notification [can be waived or modified by		
	state or local].		
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports-	Y	
	Determination of Applicability		
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports-	Y	
	Determination of Applicability		
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
	storage vessels – keep records specified in 63.123 (Subpart G)		
63.655(i)(1)(i)	Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
	storage vessels- keep records specified in 63.123 (Subpart G) except		

IV. Source Specific Applicable Requirements

Table IV – BB.17 Source-Specific Applicable Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK \$216 (TANK 695A)

5210 (TANK 0/5A)			
Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources. Each owner or operator subject to the storage vessel provisions in 63.660 shall keep records as specified in paragraphs (i)(1)(v) and (vi).		
63.655(i)(6)	Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years	Y	
63.660	Storage vessel provisions. Group 1 storage vessel shall comply with the requirements in 40 CFR 63, subpart WW according to the requirements of 63.660(a) through (i).	Y	
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(d)	Group 1 Storage Vessel Requirements	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
63.660(i)	Requirements for electing to comply with subpart SS	Y	
BAAQMD Condition 20989, Part A	Throughput limits for source S216 [Basis: 2-1-234.3]	N	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceabl e (Y/N)	Future Effective Date
BAAQMD Regulation 8,	Organic Compounds, Storage of Organic Liquids (10/18/06) REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS	(===-1)	2
Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	N	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	N	

IV. Source Specific Applicable Requirements

	5157 (TANK 177)	Federally	.
Applicable		Enforceabl	Future
Requirement	Regulation Title or	e	Effective
	Description of Requirement	(Y/N)	Date
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	N	
	Minimize emissions and, if required, degas per 8-5-328		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self	N	
	report if out of compliance during exemption period		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation		
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Notification		
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Tank in compliance at time of notification		
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; No product movement, Minimize emissions		
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Not to exceed 7 days		
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Self report if out of compliance during		
	exemption period		
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Keep records for each exemption		
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	

IV. Source Specific Applicable Requirements

5134 (1ANK 194)				
		Federally	Future	
Applicable	Danilation Title on	Enforceabl		
Requirement	Regulation Title or	e	Effective	
0.5.220.4	Description of Requirement	(Y/N)	Date	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells	N		
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y		
	wellsprojection below liquid surface			
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellscover, seal, or lid	Y		
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging	Y		
0 0 0 201 110	wells total secondary seal gap must include well gap	_		
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains	N		
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	must be 90% covered			
8-5-321	Primary seal requirements	N		
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y		
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid	Y		
	mounted except as provided in 8-5-305.1.3			
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N		
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements -	N		
	geometry of shoe			
8-5-321.3.2	Primary seal requirements; Metallic-shoe-type seal requirements -	N		
	welded tanks gap requirements			
8-5-322	Secondary seal requirements	N		
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N		
8-5-322.2	Secondary seal requirements; Insertion of probes	N		
8-5-322.3	Secondary seal requirements; Gap requirements for all tanks	N		
8-5-322.5	Secondary seal requirements; Gap requirements for welded external	N		
	floating roof tanks with seal installed after September 4, 1985			
8-5-322.6	Secondary seal requirements; extent of seal	N		
8-5-328	Tank degassing requirements	N		
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N		
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N		
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N		
8-5-401	Inspection Requirements for External Floating Roof Tanks	N		
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N		
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank	N		
0-3-401.2	Fittings Inspections	11		
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test	N		
	Reports	,		
8-5-411	Enhanced Monitoring Program (Optional)	N		
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of	N		
· · · · · ·	tanks selected for enhanced monitoring program			
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating	N		
	enhanced monitoring program			

IV. Source Specific Applicable Requirements

		Federally	П.
Applicable		Enforceabl	Future
Requirement	Regulation Title or	e	Effective
	Description of Requirement	(Y/N)	Date
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP-Retain 24 months	N	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years	N	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA method 21 Instruments	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Method 21 and tank degassing residual organic concentration measurement method	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/5/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	

IV. Source Specific Applicable Requirements

	5154 (TANK 194)				
Annliaghla		Federally Enforceabl	Future		
Applicable Requirement	Regulation Title or	e	Effective		
Kequirement	Description of Requirement	(Y/N)	Date		
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and	Y	Date		
0-3-112.2	certification before commencement of work per 8-5-404	1			
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement;	Y			
0-3-112.3	minimization of emissions	1			
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed	Y			
0.5 112.1	7 days	1			
8-5-301	Storage Tank Control Requirements (internal floating roof, external	Y			
	floating roof, or approved emission control system)				
8-5-304	Requirements for External Floating Roofs	Y			
8-5-304.4	Requirements for External Floating Roofs; Floating roof	Y			
	requirements				
8-5-320	Tank fitting requirements – Floating roof tanks	Y			
8-5-320.2	Tank fitting requirements – Floating roof tanks, Projection below	Y			
	liquid surface				
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers,	Y			
	seals, lids				
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well	Y			
	requirements in floating roof tanks				
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y			
8-5-321	Primary seal requirements	Y			
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y			
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-	Y			
	geometry of shoe				
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-	Y			
	welded tanks				
8-5-322	Secondary seal requirements	Y			
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y			
8-5-322.2	Secondary seal requirements; Insertion of probes	Y			
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as	Y			
	secondary seal is not zero-gap seal as defined in 8-5-322.5)				
8-5-322.5	Secondary seal requirements; Gap for welded tanks with seal	Y			
	installed after September 4, 1985 (becomes applicable when				
	secondary seal is considered newly installed and subject to zero-gap				
	seal gap requirements)				
8-5-322.6	Secondary seal requirements; extent of seal	Y			
8-5-328	Tank degassing requirements	Y			
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y			
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters;	Y			
	Concentration of <10,000 ppm as methane after degassing				
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y			
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y			

IV. Source Specific Applicable Requirements

Table IV – BB.18 **Source-Specific Applicable Requirements** MACT EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS S134 (TANK 194)

Applicable	5154 (TARK 194)	Federally Enforceabl	Future
Requirement	Regulation Title or	e	Effective
	Description of Requirement	(Y/N)	Date
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
BAAQMD	Organic Compounds, Wastewater (Oil-Water Separators)		
Regulation 8,	(9/15/2004)		
Rule 8	REQUIREMENTS FOR SLOP OIL VESSELS		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308	N	
8-8-303	Standards; Gauging and Sampling Devices	Y	
8-8-305	Standards: Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels	Y	
8-8-305.1	Standards: Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels – fixed cover requirements	Y	
8-8-503	Monitoring and Records; Inspection and Records	Y	
8-8-504	Monitoring and Records; Portable Hydrocarbon Detector	Y	
8-8-603	Manual of Procedures; Inspection procedures	N	
SIP	Wastewater (Oil-Water) Separator (8/29/94)		
Regulation 8, Rule 8			
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems (segregated) are exempt from 8-8-301, 8-8-302, 8-8-306, 8-8-308	Y	
8-8-603	Manual of Procedures: Inspection Procedures	Y	
	SOCMI HON G (12/21/2006)		

63.119(a) Storage Vessel Provisions -- Reference Control Technology

IV. Source Specific Applicable Requirements

	Federally		
Applicable		Enforceabl	Future
Requirement	Regulation Title or	e	Effective
	Description of Requirement	(Y/N)	Date
63.119(a)(1)	Storage Vessel Provisions Reference Control TechnologyGroup 1, TVP < 76.6 kPa	Y	
63.119(c)	Storage Vessel Provisions Reference Control Technology External floating roof	Y	
63.119(c)(1)	Storage Vessel Provisions Reference Control Technology External floating roof seals	Y	
63.119(c)(1)(i)	Storage Vessel Provisions Reference Control Technology External floating roof double seals required	Y	
63.119(c)(1)(ii)	Storage Vessel Provisions Reference Control Technology External floating roof primary seal requirements – metallic shoe or liquid-mounted	Y	
63.119(c)(1)(iii)	Storage Vessel Provisions Reference Control Technology External floating roof seal requirements	Y	
63.119(c)(3)	Storage Vessel Provisions Reference Control Technology External floating roofMust float on liquid	Y	
63.119(c)(3)(i)	Storage Vessel Provisions Reference Control Technology External floating roofMust float on liquid except during initial fill	Y	
63.119(c)(3)(ii)	Storage Vessel Provisions Reference Control Technology External floating roof Must float on liquid except after completely emptied and degassed	Y	
63.119(c)(3)(iii)	Storage Vessel Provisions Reference Control Technology External floating roof Must float on liquid except when completely emptied before refilling	Y	
63.119(c)(4)	Storage Vessel Provisions Reference Control Technology External Floating Roof Operations, when not floating	Y	
63.120(b)	Storage Vessel Provisions Procedures to Determine Compliance- Compliance DemonstrationExternal floating roof	Y	
63.120(b)(1)	Storage Vessel Provisions Procedures to Determine Compliance- External FR seal gap measurement	Y	
63.120(b)(1)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR with double seals - primary seal gap measurement – 5 year intervals	Y	
63.120(b)(1)(iii)	Storage Vessel Provisions Procedures to Determine Compliance External FR with double seals - secondary seal gap measurement – annual requirement	Y	
63.120(b)(1)(iv)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer	Y	
63.120(b)(2)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods	Y	
63.120(b)(2)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods – roof not resting on legs	Y	

IV. Source Specific Applicable Requirements

Applicable		Federally Enforceabl	Future
Requirement	Regulation Title or Description of Requirement	e (Y/N)	Effective Date
63.120(b)(2)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps	Y	
63.120(b)(2)(iii)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap determination methods – determine total surface area of each gap	Y	
63.120(b)(3)	Storage Vessel Provisions Procedures to Determine Compliance External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm	Y	
63.120(b)(4)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm	Y	
63.120(b)(5)	Storage Vessel Provisions Procedures to Determine Compliance External FR primary seal additional requirements	Y	
63.120(b)(5)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR primary seal additional requirements – metallic shoe seal – shoe geometry	Y	
63.120(b)(5)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR primary seal additional requirements – no holes, tears, or openings	Y	
63.120(b)(6)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements	Y	
63.120(b)(6)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements – location and extent	Y	
63.120(b)(6)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR secondary seal requirements - no holes, tears or openings	Y	
63.120(b)(7)	Storage Vessel Provisions Procedures to Determine Compliance External FR unsafe to perform seal measurements or inspect the tank	Y	
63.120(b)(7)(i)	Storage Vessel Provisions Procedures to Determine Compliance External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii)	Y	
63.120(b)(7)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented.	Y	
63.120(b)(8)	Storage Vessel Provisions Procedures to Determine Compliance External FR Repairs must be made within 45 days after	Y	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	D 1.4' T'41	Enforceabl	
Requirement	Regulation Title or	e	Effectiv
	Description of Requirement	(Y/N)	Date
	identification or empty and remove tank from service. Two 30 day		
	extensions are allowed to empty the tank. Decision to use extension		
	must be documented.		
63.120(b)(9)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR seal gap measurement 30 day notification		
63.120(b)(10)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR and seals visual inspection each time emptied		
63.120(b)(10)(i)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR and seal visual inspection each time emptied – Repair		
	defects before refilling [does not apply to gaskets, slotted		
	membranes, or sleeve seals for Group 1 Refinery MACT tanks per		
	63.646(e)]		
63.120(b)(10)(ii)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR and seal visual inspection each time emptied – 30 day		
	notification		
63.120(b)(10)(iii)	Storage Vessel Provisions Procedures to Determine Compliance	Y	
	External FR and seal visual inspection each time emptied —		
	Notification for unplanned		
63.123(a)	Storage Vessel Provisions RecordkeepingGroup 1 and Group 2	Y	
	storage vessel dimensions and capacity. Keep for life of source.		
63.123(d)	Storage Vessel Provisions RecordkeepingGroup 1 External	Y	
	floating roof tank requirements - records of seal gap measurements		
	(date, raw data, and required calculations)		
63.123(g)	Storage Vessel Provisions Recordkeeping, Extensions for	Y	
	emptying storage vessel – keep documentation specified		
40 CFR 63, Subpart	National Emission Standards for Hazardous Air Pollutants for		
CC	Petroleum Refineries (11/26/18)		
	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
	TANKS		
The tanks in this table	e will be subject to the provisions of 40 CFR 63.646 and the referenced in	equirements of	40 CFR
63, subpart G until co	mpliance with 40 CFR 63.660 and the referenced requirements contained	ed in 40 CFR 63	3, subpart
WW is demonstrated,	as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(h)	Compliance by dates specified in Table 11, except as provided in	Y	
	paragraphs (h)(1) through (h)(3)		
63.646	Upon demonstration of compliance with the standards in 63.660 by	Y	
	the compliance dates specified in 63.640(h), the standards in this		
	section shall no longer apply.		
63.646(a)	Storage Vessel Provisions-Group 1	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for	Y	
	group determination		
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	

IV. Source Specific Applicable Requirements

	5134 (TANK 174)	Federally	
Applicable		Enforceabl	Future
Requirement	Regulation Title or	e	Effective
requirement	Description of Requirement	(Y/N)	Date
63.646(c)	Storage Vessel Provisions—63 Subpart G exclusions for storage	Y	
. ,	vessels [EFRs exempt from 63.119(c)(2)]		
63.646(d)	Storage Vessel Provisions-References	Y	
63.646(d)(2)	Storage Vessel Provisions-References to April 22,1994	Y	
63.646(d)(3)	Storage Vessel Provisions-References to December 31, 1992	Y	
63.646(d)(4)	Storage Vessel Provisions-References to compliance dates in 63.100 of Subpart F	Y	
63.646(e)	Storage Vessel Provisions—Exceptions for compliance with inspection requirements of 63.120 of Subpart G – Not required to comply with provisions for gaskets, slotted membranes, and sleeve seals.	Y	
63.646(f)	Storage Vessel Provisions-Group 1 floating roof requirements	Y	
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements- Covers or lids closed except when in use	Y	
63.646(f)(2)	Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements	Y	
63.646(f)(3)	Storage Vessel Provisions-Group 1 floating roof requirements- Automatic bleeder vents requirements	Y	
63.646(l)	Storage Vessel Provisions-State or local permitting agency notification requirements	Y	
63.655(f)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements	Y	
63.655(f)(1)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements	Y	
63.655(f)(1)(i)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reportingstorage vessels	Y	
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reportingstorage vessels	Y	
63.655(f)(1)(i)(A) (1)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reportingstorage vessels	Y	
63.655(g)	Periodic Reporting and Recordkeeping Requirements	Y	
63.655(g)(1)	Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source]	Y	
63.655(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs	Y	
63.655(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement	Y	
63.655(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation	Y	

IV. Source Specific Applicable Requirements

	5157 (TANK 177)	Federally	E4
Applicable		Enforceabl	Future
Requirement	Regulation Title or	e	Effective
	Description of Requirement	(Y/N)	Date
63.655(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements-storage	Y	
	vessels with external floating roofs – documentation of failures		
63.655(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements-storage	Y	
	vessels with external floating roofs – documentation of failures		
63.655(h)(2)	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
	vessel notification of inspections.		
63.655(h)(2)(i)	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
	vessel notification of inspections – refilling Group 1 storage vessel.		
63.655(h)(2)(ii)	Reporting and Recordkeeping Requirements-Other reports-Storage	Y	
	vessel notification of inspections –Group 1 storage vessel seal gap		
	measurements – 30 day notification [can be waived or modified by		
(2 (55(1)(6)	state or local].	37	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports-	Y	
(2 (55 (1-)(6)(::)	Determination of Applicability Reporting and Recordkeeping Requirements-Other reports-	Y	
63.655(h)(6)(ii)		Y	
63.655(i)(1)	Determination of Applicability Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
03.033(1)(1)	storage vessels – keep records specified in 63.123 (Subpart G)	I	
63.655(i)(1)(i)	Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
03.033(1)(1)(1)	storage vessels– keep records specified in 63.123 (Subpart G)	1	
	except records related to gaskets, slotted membranes, and sleeve		
	seals for vessels in existing sources. Each owner or operator subject		
	to the storage vessel provisions in 63.660 shall keep records as		
	specified in paragraphs (i)(1)(v) and (vi).		
63.655(i)(6)	Reporting and Recordkeeping Requirements—Recordkeeping for	Y	
(-)(-)	storage vessels-Record retention – 5 years	_	
63.660	Storage vessel provisions. Group 1 storage vessel shall comply with	Y	
	the requirements in 40 CFR 63, subpart WW according to the	_	
	requirements of 63.660(a) through (i).		
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(d)	Group 1 Storage Vessel Requirements	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
63.660(i)	Requirements for electing to comply with subpart SS	Y	
BAAQMD	Throughput limits for source S134 [Basis: 2-1-234.3]	N	
Condition 20989,			
Part A			

IV. Source Specific Applicable Requirements

Table IV – BB.19 Source-Specific Applicable Requirements

EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING

S94 (TANK 78), S99 (TANK 102), S103 (TANK 106), S136 (TANK 201), S138 (TANK 203), S169 (TANK 270), S179 (TANK 291), S180 (TANK 292), S191 (TANK 303), S192 (TANK 304), S204 (TANK 528), S205 (TANK 529), S209 (TANK 674), S239 (TANK 212), S260 (TANK 1009), S262 (TANK 1011), S263 (TANK 1012), S286 (F3), S287 (F10), S293 (F805)

(TAINE TUU9)	, S262 (TANK 1011), S263 (TANK 1012), S286 (F3), S287		S (F 003)
		Federally	Future
Applicable	December Tidle on	Enforceabl	
Requirement	Regulation Title or	e	Effective
	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	EXEMPT		
Rule 5			
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP	Organic Compounds, Storage of Organic Liquids (6/05/03)		
Regulation 8,	EXEMPT		
Rule 5			
8-5-117	Exemption, Low Vapor Pressure	Y	
40 CFR 63,	SOCMI HON G (12/21/06)		
Subpart G	REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		
	table will be subject to the provisions of 40 CFR 63.646 and the referenced re	equirements of	40 CFR 63,
	ompliance with 40 CFR 63.660 and the referenced requirements contained in		
	as specified in 40 CFR 63.640(h), 63.660, and 63.1063.	ŕ	•
63.119(a)(3)	Storage Vessel Provisions – Reference Control Technology – Group 2	Y	
(.,,(.,	storage vessels comply only with recordkeeping requirements in		
	63.123(a)		
63.123(a)	Storage Vessel Provisions – Recordkeeping – Group 2 storage vessels	Y	
- (-)	only required to keep tank dimensions and capacity analysis. Retain for		
	life of source.		
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for		
Subpart CC	Petroleum Refining (11/26/18)		
Files	REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		
The tanks in this t	table will be subject to the provisions of 40 CFR 63.646 and the referenced response to the 4	equirements of	40 CFR 63
	ompliance with 40 CFR 63.660 and the referenced requirements contained in	•	
	as specified in 40 CFR 63.640(h), 63.660, and 63.1063.	10 0111 05, 54	opur " "
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for group	Y	
03.040(0)(1)	determination	1	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
	Reporting and Recordkeeping Requirements-Other reports-	Y	
63.655(h)(6)		Y	
(2 (55(1)(6)('')	Determination of Applicability	37	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports-	Y	
(2 (55(')/1)	Determination of Applicability	37	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage	Y	
	vessels – Keep records specified in 63.123	_	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage	Y	
(iv)	vessels – Data and assumptions used to determine Group 2		
	classification	1	

IV. Source Specific Applicable Requirements

Table IV – BB.19 Source-Specific Applicable Requirements

EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING

S94 (TANK 78), S99 (TANK 102), S103 (TANK 106), S136 (TANK 201), S138 (TANK 203), S169 (TANK 270), S179 (TANK 291), S180 (TANK 292), S191 (TANK 303), S192 (TANK 304), S204 (TANK 528), S205 (TANK 529), S209 (TANK 674), S239 (TANK 212), S260 (TANK 1009), S262 (TANK 1011), S263 (TANK 1012), S286 (F3), S287 (F10), S293 (F805)

Applicable		Federally Enforceabl	Future
Requirement	Regulation Title or	e	Effective
	Description of Requirement	(Y/N)	Date
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage	Y	
(vi)	vessels – Data and assumptions used to determine Group 2 classification		
63.655(i)(6)	Reporting and Recordkeeping Requirements-RecordkeepingRecord retention – 5 years	Y	
BAAQMD			
Condition 20773			
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	
BAAQMD	Applies to S239		
Condition 20989			
Part 1	Throughput limit	N	

Table IV – BB.20 Source-Specific Applicable Requirements EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S175 (TANK 284)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	General Provisions and Definitions (7/9/08)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y ¹	
1-523.3	Reports of Violations	Y ¹	
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	EXEMPT		
Rule 5			
8-5-117	Limited Exemption, Low Vapor Pressure	N	

IV. Source Specific Applicable Requirements

Table IV – BB.20 Source-Specific Applicable Requirements EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS \$175 (TANK 284)

	S175 (TANK 204)				
Applicable	December 2014	Federally	Future		
Requirement	Regulation Title or	Enforceable (Y/N)	Effective Date		
SIP	Description of Requirement Organic Compounds, Storage of Organic Liquids (6/05/03)	(1/11)	Date		
Regulation 8,	EXEMPT				
Rule 5	EXEMI I				
8-5-117	Exemption, Low Vapor Pressure	Y			
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for				
Subpart CC	Petroleum Refining (11/26/18) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM				
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y			
63.640(d)(5)	Exemption for emission points routed to fuel gas system	Y			
BAAQMD					
Condition 20773					
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y			
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y			
BAAQMD					
Condition 23724					
Part 1a	Requirement for abatement by A7, Odor Abatement System [2-1-403]	Y			
Part 2	Requirement for utility-grade natural gas blanket [2-1-403]	Y			
Part 3	Requirement for pressure monitoring devicea by 7/5/09. [2-1-403]	Y			
Part 4	After pressure monitoring devices are installed, requirement to operate below tank set pressure [2-1-403]	Y			
Part 4b	Tank pressures for other tanks [2-1-403]	Y			
Part 5	Pressure relief valve setting at or above nominal set pressure	Y			
Part 6	Corrective Plan	Y			
Part 7	Pressure monitoring records [2-1-403]	Y			
Part 8	Initial date for reporting pressures in excess of nominal set pressure	Y			
Part 9	Compliance with nuisance and odor regulations [1-301, 7-301, 7-302]	Y			

This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

Table IV – BB.21A Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	EXEMPT		
Rule 5			
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8,	Storage of Organic Liquids (06/05/03)		
Rule 5	EXEMPT		
8-5-117	Exemption, Low Vapor Pressure	Y	
40 CFR 63,	SOCMI HON G (12/21/06)		
Subpart G	REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		
	ble will be subject to the provisions of 40 CFR 63.646 and the referenced re		
	pliance with 40 CFR 63.660 and the referenced requirements contained in	40 CFR 63, sub	part WW
	specified in 40 CFR 63.640(h), 63.660, and 63.1063.	1	
63.119(a)(3)	Storage Vessel Provisions – Reference Control Technology – Group 2	Y	
	storage vessels comply only with recordkeeping requirements in		
	63.123(a)		
63.123(a)	Storage Vessel Provisions – Recordkeeping – Group 2 storage vessels	Y	
	only required to keep tank dimensions and capacity analysis. Retain		
40 CED (2	for life of source.		
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for		
Subpart CC	Petroleum Refining (11/26/18)		
TPI (1 1 d1 (1	REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		40 CED 62
	ble will be subject to the provisions of 40 CFR 63.646 and the referenced re		
	pliance with 40 CFR 63.660 and the referenced requirements contained in specified in 40 CFR 63.640(h), 63.660, and 63.1063.	40 CFK 65, Sut	part w w
	Applicability and Designation of Storage Vessels	Y	
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
	storage vessels – Keep records specified in 63.123		
63.655(i)(1)(iv)	Reporting and Recordkeeping Requirements-Recordkeeping for	Y	
	storage vessels – Data and assumptions used to determine Group 2		
	classification		

IV. Source Specific Applicable Requirements

Table IV – BB.21A Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.655(i)(1)(vi)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements-RecordkeepingRecord retention – 5 years	Y	
BAAQMD Condition 20773			
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	

2. Sources S108, S109, and S127 currently contain low vapor pressure liquids, are exempt from BAAQMD permitting requirements, and fall under the MACT Group II requirements for recordkeeping. However, these tanks may be operated as MACT Group I tanks in the future. Table B21A shows the appropriate applicability for these tanks as MACT Group II tanks. Table B21B shows the appropriate applicability for these tanks as MACT Group I tanks including the BAAQMD Regulation 8, Rule 5 requirements for zero-gap secondary seals.

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Federally Future Enforce-Applicable Regulation Title or able Effective Requirement **Description of Requirement** (Y/N)**Date** Organic Compounds, Storage of Organic Liquids (10/18/06) **BAAQMD** Regulation 8, REQUIREMENTS FOR EXTERNAL FLOATING ROOF Rule 5 **TANKS** 8-5-111 Limited Exemption, Tank Removal From and Return to Service N 8-5-111.1 Limited Exemption, Tank Removal From and Return to Service, N 8-5-111.2 Limited Exemption, Tank Removal From and Return to Service; N Tank in compliance at time of notification

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

Applicable	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service;	N	
0.7.111.7	Filling, emptying, refilling floating roof tanks		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	N	
	Minimize emissions and, if required, degas per 8-5-328		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	N	
	Self report if out of compliance during exemption period		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation		
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Notification		
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Tank in compliance at time of notification		
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; No product movement, Minimize emissions		
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Not to exceed 7 days		
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Self report if out of compliance during		
	exemption period		
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of	N	
	Tanks in Operation; Keep records for each exemption		
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring	N	
	Program		
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal	Y	
	(8-5-322)		
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas	N	
0 2 30 1.0.1	tight if leaking	11	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all	N	
0-3-304.0.2	leaks at next removal from service	11	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid	N	
	surface	IN	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells	N	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellsprojection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wellscover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells total secondary seal gap must include well gap	Y	
8-5-320.6	Floating Roof Tank Fitting Requirements; emergency roof drains must be 90% covered	N	
8-5-321	Primary seal requirements	N	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary seal requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary seal requirements; Metallic-shoe-type seal requirements - geometry of shoe	N	
8-5-321.3.2	Primary seal requirements; Metallic-shoe-type seal requirements - welded tanks gap requirements	N	
8-5-322	Secondary seal requirements	N	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	N	
8-5-322.2	Secondary seal requirements; Insertion of probes	N	
8-5-322.5	Secondary seal requirements; Gap requirements for welded external floating roof tanks with seal installed after September 4, 1985	N	
8-5-322.6	Secondary seal requirements; extent of seal	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

	S100 (TANK 133), S107 (TANK 134), S127 (TANK 17	Federally	
		Enforce-	Future
Applicable	Regulation Title or	able	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating	N	
	enhanced monitoring program		
8-5-411.3	Enhanced Monitoring Program (Optional); Performance	N	
	requirements		
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP-	N	
	Retain 24 months		
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal	N	
	Replacement Records- Retain 10 years		
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations;	N	
	EPA method 21 Instruments		
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations;	N	
	Method 21 and tank degassing residual organic concentration		
	measurement method		
SIP Regulation 8,	Organic Compounds, Storage of Organic Liquids (06/05/03)		
Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notification		
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notification, 3 day prior notification		
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notification, Telephone notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank	Y	
	in compliance prior to notification		
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Floating roof tanks		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Minimize emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Notice of completion not required		
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service,	Y	
	Satisfy requirements of 8-5-328		
0 = 110	TO THE CONTRACTOR	3.7	1
8-5-112 8-5-112.1	Limited Exemption, Tanks in Operation Limited Exemption, Tanks in Operation, Notification	Y Y	

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

Applicable	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior	Y	
8-5-112.1.2	notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone	Y	
8-5-112.2	notification Limited Exemption, Tanks in Operation, Tank in compliance prior to	Y	
8-3-112.2	start of work. Certified per 8-5-404	ĭ	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement,	Y	
8-3-112.3		Y	
0.5.112.4	Minimize emissions	V	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external	Y	
0.5.204	floating roof, or approved emission control system)	37	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well	Y	
	requirements in floating roof tanks		
8-5-320.6	Tank Fitting Requirements; Emergency roof drain	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements- welded tanks	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks	Y	
	with seals installed after 9/4/1985 or welded internal floating roof		
0.5.222.6	tanks with seals installed after 2/1/1993	37	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters,	Y	
	Concentration of <10,000 ppm as methane after degassing		
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank	Y	Date
0-3-401.2	Fittings Inspections	1	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP -	Y	
0-3-301.1	Retain 24 months	1	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal	Y	
	Replacement Records - Retain 10 years	1	
8-5-503	Portable Hydrocarbon Detector	Y	
40 CFR 63,	SOCMI HON G (12/21/06)	-	
Subpart G	REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
	ble will be subject to the provisions of 40 CFR 63.646 and the referenced		
	compliance with 40 CFR 63.660 and the referenced requirements contain	ned in 40 CFR	63, subpart
	ed, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.119(a)	Storage Vessel Provisions Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions Reference Control Technology	Y	
	Group 1, TVP < 76.6 kPa		
63.119(c)	Storage Vessel Provisions Reference Control Technology	Y	
(2.110(.)(1)	External floating roof	37	
63.119(c)(1)	Storage Vessel Provisions Reference Control Technology External floating roof seals	Y	
63.119(c)(1)(i)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof double seals required	1	
63.119(c)(1)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof primary seal requirements – metallic shoe or		
	liquid-mounted		
63.119(c)(1)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof seal requirements		
63.119(c)(3)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roofMust float on liquid		
63.119(c)(3)(i)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof Must float on liquid except during initial		
	fill		
63.119(c)(3)(ii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof Must float on liquid except after		
	completely emptied and degassed		
63.119(c)(3)(iii)	Storage Vessel Provisions Reference Control Technology	Y	
	External floating roof Must float on liquid except when		
	completely emptied before refilling		

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
63.119(c)(4)	Storage Vessel Provisions Reference Control Technology External Floating Roof Operations, when not floating	Y	
63.120(b)	Storage Vessel Provisions Procedures to Determine Compliance- -Compliance DemonstrationExternal floating roof	Y	
63.120(b)(1)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR seal gap measurement	Y	
63.120(b)(1)(i)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR with double seals - primary seal gap measurement – 5 year intervals	Y	
63.120(b)(1)(iii)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR with double seals - secondary seal gap measurement annual requirement	Y	
63.120(b)(1)(iv)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR seal inspections prior to tank refill with organic HAP after not storing organic HAP for 1 year or longer	Y	
63.120(b)(2)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR seal gap determination methods	Y	
63.120(b)(2)(i)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR seal gap determination methods – roof not resting on legs	Y	
63.120(b)(2)(ii)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR seal gap determination methods – measure gaps around entire circumference of seal and measure width and length of gaps	Y	
63.120(b)(2)(iii)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR seal gap determination methods – determine total surface area of each gap	Y	
63.120(b)(3)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR primary seal gap calculation method – total surface area of primary seal gaps <= 212 cm2 per meter of vessel diameter. Maximum width <= 3.81 cm	Y	
63.120(b)(4)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR secondary seal gap calculation method – total surface area of secondary seal gaps <= 21.2 cm2 per meter of vessel diameter. Maximum width <= 1.27 cm	Y	
63.120(b)(5)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR primary seal additional requirements	Y	
63.120(b)(5)(i)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR primary seal additional requirements – metallic shoe seal – shoe geometry	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
63.120(b)(5)(ii)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR primary seal additional requirements – no holes, tears, or openings	Y	
63.120(b)(6)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR secondary seal requirements	Y	
63.120(b)(6)(i)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR secondary seal requirements – location and extent	Y	
63.120(b)(6)(ii)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR secondary seal requirements - no holes, tears or openings	Y	
63.120(b)(7)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR unsafe to perform seal measurements or inspect the tank	Y	
63.120(b)(7)(i)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR unsafe to perform seal measurements or inspect the tank – complete measurements or inspection within 30 days after determining roof is unsafe or comply with 63.120(b)(7)(ii)	Y	
63.120(b)(7)(ii)	Storage Vessel Provisions Procedures to Determine Compliance-External FR unsafe to perform seal measurements or inspect the tank – empty and remove vessel from service within 45 days after determining roof is unsafe or comply with 63.120(b)(7)(i). Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented.	Y	
63.120(b)(8)	Storage Vessel Provisions Procedures to Determine Compliance External FR Repairs must be made within 45 days after identification or empty and remove tank from service. Two 30 day extensions are allowed to empty the tank. Decision to use extension must be documented.	Y	
63.120(b)(9)	Storage Vessel Provisions Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
63.120(b)(10)	Storage Vessel Provisions Procedures to Determine Compliance- -External FR and seals visual inspection each time emptied	Y	
63.120(b)(10)(i)	Storage Vessel Provisions Procedures to Determine ComplianceExternal FR and seal visual inspection each time emptied – Repair defects before refilling [does not apply to gaskets, slotted membranes, or sleeve seals for Group 1 Refinery MACT tanks per 63.646(e)]	Y	
63.120(b)(10)(ii)	Storage Vessel Provisions Procedures to Determine Compliance External FR and seal visual inspection each time emptied 30 day notification	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Applicable	Regulation Title or	Federally Enforce- able	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
63.120(b)(10)(iii)	Storage Vessel Provisions Procedures to Determine Compliance-	Y	Date
03.120(0)(10)(11)	- External FR and seal visual inspection each time emptied —	1	
	Notification for unplanned		
63.123(a)	Storage Vessel Provisions RecordkeepingGroup 1 and Group 2	Y	
03.123(u)	storage vessel dimensions and capacity. Keep for life of source.	1	
63.123(d)	Storage Vessel Provisions RecordkeepingGroup 1 External	Y	
. ,	floating roof tank requirements - records of seal gap measurements		
	(date, raw data, and required calculations)		
63.123(g)	Storage Vessel Provisions Recordkeeping, Extensions for	Y	
	emptying storage vessel – keep documentation specified		
40 CFR 63, Subpart	National Emission Standards for Hazardous Air Pollutants for		
CC	Petroleum Refineries (11/26/18)		
	REQUIREMENTS FOR EXTERNAL FLOATING ROOF		
	TANKS		
	e will be subject to the provisions of 40 CFR 63.646 and the referenced		
	mpliance with 40 CFR 63.660 and the referenced requirements contain	ed in 40 CFR 6	3, subpart
WW is demonstrated,	as specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(h)	Compliance by dates specified in Table 11, except as provided in	Y	
	paragraphs (h)(1) through (h)(3)		
63.646	Upon demonstration of compliance with the standards in 63.660 by	Y	
	the compliance dates specified in 63.640(h), the standards in this		
	section shall no longer apply.		
63.646(a)	Storage Vessel Provisions-Group 1	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for	Y	
	group determination		
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.646(c)	Storage Vessel Provisions—63 Subpart G exclusions for storage	Y	
	vessels [EFRs exempt from 63.119(c)(2)]		
63.646(d)	Storage Vessel Provisions-References	Y	
63.646(d)(2)	Storage Vessel Provisions-References to April 22,1994	Y	
63.646(d)(3)	Storage Vessel Provisions-References to December 31, 1992	Y	
63.646(d)(4)	Storage Vessel Provisions-References to compliance dates in	Y	
	63.100 of Subpart F		
63.646(e)	Storage Vessel Provisions—Exceptions for compliance with	Y	
	inspection requirements of 63.120 of Subpart G – Not required to		
	comply with provisions for gaskets, slotted membranes, and sleeve		
	seals.		
63.646(f)	Storage Vessel Provisions-Group 1 floating roof requirements	Y	
63.646(f)(1)	Storage Vessel Provisions—Group 1 floating roof requirements-	Y	
	Covers or lids closed except when in use		

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
63.646(f)(2)	Storage Vessel Provisions-Group 1 floating roof requirements-Rim space vents requirements	Y	
63.646(f)(3)	Storage Vessel Provisions-Group 1 floating roof requirements- Automatic bleeder vents requirements	Y	
63.646(l)	Storage Vessel Provisions-State or local permitting agency notification requirements	Y	
63.655(f)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements	Y	
63.655(f)(1)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements	Y	
63.655(f)(1)(i)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reportingstorage vessels	Y	
63.655(f)(1)(i)(A)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reportingstorage vessels	Y	
63.655(f)(1)(i)(A) (1)	Reporting and Recordkeeping Requirements-Notice of compliance status report requirements-Reportingstorage vessels	Y	
63.655(g)	Periodic Reporting and Recordkeeping Requirements	Y	
63.655(g)(1)	Periodic Reporting and Recordkeeping Requirements-storage vessels [Information related to gaskets, slotted membranes, and sleeve seals not required for storage vessels that are part of existing source]	Y	
63.655(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs	Y	
63.655(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs-document results of each seal gap measurement	Y	
63.655(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – extension documentation	Y	
63.655(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures	Y	
63.655(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements-storage vessels with external floating roofs – documentation of failures	Y	
63.655(h)(2)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections.	Y	
63.655(h)(2)(i)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections – refilling Group 1 storage vessel.	Y	
63.655(h)(2)(ii)	Reporting and Recordkeeping Requirements-Other reports-Storage vessel notification of inspections –Group 1 storage vessel seal gap measurements – 30 day notification [can be waived or modified by state or local].	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.21B Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING (NOTE 2) BUT WITH GROUP I MACT FLEXIBILITY

S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforce- able (Y/N)	Future Effective Date
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – keep records specified in 63.123 (Subpart G)	Y	
63.655(i)(1)(i)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels— keep records specified in 63.123 (Subpart G) except records related to gaskets, slotted membranes, and sleeve seals for vessels in existing sources. Each owner or operator subject to the storage vessel provisions in 63.660 shall keep records as specified in paragraphs (i)(1)(v) and (vi).	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels-Record retention – 5 years	Y	
63.660	Storage vessel provisions. Group 1 storage vessel shall comply with the requirements in 40 CFR 63, subpart WW according to the requirements of 63.660(a) through (i).	Y	
63.660(a)	Determination of stored liquid HAP content	Y	
63.660(b)	Floating Roof Storage Vessel Requirements	Y	
63.660(c)	References	Y	
63.660(d)	Group 1 Storage Vessel Requirements	Y	
63.660(e)	Violations	Y	
63.660(g)	Notification of Compliance Status	Y	
63.660(h)	Periodic Reporting	Y	
63.660(i)	Requirements for electing to comply with subpart SS	Y	

2. Sources S108, S109, and S127 currently contain low vapor pressure liquids, are exempt from BAAQMD permitting requirements, and fall under the MACT Group II requirements for recordkeeping. However, these tanks may be operated as MACT Group I tanks in the future. Table B21A shows the appropriate applicability for these tanks as MACT Group II tanks. Table B21B shows the appropriate applicability for these tanks as MACT Group I tanks including the BAAQMD Regulation 8, Rule 5 requirements for zero-gap secondary seals.

IV. Source Specific Applicable Requirements

Table IV – BB.22 Source-Specific Applicable Requirements NSPS K EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING S90 (TANK 67), S105 (TANK 129)

	S90 (TANK 67), S105 (TANK 129)		Futuro
Applicable	Dogulotion Title on	Federally	Future
Requirement	Regulation Title or	Enforceable	Effective
BAAQMD	Description of Requirement Organic Compounds, Storage of Organic Liquids (10/18/06)	(Y/N)	Date
Regulation 8,	EXEMPT		
Rule 5	EAEWH 1		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8,	Storage of Organic Liquids (06/05/03)	- 1,	
Rule 5	EXEMPT		
8-5-117	Exemption, Low Vapor Pressure	Y	
40 CFR 60,	Standards of Performance for Storage Vessels for Volatile Organic		
Subpart K	Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (10/17/2000)		
60.110(a)	Applicability and Designation of Affected Facility; Affected facility	Y	
60.110(c)(2)	Applicability and Designation of Affected Facility>65,000 gal after 6/11/1973 and before 5/19/1978.	Y	
40 CFR 63,	SOCMI HON G (12/21/06)		
Subpart G	REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		
subpart G until comp	le will be subject to the provisions of 40 CFR 63.646 and the referenced repliance with 40 CFR 63.660 and the referenced requirements contained in specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.119(a)(3)	Storage Vessel Provisions – Reference Control Technology – Group 2 storage vessels comply only with recordkeeping requirements in 63.123(a)	Y	
63.123(a)	Storage Vessel Provisions – Recordkeeping – Group 2 storage vessels only required to keep tank dimensions and capacity analysis. Retain for life of source.	Y	
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (11/26/18) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		
subpart G until com	le will be subject to the provisions of 40 CFR 63.646 and the referenced repliance with 40 CFR 63.660 and the referenced requirements contained in specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(n)	Applicability and Designation of Affected Source Overlap for Storage Vessels	Y	
63.640(n)(7)	Applicability and Designation of Affected Source Overlap for Storage Vessels—Group 2 storage vessel subject to NSPS, Subparts K or Ka but exempt from control requirements of NSPS, Subparts K or Ka is required to comply only with 63 Subpart CC	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.22 Source-Specific Applicable Requirements NSPS K EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING S90 (TANK 67), S105 (TANK 129)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Keep records specified in 63.123	Y	
63.655(i)(1) (iv)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification	Y	
63.655(i)(1) (vi)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements-RecordkeepingRecord retention – 5 years	Y	
BAAQMD Condition 20773			
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	

Table IV – BB.23 Source-Specific Applicable Requirements EXEMPT BUTANE SPHERES

S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006) REQUIREMENTS FOR PRESSURE TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	N	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying tanks so equipped	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	

IV. Source Specific Applicable Requirements

Table IV – BB.23 Source-Specific Applicable Requirements EXEMPT BUTANE SPHERES

S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

	6 (1ANK 300), \$189 (1ANK 301), \$190 (1ANK 302), \$253 (,	Future
Applicable	D. 1.4. (7)4	Federally	
Requirement	Regulation Title or	Enforceable	Effective
	Description of Requirement	(Y/N)	Date
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks	N	
0.5.110.1	in Operation	N.T.	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks	N	
0.5.110.0	in Operation; Notification	3.7	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks	N	
0.5.110.0	in Operation; Tank in compliance at time of notification	N.T.	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks	N	
0.5.110.4	in Operation; No product movement, Minimize emissions	3.7	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks	N	
0.7.110.7	in Operation; Not to exceed 7 days		
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks	N	
	in Operation; Self report if out of compliance during exemption period		
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks	N	
	in Operation; Keep records for each exemption		
8-5-119	Limited Exemption, Repair Period for Enhanced Monitoring Program	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement	N	
8-5-307	Requirements for fixed roof tanks, pressure tanks and blanketed tanks	N	
8-5-307.1	Requirements for fixed roof tanks, pressure tanks and blanketed tanks;	N	
	no liquid leakage through shell		
8-5-307.2	Requirements for fixed roof tanks, pressure tanks and blanketed tanks;	N	
	Pressure tank working pressure		
8-5-307.3	Requirements for fixed roof tanks, pressure tanks and blanketed tanks;	N	
	Pressure tanks and blanketed tanks PRD requirements		
8-5-328	Tank degassing requirements	N	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank degassing requirements; BAAQMD notification required	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test	N	
	Reports		
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks	N	
0 0 11111	selected for enhanced monitoring program	1,	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating	N	
	enhanced monitoring program		
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amount of liquid, type of blanket gas, TVP- Retain	N	
0 3 301.1	24 monhts		
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
0-3-301.4	Necords, they pressure vacuum varve serpoints	1N	

IV. Source Specific Applicable Requirements

Table IV – BB.23 Source-Specific Applicable Requirements EXEMPT BUTANE SPHERES

S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

5100 ((TANK 500), 5109 (TANK 501), 5190 (TANK 502), 5255 (1		F /
Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-5-602	Analysis of Samples, True Vapor Pressure	Y	Date
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations;	N	
8-3-003.1	EPA method 21 Instruments	11	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations;	N	
0 3 003.2	Method 21 and tank degassing residual organic concentration	11	
	measurement method		
SIP Regulation 8,	Organic Compounds, Storage of Organic Liquids (06/05/03)		
Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO; 3 day prior notification		
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Notice to the APCO; Telephone notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Compliance before notification		
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use	Y	
	of vapor recovery		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Minimization of emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	Y	
	Written notice of completion not required		
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-3-112.1	Elimited Exemption, Tanks in Operation, Notice to the AFCO	1	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day	Y	
	prior notification		
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO;	Y	
0.7.110.0	Telephone notification		
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement;	Y	
0 0 112.0	minimization of emissions		
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7	Y	
	days		
8-5-301	Storage Tank Control Requirements (internal floating roof, external	Y	
	floating roof, or approved emission control system)		
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.23 Source-Specific Applicable Requirements EXEMPT BUTANE SPHERES

S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, operation, and gas tight requirements	Y	
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Relief Devices	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; blanket gas; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
40 CFR 60, Subpart Kb	Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/2003) EXEMPTION FOR PRESSURE TANKS (applies to S188 only)		
60.110b(d)(2)	Exemption for pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere.	Y	
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (11/26/18) EXEMPTION FOR TANKS VENTED TO FUEL GAS SYSTEM		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(d)(5)	Exemption for emission points routed to fuel gas system	Y	

Table IV – BB.24 Source-Specific Applicable Requirements OLD MACT TANK < 5,000 GALLONS S507 (TANK 21, FPLH RECOVERY TANK)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	REQUIREMENTS FOR FIXED ROOF TANKS		
Rule 5			
8-5-301	Storage Tank Control Requirements (internal floating roof, external	N	
	floating roof, or approved emission control system)		

IV. Source Specific Applicable Requirements

Table IV – BB.24 Source-Specific Applicable Requirements OLD MACT TANK < 5,000 GALLONS S507 (TANK 21, FPLH RECOVERY TANK)

Requirement Do	Regulation Title or Description of Requirement Requirements for Pressure Vacuum Valves Requirements for Pressure Vacuum Valves; Set pressure	Federally Enforceable (Y/N)	Effective
Requirement Do	Description of Requirement Requirements for Pressure Vacuum Valves		
8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re 8-5-303.2 Re 8-5-403 In 8-5-501 Re 8-5-501.1 Re 8-5-501.3 Re 8-5-501.4 Er va 8-5-602 Ar 8-5-604 Do 8-5-605 Mr SIP Or Regulation 8, Rule 5 8-5-301 St fic 8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re 8-5-403 In	Requirements for Pressure Vacuum Valves		Date
8-5-303.1 Re 8-5-303.2 Re mi 8-5-403 In 8-5-501 Re 8-5-501.1 Re 8-5-501.3 Re 8-5-501.4 En 8-5-501.4 Er va 8-5-602 An 8-5-604 Do 8-5-605 M SIP Regulation 8, Rule 5 8-5-301 St flo 8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re 8-5-403 In	*	N	
8-5-303.2 Re mi 8-5-403 In 8-5-501 Re 8-5-501.1 Re mi 8-5-501.1 Re mi 8-5-501.3 Re 8-5-501.4 Er va 8-5-602 An 8-5-604 De 8-5-605 M SIP Or Regulation 8, Rule 5 8-5-301 St fid 8-5-303.1 Re 8-5-303.2 Re 8-5-303.2 Re 8-5-403 In	1 1	N	
8-5-403 In 8-5-501 Re 8-5-501.1 Re 8-5-501.1 Re 8-5-501.3 Re 8-5-501.4 En va 8-5-602 An 8-5-604 De 8-5-605 M 8-5-605 M SIP O Regulation 8, Rule 5 8-5-301 St flo 8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re 8-5-403 In	Requirements for Pressure Vacuum Valves; Installation,	N	
8-5-501 Re 8-5-501.1 Re 8-5-501.1 Re 8-5-501.3 Re 8-5-501.4 En va 8-5-602 An 8-5-604 De 8-5-605 M 8-5-605 M Regulation 8, Rule 5 8-5-301 St flo 8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re 8-5-403 In	naintenance, operation		
8-5-501.1 Re month materials and month materials are month materials as a second materials are month materials are month materials as a second materials are month materials are month materials as a second materials are month materials	nspection Requirements for Pressure Relief Devices	N	
mm 8-5-501.3 Re 8-5-501.4 Enva 8-5-602 An 8-5-604 Do 8-5-605 M SIP Oo Regulation 8, Rule 5 Store for the store of the st	Records	N	
8-5-501.3 Re 8-5-501.4 Er va 8-5-602 Ar 8-5-604 De 8-5-605 M SIP Or Regulation 8, Rule 5 8-5-301 St 6-5-303 Re 8-5-303.1 Re 8-5-303.2 Re 8-5-403 In	Records; Type and amounts of liquid; true vapor pressure; Retain 24	N	
8-5-501.4 Er va 8-5-602 Ar 8-5-604 Do 8-5-605 Mr SIP Or Regulation 8, Rule 5 8-5-301 St flo 8-5-303 Ref 8-5-303.1 Ref 8-5-303.2 Ref mr 8-5-403 In	nonths		
Va 8-5-602 An	Records retained for 24 months	N	
8-5-604 De 8-5-605 M SIP Or Regulation 8, Rule 5 St-5-301 St flo 8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re 8-5-403 In	Engineering data sheets showing setpoints for pressure vacuum valves installed after 6/1/07	N	
8-5-605 M SIP Or Regulation 8, Rule 5 8-5-301 St flo 8-5-303.1 Ro 8-5-303.2 Ro m: 8-5-403 In	Analysis of Samples, True Vapor Pressure	N	
8-5-605 M SIP Or Regulation 8, Rule 5 8-5-301 St flo 8-5-303.1 Ro 8-5-303.2 Ro m: 8-5-403 In	Determination of Applicability Based on True Vapor Pressure	N	
Regulation 8, Rule 5 8-5-301 St 8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re m 8-5-403 In	Measurement of Leak Concentrations and Residual Concentrations	N	
Regulation 8, Rule 5 8-5-301 St 8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re m 8-5-403 In	Organic Compounds, Storage of Organic Liquids (6/5/03)		
8-5-301 St flo 8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re mm 8-5-403 In			
flo 8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re m: 8-5-403 In			
8-5-303 Re 8-5-303.1 Re 8-5-303.2 Re m: 8-5-403 In	Storage Tank Control Requirements (internal floating roof, external	Y	
8-5-303.1 Re 8-5-303.2 Re m: 8-5-403 In	loating roof, or approved emission control system)		
8-5-303.2 Re m: 8-5-403 In	Requirements for Pressure Vacuum Valves	Y	
8-5-403 In	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-403 In	Requirements for Pressure Vacuum Valves; Installation,	Y	
	naintenance, operation		
	nspection Requirements for Pressure Vacuum Valves	Y	
	Records	Y	
	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503 Po	Portable hydrocarbon detector	Y	
8-5-602 Aı	Analysis of Samples, True Vapor Pressure	Y	
8-5-604 De	Determination of Applicability	Y	
8-5-605 Pr	Pressure Vacuum Valve Gas Tight Determination	Y	
Subpart EEEE O	National Emission Standards for Hazardous Air Pollutants Organic Liquids Distribution (2/3/2004) EXEMPTION FOR TANKS < 5,000 gal.		
40 CFR 63.2334(a) At	Affected sources.	Y	
	Exemption for sources not requiring control. Exempt from any other	Y	
	otification, recordkeeping, or reporting sections in Subpart EEEE.		
7 7	Exemption from control requirements for tanks with capacity < 5,000 gallons. Documentation of capacity required.	Y	
BAAQMD Condition	_ A v A		
24532			
Part 1 M	Material stored TVP < 11 psia. [cumulative increase, offsets, 8-5-101]	Y	
	Requirement for pressure vacuum valve. [8-5-303.1]	Y	

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

Table IV – BB.24 Source-Specific Applicable Requirements OLD MACT TANK < 5,000 GALLONS S507 (TANK 21, FPLH RECOVERY TANK)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Throughput less than 9,883 gallons in any 12 consecutive months.	Y	
	[cumulative increase, offsets]		
Part 4	POC emission less than 218 pounds in any 12 consecutive months. [cumulative increase, offsets]	Y	
Part 5	Retain records of monthly throughput. [Cumulative increase, recordkeeping]	Y	

Table IV – BB.25 Source-Specific Applicable Requirements NSPS KB EXEMPT FIXED ROOF WASTEWATER TANKS VENTED TO FUEL GAS TANK 235, TANK 236

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/04/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	Y^1	
1-523.3	Reports of Violations	Y^1	
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	EXEMPT		
Rule 5			
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/03) EXEMPT		
8-5-117	Exemption, Low Vapor Pressure	Y	
40 CFR 60, Subpart	Standards of Performance for Storage Vessels for Volatile		
Kb	Organic Liquid Storage Vessels for Which Construction,		
	Reconstruction, or Modification Commenced After July 23, 1984		
	(10/15/2003) REQUIREMENTS FOR RECORDKEEPING ONLY		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

Table IV – BB.25 Source-Specific Applicable Requirements NSPS KB EXEMPT FIXED ROOF WASTEWATER TANKS VENTED TO FUEL GAS TANK 235, TANK 236

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.110b(c)	Applicability and Designation of Affected Facility; Exemptions for storage vessels > or = to 75 cu m	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(e)	Monitoring of Operations; Determine TVP	Y	
60.116b(e)(3)	Monitoring of Operations; Determine TVP-other liquids	Y	
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
60.116b(g)	Monitoring of Operations; Exemption from 60.116b(c) and 60.116b(d) for tanks with closed vent system and control device	Y	
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refining (11/26/18) REQUIREMENTS FOR EMISSION POINTS ROUTED TO FUEL GAS		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(d)(5)	Exemption for emission points routed to fuel gas system	Y	
BAAQMD Condition 20773			
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	
BAAQMD Condition 23724			
Part 1a	Requirement for abatement by A7, Odor Abatement System [2-1-403]	Y	
Part 2	Requirement for utility-grade natural gas blanket [2-1-403]	Y	
Part 3	Requirement for pressure monitoring device for S137 by 7/5/09. [2-1-403]	Y	
Part 4	After pressure monitoring devices are installed, requirement to operate below tank set pressure [2-1-403]	Y	
Part 4b	Tank pressures for other tanks [2-1-403]	Y	
Part 5	Pressure relief valve setting at or above nominal set pressure	Y	
Part 6	Corrective Plan	Y	
Part 7	Pressure monitoring records [2-1-403]	Y	
Part 8	Initial date for reporting pressures in excess of nominal set pressure	Y	
Part 9	Compliance with nuisance and odor regulations [1-301, 7-301, 7-302]	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.26 Source-Specific Applicable Requirements NSPS KB EXEMPT FIXED ROOF WASTEWATER TANK TANK 237

1ANK 237			
A 12 1. 1		Federally	Future
Applicable Paguirement	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/06)		
Regulation 8,	EXEMPT		
Rule 5			
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (6/05/03) EXEMPT		
8-5-117	Exemption, Low Vapor Pressure	Y	
40 CFR 60, Subpart	Standards of Performance for Storage Vessels for Volatile		
Kb	Organic Liquid Storage Vessels for Which Construction,		
	Reconstruction, or Modification Commenced After July 23, 1984 (10/15/2003)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for	Y	
	low vapor pressure; NSPS Kb does not apply to vessels with capacity		
	> 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu		
	m and <= 151 cu m and TVP < 15.0 kPa		
40 CFR 60, Subpart	Standards of Performance for VOC Emissions from Petroleum		
QQQ	Refinery Wastewater Systems (10/17/2000)		
	REQUIREMENTS FOR FIXED ROOF TANKS NOT ROUTED TO FUEL GAS		
60.690(a)(1)	Applicability and Designation of Affected Facility	Y	
60.690(a)(3)	Applicability and Designation of Affected Facility	Y	
60.692-1	Standards: General	Y	
60.692-1(a)	Standards: General	Y	
60.692-1(b)	Standards: General	Y	
60.692-3	Standards: Oil-Water Separators (includes storage vessels)	Y	
60.692-3(a)	Standards: Oil-Water Separators (includes storage vessels)	Y	
60.692-3(a)(1)	Standards: Oil-Water Separators (includes storage vessels)	Y	
60.692-3(a)(2)	Standards: Oil-Water Separators (includes storage vessels)	Y	
60.692-3(a)(3)	Standards: Oil-Water Separators (includes storage vessels)	Y	
60.692-3(a)(4)	Standards: Oil-Water Separators (includes storage vessels)	Y	
60.692-3(a)(5)	Standards: Oil-Water Separators (includes storage vessels)	Y	
60.692-3(f)	Standards: Oil-Water Separators (includes storage vessels)	Y	
60.692-6	Standards: Delay of Repair	Y	
60.692-6(a)	Standards: Delay of Repair	Y	
60.692-6(b)	Standards: Delay of Repair	Y	
60.697	Recordkeeping Requirements	Y	
60.697(a)	Recordkeeping Requirements	Y	
60.697(c)	Recordkeeping Requirements	Y	
60.697(e)(1)	Recordkeeping Requirements	Y	
60.697(e)(2)	Recordkeeping Requirements	Y	

Reopening Revision Date: October 27, 2022

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – BB.26 Source-Specific Applicable Requirements NSPS KB EXEMPT FIXED ROOF WASTEWATER TANK TANK 237

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.697(e)(3)	Recordkeeping Requirements	Y	
60.697(e)(4)	Recordkeeping Requirements	Y	
60.697(f)(1)	Recordkeeping Requirements	Y	
60.697(f)(2)	Recordkeeping Requirements	Y	
60.698(c)	Reporting Requirements	Y	
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Pollutants for Petroleum Refining (11/26/18) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		
subpart G until compli	will be subject to the provisions of 40 CFR 63.646 and the referenced retains with 40 CFR 63.660 and the referenced requirements contained in ecified in 40 CFR 63.640(h), 63.660, and 63.1063.	40 CFR 63, sub	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Keep records specified in 40 CFR 63.123	Y	
63.655(i)(1)(iv)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification	Y	
63.655(i)(1)(vi)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements-RecordkeepingRecord retention – 5 years	Y	
BAAQMD Condition 20773			
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	

IV. Source Specific Applicable Requirements

Table IV – BB.27 Source-Specific Applicable Requirements NSPS KB EXEMPT FIXED ROOF TANK TANK 224

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06) EXEMPT		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (6/5/03) EXEMPT		
8-5-117	Exemption, Low Vapor Pressure	Y	
40 CFR 60, Subpart Kb	Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/2003)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa	Y	
40 CFR 63,	National Emission Standards for Hazardous Air Pollutants for		
Subpart CC	Petroleum Refining (11/26/18) REQUIREMENTS FOR GROUP 2 RECORDKEEPING ONLY		
subpart G until con	ble will be subject to the provisions of 40 CFR 63.646 and the referenced repliance with 40 CFR 63.660 and the referenced requirements contained in specified in 40 CFR 63.640(h), 63.660, and 63.1063.		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(b)(1)	Storage Vessel Provisions-Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions-Determine stored liquid % OHAP	Y	
63.655(h)(6)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(h)(6)(ii)	Reporting and Recordkeeping Requirements-Other reports- Determination of Applicability	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Keep records specified in 40 CFR 63.123	Y	
63.655(i)(1)(iv)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification	Y	
63.655(i)(1)(vi)	Reporting and Recordkeeping Requirements-Recordkeeping for storage vessels – Data and assumptions used to determine Group 2 classification	Y	
63.655(i)(6)	Reporting and Recordkeeping Requirements-RecordkeepingRecord retention – 5 years	Y	
BAAQMD Condition 20773			

IV. Source Specific Applicable Requirements

Table IV – BB.27 Source-Specific Applicable Requirements NSPS KB EXEMPT FIXED ROOF TANK TANK 224

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Requirement to verify exempt status of tank based on true vapor	Y	
	pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]		
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	

Table IV – BB.28 Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF WASTEWATER TANK TANK 206

Applicable Requirement BAAQMD Regulation 8,	Regulation Title or Description of Requirement Organic Compounds, Storage of Organic Liquids (10/18/06) EXEMPT	Federally Enforceable (Y/N)	Future Effective Date
Rule 5	EAEWIFI		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/03) EXEMPT		
8-5-117	Exemption, Low Vapor Pressure	Y	
40 CFR 60, Subpart K	Standards of Performance for Storage Vessels for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978 (10/17/2000) EXEMPTION FOR TANKS NOT CONTAINING PETROLEUM LIQUIDS		
60.111(b)	Definitions: Petroleum liquids	Y	
40 CFR 63, Subpart CC	National Emission Standards for Hazardous Pollutants for Petroleum Refining (11/26/18) REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.641	Definitions: Group 1 and Group 2 Wastewater Streams	Y	
63.655(a)	Reporting and Recordkeeping Requirements: Wastewater – no reporting and recordkeeping requirements for wastewater except for Group 1 wastewater streams	Y	
BAAQMD Condition 20773			
Part 1	Requirement to verify exempt status of tank based on true vapor pressure of contents [Basis: Regulation 8-5-117, 2-6-409.2]	Y	

Reopening Revision Date: October 27, 2022

IV. Source Specific Applicable Requirements

Table IV – BB.28 Source-Specific Applicable Requirements EXEMPT EXTERNAL FLOATING ROOF WASTEWATER TANK TANK 206

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Record retention requirement [Basis: Regulation 2-6-409.2]	Y	

Table IV – BB.29 Source-Specific Applicable Requirements S1012 (FIRE TRAINING FLUID TANK)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/06) REQUIREMENTS FOR FIXED ROOF TANKS		
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	N	
8-5-501.3	Records retained for 24 months	N	
8-5-501.4	Engineering data sheets showing setpoints for pressure vacuum valves installed after 6/1/07	N	
8-5-602	Analysis of Samples, True Vapor Pressure	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	N	
8-5-605	Measurement of Leak Concentrations and Residual Concentrations	N	
SIP Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (6/5/03)		
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – BB.29 Source-Specific Applicable Requirements S1012 (FIRE TRAINING FLUID TANK)

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
40 CFR Part 63	National Emission Standards for Hazardous Air Pollutants		
Subpart EEEE	Organic Liquids Distribution (2/3/2004)		
	EXEMPTION FOR TANKS < 5,000 gal.		
40 CFR 63.2334(a)	Affected sources.	Y	
40 CFR 63.2343	Exemption for sources not requiring control. Exempt from any other notification, recordkeeping, or reporting sections in Subpart EEEE.	Y	
40 CFR 63.2343(a)	Exemption from control requirements for tanks with capacity < 5,000 gallons. Documentation of capacity required.	Y	
BAAQMD Condition 26535			
Part 1	Throughput limit of 5000 gallons in any 12 consecutive months. [cumulative increase]	Y	
Part 2	POC emission less than 820 pounds in any 12 consecutive months. [cumulative increase]	Y	
Part 3	Retain records of monthly throughput. [Cumulative increase, Toxics]	Y	

IV. Source Specific Applicable Requirements

Table IV – CC.1 Source-Specific Applicable Requirements S452 (EXEMPT), S453, S455, S457 (EXEMPT), S458 (EXEMPT) , S500 (EXEMPT), COOLING TOWERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Bagulatian 6 Bula 1	Particulate Matter, General Requirements (8/1/18)		
Regulation 6, Rule 1 6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
S453, S458, S500	VISIDIC I diffCICS	11	
ONLY			
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311.1	Total Suspended Particulate (TSP) Weight Limits	N	
S452, S455, S457	Total Suspended Farticulate (151) Weight Ellints	11	
ONLY			
01,21			
6-1-310.2	Total Suspended Particulate (TSP) Concentration Limits	N	
	(-2-)		
6-1-311.2	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-602	Methods of Determining Compliance	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation (Process Weight Rate Limitation)	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Miscellaneous Operations (7/20/05)	Y	
Regulation 8, Rule 2	•		
8-2-114	Exemption, Miscellaneous Plants	Y	
BAAQMD	Hazardous Pollutants, Hexavalent Chromium Emissions from All		
Regulation 11, Rule	Cooling Towers and Total Hydrocarbon Emissions from		
10	Petroleum Refinery Cooling Towers (11/3/21)		
11-10-106	S457 and S458 ONLY: Limited Exemption, Recirculation Rates <	N	
	2,500 gallons per minute		
11-10-304	Total Hydrocarbon Leak Monitoring Requirement	N	
11-10-305	Leak Action Requirements	N	
11-10-401	Petroleum Refinery Cooling Tower Reporting Requirements	N	
11-10-504	Operating Records	N	
BAAQMD			
Condition 22121			
Part 4	Monitoring of dissolved solids (2-6-503, Regulation 3)	Y	
Part 7	Annual reporting of particulate emissions (2-1-319.1, 3)	Y	

IV. Source Specific Applicable Requirements

Table IV – CC.1 Source-Specific Applicable Requirements S452 (EXEMPT), S453, S455, S457 (EXEMPT), S458 (EXEMPT) , S500 (EXEMPT), COOLING TOWERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 8	Records (2-6-501)	Y	

Table IV – CC.2 Source-Specific Applicable Requirements S456, COOLING TOWER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Particulate Matter, General Requirements (8/1/18)		
Regulation 6, Rule 1		2.7	
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311.1	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation (Process Weight Rate Limitation)	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Miscellaneous Operations (7/20/05)	Y	
Regulation 8, Rule 2			
8-2-114	Exemption, Miscellaneous Plants	Y	
BAAQMD Regulation 11, Rule 10	Hazardous Pollutants, Hexavalent Chromium Emissions from All Cooling Towers and Total Hydrocarbon Emissions from Petroleum Refinery Cooling Towers (11/3/21)		
11-10-105	Limited Exemption, Recirculation Rates < 500 gallons per minute	N	
11-10-107	Limited Exemption, Cooling Towers Servicing Hydrogen Production	N	
BAAQMD Condition 22122			

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

IV. Source Specific Applicable Requirements

Table IV – CC.2 Source-Specific Applicable Requirements S456, COOLING TOWER

Part 2	Monitoring of dissolved solids (2-6-503, Regulation 3)	Y	
Part 6	Annual reporting of particulate emissions (Regulation 2-6-501, 3)	Y	
Part 7	Records (2-6-501)	Y	

V. SCHEDULE OF COMPLIANCE

A. STANDARD SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

- B. DELETED APPLICATION 13691
- C. DELETED APPLICATION 18231
- D. DELETED APPLICATION 18231
- E. DELETED APPLICATION 18231

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

CONDITION 383 [Revisions are in accordance with A/C 5814 and 12995.]

CONDITIONS FOR \$350, CRUDE UNIT 267

- 1a. The owner/operator of S350 (Crude Unit 267) shall not process crude oil at S350 with a sulfur content in excess of 1.5 wt %. [Cumulative Increase]
- 1b. The owner/operator shall sample and analyze the crude feed to S350 to determine the sulfur content each time a new tanker shipment or pipeline delivery of crude is introduced into the S350 feed tanks. [Cumulative Increase]
- 2. The owner/operator of S350 shall not exceed an S350 feed rate of 36,000 bbl on any calendar day. The 36,000 bbl/day limit is an absolute limit and may not be corrected for instrument error. [Cumulative Increase]
- 3. The owner/operator of S350 shall maintain daily records of "calendar day" throughput at S350 in a District-approved log. The owner/operator shall also maintain records of all sulfur content analyses required by Part 1b. These records shall be kept for at least five years and shall be made available to the District upon request.

 [Cumulative Increase]

4. The owner/operator shall install water seals (or equivalent controls) on the desalter process drain system for S350 that comply with the requirements of BAAQMD Regulation 8-8-312 prior to increasing the daily throughput to 36,000 bbl/day as allowed by part 2. [Toxics, cumulative increase]

CONDITION 1440

CONDITIONS FOR S324, S381, S382, S383, S384, S385, S386, S387, S390, S392, S400, S401, S1007, S1008, S1009

This condition was amended by Applications 483 in 1988, 10623 in 2005, 13424 in 2007, 13727 in 2009, 21295 in 2010, and 29933 in 2019.

- 1. S324 API Separator shall be operated such that the liquid in the main separator basin is in full contact with the fixed concrete roof. This condition shall not apply during separator shutdown for maintenance or when S-324 is abated by an oxidizer.[Cumulative Increase]
- 2. Diversions of refinery wastewater around the Water Effluent Treating Facility to the open Storm Water Basins (S1008, S1009) shall be minimized. These diversions shall not cause a nuisance as defined in District Regulation 7 or Regulation 1-301. [Cumulative Increase]
- 3. Records shall be maintained of each incident in which refinery wastewater is diverted to the open storm water basins. These records shall include the reason for the diversion, the total quantity of wastewater diverted to the basins, and the approximate hydrocarbon content of the water. [Cumulative Increase]
- 4. The sources below shall conduct monthly leak inspections in accordance with Regulation 8-8-603. After three consecutive inspections with no leaks detected that are not vapor-tight, inspections will be conducted quarterly for that source. If any leak is detected that is not vapor-tight during an inspection, then monthly inspections must be completed until there are three consecutive inspections without any leaks that are not vapor-tight. Any leak found by the owner/operator or BAAQMD that is not vapor-tight must be minimized within 24 hours and repaired within 7 days. Vapor-tight is defined in Regulation 8, Rule 8.
 - a. Doors, hatches, covers, and other openings on the S324 API Separator, forebay, outlet basin, and channel to the S1007 DAF Unit.
 - b. Doors, hatches, covers, and other openings on the S1007 DAF Unit and the S400 Wet and S401 Dry Weather Sumps, except for the vent opening on S-400 and S-401.
 - c. Any open process vessel, distribution box, tank, or other equipment downstream of the S1007 DAF Unit (S381, S382, S383, S384, S385, S386, S387, S390, S392).

 [Cumulative Increase]
- 5. Records shall be kept of each inspection in Part 4 and shall be made available to District personnel upon request. [Cumulative Increase]

- 6. The maximum wastewater throughput at the S324 API Separator and S1007 DAF Unit shall not exceed 7,500 gpm during media filter backwash and 7,000 gpm during all other times for each unit. Any modifications to equipment at this facility that increase the annual average waste water throughput at S324 and S1007 shall first be submitted to the BAAQMD in the form of a permit application. [Cumulative Increase]
- 7. This part will apply after VOC emissions at S1007 must be reduced to provide offsets for Application 13424 per Condition 22970, Part B. The owner/operator shall ensure that S1007, DAF, is controlled by A49, DAF Thermal Oxidizer, A51, DAF Carbon Bed, or A53, Thermal Oxidizer at all times of operation of S1007, except for up to 175 hours per any consecutive 12-month period for startup, shutdown, or maintenance. [Offsets]
 - a. Through source testing as described in Part 7(b) and 7(c), the owner/operator must demonstrate that the total reduction of emissions through use of A49, DAF Thermal Oxidizer and/or A51, DAF Carbon Bed will result in a total reduction of 44 tons POC per year, considering that abatement will not occur with either abatement device up to 175 hours per year. If initial testing does not demonstrate total reduction of 44 tons POC per year, the owner/operator may choose to:
 - i. In the case of A49, DAF Thermal Oxidizer, perform 4 tests in one year and average the results. In this case, the tests will be performed no less than 2 months apart and no more than 4 months apart.
 - ii. In the case of A51, DAF Carbon Bed, average the results of one year's worth of monitoring.
 - If, after further testing, a total of 44 tons worth of POC reduction is not demonstrated, the owner/operator will supply offsets necessary to ensure a total reduction of 44 tons per year POC pursuant to BAAQMD Regulation 2-2-302.

[Offsets, CEQA]

- b. The following conditions apply to operation of A49, DAF Thermal Oxidizer:
 - i. Within 90 days of the startup date of A49, DAF Thermal Oxidizer, the owner/operator shall perform a source test to determine the following:
 - 1. Mass emissions rate for POC that is collected and sent to A49.
 - 2. Mass emissions rate for POC after abatement by A49.
 - 3. Mass emissions rate for H2S that is collected and sent to A49.
 - 4. Mass emissions rate for H2S after abatement by A49.
 - 5. Mass emissions rate for SO2

During the source test, the owner/operator shall determine the temperature required to achieve 98.0% destruction by weight of POC or a concentration of 10 ppmv POC at the outlet. The temperature shall become an enforceable limit.

For the purposes of determining the amount of POC controlled, the owner/operator shall use District Method ST-7, Organic Compounds. The owner/operator shall submit the source test results to the District Source Test Manager, the District

Permit Evaluation Manager, and the District Director of Compliance and Enforcement no later than 60 days after any source test. [Offsets, CEQA]

- ii. After the initial source test required in Part 8 of this condition, the minimum temperature for A49 shall be 1445 degrees F. A49 shall not be operated below the minimum temperature except during an "Allowable Temperature Excursion" as defined below:
 - 1. Operation of A49 within 20°F below the minimum temperature
 - 2. Operation of A49 more than 20°F below the minimum temperature for a period or periods which, when combined are less than or equal to 15 minutes in any hour; or
 - 3. Operation of A49 more than 20°F below the minimum temperature for a period or periods which when combined are more than 15 minutes in any hour, provided that all three of the following criteria are met:
 - a. The excursion does not exceed 50°F below the minimum temperature;
 - b. The duration of the excursion does not exceed 24 hours; and
 - c. The total number of such excursions does not exceed 12 per calendar year (or any consecutive 12 month period).

Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit.

For each such excursion, sufficient records shall be kept to demonstrate that they meet the qualifying criteria described above. Records shall include at least the following information:

- 1. Temperature controller setpoint;
- 2. Starting date and time, and duration of each Allowable Temperature Excursion;
- 3. Measured temperature during each allowable Temperature Excursion;
- 4. Number of Allowable Temperature Excursions per month, and total number for the current calendar year; and
- 5. All strip charts or other temperature records.

[Offsets, CEQA]

iii. To determine compliance with the temperature limit in Part 9, A49, Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the temperature in A49. The temperature device shall be installed and maintained in accordance with the manufacturer's recommendations, shall be ranged appropriately to measure the temperature limit determined, and shall_have a minimum accuracy over the range of 1.0 percent of full-scale.

[Offsets, CEQA]

- iv. Deleted Application 13427.
- v. The owner/operator shall perform a source test to determine emissions of SO2 from

A49, DAF Thermal Oxidizer using District Method ST-19A, Sulfur Dioxide, Continuous Sampling. The owner/operator shall submit the source test results to the District Source Test Manager, the District Permit Evaluation Manager and the District Director of Compliance and Enforcement no later than 60 days after any source test.

[Offsets, CEQA]

vi. If source test data per Part 7.b.v shows that the annual SO2 emissions are greater than 1.2 tons per year, the owner/operator shall provide additional SO2 offsets in accordance with BAAQMD Regulation 2-2-303.

[Offsets, CEQA]

- c. The following conditions apply to A51, DAF Carbon Bed
 - A51 shall consist of two or more activated carbon vessels arranged in series, with at least one carbon vessel in service except for up to 175 hours per any consecutive 12month period for startup, shutdown, or maintenance. [Offsets, CEQA]
 - ii. Total emission reduction of A51 shall be demonstrated through use of an in-line flowmeter, and the results of monitoring per the conditions below.[Offsets]
 - iii. The owner/operator of A51 shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:
 - 1. The stream prior to any carbon vessels
 - 2. At the inlet to the last carbon vessel in series
 - 3. At the outlet of the carbon vessel that is last in series prior to venting to atmosphere [Offsets]
 - iv. When using an FID to monitor breakthrough, readings may be taken with or without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions.
 [Offsets]
 - v. All breakthrough monitoring readings shall be recorded in a monitoring log each time they are taken. Readings shall be conducted on a daily basis initially, but after two months of daily collection, the owner/operator may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed to weekly based on the demonstrated breakthrough rates of the carbon vessels. If the District Engineering Division does not disapprove of the proposed monitoring changes within 30 days, the owner/operator shall commence weekly monitoring.

 [Offsets]

- vi. The owner/operator shall utilize the activated carbon vessels in such a manner to ensure that the outlet stream to atmosphere contains below 10 ppm VOC or 98% reduction of VOC, whichever is greater.

 [Offsets]
- vii. The owner/operator of this source shall maintain the following records for each month of operation of A51:
 - 1. The hours and times of operation
 - 2. Each monitor reading or analysis result for the day of operation they are taken.
 - 3. The number of spent carbon beds removed from service. [Offsets]
- 8. Deleted Application 13427.
- 9. This part will apply after VOC emissions at S1007 must be reduced to provide offsets for Application 13424 per Condition 22970, Part B. The owner/operator shall seal the DAF outlet channel and downstream sumps by a solid cover with gaskets. Any vents installed on the covered channel shall be routed to the thermal oxidizer or an equivalent control as determined by the APCO. [Offsets, CEQA]
- *10. The owner/operator must control with a thermal oxidizer at least 90% of the time on a consecutive 12-month basis, unless owner/operator controls H2S with an equivalent control device as determined by the APCO. [CEQA]

Alternate Operating Scenario for S1007

- 11. During periods when A49, DAF Thermal Oxidizer, A51, DAF Carbon Bed, and A53, Thermal Oxidizer are not in operation and not abating S1007, the owner/operator shall comply with the following requirements:
 - a. Affected facility wastes routed to the API or DAF shall be included in the facility TAB in accordance with 40 CFR 61, Subpart FF.
 - b. The owner/operator shall comply with BAAQMD and SIP Regulations 8-8-307.2 in lieu of BAAQMD and SIP Regulations 8-8-307.1.
 - c. S1007 shall not be subject to the closed vent and control device requirements in 40 CFR 61.349.
 - d. The owner/operator shall comply with parts 4, 5, 7, and 9 of this condition during periods when A49, DAF Thermal Oxidizer, A51, DAF Carbon Bed, and A53, Thermal Oxidizer are not in operation and not abating S1007.

This is considered an Alternate Operating Scenario in accordance with BAAQMD Regulation 2-6-409.7 and 40 CFR 70. The owner/operator shall keep a record in a contemporaneous log when a period of non-control at S1007 commences and when control of S1007 resumes. [40 CFR 61, Subpart FF, 40 CFR 70.6(a)(9), BAAQMD Regulation 2-6-409.7]

CONDITION 1694

This condition was amended by Applications 13424, 19360, and 23166.

Conditions for Combustion sources and SO2 Cap, except for Gas Turbines, Duct Burners, Engines, and S45, Heater (U246 B801 A/B)

- A. Heater Firing Rate Limits and General Requirements
- 1a. Each heater listed below shall not exceed the indicated daily firing rate limit (based on higher heating value of fuel), which are considered maximum sustainable firing rates. The indicated hourly firing rate is the daily limit divided by 24 hours and is the basis for permit fees and is the rate listed in the District database.

District Source <u>Number</u>	Refinery ID <u>Number</u>	Daily Firing Limit (MMbtu/day)	Hourly Firing Rate (MMbtu/hr)
S 7	U231/B103	1,536	64
S21	U244/B507	194.4	8.1
	[Regulation 2-1-234.3]		

1b. Each heater listed below shall not exceed the indicated daily firing rate limit (based on higher heating value of fuel), which are considered maximum sustainable firing rates. The indicated hourly firing rate is the daily limit divided by 24 hours and is the basis for permit fees and is the rate listed in the District database.

District Firing	Refinery	Daily Firing	Hourly
Source <u>Number</u>	ID <u>Number</u>	Limit (<u>MM BTU/day)</u>	Rate (MM BTU/hr)
S2	U229/B301	528	22
S3	U230/B201	1,272	53
S4	U231/B101	2,304	96
S5	U231/B102	2,496	104
S 9	U240/B2	1,464	61
S10	U240/B101	5,352	223
S11	U240/B201	2,592	108
S12	U240/B202	1,008	42
S13	U240/B301	4,656	194
S15 thru S19	U244/B501 thru B50)5 5,754	239.75
S20	U244/B506	552	23
S22	U248/B606	744	31
S29	U200/B5	2,472	103
S30	U200/B101	1,200	50

S31	U200/B501	480	20
S43	U200/B202	5,520	230
S44	U200/B201	1,104	46
S351	U267	2,280	95
S336	U231/B104	2,664	111
S337	U231/B105	816	34
S371/372	U228/B520 and B521	1,392	58
			[Regulation 2-1-301]

1c. Each heater listed below shall not exceed the indicated daily firing rate limit (based on higher heating value of fuel), which are considered maximum sustainable firing rates. The indicated hourly firing rate is the daily limit divided by 24 hours and is the basis for permit fees and is the rate listed in the District database.

District	Refinery	Daily Firing	Hourly Firing
Source	ID	Limit	Rate
Number	<u>Number</u>	(MMbtu/day)	(MMbtu/hr)
S438	U110	6,000	250
			[Cumulative Increase]

- 2a. All sources shall use only refinery fuel gas and natural gas as fuel, EXCEPT for S438 which may also use pressure swing adsorption (PSA) off gas as fuel, and EXCEPT for S3 and S7 which may also use naphtha fuel during periods of natural gas curtailment, test runs, or for operator training. [Regulation 9-1-304 (sulfur content), Regulation 2, Rule 1, Consent Decree Case No. 05-0258, DATE: 1/27/05] Amended Application 12931
- 2b. Deleted.2c. Deleted.
- 3a. The refinery fuel gas shall be tested for total reduced sulfur (TRS) concentration by GC analysis at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide. As an alternative to GC TRS analysis, the fuel gas total sulfur content may be measured with a dedicated total sulfur analyzer (Houston Atlas or equivalent), and TRS concentration estimated based on the total sulfur/TRS ratio, with the TRS estimate increased by a 5% margin for conservatism. The total sulfur/TRS ratio shall be determined at least on a monthly basis through GC analyses of total sulfur and TRS values, and the most recent ratio shall be used to estimate TRS concentration. [SO2 Bubble]
- 3b. The average of the 3 daily refinery fuel gas TRS sample results shall be reported to the District in a table format each calendar month, with a separate entry for each daily average. Sample reports shall be submitted to the District within 30 days of the end of each calendar month. Any omitted sample results shall be explained in this report. [SO2 Bubble]

- 4. Emissions of SO2 shall not exceed 1,612 lb/day on a monthly average basis from non-cogeneration sources burning fuel gas or liquid fuel. This limit shall not include S45, Heater (U246) and shall not include any engine. [SO2 Bubble]
- 5. The following records shall be maintained in a District-approved log for at least 5 years and shall be made available to the District upon request:
 - a. Daily and monthly records of the type and amount of fuel combusted at each source listed in Part A.1. [Regulation 2, Rule 1]

b. TRS sample results as required by Part A.3

[SO2 Bubble]

c. SO2 emissions as required by Part A.4

[SO2 Bubble]

- d. The operator shall keep records of all visible emission monitoring required by Part 2b, shall identify the person performing the monitoring and shall describe all corrective actions taken [Regulation 2-6-409.2]
- e. The operator shall keep records of all visible emission monitoring required by Part 2c, of the results of required visual monitoring and Method 9 evaluations on these sources, shall identify the person performing the monitoring and shall describe all corrective actions taken.

[Regulation 2-6-409.2]

6. Sources listed below are affected facilities under NSPS Subpart J and are subject to the application requirements of NSPS Subparts A and J for fuel gas combustion devices. [Consent Decree Case No. 05-0258, DATE: 1/27/05]

S2 U229/B301

S3 U230/B201

S4 U231/B101

S5 U231/B102

S7 U231/B103

S9 U240/B2

S10 U240/B101

S11 U240/B201

S12 U240/B202

S13 U240/B301

S15-S19 U244/B501-B505

S20 U244/B506

S21 U244/B507

S22 U244/B606

S29 U200/B5

S30 U200/B101

S31 U200/B501

B. S351 PREHEATER

1. The S351 heater shall be abated by the A6 SCR unit at all times, except that S351 may operate without SCR abatement on a temporary basis for periods of planned or emergency

maintenance. A District-approved NOx CEM shall monitor and record the S351 NOx emission rate whenever S351 operates without abatement. All emission limits applicable to S351 shall remain in effect whether or not it is operated with SCR abatement. [BACT, Cumulative Increase]

- 2. The concentration of NOx from S351 shall not exceed 20 ppmv @ 3% oxygen, dry, averaged over any consecutive 3 hour period. This limit shall not apply during a startup period which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours. [BACT, Cumulative Increase]
- 3. The following instruments shall be installed and maintained to demonstrate compliance with Part 2:
 - a. continuous NOx analyzer/recorder
 - b. continuous O2 or CO analyzer/recorder [BACT, Cumulative Increase]

C. S371 AND S372 FURNACES

- 1. The S371 furnace shall be abated by the A16 SCR unit at all times, and the S372 furnace shall be abated by the A17 SCR unit at all times, except that S371 and S372 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the NOx emission rates from these heaters whenever they operate without abatement. All emission limits applicable to S371 and S372 shall remain in effect whether or not they are operated with SCR abatement. [BACT, Cumulative Increase]
- 2. The concentration of NOx from S371 and S372 shall not exceed 20 ppmv, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. This limit shall not apply during a startup period, which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours. [BACT, Cumulative Increase]
- 3. The concentration of CO emissions from S371 and S372 shall not exceed 50 ppmv, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. This limit shall not apply during a startup period, which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period, which shall not exceed 9 hours.

[BACT, Cumulative Increase]

- D. S43 Coking Furnace (Unit 200 B-202) and S44 (Unit 200 B-201 PCT Reboil Furnace)
 - Nitrogen oxide emissions from the S43 Coking Furnace (Unit 200 B-202) shall be abated by Selective Catalytic Reduction Unit A4 at all times, except that S43 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S43 NOx emission rate whenever S43 operates without abatement. All emission limits applicable to S43 shall remain in effect whether or not it is operated with SCR abatement.

[BACT, Cumulative Increase]

2. The nitrogen oxides in the flue gases for S43, Unit 200 B-202 Coking Furnace and S44, Unit 200 B-201 PCT Reboil Furnace shall not exceed 40 ppmdv corrected to 3% oxygen, dry, over any consecutive 8 hour period. This limit shall not apply during a startup period which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours.

[BACT, Cumulative Increase]

- 3. The carbon monoxide in the flue gas for S43, Unit 200 B-202 Coking Furnace and S44, Unit 200 B-201 PCT Reboil Furnace shall not exceed 50 ppmdv corrected to 3% oxygen averaged over any calendar month. This condition shall not apply during start-up and shutdown.

 [BACT, Cumulative Increase]
- 4. Instruments shall be installed and operated to continuously monitor the percentage of oxygen and the concentration of nitrogen oxides from the following sources: S43, Unit 200 B-202 Coking Furnace and S44, Unit 200 B-201 PCT Reboil Furnace.

[BACT, Cumulative Increase]

E. S438 FURNACE

1. The S438 furnace shall be abated by the A46 SCR unit at all times, except that S438 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S438 NOx emission rate whenever S351 operates without abatement. All emission limits applicable to S438 shall remain in effect whether or not it is operated with SCR abatement.

[BACT, Cumulative

Increase]

- 2. Total fuel fired in S438 shall not exceed 2.19 E 12 btu in any rolling consecutive 365 day period. [Cumulative Increase]
- 3. Pressure swing adsorption (PSA) off gas used as fuel at S438 shall not exceed 1.0 ppm (by

weight) total reduced sulfur (TRS). TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide. [BACT, Cumulative Increase]

4. The following emission concentration limits from S438 shall not be exceeded. These limits shall not apply during startup periods not exceeding 24 hours (72 hours when drying refractory or during the first startup following catalyst replacement) and shutdown periods not exceeding 24 hours. The District may approve other startup and shutdown durations.

NOx: 7 ppmv @ 3% oxygen, averaged over any 1 hour period CO: 32 ppmv @ 3% oxygen, averaged over any calendar day

POC: 0.0023 lb/MMbtu of fuel used [BACT, Cumulative Increase]

- 5. The concentration of TRS in the blended fuel gas shall not exceed 14 ppmv averaged over any calendar month. [SO2 bubble, Cumulative Increase]
- 6. Daily records of the type and amount of fuel combusted at S438 and of the TRS and hydrogen sulfide concentration in the blended fuel gas, and monthly records of average blended fuel gas TRS concentration, shall be maintained for at least five years and shall be made available to the District upon request. [Cumulative Increase]
- 7. No later than 90 days from the startup of S438, the owner/operator shall conduct District-approved source tests to determine initial compliance with the limits in Part 4 for NOx, CO and POC. The owner/operator shall conduct the source tests in accordance with Part 8. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test.

 [BACT, Cumulative Increase]
- 8. The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements for continuous emissions monitors as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. [BACT, Cumulative Increase]
- F. S2, S3, S4, S5, S7, S9, S10, S11, S12, S13, Heaters
- 1b. Total fuel firing at Unit 240 (S9, S10, S11, S12, and S13) shall not exceed 616.4 MMbtu/hr (based on higher heating value) averaged over any consecutive 12 month period. [Cumulative Increase]
- 2. Total fuel fired at the MP-30 Complex, including Unit 229 (S2), Unit 230 (S3) and Unit 231 (S4, S5, S7) shall not exceed 346.5 MMbtu/hr (based on higher heating value) averaged over

any consecutive 12 month period. [Cumulative Increase]

- 3. Monthly records of the fuel fired at sources in Parts 1 and 2 shall be kept in a District-approved log for at least 5 years and shall be made available the District upon request. [Cumulative Increase]
- 4. The owner/operator shall not exceed the following NOx emission limits as measured by NOx CEMs:
 - a. S10: 0.015 lb NOx per MMBtu heat input based on a 12 consecutive month average.
 - b. S13: 0.015 lb NOx per MMBtu heat input based on a 12 consecutive month average.
 - c. S15, S16, S17, S18 and S19 combined: 0.015 lb NOx per MMBtu heat input based on a 12 consecutive month average. [Basis: ConocoPhillips-EPA Consent Decree Case No. H-05-0258]
- 5. Deleted.
- G. Regulation 9-10 Startup / Shutdown Provisions [Basis: 9-10-301]

For determining compliance with Regulation 9-10-301, the contribution of each affected unit that is in a startup or shutdown condition shall be based on the methods described in 9-10-301.1, and the contribution of each affected unit that is in an out of service condition shall be based on the methods described in 9-10-301.2. Low-firing conditions (no higher than 20% of a unit's rated capacity), including refractory dryout periods, shall be considered out of service conditions subject to the 30-day averaging procedure in Regulation 9-10-301.2, including the 60-day annual limit for this procedure.

- 1. Heater S44 (Unit 200, B-201) shall be considered to be in normal operation whenever it has detectable fuel flow, and shall be considered to be out of service for the purpose of Regulation 9-10-301 whenever it has undetectable fuel flow.
- 2. For heaters S43 (Unit 200, B-202), S351 (Unit 267, B-601/602) and S371/372 (Unit 228, B-520/521), the durations of startups, shutdowns and refractory dryout periods are defined in Condition 1694, Part D.2 (S43), Part B.2 (S351) and Part C.2 (S371, S372).
- 3. For heaters S10 (Unit 240, B-101) and S15 through S19 (Unit 244, B-501 through B-505), the duration of startups, shutdowns and low-firing periods are defined as follows:
 - a. startup and shutdown periods are not to exceed 24 hours
 - b. low-firing periods are not to exceed 72 hours
- 4. For heater S13 (Unit 240, B-301), the duration of startups, shutdowns and low-firing periods are defined as follows:
 - a. startup and shutdown periods are not to exceed 72 hours
 - b. low-firing periods are not to exceed 72 hours

5. For heaters with no CEMS:

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S2 (Unit 229, B-301)

S3 (Unit 230, B-201)

S4 (Unit 231, B-101)

S5 (Unit 231, B-102)

S7 (Unit 231, B-103)

S9 (Unit 240, B-2)

S11 (Unit 240, B-201)

S12 (Unit 240, B-202)

S20 (Unit 244, B-506)

S22 (Unit 248, B-606)

S29 (Unit 200, B-5)

S30 (Unit 200, B-501)

S31 (Unit 231, B-104)

S337 (Unit 231, B-105)
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startups, shutdowns, and out of service conditions shall each not exceed 5 days in succession at each source.

CONDITION 4336

CONDITIONS FOR S425, S426, Marine Loading Berths

- 1. For each loading event of "regulated organic liquid", A420 shall be operated with a temperature of at least 1300 degrees F during the first 15 minutes of the loading operation. After the initial 15 minutes of loading, the A420 temperature shall be at least 1400 degrees F. [Cumulative Increase]
- 2. Instruments shall be installed and maintained to monitor and record the following:
 - a. Static pressure developed in the marine tank vessel
 - b. A420 temperature.
 - Hydrocarbons and flow to determine mass emissions or a concentration measurement alone if it is demonstrated to the satisfaction of the APCO that concentration alone allows verification of compliance, or
 - d. Any other device that verifies compliance, with prior approval from the APCO. [Cumulative Increase]
- 3. A "regulated organic liquid" shall not be loaded from this facility into a marine tank vessel within the District whenever A420 is not fully operational. A420 must be maintained to be leak free, gas tight, and in good working order. For the purposes of this condition, "operational" shall mean the system is achieving the reductions required by Regulation 8, Rule 44; "regulated organic liquids" include gasoline, gasoline blendstocks, aviation gasoline and JP-4 aviation fuel and crude oil. [Cumulative Increase]
- 4. A leak test shall be conducted on all vessels loading under positive pressure prior to loading more than 20% of the cargo. The leak test shall include all vessel relief valves, hatch cover, butterworth plates, gauging connections, and any other potential leak points.

 [Cumulative Increase]
- 5. Loading pressure shall not exceed 80% of the lowest relief valve set pressure of the vessel being loaded. [Cumulative Increase]
- 6a. No more than 25,000 barrels per day of gasoline, naphtha and C5/C6 shall be shipped across the wharf on an annual average basis. [Cumulative Increase]
 - 1. Deleted Application 13690
 - 2. When barges are used to lighter crude oil, the volume of oil lightered during any reporting period shall be multiplied by a factor of 0.42 and included in the shipping totals to determine compliance with the throughput limits. The vessel Exxon Galveston is considered a ship for the purposes of this condition.

- 6b. The maximum loading rate at any time at both S425 and S426 shall not exceed 20,000 barrels per hour to prevent overloading the A420 oxidizer. [Cumulative Increase]
- 7. The owner/operator shall not receive more than 51,182 bbl per day of crude oil and/or gas oil delivered by tanker, barge or ship at the Marine Terminal (S425, S426) on a 12 month rolling average basis. In addition, no more than 59 tankers or ships shall deliver crude and/or gas oil to the Marine Terminal in any 12 consecutive months. (Cumulative increase, 2-1-403, Offsets)
- 8. All throughput records required to verify compliance with Parts 6 and 7, including hourly loading rate records (total for S425, S426), monthly crude oil receipt records, and maintenance records required for A420, which are subject to Regulation 8, Rule 44, shall be kept on site for at least 5 years and made available to the District upon request. [Cumulative Increase]
- 9. The destruction efficiency of the A420 control system shall be at least 98.5% by weight over each loading event for gasoline, gasoline blending stocks, aviation gas, aviation fuel (JP-4 type), and crude oil. [BACT]
- 10. Deleted.
- 11. Deleted.
- 12. Deleted,
- 13. Deleted.
- 14. Deleted Application 22906

CONDITION 6725

CONDITIONS FOR S432, DEISOBUTANIZER

- 1. All new flanges in hydrocarbon service associated with the S432 Deisobutanizer project shall utilize graphitic gaskets. All new valves in hydrocarbon service associated with the project shall be either live-loaded valves, bellows-sealed valves, diaphragm valves, or other District approved equivalent valve designs. [BACT, Cumulative Increase]
- 2. All new pressure relief valves in hydrocarbon service associated with the S432 project shall be vented to the refinery flare gas recovery system. [BACT, Cumulative Increase]
- 3. All new pumps and compressors in hydrocarbon service associated with the S432 project shall utilize either a double mechanical shaft seal design with barrier fluid, a magnetically coupled shaft, or other District approved equivalent design. If a barrier fluid is used, either the fluid reservoir shall be vented to a 95% efficient control device, or the barrier fluid shall

Facility Name: Phillips 66 Company – San Francisco Refinery
Permit for Facility #: A0016

VII. Applicable Limits and Compliance Monitoring Requirements

be operated at a pressure higher than the process stream pressure.

[BACT, Cumulative

Increase]

- 4. The owner/operator shall ensure that the throughput of S432 does not exceed 10,200 barrels/day. [Cumulative Increase]
- 5. All pressure relief devices on the process unit shall be vented to a fuel gas recovery system, furnace, or flare with a recovery/destruction efficiency of 98%. [8-28-302, BACT]
- 6. The owner/operator shall keep throughput records for this source on a daily basis. The records shall be kept on site for a period of at least 5 years and shall be made available for inspection by District staff upon request. [Cumulative Increase]

CONDITION 7353

FOR S433, MOSC STORAGE TANK

- 1. The emissions from the S433 MOSC storage tank shall be collected and vented to the fuel gas system. [Cumulative Increase]
- 2. Valves shall be equipped with live-loaded packing. Pumps shall be equipped with double mechanical seals separated by a barrier fluid. [Cumulative Increase]
- 3. The S433 Fixed Roof Storage Tank shall only store sludge. [Cumulative Increase]
- 4. The total throughput of sludge at this MOSC facility shall not exceed 138,700 barrels in any rolling 52 consecutive week period. [Cumulative Increase]
- 5. The total weekly throughput of sludge withdrawn from the S433 Storage Tank shall be recorded in a District approved log. This record shall be retained for a period of at least five years from date of entry. It shall be kept on site and made available to the District staff upon request.

 [Cumulative Increase]

CONDITION 7523

CONDITIONS FOR S294, GASOLINE DISPENSING FACILITY (GDF 7609)

Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 400,000 gallons in any consecutive 12 month period. [Basis: Toxic Risk Policy]

CONDITION 11219

CONDITIONS FOR S449, TANK (T-285)

1. Working emissions from S449 shall be collected and vented to the refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

CONDITION 12121

CONDITIONS FOR \$370, U228 ISOMERIZATION UNIT

- 1. The feed rate at the S370 isomerization unit (U-228) shall not exceed 11,040 barrels on any calendar day, defined as the sum of the isomerization fresh reactor charge and the adsorber fresh feed. [Cumulative Increase]
- 2. Daily records of the S370 feed rate shall be maintained for at least five years and shall be made available to the District upon request. [Recordkeeping]

CONDITION 12122

CONDITIONS FOR S352, S353, S354, S355, S356, S357: TURBINES AND DUCT BURNERS

- 1. The gas turbines (S352, S353 and S354) and the heat recovery steam generator (HRSG) duct burners (S355,S356 and S357) shall be fired on refinery fuel gas or natural gas.

 [Cumulative Increase]
- 2. A HRSG duct burner shall be operated only when the associated gas turbine is operated. [Cumulative Increase]
- 3. The exhaust from S352 and S355 shall be abated at all times by SCR unit A13, except that S352 and S355 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the 352 and S355 NOx emission rate whenever S352 and S355 operate without abatement. All emission limits applicable to S352 and S355 shall remain in effect whether or not they are operated with SCR abatement. [BACT, Cumulative Increase]
- 4. The exhaust from S353 and S356 shall be abated at all times by SCR unit A14, except that S353 and S356 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S353 and S356 NOx emission rate whenever S353 and S356 operate without abatement. All emission limits applicable to S353 and S356 shall remain in effect whether or not they are operated with SCR abatement. [BACT, Cumulative Increase]
- 5. The exhaust from S354 and S357 shall be abated at all times by SCR unit A15, except that S354 and S357 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S354 and S357 NOx emission rate whenever S354 and S357 operate without abatement. All emission limits applicable to S354 and S357 shall remain in effect whether or not they are operated with SCR abatement. [BACT, Cumulative Increase]

- 6. Total fuel fired in S355, S356, and S357 shall not exceed 2.42 E 12 btu in any consecutive 365 day period. [Cumulative Increase]
- 7. CO emissions from each turbine/duct burner set shall not exceed 39 ppmv at 15% oxygen, averaged over any consecutive 30 day period. Emissions during startup periods, which shall not exceed four hours, and shutdown periods, which shall not exceed two hours, may be excluded when averaging emissions.

 [BACT, Cumulative Increase]
- 8. POC emissions from each turbine/duct burner set shall not exceed 6 ppmv at 15% oxygen, averaged over any consecutive 30 day period. Emissions during startup periods, which shall not exceed four hours, and shutdown periods, which shall not exceed two hours, may be excluded when averaging emissions.

 [BACT, Cumulative Increase]
- 9a. The combined NOx emissions from S352, S353, S354, S355, S356 and S357 shall not exceed 66 lb/hr (averaged over any 3 hour period), nor 167 tons in any consecutive 365 day period. NOx emissions from each turbine/duct burner set shall not exceed 528 lb/day. (This condition will be invalid when the NOx emissions at these sources must be reduced to provide offsets for Application 13424.) [BACT, Cumulative Increase]
- 9b. This part will apply after NOx emissions at S352, S353, S354, S355, S356 and S357 must be reduced to provide offsets for Application 13424 per Condition 22970, Part B. The combined NOx emissions from S352, S353, S354, S355, S356 and S357 shall not exceed 66 lb/hr (averaged over any 3 hour period), and shall not exceed 79.8 tons in any consecutive 365 day period. NOx emissions from each turbine/duct burner set shall not exceed 528 lb/day. [BACT, Cumulative Increase, Offsets]
- 9c. NOx emissions from S352, S353, S354, S355, S356 and S357 shall be monitored with a District-approved continuous emission monitor. [BACT, Cumulative Increase]
- 9d. The owner/operator shall use a fuel meter to determine the heat input to each unit. This data shall be used to determine compliance with all throughput limits and the NOx, CO, and SO2 mass emission limits. [Cumulative Increase, 2-6-503]
- 10a. The combined CO emissions from S352, S353, S354, S355, S356 and S357 shall not exceed 200 tons in any consecutive 365 day period. [BACT, Cumulative Increase]
- 10b. CO emissions from S352, S353, S354, S355, S356 and S357 shall be monitored with a District-approved continuous emission monitor. [BACT, Cumulative Increase]
- 11. The combined POC emissions S352, S353, S354, S355, S356 and S357 shall not exceed 8.3 lb/hr and shall not exceed 30.5 tons in any consecutive 365 day period.

Facility Name: Phillips 66 Company – San Francisco Refinery Permit for Facility #: A0016

VII. Applicable Limits and Compliance Monitoring Requirements

[BACT, Cumulative

Increase]

12. The refinery fuel gas shall be tested for total reduced sulfur (TRS) concentration at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide.

[Cumulative]

Increase]

13. The average of the 3 daily refinery fuel gas TRS sample results shall be reported to the District in a table format each calendar month, with a separate entry for each daily average. Sample reports shall be submitted to the District within 30 days of the end of each calendar month. Any omitted sample results shall be explained in this report.

[Cumulative Increase]

- 14. A source test to verify compliance with Parts 8 and 11 shall be performed each calendar year in accordance with District source test methods or other methods approved in advance by the District. A copy of the test report shall be provided to the District Director of Compliance and Enforcement within 60 days of completion of the test. [Regulation 2-6-409.2]
- 15. Records shall be maintained to allow verification of compliance with all permit conditions. Records shall be retained for at least five years and shall be made available to the District upon request.

 [BACT, Cumulative Increase]

CONDITION 12124

CONDITIONS FOR S439, TANK (T-109)

- 1. The owner/operator shall ensure that S439 stores only crude oil or petroleum liquids with a vapor pressure of 3.0 psia or less. [BACT]
- 2. The following total throughput of crude oil shall not be exceeded in any rolling continuous 12 month period:

10 million barrels [Cumulative Increase]

3. S439 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. The owner/operator shall equip S439 with a BAAQMD approved roof with liquid mounted primary seal that meets the design criteria of BAAQMD Regulation 8-5-321.3 and secondary seal that meets the design criteria of BAAQMD Regulation 8-5-322.5. The owner/operator shall ensure that there are no ungasketed roof penetrations, no slotted pipe guide poles unless equipped with float and wiper seals, and no

Facility Name: Phillips 66 Company – San Francisco Refinery Permit for Facility #: A0016

VII. Applicable Limits and Compliance Monitoring Requirements

adjustable roof legs unless fitted with vapor seal boots or equivalent. [BACT, cumulative increase]

4. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

CONDITION 12125

CONDITIONS FOR S440, TANK (T-110)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

3,600 thousand barrels

[Cumulative Increase]

- 2. S440 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]
- 3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

CONDITION 12127

CONDITIONS FOR S442, TANK (T-112)

- 1. The owner/operator shall ensure that following total throughput limits are not exceeded in any rolling consecutive12 month period:
 - a. 10 million barrels of gas oil.
 - b. 10 million barrels of crude oil.
 - c. 10 million barrels of gas oil and crude oil combined

[Basis: Cumulative Increase]

2. The owner/operator shall only store the following in S442: gas oil with a true vapor pressure less than or equal to 3.0 psia, or crude oil with a true vapor pressure less than or equal to 11.0 psia.

[Basis: Cumulative Increase]

3. The owner/operator shall operate S442 with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. The owner/operator shall equip S442 with a BAAQMD approved roof with liquid mounted primary seal that meets the design criteria of BAAQMD Regulation 8-5-321.3 and secondary seal that meets the design criteria of BAAQMD Regulation 8-5-322.5. The owner/operator shall ensure that there are

no ungasketed roof penetrations, no slotted pipe guide poles unless equipped with float and wiper seals, and no adjustable roof legs unless fitted with vapor seal boots or equivalent.

[Basis: BACT, Cumulative Increase]

3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request.

[Basis: Cumulative Increase]

CONDITION 12129

CONDITIONS FOR S444, TANK (T-243)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

4,380 thousand barrels

[Cumulative Increase]

- 2. S444 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]
- 3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

CONDITION 12130

CONDITIONS FOR S445, TANK (T-271)

1. Working emissions from S445 shall be collected and vented to the refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

CONDITION 12131

CONDITIONS FOR S446, TANK (T-310)

1. Working emissions from S446 shall be collected and vented to the refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

CONDITION 12132

CONDITIONS FOR S447, TANK (T-311)

1. Working emissions from S447 shall be collected and vented to the refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

CONDITION 12133

AMENDED BY APPLICATIONS 22023 (SEPT. 2010) AND 23726 (OCT 2011) CONDITIONS FOR S-448 (T-1007)

CONDITIONS FOR S448, TANK (T-1007)

- 1. The following total throughput shall not be exceeded in any rolling continuous 12 month period, except that the throughput of materials that are not subject to Regulation 8, Rule 5 and 40 CFR Part 60 Subpart Kb is not restricted:
 - 2,190 thousand barrels

[Cumulative Increase]

- 2. S448 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]
- 3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

Alternate Operating Scenario

- 4. S-448 is under an Alternate Operating Scenario in accordance with BAAQMD Regulation 2-6-409.7 and 40 CFR 70 and either stores material subject to Regulation 8, Rule 5 and 40 CFR Part 60 Subpart Kb or stores material exempt from Regulation 8, Rule 5 and 40 CFR Part 60 Subpart Kb.
 - a. The owner/operator shall keep a record in a contemporaneous log of the stored material.
 - b. The owner/operator shall notify the District in accordance with section 40 CFR 60.113(a)(5) prior to storing materials in S-448 that are subject to Regulation 8, Rule 5 and 40 CFR Part 60 Subpart Kb.
 - c. The owner/operator shall perform inspections required by Regulation 8, Rule 5 and 40 CFR Part 60 Subpart Kb prior to storing materials in S-448 that are subject to those regulations.

[40 CFR 70.6(a)(9), BAAQMD Regulation 2-6-409.7]

CONDITION 12245

CONDITIONS FOR S450, GROUNDWATER EXTRACTION TRENCHES

- 1. Groundwater extracted from the S450 trench system shall be pumped to the wastewater treatment plant for treatment and shall not be exposed to the atmosphere except as required at the treatment plant. [Cumulative Increase]
- 2. All extraction pump vaults and piping access boxes shall be equipped with solid covers. [Cumulative Increase]

CONDITION 13184

CONDITIONS FOR S182, STORAGE TANK

1. The POC emissions from the S182 fixed roof storage tank shall be collected and vented at all times to the fuel gas collection system. [Cumulative Increase]

CONDITION 16677

CONDITIONS FOR S376, S377, S378, COLD CLEANERS

- 1. Net usage of citrus-based solvent at S376, S377 and S378 shall not exceed 150 gallons each in any consecutive 12-month period. [Cumulative Increase]
- 2. Cleanup solvent other than the material(s) specified in Part 1, and/or usage in excess of that specified in Part 1, may be used, provided that the Permit Holder can demonstrate that all of the following are satisfied:
 - a. Total POC emissions from S376, S377 and S378 do not exceed 1,095 pounds each in any consecutive 12-month period; and
 - b. The use of these materials does not increase toxic emissions above any risk screening trigger level. [Cumulative Increase and Toxic Risk Screen]
- 3. To determine compliance with the above requirements, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance, including:
 - a. Type and monthly usage of all solvents used;
 - b. If a material other than those specified in Part 1 is used, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - c. Monthly usage and emission calculations (if calculations are required by Part 3b) shall

be totaled for each consecutive 12-month period.

All records shall be retained for at least 5 years and shall be made available to the District upon request. These requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

[Cumulative Increase and Toxic Risk Screen]

CONDITION 18251

CONDITIONS FOR S380SILO

- 1a. Activated Carbon Silo S380 shall be vented through the A20 baghouse whenever the silo blower motor is in service. Baghouse operation is not required during unloading operations using only gravity feed. [Regulation 2-1-234]
- 1b. Deleted (S389 removed from operation).
- 2a. Baghouse A20 shall be equipped with differential pressure gauges to allow monitoring of baghouse operating condition. [Regulation 1-441]
- 2b. Differential pressure on baghouse A20 shall be checked at least once per calendar quarter to verify normal operating condition. [Regulation 1-441]
- 2c. Deleted.
- 3. A record of all differential pressure readings for baghouse A20 shall be maintained in a District-approved log for at least 5 years and shall be made available to the District upon request. [Regulation 1-441]

CONDITION 18255

FOR SOURCES S296 AND S398, FLARES

- 1. Deleted Application 12601.
- 2. Deleted Application 12601.
- 3. For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the owner/operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4. [Regulation 2-6-409.2]
- 4. The owner/operator shall use the following procedure for the initial inspection and each 30minute inspection of a flaring event.
 - a. If the owner/operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection.
 - b. If the owner/operator cannot determine that there are no visible emissions using video monitoring, the owner/operator shall conduct a visual inspection outdoors using either:
 - i. EPA Reference Method 9: or
 - ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.
 - c. If a visible emission is observed, the owner/operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.
 - d. The owner/operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 5. After a violation is documented, no further inspections are required until the beginning of a new calendar day.

[Regulation 6-1-301, 2-1-403]

- 5. The owner/operator shall comply with one of the following requirements if visual inspection
 - a. If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-1-301 when operating the flare.
 - b. If the procedure of Part 4.b.ii is used, the owner/operator shall not operate a flare that has visible emissions for three consecutive minutes.

[Regulation 2-6-403]

6. The owner/operator shall keep records of all flaring events, as defined in Part 3. The owner/operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual

inspection procedure of Part 4) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4) or Regulation 6-1-301 occurred (using EPA Method 9). [Regulation 2-6-501; 2-6-409.2]

- 7. Deleted Application 12601.
- 8. The owner/operator shall operate and maintain a flare gas recovery system to control continuous or routing combustion in the Refinery Main Flare (S296). Use of a flare gas recovery system on a flare obviates the need to continuously monitor and maintain records of hydrogen sulfide in the gas as otherwise required by 40 CFR 60.105(a)(4) and 60.7. [Consent Decree Case No. 05-0258, paragraph 139(a)]
- 9. Recognizing that periodic maintenance may be required for properly designed and operated flare gas recovery systems, Phillips 66 will take all reasonable measure to minimize emissions while such periodic maintenance is being performed. Nothing in this part shall exempt the source from compliance with other applicable State and Local requirements. [Consent Decree Case No. 05-0258, paragraph 148]
- 10. The flare gas recovery system may be temporarily bypassed in the event of an emergency or in order to ensure safe operation of refinery processes. Nothing in this part shall exempt the source from compliance with other applicable State and Local requirements. [Consent Decree Case No. 05-0258, paragraph 149]
- 11. Phillips 66 shall eliminate the routes of continuous or intermittent, routinely-generated fuel gases to the MP-30 Flare (S398) and operate the flare such that it receives only process upset gases, fuel gas released as a result of relief valve leakage or gases released due to other emergency malfunctions.
- 12. Acid Gas or Hydrocarbon Flaring Incident Root Cause Analyses

 The facility shall investigate the cause of acid gas and hydrocarbon flaring incidents, take
 reasonable steps to correct the conditions that have caused or contributed to such flaring
 incidents, and minimize such flaring incidents.

For purposes of this specific part, acid gas flaring shall mean the continuous or intermittent combustion of acid gas and/or sour water stripper gas. Hydrocarbon flaring shall mean the continuous or intermittent combustion of refinery-generated gases, except for acid gas and/or sour water stripper gas and/or tail gas, that results in the emission of sulfur dioxide equal to, or greater than 500 pounds in a 24 hour period; provided, however, that if 500 pounds or more of sulfur dioxide have been emitted in a 24 hour period and flaring continues into subsequent, contiguous, non-overlapping 24 hour period(s), each period of which results in emissions equal to, or in excess of 500 pounds of sulfur dioxide, then only one flaring incident shall have occurred. Subsequent, contiguous, non-overlapping periods are measured from the initial commencement of flaring within the flaring incident.

The owner/operator shall take, as expeditiously as practicable, such interim and/or long-term

corrective actions, if any, as are consistent with good engineering practice to minimize the likelihood of a recurrence of the root cause and all contributing causes of the flaring incident(s). For purposes of this specific condition, Root Cause shall mean the primary cause(s) of a flaring incident(s) as determined through a process of investigation. To the extent that a flaring incident has as its root cause the bypass of a flare gas recovery system for safety or maintenance, the owner/operator is only required to keep a record of the date, time and duration of the event. A single Root Cause analysis may be used for root causes that occur routinely. Where the owner/operator has previously analyzed hydrocarbon incidents related to startup and shutdown, it may refer to those analyses when evaluating later incidents. Records of such investigations and corrective actions shall be kept onsite and shall be made available to District staff upon request. [Consent Decree Case No. 05-0258, paragraphs 152, 167]

13. Tail Gas RCA

Tail gas flaring shall mean combustion of tail gas that either is: (i) combusted in a flare and results in 500 pounds or more of SO2 emissions in any 24 hour period; or (ii) Combusted in a thermal incinerator and results in excess emissions of 500 pounds or more of SO2 emissions in any 24 hour period. Only those time periods which are in excess of a SO2 concentration of 250 ppm (rolling twelve-hour average) shall be used to determine the amount of excess SO2 emissions from the incinerator; provided, however, that if 500 pounds or more of sulfur dioxide have been emitted in a 24 hour period and flaring continues into subsequent, contiguous, non-overlapping 24 hour period(s), each period of which results in emissions equal to, or in excess of 500 pounds of sulfur dioxide, then only one flaring incident shall have occurred. Subsequent, contiguous, non-overlapping periods are measured from the initial commencement of flaring within the flaring incident.

The owner/operator shall take, as expeditiously as practicable, such interim and/or long-term corrective actions, if any, as are consistent with good engineering practice to minimize the likelihood of a recurrence of the Root Cause and all contributing causes of the flaring incident(s). For purposes of this specific condition, Root Cause shall mean the primary cause(s) of a flaring incident(s) as determined through a process of investigation. To the extent that a flaring incident has as its root cause the bypass of a flare gas recovery system for safety or maintenance, the owner/operator is only required to keep a record of the date, time and duration of the event. A single Root Cause analysis may be used for root causes that occur routinely. Where the owner/operator has previously analyzed hydrocarbon incidents related to startup and shutdown, it may refer to those analyses when evaluating later incidents. Records of such investigations and corrective actions shall be kept onsite and shall be made available to District staff upon request. [Consent Decree Case No. 05-0258, paragraph 152]

CONDITION 18629

Conditions for S352, S353, S354, S355, S356, S357

May 30, 1989 PSD Permit Amendments (first issued March 3, 1986) Permit NSR 4-4-3 SFB 85-03

- I. [Obsolete Approval to Construct executed in a timely manner]
- II. [Obsolete Approval to Construct executed in a timely manner]

III. Facilities Operation

All equipment, facilities and systems installed or used to achieve compliance with the terms and conditions of this Approval to Construct/Modify shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

IV. Malfunction

The Regional Administrator shall be notified by telephone within two working days following any failure of air pollution control equipment, process equipment, or of any process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in Section IX of these conditions. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under Section IX of these conditions, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations that such malfunction may cause.

V. Right to Entry

The Regional Administrator, the head of the State Air Pollution Control Agency, the head of the responsible local air pollution control agency, and/or their authorized representatives, upon presentation of credentials, shall be permitted:

- A. to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Approval to Construct/Modify; and
- B. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this Approval to Construct/Modify; and
- C. to inspect any equipment, operation, or method required in this Approval to Construct/Modify; and
- D. to sample emissions from this source.

VI. Transfer of Ownership

In the event of any changes in control or ownership of facilities to be constructed or modified, this Approval to Construct/Modify shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this Approval to Construct/Modify and its conditions by letter, a copy of which shall be forwarded to the Regional Administrator and the State and local Air Pollution Control

Agency.

VII. Severability

The provisions of this Approval to Construct/Modify are severable, and, if any provisions of this Approval to Construct/Modify isare held invalid, the remainder of this Approval to Construct/Modify shall not be affected thereby.

VIII. Other Applicable Regulations

The owner/operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations.

IX. Special Conditions

A. [Obsolete – Approval to Construct executed in a timely manner]

B. Air Pollution Control Equipment

The owner/operator shall install, continuously operate, and maintain the following air pollution controls to minimize emissions. Controls listed shall be fully operational upon startup of the proposed equipment.

- 1. Each gas turbine shall be equipped with steam injection for the control of NOx emissions.
- 2. Each gas turbine shall be equipped with a Selective Catalytic Reduction (SCR) system for the control of NOx emissions.

D. Operating Limitations

- 1. The gas turbines and Heat Recovery Steam Generator (HRG) burners shall be fired only on refinery fuel gas and natural gas
- 2. The firing rate of each gas turbine/HRG burner set shall not exceed 466 MMbtu/hr.
- 3. The total fuel firing rate of the Steam/Power Plant shall not exceed 1048 MMbtu/hr.
- 4. The owner/operator shall maintain records of the amount of fuel used in the gas turbines and the HRG Burners, hours of operation, sulfur content of the fuel, and the ratio of steam injected to fuel fired in each gas turbine, in a permanent form suitable for inspection. The record shall be retained for at least two years following the date of record and shall be made available to EPA upon request.

E. Emission Limits for NOx

On or after the date of startup, owner/operator_shall not discharge from the gas turbine/HRG Burner sets NOx in excess of the more stringent of 83 lb/hr total or 25 ppmv at 15% O2 (3-hour average), or 664 lb/day per set. The concentration limit shall not apply for 4 hours during startup or 2 hours during shutdown.

F. Emission Limits for SO2

On or after the date of startup, the owner/operator_shall not discharge from the gas turbine/HRG Burner sets SO2 in excess of 15.6 lb/hr per set or 44 lb/hr total (3-hour average). Additionally, total SO2 emissions shall not exceed 34 lb/hr (3 hour average) for

more than 36 days per year, and shall not exceed a total of 153 tons per year (365 days)

- G. Continuous Emission Monitoring
- 1. Prior to the date of startup and thereafter, the owner/operator_shall install, maintain and operate the following continuous monitoring systems downstream of each of the gas turbine/HRG Burner units:
 - a. Continuous monitoring systems to measure stack gas NOx and SO2 concentrations. The systems shall meet EPA monitoring performance specifications (60.13 and 60, Appendix B, Performance Specifications). Alternatively, the SO2 continuous monitor may be substituted for by a continuous monitoring system measuring H2S in the refinery fuel gas system and daily sampling for total sulfur in the fuel gas.
 - b. A system to calculate the stack gas volumetric flow rates continuously from actual process variables.
- 2. The owner/operator shall maintain a file of all measurements, including continuous monitoring system performance evaluations, all continuous monitoring system monitoring device calibration checks, adjustments and maintenance performed on these systems or devices, and all other information required by 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports and records.
- 3. The owner/operator shall submit a written report of SO2 emission status and all excess emissions to EPA (Attn: A3-3) for every calendar quarter. The report shall include the following:
 - a. If fuel gas samples are used to determine SO2 emissions:
 - (1) The total measured sulfur concentration in each fuel gas sample for the calendar quarter.
 - (2) The daily average sulfur content in the fuel gas, daily average SO2 mass emission rate (lb/hr), and total tons per year of SO2 emitted for the last 365 consecutive days. Total SO2 emissions exceeding 34 lb/hr must be identified.
 - b. The magnitude of excess emissions computed in accordance with 60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
 - c. Specific identification of each period of excess emissions that occurs during startups, shutdowns and malfunctions of the cogeneration gas turbine system. The nature and cause of any malfunction (if known) and the corrective action taken or preventative measures adopted shall also be reported.
 - d. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs or adjustments.
 - e. When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report.
 - f. Excess emissions shall be defined as any three-hour period during which the

average emissions of NOx and/or SO2 as measured by the continuous monitoring system and/or calculated from the daily average of the total sulfur in the fuel gas, exceeds the NOx and/or SO2 maximum emission limits set for each of the pollutants in Conditions IX.E and IX.F. above

g. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purpose of this permit.

H. New Source Performance Standards

The proposed cogeneration facility is subject to the Federal regulations entitled Standards of Performance for New Stationary Sources (60). The owner/operator_shall meet all applicable requirements of Subparts A and GG of this regulation.

X. Agency Notifications

All correspondence as required by this Approval to Construct/Modify shall be forwarded to:

A. Director, Air Management Division (Attn: A3-3)

EPA Region 9 215 Fremont Street San Francisco, CA 94105 (415/974-8034)

B. Chief, Stationary Source Division California Air Resources Board P O Box 2815 Sacramento, CA 95812

C. Air Pollution Control Officer

Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105

CONDITION 18680

CONDITIONS FOR \$294, GASOLINE DISPENSING FACILITY (GDF 7609)

- 1. The Phil Tite EVR Phase I Vapor Recovery System, including all associated plumbing and components, shall be operated and maintained in accordance with the most recent version of California Air Resources Board (CARB) Executive Order VR-101. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board.
- 2. The owner or operator shall conduct and pass a Rotatable Adaptor Torque Test (CARB Test Procedure TP201.1B) and either a Drop Tube/Drain Valve Assembly Leak Test (TP201.1C) or, if operating drop tube overfill prevention devices ("flapper valves"), a Drop Tube Overfill Prevention Device and Spill Container Drain Valve Leak Test (TP201.1D) at

least once in each 36-month period. Measured leak rates of each component shall not exceed the levels specified in VR-101.

The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted within thirty (30) days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail to the District's main office.

CONDITION 19278

Conditions for S1002 and S1003

- 1. Deleted Application 12433
- 2. Deleted Application 12433
- 3. An annual District-approved source test shall be performed to verify compliance with the requirements of Regulation 6-1-330. A copy of the source test results shall be provided to the District Director of Compliance and Enforcement within 60 days of the test.

 [Basis: Regulation 6-1-330]
- 4. The Owner/Operator shall perform a visible emissions check on Sources S1002 and S1003 on a monthly basis. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the owner/operator shall have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures outlined in the CARB manual, "Visible Emissions Evaluation" for six (6) minutes within three (3) days and record the results of the reading. If the reading is in compliance with the Ringelmann 1.0 limit in BAAOMD Regulation 6-1-301, the reading shall be recorded and the owner/operator shall continue to perform a visible emissions check on a monthly basis. If the reading is not in compliance with the Ringelmann 1.0 limit in BAAOMD Regulation 6-1-301, the owner/operator shall take corrective action and report the violation in accordance with Standard Condition 1.F of the Title V permit. The certified smoke-reader shall continue to conduct the Method 9 or CARB Visible Emission Evaluation on a daily basis until the daily reading shows compliance with the applicable limit or until the equipment is shut down. Records of visible emissions checks and opacity readings made by a CARB-certified smoke reader shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulations 6-1-301, 2-6-501, 2-6-503]
- 5. Within 90 days of issuance of the Major Facility review permit pursuant to Application 10994, the owner/operator shall perform source tests at the stacks of Tail Gas Incinerators

A422 and A423 to determine compliance with BAAQMD Regulations 6-1-310.1 and 6-1-311.1 for filterable particulate using the existing single port. The owner/operator shall also utilize a District approved method to measure condensable particulate during annual particulate testing conducted under this part for a period of three years after issuance of the change of condition under application 27954. The APCO may administratively request that the owner/operator continue to perform annual condensable testing at the end of the three year period. The owner/operator shall submit a proposed source test protocol to the Source Test group at least 30 days before conducting the source test. Within 60 days of the source tests, the owner/operator shall submit the results of the source tests to the District. The owner/operator shall repeat the source tests on an annual basis. The District's Source Test Group will observe the initial test to determine if testing with a single port is acceptable for these stacks. If the Source Test Group finds that a single port is not acceptable, the District may reopen the permit to require installation of a second port at each stack. [2-6-503]

6. The owner/operator shall ensure that the throughput of molten sulfur at S-1002 and S-1003 does not exceed 106.3 long tons/day and 134.5 long tons/day, respectively. The owner/operator shall ensure that the throughput of molten sulfur at S-1002 and S-1003 combined does not exceed 201 long tons/day. The owner/operator shall ensure that the throughput of molten sulfur at S-1002 and S-1003 does not exceed 31,390 long tons/year and 41,975 long tons/year, respectively. The owner/operator shall record the throughput of molten sulfur on a monthly basis.

[Basis: Cumulative Increase]

CONDITION 19488

CONDITIONS FOR S50, S51 and S52 - TURBINE STARTUP DIESEL ENGINES

- 1. The owner/operator of turbine startup engines S50, S51 and S52 shall operate these engines no more than 60 hours combined total per calendar year. [Basis: "Stationary Diesel Engine ATCM 93115.3(j)]
- 2. The owner/operator shall maintain monthly records of the hours of operation for the engines in a District-approved log for at least 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request..[Basis: "Stationary Diesel Engine ATCM" 93115.10(f)]

CONDITIONS FOR S53 - SPP EMERGENCY GENERATOR G-27

3. The owner/operator of emergency standby engine S53 shall operate this engine only for emergency use or for reliability-related activities. Operation for reliability-related activities shall not exceed 20 hours per year. [Basis: "Stationary Diesel Engine ATCM 93115.6(b)(3)(A)(1)(a)]

- 4. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited. [Basis: "Stationary Diesel Engine ATCM" 93115.6(b)(3)(A)(1)(a)]
- 5. The owner/operator shall operate this emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.

[Basis:"Stationary Diesel Engine ATCM" 93115.10(d)(1)]

- 6. The owner/operator shall maintain the following monthly records in a District-approved log for at least 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency)
 - d. For each emergency, the nature of the emergency condition.
 - e. The type of fuel used for the engine.

f.

[Basis: "Stationary Diesel Engine ATCM" 93115.10(f)]

CONDITIONS FOR S56, S57, S58 AND S59 – FIREWATER PUMP ENGINES

- 7. Operating for reliability-related activities is limited to no more than 50 hours per year per engine which is the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25. These emergency fire pumps are subject to the current National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems." [Basis: "Stationary Diesel Engine ATCM"93115.3(n)]
- 8. The owner/operator shall maintain the following monthly records in a District-approved log for at least 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing) related to the requirements of NFPA 25.

- b. Hours of operation (emergency)
- c. For each emergency, the nature of the emergency condition.
- d. The type of fuel used for each engine.

[Basis: "Stationary Diesel Engine ATCM" 93115.10(g)]

CONDITION 20773, TANKS EXEMPT FROM REGULATION 8, RULE 5

This condition applies to tanks that are exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to the exemption in Regulation 8-5-117 for storage of organic liquids with a true vapor pressure of less than or equal to 25.8 mm Hg (0.5 psia).

- 1. Whenever the type of organic liquid in the tank is changed, the owner/operator shall verify that the true vapor pressure at the storage temperature is less than or equal to 25.8 mm Hg (0.5 psia). The owner/operator shall use Lab Method 28 from Volume III of the District's Manual of Procedures, Determination of the Vapor Pressure of Organic Liquids from Storage Tanks. For materials listed in Table 1 of Regulation 8, Rule 5, the owner/operator may use Table 1 to determine vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), the owner/operator shall report non-compliance in accordance with Standard Condition I.F and shall submit an application to the District for a new permit to operate for the tank as quickly as possible.

 [Basis: 8-5-117 and 2-6-409.2]
- 2. The results of the testing shall be maintained in a District-approved log for at least five years from the date of the record, and shall be made available to District staff upon request.

 [Basis: 2-6-409.2]

FACILITY-WIDE REQUIREMENTS CONDITION 20989

A. THROUGHPUT LIMITS

The following limits are imposed through this permit in accordance with Regulation 2-1-234.3. Sources require BOTH hourly/daily and annual throughput limits (except for tanks and similar liquid storage sources, and small manually operated sources such as cold cleaners which require only annual limits). Sources with previously imposed hourly/daily AND annual throughput limits are not listed below; the applicable limits are given in the specific permit conditions listed above in this section of the permit. Also, where hourly/daily capacities are listed in Table II-A, these are considered enforceable limits for sources that have a New Source Review permit. Throughput limits imposed in this section and hourly/daily capacities listed in Table II-A are not federally enforceable for grandfathered sources. Grandfathered sources are indicated with an asterisk in the source number column in the following table. Refer to Title V Standard Condition J for clarification of these limits.

In the absence of specific recordkeeping requirements imposed as permit conditions, monthly throughput records shall be maintained for each source.

source number	hourly / daily throughput limit	annual throughput limit (any consecutive 12-month period unless otherwise specified)		
15	Table II-A	19.9 E 6 therm total at S15		
		through S19		
16	Table II-A	19.9 E 6 therm total at S15		
		through S19		
17	Table II-A	19.9 E 6 therm total at S15		
10		through S19		
18	Table II-A	19.9 E 6 therm total at S15		
10	T 11 T 4	through S19		
19	Table II-A	19.9 E 6 therm total at S15		
20	T. 11. T. A	through S19		
20	Table II-A	1.9 E 6 therm		
21	Table II-A	0.7 E 6 therm		
22	Table II-A	2.6 E 6 therm		
29	Table II-A	8.6 E 6 therm		
30	Table II-A	4.2 E 6 therm		
31	Table II-A	1.7 E 6 therm		
43	Table II-A	19.1 E 6 therm		
44	Table II-A	3.8 E 6 therm		
*100	NA for tank	4.38 E 6 bbl		
101	NA for tank	3.68 E 9 gal		
102	NA for tank	3.68 E 9 gal		
106	NA for tank	3.68 E 9 gal		
*107	NA for tank	8.76 E 6 bbl		
*110	NA for tank	1.40 E 7 bbl		
*111	NA for tank	1.31 E 7 bbl		
*112	NA for tank	1.49 E 7 bbl		
*113	NA for tank	1.49 E 7 bbl		
*114	NA for tank	1.31 E 7 bbl		
*115	NA for tank	4.38 E 6 bbl		
*125	NA for tank	1.05 E 7 bbl		
129	NA for tank	4.6 E 6 bbl		
133	NA for tank	8.76 E 5 bbl		
*134	NA for tank	1.31 E 7 bbl		
150	NA for tank	4.38 E 7 bbl		
151	NA for tank	4.38 E 7 bbl		
*177	NA for tank	2.63 E 7 bbl		
178	NA for tank	3.50 E 7 bbl		
183	NA for tank	4.38 E 5 bbl		
184	NA for tank	4.38 E 6 bbl		
*194	NA for tank	100 bbl		

source number	hourly / daily throughput limit	annual throughput limit (any consecutive 12-month period unless otherwise specified)		
195	NA for tank	525,600 bbl		
*216	NA for tank	4.6 E 6 bbl		
*239	NA for tank	8.76 E 6 bbl		
*254	NA for tank	7.01 E 7 bbl		
*255	NA for tank	7.01 E 7 bbl		
*256	NA for tank	7.01 E 7 bbl		
*257	NA for tank	7.01 E 7 bbl		
*258	NA for tank	7.01 E 7 bbl		
*259	NA for tank	7.01 E 7 bbl		
294	20 gpm	400,000 gallons		
305	Table II-A	10.22 E 6 bbl		
306	Table II-A	7.67E6 bbl		
*319	Table II-A	3.51 E 6 bbl		
324	Table II-A	3.68 E 9 gallons		
336	Table II-A	9.2 E 6 therm		
337	Table II-A	2.8 E 6 therm		
*338	Table II-A	6.6 E 10 ft3		
343	NA for tank	4.38 E 7 bbl		
351	Table II-A	8.4 E 6 therm		
360	NA for tank	2.78 E 6 bbl		
370	Condition 12121	4.03 E6 bbl		
371	Table II-A	4.8 E6 therm for \$371/\$372		
372	Table II-A	4.8 E6 therm for \$371/\$372		
380	0.45 ton/hr	3,942 ton		
381	420,000 gal/hr	3.68 E 9 gal		
382	420,000 gal/hr	3.68 E 9 gal		
383	420,000 gal/hr	3.68 E 9 gal		
384	420,000 gal/hr	3.68 E 9 gal		
385	Table II-A	3.68 E 9 gal		
386	3600 gal/hr	3.2 E 7 gal		
387	Table II-A	13.14 E 6 gal		
390	N/A for tank	7.884 E 6 gal		
392	N/A for tank	7.884 E 6 gal		
400	N/A for sump	3.68 E 9 gal		
401	N/A for sump	3.68 E 9 gal		
435	Table II-A	6.6 E 6 bbl		
436	Table II-A	4.7 E 6 bbl		
437	Table II-A	10.4E 9 ft3		
462	Table II-A	1.533 E 9 ft3		
463	Table II-A	365,000 bbl		
1007	Table II-A	3.68 E 9 gal		

B. OTHER REQUIREMENTS

1. The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit, and, for any unscheduled startup or shutdown of a process unit, within 48 hours or within the next normal business day. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. This requirement is not federally enforceable.

[Regulation 2-1-403]

CONDITION 21092

CONDITIONS FOR \$300, DELAYED COKER

- 1. The owner/operator of S300 shall not exceed a total charging rate to S300 (Coking Unit 200) of 81,000 barrels on any day. [Cumulative Increase]
- 2. The owner/operator shall maintain a file which contains (1) all measurements, records, charts and other data which must be collected pursuant to the provisions of this conditional permit and (2) such other data and calculations necessary to determine actual emissions from emission points covered by this permit. This file (which may contain confidential or proprietary data) shall include, but not be limited to: records of quantities of crude oil and other hydrocarbons processed on an actual daily basis. This material shall be kept available for

District inspection for a period of at least 5 years following the date on which such measurements, records or other data are made or recorded.

[BACT, Cumulative Increase]

- 3. Each month, within 30 days of the end of the month, the owner/operator shall make an operational report to the APCO. Each monthly report shall include the following information for the month being reported:
 - a. S300 daily charging rate for all feed streams [BACT, Cumulative Increase]

CONDITION 21094

CONDITIONS FOR \$460 HYDROTREATER

- 1. The owner/operator of S460 shall not exceed a feed rate of 35,000 bbl/day on a monthly average basis at this unit. [Regulation 2-1-234]
- 2. The owner/operator of S460 shall maintain the following records in a District-approved log.

Facility Name: Phillips 66 Company – San Francisco Refinery Permit for Facility #: A0016

VII. Applicable Limits and Compliance Monitoring Requirements

These records shall be kept for at least 5 years and shall be made available to the District upon request.

- a. Daily records of feed throughput
- b. Average daily feed rate for each calendar month

[Regulation 2-1-234]

CONDITION 21095

CONDITIONS FOR S304 HYDROTREATER

- 1. The owner/operator of S304 shall not exceed a feed rate of 12,198 bbl/day on a monthly average basis. [Regulation 2-1-234]
- 2. The owner/operator of S304 shall maintain the following records in a District-approved log. These records shall be kept for at least 5 years and shall be made available to the District upon request.
 - a. Daily records of feed throughput
 - b. Average daily feed rate for each calendar month

[Regulation 2-1-234]

CONDITION 21096

CONDITIONS FOR S461 HEATER

- 1. The owner/operator of the S461 heater shall fire only refinery fuel gas or natural gas at this unit. [BACT, Cumulative Increase]
- 2. Based on refinery gas HHV, the owner/operator of S461 shall not exceed the following firing rates:
 - a. 50.2 million btu/hr
 - b. 439,800 million btu in any consecutive 12-month period. [Cumulative Increase]
- 3a. The owner/operator of S461 shall abate emissions from S461 at the A461 SCR system whenever S461 is operated, except that S461 may operate without SCR abatement on a temporary basis for periods of standby and planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S461 NOx emission rate whenever S461 operates without abatement. All emission limits applicable to S461 shall remain in effect even if it is operated without SCR abatement. [BACT, Cumulative Increase]
- 3b. The owner/operator of A461 shall not exceed the following emission rates from S461/A461 except during startups, shutdowns, and standby mode (SCR temperature below 475 deg. F along with no fresh process feed). Startups and shutdowns shall not exceed 24 consecutive

hours. The 24 consecutive-hour startup period is in addition to heater dryout/warmup periods, which shall not exceed 72 consecutive hours.

NOx	10 ppmv @ 3% oxygen (3 l	nr average) [BACT, Cumulative Increase]		
CO	28 ppmv @ 3% oxygen (8 l	ar average) at 25.1 MMbtu/hr and higher firing		
	rates, 50 ppmv @ 3% oxygen (8 hr average) at firing rates below			
	MMbtu/hr	[BACT, Cumulative Increase]		
POC	5.5 lb/MM ft3	[Cumulative Increase]		
PM10	7.6 lb/MM ft3	[Cumulative Increase]		

*3c. The owner/operator of S461 shall not exceed the following emission rate from S461/A461 except during startups, shutdowns, and standby mode (SCR temperature below 475 deg. F along with no fresh process feed). Startups and shutdowns shall not exceed 24 consecutive hours. The 24 consecutive-hour startup period is in addition to heater dryout/warmup periods, which shall not exceed 72 consecutive hours.

Ammonia 10 ppmv @ 3% oxygen (8 hr average) [Regulation 2, Rule 5]

- 4. The owner/operator shall equip S461 with a District-approved continuous fuel flow monitor and recorder in order to determine fuel consumption. A parametric monitor as defined in Regulation 1-238 is not acceptable. The owner/operator shall keep continuous fuel flow records for at least five years and shall make these records available to the District upon request.

 [Cumulative Increase]
- 5a. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. The owner/operator shall keep NOx and O2 data for at least five years and shall make these records available to the District upon request.

 [BACT, Cumulative Increase]
- 5b. Following the initial source test, the owner/operator shall monitor compliance with the CO emission rate limit in Part 3b with a District-approved semi-annual source test, with at least one source test per year deemed by the District to be representative of normal operation. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. The time interval between source tests shall not exceed 8 months. CO source tests performed by the District may be substituted for semi-annual CO source tests. If two or more CO source tests, over any consecutive five year period, indicate a CO emission rate of 200 ppmv @ 3% O2 or higher, the owner/operator shall install and operate a District-approved continuous CO monitor/recorder within the time period specified in the District Manual of Procedures.[BACT, Cumulative Increase]
- 5.c. The owner/operator shall measure CO concentrations using a District approved handheld monitor during the first standby mode, startup, and shutdown events after this condition is incorporated into the Title V permit. Thereafter, the owner/operator shall measure CO concentrations using a District approved handheld monitor once every three years to determine CO emission factors during startup, shutdown, and standby mode. The measured CO concentrations and fuel flow data will be used to

develop an emission factor or emission factors for CO emissions during startup, shutdown, and standby mode. The owner/operator may record CO concentrations over a period of time and average the concentrations to establish a more representative emission factor for each operational mode. Hand-held portable monitors shall be operated, maintained and calibrated in accordance with manufacturer guidelines. [Cumulative Increase]

- 6. The owner/operator shall use only refinery fuel gas at S461 that does not exceed the following limits:
 - a. 100 ppmv totaled reduced sulfur (TRS), averaged over a calendar day
 - b. 45 ppmv TRS, averaged over any rolling consecutive 365-day period.

 [BACT, Cumulative Increase]
- 7a. The owner/operator shall test refinery fuel gas prior to combustion at S461 to determine total reduced sulfur (TRS) concentration by GC analysis at least once per 8-hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, and dimethyl disulfide.
 - 7a.1. As an alternative to GC TRS analysis, the fuel gas total sulfur content may be measured with a dedicated total sulfur analyzer (Houston Atlas or equivalent). For the purposes of the daily limit, the owner/operator will presume that the results are TRS, unless the sample is analyzed for TRS by GC analysis. At least one sample per week shall be analyzed using a GC. The owner/operator shall use the results of the samples that have been analyzed by GC analysis for the purposes of the annual limit.
- 7b. To demonstrate compliance with Part 6, the owner/operator shall measure and record the daily average TRS content and the 365-day average TRS content of the refinery fuel gas fired in S461, unless required to operate a District-approved continuous monitor/recorder by Part 7a. The owner/operator shall keep TRS records, whether they are the results of GC analysis or continuous analyzer data, for at least five years and shall make these records available to the District upon request. [BACT, Cumulative Increase]
- 7c. For the purpose of demonstrating compliance with the H2S limit in 60.104(a)(1), the owner/operator shall test refinery fuel gas prior to combustion at S461 to determine total H2S concentration at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. Records of H2S monitoring shall be kept for at least five years after the date the record was made. The owner/operator shall submit a semi-annual report regarding this monitoring to the District and to EPA. The reporting periods shall start on January 1st and July 1st of each year. The reports shall be submitted by January 31st and July 31st of each year. If the limit has not been exceeded during the reporting period, this information shall be stated in the report. If the limit has been exceeded, the owner/operator shall report the date and time that the exceedance

ended. The owner operator shall estimate and report the excess emissions during the exceedance. [60.13(i)]

- 8. Deleted Application 11626.
- 9. Deleted Application 11626.
- 10. The owner/operator shall record the duration of all startups, shutdowns, standby mode, and heater dryout/warmup periods to determine compliance with parts 3b and 3c. The owner/operator shall calculate emissions from S461 for all periods using NOx CEM data, fuel flow rates, and District approved emission factors. The owner/operator of S461 shall not exceed the following annual emission rates including startup, shutdown, standby, heater dryout/warmup periods, and malfunctions.

NOx: 2.86 tons/year CO: 5.06 tons/year POC: 0.79 tons/year

Year is defined as every consecutive 12-month period. Month is defined as a calendar month.

The owner/operator shall keep the records for at least five years and shall make these records available to the District upon request. The owner/operator shall submit the basis for the CO emission factor(s) for each operating mode (startup, shutdown, standby mode, dryout/warmup periods) to the Director of the District's Engineering Division no later than 60 days after the measurements were taken as required by Part 5c of this condition. [2-6-503, Cumulative Increase]

CONDITION 21097

CONDITIONS FOR S36 HEATER

- The owner/operator of the S36 heater shall fire only refinery fuel gas or natural gas at this unit.
 [BACT, Cumulative Increase]
- 2. Based on refinery gas HHV, the owner/operator of S36 shall not exceed the following firing rates: a. 82.1 million btu/hr
 - b. 719,200 million btu in any consecutive 12-month period. [Cumulative Increase]
- 3a. The owner/operator of S36 shall abate emissions from S36 at the A36 SCR system whenever S36 is operated, except that S36 may operate without SCR abatement on a temporary basis for periods of planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S36 NOx emission rate whenever S36 operates without abatement. All emission limits applicable to S36 shall remain in effect even if it is operated without

dryout/warmup periods, which shall not exceed 72 consecutive hours.

SCR abatement. [BACT, Cumulative Increase]

3b. The owner/operator of S36 shall not exceed the following emission rates from S36/A36 except during startups and shutdowns. Startups and shutdowns shall not exceed 24 consecutive hours. The 24 consecutive-hour startup period is in addition to heater

NOx 10 ppmv @ 3% oxygen (3 hr average) [BACT, Cumulative Increase]

CO 28 ppmv @ 3% oxygen (8 hr average) [BACT, Cumulative Increase]

POC 5.5 lb/MM ft3 [Cumulative Increase]

PM10 7.6 lb/MM ft3 [Cumulative Increase]

*3c. The owner/operator of S36 shall not exceed the following emission rate from S36/A36 except during startups and shutdowns. Startups and shutdowns shall not exceed 24 consecutive hours. The 24 consecutive-hour startup period is in addition to heater dryout/warmup periods, which shall not exceed 72 consecutive hours.

Ammonia 10 ppmv @ 3% oxygen (8 hr average) [Toxic Management]

- 4. The owner/operator shall equip S36 with a District-approved continuous fuel flow monitor and recorder in order to determine fuel consumption. A parametric monitor as defined in Regulation 1-238 is not acceptable. The owner/operator shall keep continuous fuel flow records for at least five years and shall make these records available to the District upon request.

 [Cumulative Increase]
- 5a. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. The owner/operator shall keep NOx and O2 data for at least five years and shall make these records available to the District upon request.

 [BACT, Cumulative Increase]
- 5b. Following the initial source test, the owner/operator shall monitor compliance with the CO emission rate limit in Part 3b with a District-approved semi-annual source test, with at least one source test per year deemed by the District to be representative of normal operation. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. The time interval between source tests shall not exceed 8 months. CO source tests performed by the District may be substituted for semi-annual CO source tests. If two or more CO source tests, over any consecutive five year period, indicate a CO emission rate of 200 ppmv @ 3% O2 or higher, the owner/operator shall install and operate a District-approved continuous CO monitor/recorder within the time period specified in the District Manual of Procedures.

 [BACT, Cumulative Increase]
- 6. The owner/operator shall use only refinery fuel gas at S36 that does not exceed the following limits:
 - a. 100 ppmv totaled reduced sulfur (TRS), averaged over a calendar day

b. 45 ppmv TRS, averaged over any rolling consecutive 365-day period.

[BACT, Cumulative Increase]

- 7a. The owner/operator shall test refinery fuel gas prior to combustion at S36 to determine total reduced sulfur (TRS) concentration by GC analysis at least once per 8-hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, and dimethyl disulfide.
 - 7a.1. As an alternative to GC TRS analysis, the fuel gas total sulfur content may be measured with a dedicated total sulfur analyzer (Houston Atlas or equivalent). For the purposes of the daily limit, the owner/operator will presume that the results are TRS, unless the sample is analyzed for TRS by GC analysis. At least one sample per week shall be analyzed using a GC. The owner/operator shall use the results of the samples that have been analyzed by GC analysis for the purposes of the annual limit.
- 7b. To demonstrate compliance with Part 6, the owner/operator shall measure and record the daily average TRS content and the 365-day average TRS content of the refinery fuel gas fired in S36, unless required to operate a District-approved continuous monitor/recorder by Part 7a. The owner/operator shall keep TRS records, whether they are the results of GC analysis or continuous analyzer data, for at least five years and shall make these records available to the District upon request. [BACT, Cumulative Increase]
- 7c. For the purpose of demonstrating compliance with the H2S limit in 60.104(a)(1), the owner/operator shall test refinery fuel gas prior to combustion at S36 to determine total H2S concentration at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. Records of H2S monitoring shall be kept for at least five years after the date the record was made. The owner/operator shall submit a semi-annual report regarding this monitoring to the District and to EPA. The reporting periods shall start on January 1st and July 1st of each year. The reports shall be submitted by January 31st and July 31st of each year. If the limit has not been exceeded during the reporting period, this information shall be stated in the report. If the limit has been exceeded, the owner/operator shall report the date and time that the exceedance began and the date and time that the exceedance ended. The owner operator shall estimate and report the excess emissions during the exceedance. [60.13(i)]
- 8. Deleted Application 11626.
- 9. Deleted Application 11626.
- 10. The owner/operator shall record the duration of all startups, shutdowns, and heater dryout/warmup periods to determine compliance with parts 3b and 3c. The owner/operator shall keep the records for at least five years and shall make these records available to the District upon request. [2-6-503]

CONDITION 21099

CONDITIONS FOR ULSD PROJECT FUGITIVE COMPONENTS

1. The owner/operator shall equip all light hydrocarbon control valves installed as part of the USLD Project with live loaded packing systems and polished stems, or equivalent.

[BACT]

- 2. The owner/operator shall equip all flanges/connectors installed in the light hydrocarbon piping systems as part of the USLD Project with graphitic-based gaskets unless the service requirements prevent this material. [BACT]
- 3. The owner/operator shall equip all new hydrocarbon centrifugal compressors installed as part of the USLD Project with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. [BACT]
- 4. The owner/operator shall equip all new light hydrocarbon centrifugal pumps installed as part of the USLD Project with a seal-less design or with dual mechanical seals with a heavy liquid barrier fluid, or equivalent. [BACT]
- 5. The owner/operator shall integrate all new fugitive equipment installed as part of the USLD Project, in organic service, into the facility fugitive equipment monitoring and repair program.

[BACT]

6. The Owner/Operator shall submit a count of installed pumps, compressors, valves, and flanges/connectors every 180 days until completion of the project. For flanges/connectors, the owner/operator shall also provide a count of the number of graphitic-based and nongraphitic gaskets used. The owner/operator has been permitted to install fugitive components (5,410 valves, 2,376 flanges, 3,564 connectors, 26 pumps, 14 compressors) with a total POC emission rate of 8.62 ton/yr. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The owner/operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after the submittal of the final POC fugitive equipment count. If the actual component count is less than the predicted, at the completion of the project, the total will be adjusted accordingly and all emission offsets applied by the owner/operator in excess of the actual total fugitive emissions will be credited back to owner/operator prior to issuance of the permits.

[BACT, Cumulative Increase, Toxic Management]

CONDITION 21235

Regulation 9-10 Refinery-Wide Compliance

CONDITIONS FOR SOURCES S2, S3, S4, S5, S7, S8, S9, S10, S11, S12, S13, S15, S16, S17, S18, S19, S20, S22, S29, S30, S31, S43, S44, S336, S337, S351, S371, S372

1. The following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10: [Regulation 9-10-301 and 305]

S#	Description	NOx CEM			
2 U2	229, B-301 Heater	No			
3 U2	230, B-201 Heater	Yes			
4 U2	231, B-101 Heater	Yes			
5 U2	231, B-102 Heater	Yes			
7 U2	231, B-103 Heater	Yes			
9 U2	240, B-2 Boiler	Yes			
10 U2	240, B-101 Heater	Yes			
11 U2	240, B-201 Heater	Yes			
12 U2	240, B-202 Heater	Yes			
13 U2	240, B-301 Heater	Yes			
15 U2	244, B-501 Heater	Yes			
16 U2	244, B-502 Heater	Yes			
17 U2	244, B-503 Heater	Yes			
18 U2	244, B-504 Heater	Yes			
19 U2	244, B-505 Heater	Yes			
20 U2	244, B-506 Heater	No			
22 U2	248, B-606 Heater	No			
29 U2	200, B-5 Heater	Yes			
30 U2	200, B-101 Heater	Yes			
31 U2	200, B-501 Heater	No			
43 U2	200, B-202 Heater	Yes			
44 U20	0, B-201 PCT Rebo	il Furnace Yes			
336 U2	231 B-104 Heater	Yes			
337 U2	231 B-105 Heater	Yes			
351 U267 B-601/602 Tower Pre-Heaters Yes					
371 U228 B-520 (Adsorber Feed) Furnace Yes					
372 U2	28 B-521 (Hydroger	n Plant) Furnace Yes			

- 2. The owner/operator of each source listed in Part 1 shall properly install, properly maintain, and properly operate an O2 monitor and recorder. [Regulation 9-10-502]
- 3. The owner/operator shall operate each source listed in Part 1, that does not have a NOx CEM within specified ranges of operating conditions (firing rate and oxygen content) as detailed in Part 5. The ranges shall be established by utilizing data from district-approved source tests.
 - a. The NOx Box for units with a maximum firing rate of 25 MMBtu/hr or more shall be established using the procedures in Part 4.
 - b. The NOx Box for units with a maximum firing rate less than 25 MMBtu/hr shall be

established as follows: High-fire shall be the maximum rated capacity. Low-fire shall be 20% of the maximum rated capacity. There shall be no maximum or minimum O2. [Regulation 9-10-502]

- 4. The owner/operator shall establish the initial NOx box for each source subject to Part 3. The NOx Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. The procedure for establishing the NOx box is as follows:
 - a. Conduct district approved source tests for NOx and CO, while varying the oxygen concentration and firing rate over the desired operating ranges for the furnace;
 - b. Determine the minimum and maximum oxygen concentrations and firing rates for the desired operating ranges (Note that the minimum O2 at low-fire may be different than the minimum O2 at high-fire. The same is true for the maximum O2). The owner/operator shall also verify the accuracy of the O2 monitor on an annual basis.
 - c. Determine the highest NOx emission factor (lb/Mmbtu) over the preferred operating ranges while maintaining CO concentration below 200 ppm; the owner/operator may choose to use a higher NOx emission factor than tested.
 - d. Plot the points representing the desired operating ranges on a graph. The resulting polygon(s) is the NOx Box, which represents the allowable operating range(s) for the furnace under which the NOx emission factor from part 5a is deemed to be valid.
 - i. The NOx Box can represent/utilize either one or two emission factors.
 - ii. The NOx Box for each emission factor can be represented either as a 4 or 5-sided polygon. The NOx box is the area within the 4- or 5-sided polygon formed by connecting the source test basedparameters that lie about the perimeter of successful approved source tests. The source test parameters forming the corners of the NOx box are listed in Part 5.
 - e. Upon establishment of each NOx Box, the owner/operator shall prepare a graphical representation of the box. The representation shall be made available on-site for APCO review upon request. The box shall also be submitted to the BAAQMD with permit amendments.
- 5. Except as provided in Part 5b and 5c, the owner/operator shall operate each source within the NOxBox ranges listed below at all times of operation. This part shall not apply to any source which has a properly operated and properly installed NOx CEM.
 - a. NOx Box ranges

Source No.	Emission Factor	Point 1	Point 2	Point 3	Point 4	Point 5
1101	(lb/MMBtu)	(O ₂ %, MMBtu/hr)				

2	0.031	N/A, 4.4	N/A, 4.4	N/A, 22	N/A	N/A, 22
20	0.036	N/A, 4.6	N/A, 4.6	N/A, 23	N/A	N/A, 23
22	0.036	2.1, 6.2	2.1, 24	4.4, 24	4.7, 21	4.7, 6.2
22	0.050	4.7, 6.2	4.7, 21	10, 20.3	10, 6.2	
31	0.055	N/A, 4	N/A, 4	N/A, 20	N/A	N/A, 20

The limits listed above are based on a calendar day averaging period for both firing rate and O2%.

- b. Part 5a does not apply to low firing rate conditions (i. e., firing rate less than or equal to 20% of the unit's rated capacity) during startup or shutdown periods or periods of curtailed operation (ex. during heater idling, refractory dryout, etc.) lasting 5 days or less. During these conditions the means for determining compliance with the refinery wide limit shall be accomplished using the method described in 9-10-301.2 (i.e. units out of service and 30-day averaging data).
- c. Part 5a does not apply during any source test required or permitted by this condition. (Reg. 9-10-502). See Part 7 for the consequences of source test results that exceed the emission factors in Part 5.

6a. The owner/operator may deviate from the NOx Box (either the firing rate or oxygen limit) provided that the owner/operator conducts a district approved source test which replicates the past operation outside of the established ranges. The source test representing the new conditions shall be conducted no later than the next regularly scheduled source test period, or within eight months, whichever is sooner. The source test results will establish whether the source was operating outside of the emission factor utilized for the source. The source test results shall be submitted to the district source test manager within 60 days of the test. As necessary, a permit amendment shall be submitted.

i.Source Test <= Emission Factor

If the results of this source test do not exceed the higher NOx emission factor in Part 5, or the CO limit in Part 9, the unit will not be considered to be in violation during this period for operating out of the "box." The facility may submit an accelerated permit program permit application to request an administrative change of the permit condition to adjust the NOx Box operating range(s), based on the new test data. The change will be considered to be an administrative change for the purpose of the District permit and a minor revision for the purpose of the Major Facility Review permit.

ii. Source Test > Emission Factor

If the results of this source test exceed the permitted emission concentrations or emission rates then, utilizing measured emission concentration or rate, the owner/operator shall apply the higher emission

factor retroactively to the date of the previous source test and provide sufficient NOx IERCs for that time period to ensure the facility is in compliance with the refinery wide limit specified in Regulation 9-10-301. The owner/operator will be in violation of Regulation 9-10-301 for each day there are insufficient NOx IERCs provided to bring the refinery wide average into compliance with Regulation 9-10-301. The facility may submit a permit application to request an alteration of the permit condition to change the NOx emission factor and/or adjust the operating range, based on the new test data.

- 6b. The owner/operator must report conditions outside of box within 96 hours of occurrence.
- 7. For each source subject to Part 3, the owner/operator shall conduct source tests at the schedule listed below. The source tests are performed in order to measure NOx, CO, and O2 at the as-found firing rate, or at conditions reasonably specified by the APCO. The source test results shall be submitted to the District Source Test Manager within 60 days of the test. [Regulation 9-10-502]
- a.Source Testing Schedule
 - i. Heater < 25 MMBtu/hr: One source test per consecutive 12 month period. The time interval between source tests shall not exceed 16 months.
 - ii. Heaters = 25 MMBtu/hr: Two source tests per consecutive 12 month period. The time interval between source tests shall not exceed 8 months and not be less than 5 months apart. The source test results shall be submitted to the district source test manager within 60 days of the test. [Regulation 9-10-502]

b.If the results of any source test under this part exceed the permitted concentrations or emission rates,

the owner/operator shall follow the requirements of Part 6a(ii). If the owner/operator chooses not to submit an application to revise the emission factor, the owner/operator shall conduct another Part 7 source test, at the same conditions, within 90 days of the initial test.

- 8.For each source listed in Part 1 with a NOx CEM installed, the owner/operator shall conduct semi-annual district approved CO source tests at as-found conditions. The time interval between source tests shall not exceed 8 months. District conducted CO emission tests associated with District-conducted NOx CEM field accuracy tests may be substituted for the CO semi-annual source tests.
- 9. For any source listed in Part 1 for which any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O2, the owner/operator shall properly install, properly maintain, and properly operate a CEM to continuously measure CO and O2. The owner/operator shall install the CEM within the time period allowed in the District's Manual of Procedures. [Regulation 9-10-502, 1-522]
- 10. In addition to records required by 9-10-504, the facility must maintain records of all source tests conducted to demonstrate compliance with Parts 1 and 5. These records shall be kept on site for at least five years from the date of entry in a District approved log and be made available to District staff upon request. [Recordkeeping, Regulation 9-10-504]
- *11. The sources listed in Part 1 of this condition make up the group of sources that are operating under an Alternative Compliance Plan (ACP). The owner/operator shall demonstrate compliance

with their ACP and with Regulation 9-10-301 by keeping a spreadsheet of the ACP calculations in a District approved format.

[basis:Regulation 2-9-303, 9-10-301]

Conditions for use of IERCs for compliance with Regulation 9-10-301:

- *12. The owner/operator shall submit quarterly reports to the APCO, within 30 days following the end of each calendar quarter, or other 3-month interval established in the plan. Each quarterly report shall include:
 - a. ummary of the amount of IERC's used during the previous quarter;
 - b. Sum of all IERC's used during the current ACP period;
 - c. A projection of the IERC's that are needed for the entire ACP period based on the IERC usage rates calculated in Parts 12a and 12b of this condition, including the Environmental Benefit Surcharge, per Regulation 2-9-309; and
 - d.Certification that the facility possesses IERC's equal to the amount projected in Part 12c of this condition or a description of how the facility will adjust its operat ion so that the amount of IERC's does not exceed the amount of IERC's possessed by the facility.

[basis: Regulation 2-9-502.3]

- *13. The owner/operator shall submit an annual reconciliation report to the APCO within 30 days of following the end of the ACP period, and surrender the banking certificate(s) for all IERC's used during the ACP period, including the environmental benefit surcharge, per Regulation 2-9-309. [basis:Regulation 2-9-502.4]
 - *14. The ACP must be reviewed and approved by the APCO on an annual basis. The owner/operator shall submit all necessary documents mentioned in Regulation 2-9-303 with ACP renewal request. [basis: Regulation 2-9-303]
 - *15. The owner/operator shall retain records for five years from the date the record was made, and shall submit such information as required by the APCO to determine compliance with the ACP. [basis: Regulation 2-9-502.2]

CONDITION 22121

For Sources S452, S453, S455, S457, S458, S500, Cooling Towers (Applications 10349, 14112, 17465, and 27798)

- 1. Deleted.
- 2. Deleted.
- 3. Deleted.
- 4. The owner/operator shall sample the cooling tower water at each cooling tower at least once per month and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. [Regulations 2-6-503, Regulation 3]
- 5. Deleted.
- 6. Deleted.
- 7. The owner/operator shall use the total dissolved solids monitoring to estimate annual emissions of particulate from the cooling towers. The estimated annual emissions shall be reported to the Engineering Divisions by June 30th of each year. The owner/operator shall use this estimate to confirm that S452 has not emitted more than 5 tons particulate per year. [Regulations 2-1-319.1, 3]
- 8. The owner/operator shall maintain the following records for five years from the date of record:
 - a. Deleted.
 - b. Deleted.

c.

- d. Records of monthly determination of total dissolved solids
- e. Deleted.
- f. Deleted.

[Regulation 2-6-501]

CONDITION 22122

For Source S456, Cooling Tower (Application 10349)

- 1. Deleted.
- 2. The owner/operator shall sample the cooling tower water at least once per month and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. [basis: Regulations 2-6-503, 3]
- 3. Deleted.

- 4. Deleted.
- 5. Deleted.
- 6. The owner/operator shall use the total dissolved solids monitoring to estimate annual emissions of particulate from the cooling tower. The estimated annual emissions shall be reported to the Engineering Divisions by June 30th of each year. The owner/operator shall use this estimate to confirm that the cooling tower has not emitted more than 5 tons particulate per year. [Regulation 2-6-501, 3]
- 7. The owner/operator shall maintain the following records for five years from the date of record:
 - a. Deleted.
 - b. Records of monthly determination of total dissolved solids
 - c. Deleted.
 - d. Deleted.

(Regulation 2-6-501)

CONDITION 22478

For Sources S123 (Tank 168), S124 (Tank 169), S186 (Tank 298), and S334 (Tank 107)

- 1. The owner/operator shall ensure that S123 contains only water and petroleum liquid with a true vapor pressure less than or equal to 3.0 psia. [Cumulative Increase]
- 2. The owner/operator shall ensure that S124 contains only water and petroleum liquid with a true vapor pressure less than or equal to 11.0 psia. [Cumulative Increase]
- 3. The owner/operator shall ensure that the emissions of S186 do not exceed 2,231 lb VOC in any consecutive 12-month period. S186 shall only contain petroleum liquids. [Cumulative Increase]
- 4. The owner/operator shall ensure that S334 contains only crude oil or a petroleum liquid with a true vapor pressure less than or equal to 3.0 psia. [BACT, Cumulative Increase]
- 5. The owner/operator shall ensure that the throughput of petroleum liquids at S123 does not exceed 3,000,000 barrels/yr. [Cumulative Increase]
- 6. The owner/operator shall ensure that the throughput of petroleum liquids at S124 does not exceed 3,000,000 barrels/yr. [Cumulative Increase]
- 7. The owner/operator shall ensure that the throughput of crude oil or other petroleum liquids at S334 does not exceed 10,000,000 barrels/any consecutive 12-month period. [Cumulative Increase]
- 8a. The owner/operator shall equip S123, S124, and S186 with a BAAQMD approved roof

with mechanical shoe primary seal and zero gap secondary seal meeting the design criteria of BAAQMD Regulation 8, Rule 5. The owner/operator shall ensure that there are no ungasketed roof penetrations, no slotted pipe guide poles unless equipped with float and wiper seals, and no adjustable roof legs unless fitted with vapor seal boots or equivalent. [BACT, cumulative increase]

- 8b. The owner/operator shall operate S334 with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. The owner/operator shall equip S334 with a BAAQMD approved roof with liquid mounted primary seal that meets the design criteria of BAAQMD Regulation 8-5-321.3 and secondary seal that meets the design criteria of BAAQMD Regulation 8-5-322.5. The owner/operator shall ensure that there are no ungasketed roof penetrations, no slotted pipe guide poles unless equipped with float and wiper seals, and no adjustable roof legs unless fitted with vapor seal boots or equivalent. [BACT, cumulative increase]
- 9. The owner/operator shall calculate the emissions of S186 on a calendar month basis using the AP-42 equations. The owner/operator shall use actual throughputs, actual vapor pressures, and actual temperature data for each month. The owner/operator shall calculate the emissions for the last 12-month period on a monthly basis. The calculations shall be complete within a calendar month after the end of each monthly period. [Cumulative increase]

CONDITION 22518

For Sources S135 (Tank 200), S137 (Tank 202)

- 1. The owner/operator shall ensure that S135 contains only petroleum liquid with a true vapor pressure less than or equal to 11 psia. [Cumulative Increase]
- 2. The owner/operator shall ensure that S137 contains only petroleum liquid with a true vapor pressure less than or equal to 11 psia. [Cumulative Increase]
- 3. The owner/operator shall ensure that the throughput of petroleum liquids at S135 and S137 does not exceed 10,000,000 barrels/yr at each tank. [Cumulative Increase]
- 4. The owner/operator shall ensure that S135 and S137 are controlled at all times that petroleum fluids are stored in the tanks by A7, Vapor Recovery System. [Cumulative Increase]
- 5. The owner/operator shall not clean S135 and S137 when switching from one petroleum fluid to another. [Cumulative Increase]

CONDITION 22549

Source 318, U76 Gasoline/Mid Barrel Blending Unit

- 1. The owner/operator shall ensure that the daily throughput of petroleum liquids, excluding diesel, at S318, U76 Gasoline/Mid Barrel Blending Unit, does not exceed 113,150 barrels/day. No daily limit is placed on diesel. [Cumulative Increase]
- 2. The owner/operator shall ensure that the throughput of petroleum liquids excluding diesel at S318 does not exceed 41,300,000 barrels/yr. [Cumulative increase]
- 3. The owner/operator shall keep daily records of throughput of all petroleum fluids at S318, U76 Gasoline/Mid Barrel Blending Unit, in a District-approved log. These records shall be kept for at least five years and shall be made available to the District upon request. [Cumulative Increase]
- 4. All pressure relief devices on the process unit shall be vented to a fuel gas recovery system, furnace, or flare with a recovery/destruction efficiency of 98%. [8-28-302, BACT]

CONDITION 22850

S1011 NEG-1 Standby Generator, Emergency Standby, IC Engine, Cummins, model QSL9-G3, 363 bhp

- 1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing. [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
- 2. The owner/operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited. [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
- 3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]
- 4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.

e. Fuel usage for each engine(s).

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

- 5. At School and Near-School Operation: If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:
 - a. The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for nonemergency use, including maintenance and testing, during the following periods:
 - b. Whenever there is a school sponsored activity (if the engine is located on school grounds)
 - c. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.
 - "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades I to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property. [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

CONDITION 22951

CONDITIONS FOR S294, GASOLINE DISPENSING FACILITY (GDF 7609)
Permit Conditions for Healy EVR Phase II System w/o ISD per CARB E.O. VR-201

- 1. The Healy EVR Phase II Vapor Recovery System without ISD, including all associated underground plumbing, shall be installed, operated, and maintained in accordance with the most recent revision of the California Air Resources Board (CARB) Executive Order VR-201. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board. [basis: CARB Executive Order VR-201, Section 41954(f)]
- 2. The owner/operator of the facility shall maintain records in accordance with the following requirements. Records shall be maintained on site and made available for inspection for a period of 24 months from the date the record is made.
 - a. Monthly throughput of gasoline pumped, summarized on an annual basis
 - b. All scheduled maintenance activities required under E.O. VR-201, Exhibit 2, Figure 2B-11.

[basis: Regulation 2-1-403; CARB Executive Order VR-201, Section 41954(f)]

3. All applicable components shall be maintained to be leak free and vapor tight. Leak Free, as per BAAQMD (District) Regulation 8-7-203, is a liquid leak of no greater than three drops per minute.

Vapor Tight as defined in District Manual of Procedures, Volume IV, ST-30. [basis: Regulation 8-7-203]

4. The Healy EVR Phase II system shall be capable of demonstrating on-going compliance with

the vapor integrity requirements of CARB Executive Order VR-201. The owner or operator shall conduct and pass the following tests at least once in each 12-month period following successful completion of start-up testing. Tests shall be conducted using the referenced test methods:

- a. Vapor-to-Liquid Test in accordance with E.O. VR-201, Exhibit 5. The vapor-to-liquid ratio shall be between 0.95 and 1.15 when measured at dispensing rates between 6 and 10 gallons per minute.
- b. Healy Clean Air Separator Static Pressure Performance test in accordance with E.O. VR-201, Ex. 4.
- c. Static Pressure Performance Test, in accordance with CARB Test Procedure TP-201.3 (3/17/99). If the tank size is 500 gallons or less, the test shall be performed on an empty tank.

[basis: CARB Executive Order VR-201, Section 41954(f)]

5. The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted within thirty (30) days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail to the District's main office.

[basis: Regulation 2-1-403]

- 6. The maximum length of the coaxial hose assembly, including breakaway, swivels, and whip hoses, shall be twenty (20) feet. The maximum allowable length of hose which may be in contact with the top of the island block or the ground shall be six (6) inches.[basis: CARB Executive Order VR-201, Section 41954(f)]
- 7. The dispensing rate shall not exceed ten (10.0) gallons per minute (gpm), nor be less than six (6.0) gpm with the trigger at the highest setting. Compliance with this condition shall be verified with only one nozzle in operation per product supply pump. [basis: Regulation 2-1-403]
- 8. All ball valves shall be positioned for normal operation as shown in E.O. VR-201, Ex. 2, Figs. 2B-5 through 2B-9 except when necessary for testing and maintenance. [basis: CARB Executive Order VR-201, Section 41954(f)]
- 9. The Healy EVR Phase II Vapor Recovery System without ISD shall be maintained in accordance with the System Operating Manual approved by CARB. [basis: CARB Executive Order VR-201, Section 41954(f)]
- 10. No dispensing shall be allowed when a vapor collection pump is disabled for maintenance or for any other reason. Only those nozzles affected by the disabled vapor collection pump are subject to this condition. [basis: CARB Executive Order VR-201, Section 41954(f)]]

- 11. Permanent access to vacuum assist equipment shall be provided for the purpose of inspection and/or testing. [basis: Regulation 2-1-403]
- 12. The Healy EVR Phase II Vapor Recovery System without ISD shall be retrofitted with ISD controls as required by CARB. [basis: CARB Executive Order VR-201, Section 41954(f)]

CONDITION 22962

Source 45, U246 B-801 A/B Heater

- 1. The owner/operator of the S45 heater shall fire only refinery fuel gas and/or natural gas at this unit. [BACT, Cumulative Increase]
- 2. Based on refinery gas HHV, the owner/operator of S45 shall not exceed the following firing rates:
 - a. 85 MMbtu/hr
 - b. 744,600 MMbtu in any consecutive 12-month period. [Cumulative Increase]
- 3. The owner/operator of S45 shall abate emissions from S45 at the A47 SCR system whenever S45 is operated, except that S45 may operate without SCR abatement on a temporary basis for periods of standby and planned or emergency maintenance. A District-approved NOx CEM shall monitor and record the S45 NOx emission rate whenever S45 operates without abatement. All emission limits applicable to S45 shall remain in effect even if it is operated without SCR abatement. [BACT, Cumulative Increase]
- 4. The owner/operator of S45 shall not exceed the following emission concentrations or rates from S45/A47 except during startups, shutdowns, and standby mode (SCR temperature below 475 deg. F along with no fresh process feed). Startups and shutdowns shall not exceed 48 consecutive hours. The 48 consecutive-hour startup period is in addition to heater dryout/warmup periods, which shall not exceed 24 consecutive hours.
 - a. NOx: 5 ppmv @ 3% oxygen (3 hr average) [BACT, Cumulative Increase]
 - b. CO: 28 ppmv @ 3% oxygen (3 hr average) when operating under 30 MMbtu/hr [BACT, Cumulative Increase, 40 CFR 63.52(a)]
 - c. POC: 5.5 lb/MM ft3 [Cumulative Increase]
 - d. PM10: 7.6 lb/MM ft3 [BACT, Cumulative Increase]
 - e. CO: 10 ppmv @ 3% oxygen (3 hr average) when operating over 30 MMbtu/hr [BACT, Cumulative Increase, 40 CFR 63.52(a)]

If the heater operates at rates below and above 30 MMbtu/hr in any 3-hour period, the CO limit shall be a weighted average.

5. *The owner/operator of S45 shall not exceed the following emission rate from S45/A47 except during startups and shutdowns and standby mode (SCR temperature below 475

deg. F along with no fresh process feed). Startups and shutdowns shall not exceed 48 consecutive hours. The 48 consecutive-hour startup period is in addition to heater dryout/warmup periods, which shall not exceed 24 consecutive hours.

Ammonia: 15 ppmv @ 3% oxygen (8 hr average) [Regulation 2, Rule 5]

6. The owner/operator of S45 shall not exceed the following annual emission rates from S45/A47 including startups, shutdowns, standby mode, and malfunctions.

a. NOx: 2.3 tons/yr [BACT, Cumulative Increase]b. CO: 2.8 tons/yr [BACT, Cumulative Increase]

c. POC: 1.5 tons/yr [Cumulative Increase]

d. PM10: 1.9 tons/yr [BACT, Cumulative Increase]e. SO2: 4.7 tons/yr [BACT, Cumulative Increase]

The owner/operator shall calculate emissions from S45 using NOx CEM data and District approved emission factors.

Year is defined as every consecutive 12-month period. Month is defined as calendar month.

The owner/operator shall submit the basis for the CO emission factor(s) for each operating mode (startup, shutdown, standby dryout/warmup periods) to the Director of the District's Engineering Division no later than 60 days after the measurements were taken as required by Part 9a of this condition.

- 7. The owner/operator shall equip S45 with a District-approved continuous fuel flow monitor and recorder in order to determine fuel consumption. A parametric monitor as defined in Regulation 1-238 is not acceptable. The owner/operator shall keep continuous fuel flow records for at least five years and shall make these records available to the District upon request. [Cumulative Increase]
- 8. The owner/operator shall install, calibrate, maintain, and operate District-approved continuous emission monitors and recorders for NOx and O2. The owner/operator shall keep NOx and O2 data for at least five years and shall make these records available to the District upon request. [BACT, Cumulative Increase]
- 9a. The owner/operator shall conduct District-approved source tests two times per year to determine compliance with the CO limit. The tests shall be no less than 4 months apart and no more than 8 months apart. The source tests shall be performed on the heater in an asfound condition. CO source tests performed by the District may be substituted for semi-annual CO source tests. If the heater exceeds the limits in parts 4b or 4e more than once in any 3-year period, the owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for CO within the time period specified in the District Manual of Procedures after the second exceedance of the limits in parts 4b or 4e. The owner/operator shall keep CO data for at least five years and shall make these records available to the District upon request.

For tests conducted by the owner/operator, the owner/operator shall conduct the source tests in accordance with Part 17. The owner/operator shall submit the source test results to the Director of Compliance and Enforcement, the Source Test Manager, and the Manager of Permit Evaluation at the District no later than 60 days after the source test. [BACT, Cumulative Increase]

- 9b. The owner/operator shall measure CO concentrations using a District approved handheld monitor during the first standby mode, startup, and shutdown events after this condition is incorporated into the Title V permit. Thereafter, the owner/operator shall measure CO concentrations using a District approved handheld monitor once every three years to determine CO emission factors during startup, shutdown, and standby mode. The measured CO concentrations and fuel flow data will be used to develop an emission factor or emission factors for CO emissions during startup, shutdown, and standby mode. The owner/operator may record CO concentrations over a period of time and average the concentrations to establish a more representative emission factor for each operational mode. Hand-held portable monitors shall be operated, maintained and calibrated in accordance with manufacturer guidelines.
- 10. The owner/operator shall use only refinery fuel gas and/or natural gas at S45 that does not exceed 100 ppmv total sulfur, averaged over a calendar month. [BACT, Cumulative Increase]
- 11. The owner/operator shall test refinery fuel gas prior to combustion at S45 to determine total sulfur concentration by GC analysis or with a total sulfur analyzer (Houston Atlas or equivalent) at least once per 8-hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. [BACT, Cumulative Increase]
- 12. To demonstrate compliance with Part 10, the owner/operator shall measure and record the daily average sulfur content. The owner/operator shall keep records of sulfur content in fuel gas for at least five years and shall make these records available to the District upon request. [BACT, Cumulative Increase]
- 13. Deleted Application 13427.
- 14. The owner/operator shall record the duration of all startups, shutdowns, standby mode, and heater dryout/warmup periods to determine compliance with parts 4, 5, and 6. The owner/operator shall keep the records for at least five years and shall make these records available to the District upon request. [2-6-503]
- 15. Prior to the commencement of construction, the owner/operator shall submit plans to the District's Source Test Manager to obtain approval of the design and location of the source test ports. The sample ports shall be installed in accordance with Manual of Procedures, Volume 4, Section 1.2.4. (basis: Regulation 1-501)

- 16. No later than 90 days from the startup of S45, the owner/operator shall conduct District-approved source tests to determine initial compliance with the limits in Part 4 for NOx, CO, POC, PM10 and ammonia, and the emission rate of sulfuric acid mist. For PM10, USEPA Methods 201 and 202 with the back-half ammonium sulfate subtracted shall be used. The owner/operator shall conduct the source tests in accordance with Part 17. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. [BACT, Cumulative Increase, Regulation 2, Rule 5]
- 17. The owner/operator shall comply with all applicable requirements for source tests specified in Volume IV of the District's Manual of Procedures and all applicable testing requirements for continuous emissions monitors as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Manager, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. [BACT, Cumulative Increase, Regulation 2, Rule 5]

CONDITION 22963

For Sources S98 (Tank 101), S122 (Tank 167), S128 (Tank 174), S139 (Tank 204); S140 (Tank 205)

This condition was established by Application 13424 in October 2007 and amended by Application 18743 in February 2009.

1. The owner/operator shall ensure that the following tanks contain only petroleum liquids with true vapor pressures less than or equal the vapor pressures below.

	* *		* * *
a.	S98		11 psia October through March
b.	S98		8.5 psia April through September
c.		Deleted.	
d.	S122		11 psia
e.	S128		4.4 psia
[Cumi	ılative Increase]	•

2. The owner/operator shall ensure that the throughput of petroleum liquids at the following tanks do not exceed the following throughput limits.

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    a. S98
    b. S98
    c. Deleted.d. S122 S128
    d. S128
    d. S123,000 barrels October through March 3,723,000 barrels April through September 2,000,000 barrels per consecutive 12-month period
    e. S128
    f. 100,000 per consecutive 12-month period
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[Cumulative Increase]

- 3. The owner/operator shall ensure that S139 and S140 are abated by A7, Vapor Recovery System. [8-5-301, 40 CFR 61, Subpart FF]
- 4. The owner/operator shall equip S98, S122, and S128 with a BAAQMD approved roof with mechanical shoe primary seal and zero gap secondary seal meeting the design

criteria of BAAQMD Regulation 8, Rule 5. The owner/operator shall ensure that there are no ungasketed roof penetrations, no slotted pipe guide poles unless equipped with float and wiper seals, and no adjustable roof legs unless fitted with vapor seal boots or equivalent. [BACT, cumulative increase]

CONDITION 22964

Sources S301, S302, S303, S465, Sulfur Pits, and S1010, Sulfur Recovery Unit

- 1. The owner/operator shall ensure that the throughput of molten sulfur at S301, S302, and S303 combined does not exceed 98,915 long tons per consecutive 12-month period. [Cumulative Increase]
- 2. The owner/operator shall ensure that the throughput of molten sulfur at S465 does not exceed 73,000 long tons per consecutive 12-month period. [Cumulative Increase]
- 3. The owner/operator shall ensure that S465, Sulfur Pit, is controlled at all times by S1010, Sulfur Recovery Unit. [Cumulative increase, 40 CFR 60.104(b)]
- 4. The owner/operator shall ensure that S301, Molten Sulfur Pit, is abated by A8, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]
- 5. The owner/operator shall ensure that S302, Molten Sulfur Pit, is abated by A9, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]
- 6. The owner/operator shall ensure that S303, Molten Sulfur Pit, is abated by A10, Stretford Evaporative Cooler. [Consent Decree Case No. 05-0258, paragraph 123, DATE: 1/27/05; Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07; 40 CFR 60.104(a)(2)(i)]
- 7. Notwithstanding the requirements of parts 4-6, the owner/operator may disconnect the vent lines from S301, S302, and S303, Molten Sulfur Pits, to A8, A9, and A10, Stretford Evaporative Coolers, for periodic maintenance without penalty, as long as the owner/operator takes reasonable measures to minimize emissions while such periodic maintenance is being performed. [Consent Decree Case No. 05-0258 amendment, paragraph 123, DATE: 5/1/07]
- 8. The owner/operator shall maintain monthly records of throughput at S301, S302, and S303 combined. These records shall be maintained on site for a minimum of 5 years and shall be made available to District staff upon request. [Cumulative Increase]

9. The owner/operator shall maintain monthly records of throughput at S465. These records shall be maintained on site for a minimum of 5 years and shall be made available to District staff upon request. [Cumulative Increase]

CONDITION 22965

Source S307, U240 Unicracking Unit

- The owner/operator shall ensure that the combined throughput of S307 and S-434 does not exceed 69,000 barrels/day. [Cumulative Increase]
- 2. The owner/operator shall keep throughput records for this source on a daily basis. The records shall be kept on site for a period of at least 5 years and shall be made available for inspection by District staff upon request. [Cumulative Increase]
- All pressure relief devices on the process unit shall be vented to a fuel gas recovery system, furnace, or flare with a recovery/destruction efficiency of 98% by weight. [8-28-302, BACT]

CONDITION 22966

Source S308, U244 Reforming Unit

- 1. The owner/operator shall ensure that the throughput of S308 does not exceed 18,500 barrels/day.
- 2. The owner/operator shall keep throughput records for this source on a daily basis. The records shall be kept on site for a period of at least 5 years and shall be made available for inspection by District staff upon request. [Cumulative Increase]
- 3. All pressure relief devices on the process unit shall be vented to a fuel gas recovery system, furnace, or flare with a recovery/destruction efficiency of 98% by weight. [8-28-302, BACT]

CONDITION 22967

Source S309, U248 Unisar Unit

- 1. The owner/operator shall ensure that the throughput of S309 does not exceed 16,740 barrels/day.
- 2. The owner/operator shall keep throughput records for this source on a daily basis. The records shall be kept on site for a period of at least 5 years and shall be made available for inspection by District staff upon request. [Cumulative Increase]

CONDITION 22968

Source S339, U80 Gasoline/Mid Barrel Blending

- 1. The owner/operator shall ensure that the throughput of S339 does not exceed 52,600,000 barrels over any rolling 12-month period.
- 2. The owner/operator shall keep throughput records for this source on a daily basis. The records shall be kept on site for a period of at least 5 years and shall be made available for inspection by District staff upon request. [Cumulative Increase]

CONDITION 22969

Source S434, U246 High Pressure Reactor Train (Cracking)

- 1. The owner/operator shall ensure that the throughput of S434 does not exceed 9,855,000 barrels over any rolling 12-month period. [Cumulative Increase]
- 2. The owner/operator shall keep throughput records for this source on a monthly basis. The records shall be kept on site for a period of at least 5 years and shall be made available for inspection by District staff upon request. [Cumulative Increase]
- 3. All pressure relief devices on the process unit shall be vented to a fuel gas recovery system, furnace, or flare with a recovery/destruction efficiency of 98% by weight. [8-28-302, BACT]

CONDITION 22970

A. CFEP Project Mass Emission Limits

1. Following are the sources that are subject to Condition 22970, parts A2, A4, and A.5: S45, Heater (U246 B-801 A/B)

S434, U246 High Pressure Reactor Train (Cracking) S1010, U235 Sulfur Recovery Unit

[Cumulative increase, PSD]

2. The owner/operator shall ensure that the annual emissions of the above sources do not exceed the following annual emission limits, including startup, shutdown, malfunction, and upset emissions.

a. NOx
b. SO2
c. PM10
d. POC
e. CO
13.5 tpy [Cumulative increase]
2.9 tpy [Cumulative increase, PSD]
1.9 tpy [Cumulative increase]
40.72 tpy [Cumulative increase]

f. Sulfuric acid mist 6.01 tpy [PSD]

*g. Ammonia 6.35 tpy [BAAQMD Regulation 2, Rule 5]

3. The owner/operator shall ensure that the daily emissions of the CFEP, including source S2 at Facility B7419, do not exceed the following daily emission limit, including startup, shutdown, malfunction, and upset emissions.

a. Sulfuric acid mist

38 lb/day [PSD]

- 4. The owner/operator shall determine whether the emissions are below the allowable emissions in Part A.2, as shown below. The owner/operator shall calculate and report the emissions of NOX, SO2, PM10, POC, CO, and sulfuric acid mist on an annual basis in the following manner.
 - a. For Source S45, Heater
 - i. Use the mass emissions data generated by the NOx CEM at S45.
 - ii. Use the emissions rates determined by semi-annual source tests for CO at S45.
 - iii. Use the emissions rates determined by initial source test for POC, PM10, and sulfuric acid mist at S45.
 - iv. *Use the emissions rates determined by initial source test for ammonia at S45.
 - v. Use the sulfur analysis of fuel required by Condition 22862, part 11 at S45. [Cumulative increase, PSD, BAAQMD Regulation 2, Rule 5]
 - b. For Source S1010, Sulfur Recovery Unit
 - i. Use the mass emissions data generated by the SO2 and CO CEMs at S1010.
 - ii. Use the emissions rates determined by annual source tests for NOx and sulfuric acid mist at S1010.
 - iii. *Use the emissions rates determined by annual source test for ammonia at \$1010.
 - iv. Use the emissions rates determined by initial source test for POC and PM10 at \$1010.
 - [Cumulative increase, PSD, BAAQMD Regulation 2, Rule 5]
 - c. For the refinery flare S296
 - i. Calculate any emissions caused by venting the contents of any part of the sulfur recovery unit including S1010, A48, and A424 to the refinery flare.
 - ii. Calculate any emissions caused by venting the contents of any part of S434 to a refinery flare.
 - iii. The owner/operator shall calculate any emissions caused by venting the feed to Facility B7419, sources S1 or S2 to the refinery flare.

 [Cumulative increase, PSD, BAAQMD Regulation 2, Rule 5]
- 5. If the annual emissions, as determined in part 4, are above the allowable emissions in part A.2, the owner/operator shall supply additional offsets, where applicable, and perform additional analysis for PSD, if necessary. The results of the analysis shall be submitted to the Director of Compliance and Enforcement on an annual basis on the anniversary of the startup of S1010 or S434, whichever is earlier. [Offset, PSD]
- 6. The annual emissions of the following sources shall not exceed 16.7 tons PM10/yr: S45, S434, and S1010 at Facility A0016, and S2 and S3 at Facility B7419. If the emissions exceed 16.7 tons per year, the owners/operators of Facilities A0016 and B7419 shall provide contemporaneous offsets of PM10 that comply with BAAQMD Regulations 2-2-201 and 2-2-605. The owners/operators shall use the following data to calculate the annual PM10 emissions:
 - a. The emissions rate of PM10 determined by the initial source tests at S45 and S1010 at Facility A0016
 - b. The emissions rate of PM10 determined by the initial source test at S2 at Facility B7419
 - c. The emissions rate of PM10 calculated for venting the contents of any part of S434 to

- a refinery flare
- d. The emissions rate of PM10 calculated for venting the contents of any part of S1010, A48, and A424 to a refinery flare
- e, The emissions rate of PM10 calculated for operation of S3, Hydrogen Plant Flare, at Facility B7419

The results of the analysis shall be submitted to the Director of Compliance and Enforcement on an annual basis on the anniversary of the startup of S1010 or S434 at Facility A0016 or S2 at Facility B7419, whichever is earlier. [1-104, 2-2-304]

CONDITION 23125

Source S1010, U235 Sulfur Recovery Unit, S503, Sulfur Storage Tank, S504, Sulfur Degassing Unit, S505, Sulfur Truck Loading Rack

For the purposes of this condition, total reduced sulfur shall mean dimethyl disulfide, dimethyl sulfide, hydrogen sulfide, and methyl mercaptan; and reduced sulfur compounds shall mean hydrogen sulfide, carbonyl sulfide, and carbon disulfide.

- 1. The owner/operator shall ensure that the throughput of molten sulfur at S1010 does not exceed 200 long tons/day. [Cumulative Increase]
- 2. The owner/operator shall ensure that the throughput of molten sulfur at S503 does not exceed 471 long tons/day. [Cumulative Increase]
- 3. The owner/operator shall ensure that S1010 is abated at all times of operation by A48, SRU Tail Gas Treatment Unit, and A424, Incinerator. [Cumulative Increase]
- 4. The owner/operator shall ensure that \$503, Sulfur Storage Tank, \$504, Sulfur Degassing Unit, and \$505, Sulfur Truck Loading Rack, are controlled at all times of operation by the Claus reaction furnace at \$1010 or \$1003, Sulfur Recovery Units. [Cumulative Increase, 2-1-305]
- 5. All pressure relief devices on S1010 shall be vented to a fuel gas recovery system, furnace, or flare with a recovery/destruction efficiency of 98%. [8-28-302, BACT]
- 6. The owner/operator shall ensure that the supplemental fuel used at A424, Tail Gas Incinerator, is PUC quality natural gas. [BACT]
- 7. The owner/operator shall not exceed the following emission concentrations from \$1010/A48/A424:
 - a. SO2 50 ppmv, dry, @ 0% O2, 24-hour basis. [BACT]
 - b. CO 75 ppmvd, dry, @ 7% O2, 1-hour basis. [BACT]
 - c. NOx 42.2 ppmv, dry, @ 7% O2, 1-hour basis. [BACT]

- *8. The owner/operator shall not exceed the following emission concentrations from \$1010/A48/A424:
 - a. NH3 12.5 ppmv @ 7% O2, 24-hour basis [Regulation 2, Rule 5]
 - b. H2S: 2.5 ppmv @ 0% O2, 24-hour basis [Regulation 2, Rule 5]
- 9. The owner/operator shall not exceed the following hourly limits from S1010/A48/A424:
 - a. NOx: 8.0 lb/hr [2-1-305]
 - *b. H2S: 0.23 lb/hr [Regulation 2, Rule 5]
 - *c. NH3: 0.88 lb/hr [Regulation 2, Rule 5]
- 10. The owner/operator shall ensure that daily emissions, including startups, shutdowns, upsets, and malfunctions, from S1010/A48/A424 do not exceed the following limits:
 - a. Sulfuric acid mist: 31 lb/day [PSD]
 - b. PM10: 9.5 lb/day [2-1-301]
- 11. The owner/operator shall ensure that that annual emissions, including startups, shutdowns, upsets, and malfunctions, from S1010/A48/A424, do not exceed the following limits per any consecutive 12-month period:
 - a. SO2: 29.7 tons [BACT, Cumulative Increase]
 b. NH3: 3.85 tons [Regulation 2, Rule 5]
 c. CO: 37.9 tons [BACT, Cumulative Increase]
 - c. CO: 37.9 tonsd. NOx: 11.2 tons [BACT, Cumulative Increase]
 - e. POC: 0.43 tons [Cumulative Increase] f. PM10: 1.19 tons [Cumulative Increase]
 - g. Sulfuric acid mist: 5.65 tons [2-1-301]
 - *h. H2S: 0.975 tons [Regulation 2, Rule 5]
 - i. Total Reduced Sulfur: 10 tons [PSD]
 - j. Reduced Sulfur Compounds: 10 tons [PSD]
 - k. H2S: 10 tons [PSD]
- 12. Prior to the commencement of construction, the owner/operator shall submit plans to the District's Source Test Division to obtain approval of the design and location of the source test ports. The sample ports shall be installed in accordance with Manual of Procedures, Volume 4, Section 1.2.4. Ports for filterable particulate and PM10 testing shall be installed. [basis: Regulation 1-501]
- 13. No later than 90 days from the startup of S1010, the owner/operator shall conduct District-approved source tests to determine (1) initial compliance with the limits in Parts 7, 8, 9, and 13 for NOx, CO, POC, PM10, SO2, sulfuric acid mist, H2S, ammonia, (2) the BAAQMD Regulation 6 requirements below, and (3) the emission rates in lbs/dry standard cubic foot of NOx, POC, PM10, sulfuric acid mist, NH3, H2S, and reduced sulfur compounds. The owner/operator shall conduct the source tests in accordance with Part 19. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. During the source test, the owner/operator shall determine the temperature required to achieve an outlet concentration of 2.5 ppmv H2S @ 0% O2, mass emissions of 0.23 lb/hr of H2S, mass emissions of 2.2 lb/hr of reduced sulfur compounds,

and 2.2 lb/hr of total reduced sulfur, while meeting all other limits. The temperature shall become an enforceable limit.

- a. BAAQMD Regulation 6-1-310.1 and SIP Regulation 6-310: 0.15 gr PM/dscf
- b. BAAQMD Regulation 6-1-311.1 and SIP Regulation 6-311: PM emissions based on Process Rate Weight
- c. BAAQMD Regulation 6-1-330 and SIP Regulation 6-330: SO3 and H2SO4 limit Compliance with the 24-hour H2S and NH3 concentration limits shall be shown using three 30-minute runs as provided by the test method, unless the owner/operator chooses to run the test for 24 hours. If the rate of reduced sulfur compounds, including H2S, exceeds 2.2 lb/hr, or if the rate of total reduced sulfur, including H2S, exceeds 2.2 lb/hr, the District reserves the right to require additional PSD analysis or to impose a higher temperature limit for A424, Incinerator, to control total reduced sulfur and reduced sulfur compounds. [BACT, Cumulative Increase; Regulation 2, Rule 5; BAAQMD Regulation 6; PSD, 40 CFR 64.6(d)]
- 14. After the initial source test required in part 13 of this condition, the owner/operator shall ensure that the minimum temperature of A424 shall not be lower than 1409 F. [Offsets, 40 CFR 64]
- 15. To determine compliance with the temperature limit in part 14, A424, Thermal Oxidizer, shall be equipped with a temperature measuring device capable of continuously measuring and recording the temperature in A424. The temperature monitor shall be installed prior to startup. The owner/operator shall install, and maintain in accordance with manufacturer's recommendations, a temperature measuring device that meets the following criteria: the minimum and maximum measurable temperatures with the device are 0 degrees F and 2,300 degrees F, respectively, and the minimum accuracy of the device over this temperature range shall be 1.0 percent of full-scale. [Regulation 1-521, 40 CFR 64.6(d)]
- 16. The temperature limit in part 14 shall not apply during an "Allowable Temperature Excursion", provided that the temperature controller setpoint complies with the temperature limit. For the purposes of parts 16 and 17 of this condition, a temperature excursion refers only to temperatures below the limit. An Allowable Temperature Excursion is one of the following:
 - a. A temperature excursion not exceeding 20 degrees F; or
 - b. A temperature excursion for a period or periods which when combined are less than or equal to 15 minutes in any hour; or
 - c. A temperature excursion for a period or periods which when combined are more than 15 minutes in any hour, provided that all three of the following criteria are met.
 - i. the excursion does not exceed 50 degrees F;
 - ii. the duration of the excursion does not exceed 24 hours; and
 - iii. the total number of such excursions does not exceed 12 per calendar year (or any consecutive 12 month period).

Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. [Regulation 2-1-403]

17. For each Allowable Temperature Excursion that exceeds 20 degrees F and 15 minutes in

duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

- a. Temperature controller setpoint;
- b. Starting date and time, and duration of each Allowable Temperature Excursion;
- c. Measured temperature during each Allowable Temperature Excursion;
- d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year; and
- e. All strip charts or other temperature records.

[Regulation 2-1-403]

- 18. For the purposes of parts 16 and 17 of this condition, a temperature excursion refers only to temperatures below the limit. (Basis: Regulation 2-1-403)
- 19. The owner/operator shall submit protocols for all source test procedures to the District's Source Test Section at least three weeks prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements for continuous emissions monitors as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section, in writing, of the projected test dates at least 7 days prior to testing.
 - [BACT, Cumulative Increase; Regulation 2, Rule 5]
- 20. The owner/operator shall perform an annual District-approved source test to verify compliance with the following requirements. A copy of the source test results shall be provided to the District Director of Compliance and Enforcement within 60 days of the test.
 - a. BAAQMD Regulation 6-1-310.1 and SIP Regulation 6-310: 0.15 gr PM/dscf
 - b. BAAQMD Regulation 6-1-311.1 and SIP Regulation 6-311: PM emissions based on Process Rate Weight
 - c. BAAQMD Regulation 6-1-330 and SIP Regulation 6-330: SO3 and H2SO4 limit
 - d. Emission rates in parts 7c, 8a, 8b, 9a, 9b, and 9c of this condition.
 - e. Emission rates of sulfuric acid mist, total reduced sulfur, and reduced sulfur compounds

Compliance with the 24-hour H2S concentration limit shall be shown using three 30-minute runs as provided by the test method, unless the owner/operator chooses to run the test for 24 hours. [BACT; BAAQMD Regulation 6, Rule 1; SIP Regulation 6; PSD; Regulation 2, Rule 5; Cumulative increase]

21. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor (CEM) and recorder for exhaust gas flowrate, SO2 and O2. The CEM shall be installed prior to startup. The owner/operator shall keep exhaust gas flow, SO2 and O2 data for at least five years and shall make these records available to the District upon request. The owner/operator shall measure SO2 concentration and mass emissions on a clock-hour basis. The monitors shall comply with the requirements of 40 CFR 60.105, 40 CFR 63.1572, and the District's Manual of Procedures, Volume 5. [BACT, Cumulative Increase, 40 CFR 60.105a; 40 CFR 64.6(c)(1), (c)(3), and (d); 40 CFR 63.1568(a)(1)(i)]

- 22. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor (CEM) and recorder for exhaust gas flow and CO. The CEM shall be installed prior to startup. The CEM shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. The owner/operator shall keep flow and CO data for at least five years and shall make these records available to the District upon request. The owner/operator shall measure CO concentration and mass emissions on a clock-hour basis. The monitors shall comply the requirements of the District's Manual of Procedures, Volume 5. [BACT, Cumulative Increase; 40 CFR 64.6(c)(1) and (d)]
- 23. Deleted Application 13427
- 24. The owner/operator shall keep throughput records for sources S1010 and S503 on a daily basis. The records shall be kept on site for a period of at least 5 years and shall be made available for inspection by District staff upon request. [Cumulative Increase]
- 25. The owner/operator shall use the source tests required in parts 13 and 20 to determine compliance with the daily limit in part 10 and the annual limits in parts 11b, 11d, 11e, 11f, 11h, and 11i. At the end of every month, the owner/operator shall summarize the exhaust gas flow in dry standard cubic feet for the month and shall calculate the estimated emissions of each pollutant for the previous consecutive 12-month period and for H2S for each day of the month using the emission rate determined in the last source test. The summaries and calculations shall be completed within 60 days of the end of each month. Alternately, the owner/operator may establish a daily and monthly exhaust gas flow level after each source test that will ensure compliance with the daily and annual limits. In this case, the owner/operator will log the daily and monthly exhaust gas flows from \$1010/A48/A424. [Cumulative increase; Regulation 2, Rule 5; Cumulative Increase, PSD]
- The Owner/Operator shall perform a visible emissions check on Source S1010 on a 26. monthly basis. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the owner/operator shall have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures outlined in the CARB manual, "Visible Emissions Evaluation" for six (6) minutes within three (3) days and record the results of the reading. If the reading is in compliance with the Ringelmann 1.0 limit in BAAQMD Regulation 6-1-301, the reading shall be recorded and the owner/operator shall continue to perform a visible emissions check on a monthly basis. If the reading is not in compliance with the Ringelmann 1.0 limit in BAAQMD Regulation 6-1-301, the owner/operator shall take corrective action and report the violation in accordance with Standard Condition 1.F of the Title V permit. The certified smoke-reader shall continue to conduct the Method 9 or CARB Visible Emission Evaluation on a daily basis until the daily reading shows compliance with the applicable limit or until the equipment is shut down. Records of visible emissions checks and opacity readings made by a CARB-certified smoke reader shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: BAAQMD Regulations 6-1-301, 2-1-403; SIP Regulation 6]

Additional CAM conditions:

- 27. The owner/operator shall develop specifications for the location and installation of the temperature monitor to ensure that the temperature data is representative of the concentration of H2S, reduced sulfur compounds, and total reduced sulfur. [40 CFR 64.3(b)(1)]
- 28. The owner/operator shall develop verification procedures to confirm the operational status of the temperature monitoring prior to the date that monitoring must be conducted. [40 CFR 64.3(b)(2)]
- 29. The owner/operator shall develop quality assurance and control practices for the temperature monitoring. [40 CFR 64.3(b)(3)]
- 30. The owner/operator shall record the temperature at least 4 times per hour in a computerized data acquisition system, except during times of temperature monitor malfunction that comply with BAAQMD Regulation 1-523. [40 CFR 64.3(b)(4)]
- 31. The owner/operator shall determine that an exceedance of the temperature limit has occurred when the temperature drops below the limit set in accordance with part 13 of this condition; except that a limited number of excursions may occur without penalty in accordance with parts 16 through 18 of this condition. [40 CFR 64.6(c)(2)]

CONDITION 23724

For Sources S135 (Tank 200), S137 (Tank 202), S139 (Tank 204), S140 (Tank 205), S168 (Tank 269), S173 (Tank 280), S174 (Tank 281), S175 (Tank 284), S182 (Tank 294), S360 (Tank 223), S445 (Tank 271), S449 (Tank 285), S506 (Tank 257), Tank 235, and Tank 236.

This condition was imposed by Application 13424 and amended by Application 16940 in January 2008, and Application 13427 in 2009.

- 1a. The owner/operator shall ensure that all sources subject to this permit condition are abated by A7, Vapor Recovery System at all times of operation except for the following sources, which shall be controlled according to the schedule below:
 - 1. S168
 - 2. S173
 - 3. S174
 - 4. S506

S168 shall be abated by A7 and subject to the terms of this condition prior to the startup of S434

S173 and S174 shall be abated when blanketing is required to preserve product or feed. S506 shall be abated by A7 and subject to the terms of this condition upon the date of startup.

[Basis: Regulation 2-1-403]

1b. The owner/operator shall ensure that a fourth compressor is added to A7, Odor Abatement

System, before more than two of the following sources are controlled by A7: S168, S173, S174, S175, S506. [Basis: Regulation 2-1-301, 2-1-305, 2-1-403, CEQA]

- 1c. The new odor abatement compressor, or a dedicated compressor, shall be designed and installed to supplement G-503, Flare Gas Recovery Compressor. [CEQA]
- 2. The owner/operator shall ensure that all tanks subject to this permit condition are blanketed by utility-grade natural gas. [Basis: Regulation 2-1-403]
- 3. By July 5, 2009, the owner/operator shall equip all tanks subject to this permit condition except S506 with District-approved pressure monitoring devices. Upon startup, the owner/operator shall equip S506 with a District-approved pressure-monitoring device. [Basis: Regulation 2-1-403]
- 4. After the pressure monitoring devices are installed, the owner/operator shall ensure that tanks listed below operate at all times below their respective minimum set pressures, as shown in 4a and 4b of this condition. Any recorded pressure in excess of the minimum pressure shall be reported to the District's Enforcement and Engineering Divisions within 10 days of the pressure excess. The owner/operator must conduct an investigation of the incident to determine if the pressure excess resulted in the pressure/vacuum (PV) valve lifting to atmosphere and if so, why there was a pressure excess that resulted in the PV valve lifting to atmosphere. Results of the investigation must be reported to the District's Enforcement and Engineering Division within 30 days of the initial report. Any recorded pressure in excess of the minimum set pressure shall be considered an indication of a valve lift to atmosphere unless a District approved tell-tale indicator on the PV valve shows that the valve did not lift, or the owner/operator demonstrates to the satisfaction of the APCO that the recorded pressure excess was the result of a monitoring, recording or other malfunction.

The minimum set pressure for each storage tank, except S139, S140, S182, S360, S445, S449, must be submitted in a report to the District's Enforcement and Engineering Divisions within 21 months of issuance of the Authority to Construct.

a. Source Number	Minimum Set Pressure (inches H2O)
135	1.7
137	1.7
139	1.9
140	1.9
168	1.8
182	1.8
360	1.9
445	1.9
449	1.5
506	2.2

The owner/operator shall submit an accelerated permit application to include any change to any

of the pressures above. Any amendment to the Title V permit to include the pressures above shall be submitted as a minor revision to the Title V permit.

[Basis: Regulation 8, Rule 5]

b.

Source Number	Minimum Set Pressure (inches H2O)
173	1.8
174	1.8
175	1.3
Tank 235	2.2
Tank 236	2.2

The owner/operator shall submit an accelerated permit application to include any change to any of the pressures above. Any amendment to the Title V permit to include the pressures above shall be submitted as a minor revision to the Title V permit.

[Basis: Regulation 2-1-403]

5. The owner/operator shall ensure that each pressure relief valve for each tank must be set at or above its nominal set pressure listed in Part 4 of this permit condition. [Basis: Regulation 2-1-403]

6. Corrective Plan

The corrective plan is a means for Phillips 66 to correct occasional exceedances, to stay within the working pressure limits and thus to remain in compliance with District Regulations. If a PV valve has been determined to have lifted three times in a 12 month period, Phillips 66 shall implement abatement measures to prevent the recurrence of the type of incident which caused the valve to lift. This plan is intended to provide a mechanism for bringing Phillips 66 back into compliance should a temporary exceedance occur. This plan does not constitute an alternative means of compliance. [Basis: Regulation 2-1-403]

- a. If, during any consecutive 12-month period, more than three instances of a PV valve release to atmosphere attributed to a storage tank subject to this permit condition are reported, Phillips 66 shall propose a method to correct the exceedance and to ensure compliance with District regulations and permit conditions. The proposed method is subject to approval by the Air Pollution Control Officer. Potential methods include but are not limited to increasing the nominal set pressure of the pressure/vacuum valve, bladder tank(s) for additional short-term vapor storage capacity, dedicated vapor recovery flare, pilot control on pressure relief valves, flow meters on vapor recovery tanks to monitor blanket gas flows, replacement of tanks, and naphtha degassers. [Basis: Regulation 2-1-403]
- 7. To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including, but not necessarily limited to the following information:
- a. Pressure measurements from tanks listed in part 4 of this condition. Pressure shall be recorded at least for one-minute interval for each tank, except as allowed in BAAQMD Regulation 1-523 for parametric monitors. The owner/operator shall maintain a reasonable stock of spare parts for the components of the monitoring system to ensure that repairs are completed as quickly as possible.

All records shall be retained on site for five years, from the date of entry and made available for inspection by the District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District regulation. [Basis: Regulation 2-1-403]

- 8. The requirement to report pressures in excess of the minimum pressure as described in part 4 of this permit condition, shall start on July 5, 2009 for all tanks in this condition except S139, S140, S182, S360, S445, S449. The requirement to report pressures in excess of the minimum pressure as described in part 4 of this permit condition, shall start on January 5, 2008 for the following tanks: S139, S140, S182, S360, S445, S449. [Basis: 2-1-403]
- 9. The permit to operate is contingent upon compliance with Regulation 1-301, Standard for Public Nuisance, and Regulation 7, Odorous Substances. Upon receipt of a violation for either of these regulations, the Air Pollution Control Officer may require the owner/operator to install additional emission control measures as stated in Part 6 of this permit condition. [Basis: Regulations 1-301, 7-301, 7-302]

CONDITION 24532

For S507 (Tank 21)

- 1. The owner/operator shall ensure that S507 stores only petroleum liquids with a True vapor pressure less than 11 psia. [Basis: Cumulative Increase, Offsets, Regulation 8-5-301]
- 2. The owner/operator shall ensure that S507 is equipped with a pressure vacuum valve with a setting of at least 25.8 mm Hg (0.5 psig). [Basis: Regulation 8-5-303.1]
- 3. The owner/operator shall ensure the throughput of petroleum liquids at S507 is less than 9,883 gallons in any consecutive twelve-month period. [Basis: Cumulative Increase, Offsets]
- 4. The owner/operator shall ensure that total POC emissions based on the maximum throughput in Part 1, do not exceed 218 pounds in any consecutive twelve-month period. [Basis: Cumulative Increase, Offsets]
- 5. In order to demonstrate compliance with Part 3, the owner/operator of tank S507 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive twelve-month basis in a District approved log, or shall be able to generate these records within three business days. These records shall be kept on site and made available for District inspection for a period of five years from the date that the record was made. [Basis: Cumulative Increase, Recordkeeping]

CONDITION 25223

For Source S340 (Tank 108)

- 1. The total throughput of crude oil shall not exceed 10 million barrels in any rolling continuous 12 month period. [Cumulative Increase]
- 2. The tank shall only store crude oil or petroleum liquids with a true vapor pressure of 3.0 psia or less. [BACT]
- 3. The owner/operator shall operate S340 with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. The owner/operator shall equip S340 with a BAAQMD approved roof with liquid mounted primary seal that meets the design criteria of BAAQMD Regulation 8-5-321.3 and secondary seal that meets the design criteria of BAAQMD Regulation 8-5-322.5. The owner/operator shall ensure that there are no ungasketed roof penetrations, no slotted pipe guide poles unless equipped with float and wiper seals, and no adjustable roof legs unless fitted with vapor seal boots or equivalent. [BACT, cumulative increase]
- 4. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

CONDITION 25477

For Source S97 (Tank 100)

- 1. The total throughput of crude oil shall not exceed 15.571 million barrels in any rolling continuous 12 month period. The tank shall only store crude oil. [BACT, Cumulative Increase]
- 2. The owner/operator shall operate S97 with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. The owner/operator shall equip S97 with a BAAQMD approved roof with liquid mounted primary seal that meets the design criteria of BAAQMD Regulation 8-5-321.3 and secondary seal that meets the design criteria of BAAQMD Regulation 8-5-322.5. The owner/operator shall ensure that there are no ungasketed roof penetrations, no slotted pipe guide poles unless equipped with float and wiper seals, and no adjustable roof legs unless fitted with vapor seal boots or equivalent. [BACT, Cumulative increase]
- 3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

CONDITION 25478

For Source S261 (Tank 1010)

1. The total throughput of gas oil shall not exceed 5.476 million barrels in any rolling continuous 12 month period. The tank shall only store gas oil, naphtha, or distillate oil. [Cumulative Increase]

- 2. The owner/operator shall operate S261 with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. The owner/operator shall equip S261 with a BAAQMD approved roof with liquid mounted primary seal that meets the design criteria of BAAQMD Regulation 8-5-321.3 and secondary seal that meets the design criteria of BAAQMD Regulation 8-5-322.5. The owner/operator shall ensure that there are no ungasketed roof penetrations, no slotted pipe guide poles unless equipped with float and wiper seals, and no adjustable roof legs unless fitted with vapor seal boots or equivalent. [Cumulative increase]
- 3. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

CONDITION 26069

For Source S-324 (Oil/Water Separator)

- 1. The owner/operator shall not allow emissions from A-53 to exceed the following emission limits: NOx 0.64 lb/hour, CO 1.7 lb/hour. The owner/operator shall operate A-53 to meet the following VOC destruction efficiency requirements:
 - a. A-53 outlet VOC concentration of 10 ppmv or less; or
 - b. All of the following standards depending on the applicable A-53 inlet VOC concentration:
 - c. VOC destruction efficiency >= 98.5% if A-53 inlet VOC concentration > 2,000 ppmv;
 - d. VOC destruction efficiency >= 97% if A-53 inlet VOC concentration <= 2,000 ppmv; (basis: Cumulative Increase, Regulation 8-8-302.3)
- 2. The owner/operator shall operate A-53 to be at least 1400 degrees F. The District may adjust this minimum temperature, if source test data demonstrates that an alternate temperature is necessary for or capable of maintaining compliance with Part 2 above. (basis: Cumulative Increase)
- 3. The temperature limit in Part 3 shall not apply during an "Allowable Temperature Excursion", provided that the temperature controller setpoint complies with the temperature limit. An Allowable Temperature Excursion is one of the following:
 - a. A temperature excursion not exceeding 20 degrees F; or
 - b. A temperature excursion for a period or periods which when combined are less than or equal to 15 minutes in any hour; or
 - c. A temperature excursion for a period or periods which when combined are more than 15 minutes in any hour, provided that all three of the following criteria are met.
 - i. the excursion does not exceed 50 degrees F;
 - ii. the duration of the excursion does not exceed 24 hours; and
 - iii. the total number of such excursions does not exceed 12 per calendar year (or any consecutive 12 month period). Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12-excursion limit. (basis: Regulation 2-1-403)
- 4. For each Allowable Temperature Excursion that exceeds 20 degrees F and 15 minutes in

duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

- a. Temperature controller setpoint;
- b. Starting date and time, and duration of each Allowable Temperature Excursion;
- c. Measured temperature during each Allowable Temperature Excursion;
- d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year; and
- e. All strip charts or other temperature records.

(basis: Regulation 2-1-403)

- 1. To determine compliance with the temperature requirement in these permit conditions, the owner/operator of A-53 shall be equipped with a temperature measuring device capable of continuously measuring and recording the temperature in A-53. The owner/operator shall install, and maintain in accordance with manufacturer's recommendations, a temperature measuring device that meets the following criteria: the minimum and maximum measurable temperatures with the device are 200 degrees F and 1900 degrees F, respectively, and the minimum accuracy of the device over this temperature range shall be 1.0 percent of full-scale. (basis: Cumulative Increase)
- 6. Within 90 days of startup of A-53, the owner/operator shall conduct District approved source tests to determine initial compliance with the limits in part 2. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. (basis: Cumulative Increase)
- 7. The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. (basis: Cumulative Increase)
- 8. The owner/operator of A-53 shall maintain records of hours of operation, oxidizer temperature, and source test results in a District approved log for at least 5 years from the date of entry. These records shall be made available to District staff upon request. (basis: Cumulative Increase, Recordkeeping)

CONDITION 26535

For S1012 (Fire Training Fluid Tank)

1. The owner/operator of S-1012 shall not exceed the following throughput limits during any consecutive twelve-month period:

E-111 Industrial Grade Fire Training Liquid

8000 Gallons

(Basis: Cumulative Increase)

2. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1, provided that the owner/operator can

demonstrate that all of the following are satisfied:

- a. Total POC emissions from S-1012 do not exceed 820 pounds in any consecutive twelvemonth period; and
- b. The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.

(Basis: Cumulative Increase; Toxics)

- 3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
 - a. Quantities of each type of liquid stored at this source on a monthly basis.
 - b. If a material other than those specified in Part 1 is stored, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.
 - d. Demonstration that any toxic air contaminants in alternate liquids stored in Part 2, do not exceed the acute and chronic trigger levels by calculating toxic air contaminant emissions on a lb/hour and lb/year basis, respectively.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Cumulative Increase; Toxics)

CONDITION 26689

For S126 Tank 172

1. The owner/operator of S-126 shall ensure that following total throughput limits are not exceeded in any rolling consecutive 12 month period:

594,845 barrels of petroleum liquids.

[Basis: Cumulative Increase]

2. The owner/operator shall only store the following in S-126:

Petroleum liquids with a Reid vapor pressure less than or equal to 9 psia.

[Basis: Cumulative Increase]

3. Monthly records of the throughput of each material and its vapor pressure processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Basis: Cumulative Increase]

CONDITION 26690

S341 Tank 208

1. The owner/operator of S-341 shall ensure that following total throughput limits are not exceeded in any rolling consecutive 12 month period: 1,819,583 barrels of petroleum liquids.

Facility Name: Phillips 66 Company – San Francisco Refinery
Permit for Facility #: A0016

VII. Applicable Limits and Compliance Monitoring Requirements

[Basis: Cumulative Increase]

2. The owner/operator shall only store the following in S-341:

Petroleum liquids with a true vapor pressure less than or equal to 3.0 psia.

[Basis: Cumulative Increase]

3. Monthly records of the throughput of each material and its vapor pressure processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Basis: Cumulative Increase]

CONDITION 26691

S342 Tank 209

1. The owner/operator of S-342 shall ensure that following total throughput limits are not exceeded in any rolling consecutive 12 month period:

2,407,700 barrels of petroleum liquids

[Basis: Cumulative Increase]

2. The owner/operator shall only store the following in S-342:

Petroleum liquids with a true vapor pressure less than or equal to 0.5 psia.

[Basis: Cumulative Increase]

3. Monthly records of the throughput of each material and its vapor pressure processed at this tank shall be kept in a District- approved log for at least 5 years and shall be made available to the District upon request. [Basis: Cumulative Increase]

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), semi-annual (SA), hourly (H), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

Table VII – All Sources Facility-Specific Generally Applicable Requirements

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
HAP	40 CFR	Y		wastewater standards of 40	40 CFR	P/A	report
	63.647(a)			CFR 61.340 to 61.355 are	63.655(a)		
				applicable			
Benzene		Y		Benzene Waste NESHAPS	40 CFR 61,	P/A	report
in waste				Annual Report	Subpart FF,		
					61.357(d)(2)		
Benzene	40 CFR 61,	Y		Benzene < 6 Mg/yr	40 CFR 61,	P/A	report
in waste	Subpart FF,				Subpart FF,		records
	61.342(e)(2				61.357(d)(5)		
)(i)				61.356(b)(4)		
Benzene		Y		Benzene Waste NESHAPS	40 CFR 61,	P/Q	report
in waste				Quarterly Report	Subpart FF,		
					61.357(d)(6)		
					61.357(d)(7)		
VOC	BAAQMD	Y		emission streams with 15	None	N	None
	8-2-301			lb/day AND 300 ppm total			
				carbon on a dry basis			
				prohibited			
VOC	BAAQMD	N		5 ton/yr per solvent, surface	None	N	None
	8-4-302.1			coating source			
	and						
	SIP 8-4-302						
		Y					
VOC	BAAQMD	Y		Tank cleaning degassing or	BAAQMD	P/A	source test
	8-5-328.2			control device standard	8-5-502.2		
	and 8-5-331			includes 90% abatement			
				efficiency requirement			
VOC	BAAQMD	N		Tank cleaning agents	BAAQMD	N	Sample
	8-5-331.1			IBP > 302 deg F; or	8-5-331.1		analysis
				TVP < 0.5 psia; or			
				VOC < 50 grams/liter			
VOC	BAAQMD	N		Tank sludge container	BAAQMD	N	None
	8-5-332			standards; includes gap	8-5-332		
				criteria			

Table VII – All Sources Facility-Specific Generally Applicable Requirements

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
VOC	40 CFR	Y		VOC concentrations shall	40 CFR	P/Q-visual	Visual
	60.112b(a)			not exceed 500 ppmv above	63.642(e),	and A	inspections,
	(2) and			background	63.642(f) and	measure-	portable HC
	63.647(a)				63.655(i)(4)	ments and	detector
						reports	(EPA
							Method 21)
							and records
							of detectable
							emissions,
							inspections
							and repairs
Opacity	BAAQMD	N		Ringelmann No. 1 for no	None	N	None
	6-1-301			more than 3 minutes/hour			
Opacity	SIP	Y		Ringelmann No. 1 for no	None	N	None
	6-301			more than 3 minutes/hour			
FP	BAAQMD	N		Prohibition of nuisance	None	N	None
	6-1-305						
FP	SIP	Y		Prohibition of nuisance	None	N	None
	6-305						
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None
	6-1-310.1				gaseous fired		
					sources		
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None
	6-310.3				gaseous fired		
					sources		
FP	BAAQMD	N		Table 6-1-311.1	None for	N	None
	6-1-311.1				gaseous fired		
					sources		
FP	SIP	Y		No emissions from source >	None for	N	None
	6-311			rate specified in rule	gaseous fired		
					sources		

Table VII – All Sources Facility-Specific Generally Applicable Requirements

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
SO2	BAAQMD	Y		ground level SO2	at the request	C	SO2 GLM
	9-1-301			concentrations (0.5 ppm for	of the		
				3 min; 0.25 ppm for 60	District,		
				min; 0.05 ppm for 24 hr)	9-1-501		
					requires		
					compliance		
					with		
					BAAQMD		
					1-510		
SO2	BAAQMD	N		operation of a sulfur	None	N	
	9-1-313.2			removal and recovery			
				system that removes and			
				recovers: 95% of H2S from			
				refinery fuel gas, 95% of			
				H2S and ammonia from			
				process water streams;			
				operation of a sulfur			
				recovery plant			
SO2	SIP	Y		operation of a sulfur	None	N	
	9-1-313.2			removal and recovery			
				system that removes and			
				recovers: 95% of H2S from			
				refinery fuel gas, 95% of			
				H2S and ammonia from			
				process water streams			
H2S	BAAQMD	N		Ground level concentrations	BAAQMD	С	Area Monitoring
	9-2-301			< 0.06 ppm averaged over 3	9-2-501,		Monitoring
				consecutive minutes or <	1-510, 1-530		
				0.03 ppm averaged over	1-540, 1-542,		
				any 60 consecutive minutes	1-543 and		
					1-544		

$\label{eq:continuous_equation} Table~VII-A.1 \\ Applicable~Limits~and~Compliance~Monitoring~Requirements$

S2 – UNIT 229, B-301 HEATER

S4 – Unit 231. B-101 Heater

S5 – UNIT 231, B-102 HEATER

			Future	01(11 201, 10 102 112)	Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	P/A	source test
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 7		
NOx	BAAQMD	Y		Federal emissions:	None	N	None
	9-10-303			Refinery-wide emissions:			
				0.20 lb NOx/MMbtu			
Heat input	BAAQMD	Y		528 MMbtu/day at S2	BAAQMD	P/D	records
	Condition			2,304 MMBtu/day at S4	Condition		
	1694, Part			2,496 MMBtu/day at S5	1694, Part		
	A.1b				A.5		
Heat input	BAAQMD	Y		346.5 MMbtu/hr averaged	BAAQMD	P/M	records
	Condition			over any year at S2, S3,	Condition		
	1694, Part			S4, S5, S7	1694, Part F.3		
	F.2						
O2		N		No limit	BAAQMD	С	O2 Monitor
					9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 2		
CO	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/A	source test
	9-10-305				9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 7		
Opacity	BAAQMD	N		Ringelmann 1 for no more	None	N	None
	6-1-301			than 3 minutes in any hour			

$\label{eq:continuous_problem} Table~VII-A.1 \\ Applicable~Limits~and~Compliance~Monitoring~Requirements$

S2 – UNIT 229, B-301 HEATER

S4 – Unit 231. B-101 Heater

S5 – UNIT 231, B-102 HEATER

			Future	C1411 231, D 102 11E/1	Monitoring	Monitoring	
TD 0	au u				S		3.5
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	SIP	Y		Ringelmann No. 1 for no	None	N	None
	6-301			more than 3 minutes/hour			
FP	BAAQMD	N		Prohibition of nuisance	None	N	None
	6-1-305						
FP	SIP	Y		Prohibition of nuisance	None	N	None
	6-305						
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None
	6-1-310.1				gaseous fired		
					sources		
FP	BAAQMD	Y		0.15 grain/dscf @ 6% O2	None for	N	None
	6-310.1				gaseous fired		
					sources		
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS
	Condition			month from non-	Condition	per day	analysis
	1694, Part			cogeneration sources	1694, Part		
	A.4				A.3a		
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf)			
Fuel Flow		Y		No limit	BAAQMD	С	Fuel
					9-10-502.2		Flowmeter

Table VII – A.2

Applicable Limits and Compliance Monitoring Requirements

S3 – UNIT 230, B-201 HEATER

S3 – UNIT 230, B-201 HEATER									
			Future		Monitoring	Monitoring			
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring		
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type		
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	P/SA	source test		
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1				
					BAAQMD				
					Condition				
					21235, Part 7				
NOx	BAAQMD	Y		Federal emissions:	None	N	None		
	9-10-303			Refinery-wide emissions:					
				0.20 lb NOx/MMbtu					
Heat input	BAAQMD	Y		1,272 MMbtu/day	BAAQMD	P/D	records		
	Condition				Condition				
	1694, Part				1694, Part				
	A.1a				A.5				
Heat input	BAAQMD	Y		346.5 MMbtu/hr averaged	BAAQMD	P/M	records		
	Condition			over any year at S2, S3,	Condition				
	1694, Part			S4, S5, S7	1694, Part F.3				
	F.2								
O2		N		No limit	BAAQMD	С	O2 Monitor		
					9-10-502.1				
					BAAQMD				
					Condition				
					21235, Part 2				
СО	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test		
	9-10-305				9-10-502.1				
					BAAQMD				
					Condition				
					21235, Part 7				
Opacity	BAAQMD	N		Ringelmann 1 for no more	None	N	None		
	6-1-301			than 3 minutes in any hour					
				(gaseous fuel firing)					

Table VII – A.2

Applicable Limits and Compliance Monitoring Requirements
S3 – Unit 230, B-201 Heater

S3 – UNIT 230, B-201 HEATER										
			Future		Monitoring	Monitoring				
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring			
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type			
Opacity	SIP	Y		Ringelmann 1 for no more	None	N	None			
	6-301			than 3 minutes in any hour						
				(gaseous fuel firing)						
Opacity	BAAQMD	Y		Ringelmann 1 for no more	BAAQMD	P/E (before	visual			
	6-1-301			than 3 minutes in any hour	Condition	1 million	inspection			
				(liquid fuel firing)	1694, Part	gallons of				
					A.2c	liquid fuel				
						combusted)				
FP	BAAQMD	N		Prohibition of nuisance	None	N	None			
	6-1-305									
FP	SIP	Y		Prohibition of nuisance	None	N	None			
	6-305									
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None	N	None			
	6-1-310.1			(gaseous fuel firing)						
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None	N	None			
	6-310.3			(gaseous fuel firing)						
FP	BAAQMD	Y		0.15 grain/dscf @ 6% O2	BAAQMD	P/E (before	visual			
	6-1-310.3			(liquid fuel firing)	Condition	1 million	inspection			
					1694, Part	gallons of				
					A.2c	liquid fuel				
						combusted)				
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS			
	Condition			month from non-	Condition	per day	analysis			
	1694, Part			cogeneration sources	1694, Part					
	A.4			· ·	A.3a					
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S			
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer			
	(1)			(0.10 gr/dscf)						
Fuel Flow		Y		No limit	BAAQMD	С	Fuel			
					9-10-502.2		Flowmeter			

Table VII – A.3

Applicable Limits and Compliance Monitoring Requirements

S7 – Unit 231, B-103 Heater

	87 – UNIT 231, B-103 HEATER											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	P/SA	source test					
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 7							
NOx	BAAQMD	Y		Federal emissions:	None	N	None					
	9-10-303			Refinery-wide emissions:								
				0.20 lb NOx/MMbtu								
Heat input	BAAQMD	Y		1,536 MMbtu/day	BAAQMD	P/D	records					
	Condition				Condition							
	1694, Part				1694, Part							
	A.1a				A.5							
Heat input	BAAQMD	Y		346.5 MMbtu/hr averaged	BAAQMD	P/M	records					
	Condition			over any year at S2, S3,	Condition							
	1694, Part			S4, S5, S7	1694, Part F.3							
	F.2											
O2		N		No limit	BAAQMD	С	O2 Monitor					
					9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 2							
СО	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test					
	9-10-305				9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 7							
Opacity	BAAQMD	N		Ringelmann 1 for no more	None	N	None					
	6-1-301			than 3 minutes in any hour								
				(gaseous fuel firing)								

Table VII – A.3

Applicable Limits and Compliance Monitoring Requirements

S7 – UNIT 231, B-103 HEATER

	S7 – UNIT 231, B-103 HEATER											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
Opacity	SIP	Y		Ringelmann 1 for no more	None	N	None					
	6-301			than 3 minutes in any hour								
				(gaseous fuel firing)								
Opacity	BAAQMD	Y		Ringelmann 1 for no more	BAAQMD	P/E (before	visual					
	6-1-301			than 3 minutes in any hour	Condition	1 million	inspection					
				(liquid fuel firing)	1694, Part	gallons of						
					A.2c	liquid fuel						
						combusted)						
FP	BAAQMD	N		Prohibition of nuisance	None	N	None					
	6-1-305											
FP	SIP	Y		Prohibition of nuisance	None	N	None					
	6-305											
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None	N	None					
	6-1-310.1			(gaseous fuel firing)								
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None	N	None					
	6-310.3			(gaseous fuel firing)								
FP	BAAQMD	Y		0.15 grain/dscf @ 6% O2	BAAQMD	P/E (before	visual					
	6-1-310.1			(liquid fuel firing)	Condition	1 million	inspection					
					1694, Part	gallons of						
					A.2c	liquid fuel						
						combusted)						
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS					
	Condition			month from non-	Condition	per day	analysis					
	1694, Part			cogeneration sources	1694, Part							
	A.4				A.3a							
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S					
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer					
	(1)			(0.10 gr/dscf)								
Fuel Flow		Y		No limit	BAAQMD	С	Fuel					
					9-10-502.2		Flowmeter					

Table VII – A.4
Applicable Limits and Compliance Monitoring Requirements
S9 – UNIT 240, B-2 BOILER

-	S9 – Unit 240, B-2 Boiler											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	P/SA	source test					
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 7							
NOx	BAAQMD	Y		Federal emissions:	None	N	None					
	9-10-303			Refinery-wide emissions:								
				0.20 lb NOx/MMbtu								
Heat input	BAAQMD	Y		1,464 MMbtu/day	BAAQMD	P/D	records					
	Condition				Condition							
	1694, Part				1694, Part							
	A.1b				A.5							
Heat input	BAAQMD	Y		616.4 MMbtu/hr averaged	BAAQMD	P/M	records					
	Condition			over any year at S9,	Condition							
	1694, Part			S10, S11, S12, S13,	1694, Part F.3							
	F.1											
O2		N		No limit	BAAQMD	C	O2 Monitor					
					9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 2							
CO	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test					
	9-10-305				9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 7							
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None					
	6-1-301			than 3 minutes in any hour	gaseous-							
					fueled							
					sources							

 $\begin{tabular}{ll} Table~VII-A.4\\ Applicable~Limits~and~Compliance~Monitoring~Requirements\\ S9-UNIT~240,~B-2~BOILER\\ \end{tabular}$

	57 - CM1 240, D-2 DOLLER										
			Future		Monitoring	Monitoring					
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring				
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type				
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None				
	6-301			than 3 minutes in any hour	gaseous-						
					fueled						
					sources						
FP	BAAQMD	N		Prohibition of nuisance	None	N	None				
	6-1-305										
FP	SIP	Y		Prohibition of nuisance	None	N	None				
	6-305										
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None				
	6-1-310.1				gaseous-						
					fueled						
					sources						
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None				
	6-310.3				gaseous-						
					fueled						
					sources						
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS				
	Condition			month from non-	Condition	per day	analysis				
	1694, Part			cogeneration sources	1694, Part						
	A.4				A.3a						
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S				
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer				
	(1)			(0.10 gr/dscf)							
Fuel Flow		Y		No limit	BAAQMD	С	Fuel				
					9-10-502.2		Flowmeter				

Table VII – A.5

Applicable Limits and Compliance Monitoring Requirements

\$10 - Unit 240, B-101 Heater

	S10 - UNIT 240, B-101 HEATER											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре					
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	C	CEM					
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1							
NOx	BAAQMD	Y		0.015 lb NOx/MMBtu	BAAQMD	С	CEM					
	Condition				Condition							
	1694, Part				1694, Part							
	F.4a				F.4a							
NOx	BAAQMD	Y		Federal emissions:	None	N	None					
	9-10-303			Refinery-wide emissions:								
				0.20 lb NOx/MMbtu								
Heat input	BAAQMD	Y		5,352 MMbtu/day	BAAQMD	P/D	records					
	Condition				Condition							
	1694, Part				1694, Part							
	A.1b				A.5							
Heat input	BAAQMD	Y		616.4 MMbtu/hr averaged	BAAQMD	P/M	records					
	Condition			over any year at S9,	Condition							
	1694, Part			S10, S11, S12, S13	1694, Part F.3							
	F.1											
O2		N		No limit	BAAQMD	C	O2 Monitor					
					9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 2							
CO	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test					
	9-10-305				9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 8							

 $Table\ VII-A.5 \\ Applicable\ Limits\ and\ Compliance\ Monitoring\ Requirements \\ S10-Unit\ 240,\ B-101\ HEATER$

	S10 – Unit 240, B-101 Heater											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
Opacity	BAAQMD	N		During tube cleaning,	None for	N	None					
	6-1-304			Ringelmann No. 2 for 3	gaseous-							
				min/hr and 6 min/billion btu	fueled							
				in 24 hours; applies to	sources							
				sources rated over 140								
				MMbtu/hr (with tubes)								
Opacity	SIP	Y		During tube cleaning,	None for	N	None					
	6-304			Ringelmann No. 2 for 3	gaseous-							
				min/hr and 6 min/billion btu	fueled							
				in 24 hours; applies to	sources							
				sources rated over 140								
				MMbtu/hr (with tubes)								
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None					
	6-1-301			than 3 minutes in any hour	gaseous-							
					fueled							
					sources							
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None					
	6-301			than 3 minutes in any hour	gaseous-							
					fueled							
					sources							
FP	BAAQMD	N		Prohibition of nuisance	None	N	None					
	6-1-305											
FP	SIP	Y		Prohibition of nuisance	None	N	None					
ED	6-305	N		0.15 : /1 (@ 60/ 02	None for	NT	NT					
FP	BAAQMD	IN		0.15 grain/dscf @ 6% O2		N	None					
	6-1-310.1				gaseous-							
					fueled							
ED	CID	v		0.15 amain/de-f @ 60/ 002	Sources None for	NT.	N					
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None					
	6-310.3				gaseous-							
					fueled							
	<u>II</u>				sources							

Table VII – A.5

Applicable Limits and Compliance Monitoring Requirements

\$10 - UNIT 240, B-101 HEATER

			510	CIVIT 240, D-101 IIE	TILIT		
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS
	Condition			month from non-	Condition	per day	analysis
	1694, Part			cogeneration sources	1694, Part		
	A.4				A.3a		
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf)			
Fuel Flow		Y		No limit	BAAQMD	С	Fuel
					9-10-502.2		Flowmeter

Table VII – A.6 Applicable Limits and Compliance Monitoring Requirements S11 – UNIT 240, B-201 HEATER S12 – UNIT 240, B-202 HEATER

			012	C1111 2-10; B 202 11E			
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	P/SA	source test
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 7		
NOx	BAAQMD	Y		Federal emissions:	None	N	None
	9-10-303			Refinery-wide emissions:			
				0.20 lb NOx/MMbtu			
Heat input	BAAQMD	Y		2,592 MMbtu/day at S11	BAAQMD	P/D	records
	Condition			1,008 MMBtu/day at S12	Condition		
	1694, Part				1694, Part		
	A.1b				A.5		

Table VII – A.6 Applicable Limits and Compliance Monitoring Requirements S11 – Unit 240, B-201 Heater S12 – Unit 240, B-202 Heater

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Heat input	BAAQMD	Y		616.4 MMbtu/hr averaged	BAAQMD	P/M	records
	Condition			over any year at S9,	Condition		
	1694, Part			S10, S11, S12, S13	1694, Part F.3		
	F.1						
O2		N		No limit	BAAQMD	C	O2 Monitor
					9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 2		
CO	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test
	9-10-305				9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 7		
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None
	6-1-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None
	6-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
FP	BAAQMD	N		Prohibition of nuisance	None	N	None
	6-1-305						
FP	SIP	Y		Prohibition of nuisance	None	N	None
	6-305						
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None
	6-1-310.1			-	gaseous-		
					fueled		
					sources		

$Table\ VII-A.6$ Applicable Limits and Compliance Monitoring Requirements $S11-Unit\ 240, B-201\ Heater$

S12 - Unit 240, B-202 Heater

			012	- UNII 240, D-202 IIE	IIEK		
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None
	6-310.3				gaseous-		
					fueled		
					sources		
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS
	Condition			month from non-	Condition	per day	analysis
	1694, Part			cogeneration sources	1694, Part		
	A.4				A.3a		
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf)			
Fuel Flow		Y		No limit	BAAQMD	С	Fuel
					9-10-502.2		Flowmeter

 $Table\ VII-A.7 \\ Applicable\ Limits\ and\ Compliance\ Monitoring\ Requirements \\ S13-Unit\ 240,\ B-301\ HEATER$

			Future	·	Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	С	CEM
	9-10-301			0.033 lb NOx/MMbtu	9-10-502.1		
NOx	BAAQMD	Y		0.015 lb NOx/MMBtu	BAAQMD	С	CEM
	Condition				Condition		
	1694, Part				1694, Part		
	F.4b				F.4b		
NOx	BAAQMD	Y		Federal emissions:	None	N	None
	9-10-303			Refinery-wide emissions:			
				0.20 lb NOx/MMbtu			

Table VII – A.7
Applicable Limits and Compliance Monitoring Requirements
S13 – UNIT 240, B-301 HEATER

	S13 – Unit 240, B-301 Heater											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
Heat input	BAAQMD	Y		4,656 MMbtu/day	BAAQMD	P/D	records					
	Condition				Condition							
	1694, Part				1694, Part							
	A.1b				A.5							
Heat input	BAAQMD	Y		616.4 MMbtu/hr averaged	BAAQMD	P/M	records					
	Condition			over any year at S9,	Condition							
	1694, Part			S10, S11, S12, S13	1694, Part F.3							
	F.1											
O2		N		No limit	BAAQMD	С	O2 Monitor					
					9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 2							
СО	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test					
	9-10-305				9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 8							
Opacity	BAAQMD	N		During tube cleaning,	None for	N	None					
	6-1-304			Ringelmann No. 2 for 3	gaseous-							
				min/hr and 6 min/billion btu	fueled							
				in 24 hours; applies to	sources							
				sources rated over 140								
				MMbtu/hr (with tubes)								
Opacity	SIP	Y		During tube cleaning,	None for	N	None					
	6-304			Ringelmann No. 2 for 3	gaseous-							
				min/hr and 6 min/billion btu	fueled							
				in 24 hours; applies to	sources							
				sources rated over 140								
				MMbtu/hr (with tubes)								
FP	BAAQMD	N		Prohibition of nuisance	None	N	None					
	6-1-305											

 $Table\ VII-A.7 \\ Applicable\ Limits\ and\ Compliance\ Monitoring\ Requirements \\ S13-Unit\ 240,\ B-301\ HEATER$

			515	- UNII 240, D-301 HE	1111		
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
FP	SIP	Y		Prohibition of nuisance	None	N	None
	6-305						
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None
	6-1-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None
	6-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None
	6-1-310.1				gaseous-		
					fueled		
					sources		
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None
	6-310.3				gaseous-		
					fueled		
					sources		
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS
	Condition			month from non-	Condition	per day	analysis
	1694, Part			cogeneration sources	1694, Part		
	A.4				A.3a		
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf)			
Fuel Flow		Y		No limit	BAAQMD	С	Fuel
					9-10-502.2		Flowmeter

S15 - Unit 244, B-501 Heater

S16 - Unit 244, B-502 Heater

S17 - UNIT 244, B-503 HEATER

S18 – Unit 244, B-504 Heater

S19 - Unit 244, B-505 Heater

			Eutumo	C1111 244, D-303 11E	Monitoring	Monitoring	
T o of	Citation	тото	Future Effective		J	<u> </u>	Manitanina
Type of		FE		T.	Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	С	CEM
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1		
NOx	BAAQMD	Y		0.015 lb NOx/MMBtu	BAAQMD	С	CEM
	Condition			combined for S15, S16,	Condition		
	1694, Part			S17, S18 and S19	1694, Part		
	F.4c				F.4c		
NOx	BAAQMD	Y		Federal emissions:	None	N	None
	9-10-303			Refinery-wide emissions:			
				0.20 lb NOx/MMbtu			
Heat input	BAAQMD	Y		5,754 MMbtu/day averaged	BAAQMD	P/D	records
	Condition			over any day at S15, S16,	Condition		
	1694, Part			S17, S18, S19	1694, Part		
	A.1b				A.5		
O2		N		No limit	BAAQMD	С	O2 Monitor
					9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 2		
СО	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test
	9-10-305				9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 8		
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None
	6-1-301			than 3 minutes in any hour	gaseous-		
				•	fueled		
					sources		
					Boulces		

$\label{eq:continuous_problem} Table~VII-A.8 \\ Applicable~Limits~and~Compliance~Monitoring~Requirements$

S15 – Unit 244, B-501 Heater

S16 – Unit 244, B-502 Heater

S17 – Unit 244, B-503 Heater

S18 – UNIT 244, B-504 HEATER

S19 – Unit 244, B-505 Heater

519 - UNII 244, D-303 HEATEK										
			Future		Monitoring	Monitoring				
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring			
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type			
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None			
	6-301			than 3 minutes in any hour	gaseous-					
					fueled					
					sources					
FP	BAAQMD	N		Prohibition of nuisance	None	N	None			
	6-1-305									
FP	SIP	Y		Prohibition of nuisance	None	N	None			
	6-305									
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None			
	6-1-310.1				gaseous-					
					fueled					
					sources					
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None			
	6-310.3				gaseous-					
					fueled					
					sources					
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS			
	Condition			month from non-	Condition	per day	analysis			
	1694, Part			cogeneration sources	1694, Part					
	A.4				A.3a					
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S			
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer			
	(1)			(0.10 gr/dscf)						
Fuel Flow		Y		No limit	BAAQMD	С	Fuel			
					9-10-502.2		Flowmeter			
throughput	BAAQMD	Y		19.9 E 6 therm/yr (total) at	BAAQMD	P/M	records			
	Condition			S15, S16, S17, S18, S19	Condition					
	20989,				20989, Part A					
	Part A									

$\label{eq:continuous_problem} Table~VII-A.9$ Applicable Limits and Compliance Monitoring Requirements

S20 – UNIT 244, B-506 HEATER

S22 – Unit 248, B-606 Heater

S29 – UNIT 200, B-5 HEATER

S30 – UNIT 200, B-101 HEATER

S31 – UNIT 200, B-501 HEATER

			Future	,	Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	P/A	source test
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 7		
NOx	BAAQMD	Y		Federal emissions:	None	N	None
	9-10-303			Refinery-wide emissions:			
				0.20 lb NOx/MMbtu			
Heat input	BAAQMD	Y		552 MMbtu/day at S20	BAAQMD	P/D	records
	Condition			774 MMBtu/day at S22	Condition		
	1694, Part			2,472 MMBtu/hr at S29	1694, Part		
	A.1b			1,200 MMBtu/hr at S30	A.5		
				480 MMBtu/day at S31			
O2		N		No limit	BAAQMD	С	O2 Monitor
					9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 2		
СО	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/A	source test
	9-10-305				9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 7		

$\label{eq:continuous_problem} Table~VII-A.9$ Applicable Limits and Compliance Monitoring Requirements

S20 – Unit 244, B-506 Heater

S22 – Unit 248, B-606 Heater

S29 – UNIT 200, B-5 HEATER

S30 – Unit 200, B-101 Heater

S31 – Unit 200, B-501 Heater

			Entono	C1(11 200; D -301 11E)		Manitanina	
Towns	C'4-4'	ы	Future		Monitoring	Monitoring	N
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None
	6-1-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None
	6-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
FP	BAAQMD	N		Prohibition of nuisance	None	N	None
	6-1-305						
FP	SIP	Y		Prohibition of nuisance	None	N	None
	6-305						
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None
	6-1-310.1				gaseous-		
					fueled		
					sources		
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None
	6-310.3				gaseous-		
					fueled		
					sources		
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS
	Condition			month from non-	Condition	per day	analysis
	1694, Part			cogeneration sources	1694, Part		
	A.4				A.3a		
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf)			
Fuel Flow		Y		No limit	BAAQMD	С	Fuel
					9-10-502.2		Flowmeter

$\label{eq:continuous_problem} Table~VII-A.9 \\ Applicable~Limits~and~Compliance~Monitoring~Requirements$

S20 – Unit 244, B-506 Heater

S22 – Unit 248, B-606 Heater

S29 – UNIT 200, B-5 HEATER

S30 – Unit 200, B-101 Heater

S31 – Unit 200, B-501 Heater

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
throughput	BAAQMD	Y		1.9 E 6 therm/yr at S20	BAAQMD	P/M	records
	Condition			2.6 E 6 therm/yr at S22	Condition		
	20989,			8.6 E 6 therm/yr at S29	20989, Part A		
	Part A			4.2 E 6 therm/yr at S30			
				1.7 E 6 therm/yr at S31			

Table VII – A.10
Applicable Limits and Compliance Monitoring Requirements
S21 – UNIT 244. B-507 HEATER

			521	C1111 2111, D C07 11E			
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Heat input	BAAQMD	Y		194.4 MMbtu/day	BAAQMD	P/D	records
	Condition				Condition		
	1694, Part				1694, Part		
	A.1a				A.5		
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None
	6-1-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None
	6-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		

 $\begin{array}{c} \textbf{Table VII-A.10} \\ \textbf{Applicable Limits and Compliance Monitoring Requirements} \\ \textbf{S21-Unit 244, B-507 Heater} \end{array}$

	521 - UNII 244, D-307 HEATER										
			Future		Monitoring	Monitoring					
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring				
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type				
FP	BAAQMD	N		Prohibition of Nuisance	None for	N	None				
	6-1-305				gaseous-						
					fueled						
					sources						
FP	SIP	Y		Prohibition of Nuisance	None for	N	None				
	6-305				gaseous-						
					fueled						
					sources						
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None				
	6-1-310.1				gaseous-						
					fueled						
					sources						
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None				
	6-310.3				gaseous-						
					fueled						
					sources						
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS				
	Condition			month from non-	Condition	per day	analysis				
	1694, Part			cogeneration sources	1694, Part						
	A.4				A.3a						
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S				
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer				
	(1)			(0.10 gr/dscf)							
throughput	BAAQMD	Y		0.7 E 6 therm/yr	BAAQMD	P/M	records				
	Condition				Condition						
	20989,				20989, Part A						
	Part A										

Table VII – A.11
Applicable Limits and Compliance Monitoring Requirements
\$36 - Unit 200, B-102 Heater

	S36 – UNIT 200, B-102 HEATER												
			Future		Monitoring	Monitoring							
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring						
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type						
NOx		Y		CEM for NOx and O2 (or	BAAQMD	С	CEM						
				CO2)	1-520.8								
NOx	BAAQMD	Y		10 ppmv NOx at 3% O2 (3	BAAQMD	C	CEM						
	Condition			hour average), except	Condition								
	21097,			startups and shutdowns	21097, Part								
	Part 3b				5a								
Heat input	BAAQMD	Y		82.1 MMbtu/hr;	BAAQMD	С	continuous						
	Condition			719,200 MMbtu/12-month	Condition		fuel flow						
	21097,			period	21097, Part 4		monitor						
	Part 2												
O2		Y		No limit	BAAQMD	С	O2 Monitor						
					Condition								
					21097, Part								
					5a								
CO	BAAQMD	Y		28 ppmv CO at 3% O2 (8	BAAQMD	P/SA	source test						
	Condition			hour average), except	Condition								
	21097,			startups and shutdowns	21097, Part								
	Part 3b				5b								
POC	BAAQMD	Y		5.5 lb POC per MM ft3 of		N	None						
	Condition			fuel									
	21097,												
	Part 3b												
PM10	BAAQMD	Y		7.6 lb PM10 per MM ft3 of		N	None						
	Condition			fuel									
	21097,												
	Part 3b												
ammonia	BAAQMD	N		10 ppmv ammonia at 3%		N	None						
	Condition			O2 (8 hour average), except									
	21097,			startups and shutdowns									
	Part 3b												

Table VII – A.11
Applicable Limits and Compliance Monitoring Requirements
\$36 - UNIT 200, B-102 HEATER

	S36 – UNIT 200, B-102 HEATER											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None					
	6-1-301			than 3 minutes in any hour	gaseous-							
					fueled							
					sources							
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None					
	6-301			than 3 minutes in any hour	gaseous-							
					fueled							
					sources							
FP	BAAQMD	N		Prohibition of nuisance	None for	N	None					
	6-1-305				gaseous-							
					fueled							
					sources							
FP	SIP	Y		Prohibition of nuisance	None for	N	None					
	6-305				gaseous-							
					fueled							
					sources							
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None					
	6-1-310.1				gaseous-							
					fueled							
					sources							
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None					
	6-310.3				gaseous-							
					fueled							
					sources							
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	GC or total					
	Condition			month from non-	Condition	per day	sulfur					
	1694, Part			cogeneration sources	1694, Part		analysis					
	A.4				A.3a							
TRS	BAAQMD	Y		100 ppmv TRS (1 day	BAAQMD	С	GC or total					
	Condition			average), 45 ppmv TRS	Condition		sulfur					
	21097,			(annual average)	21097, Part		analysis					
	Part 6				7a, 7b							

Table VII – A.11
Applicable Limits and Compliance Monitoring Requirements
\$36 - UNIT 200, B-102 HEATER

	550 – UNII 200, D-102 HEATER									
			Future		Monitoring	Monitoring				
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring			
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type			
H2S	40 CFR	Y		fuel gas H2S concentration	Condition	P/3 times	H2S			
	60.104(a)			limited to 230 mg/dscm	21097, part	per day	analysis			
	(1)			(0.10 gr/dscf)	7c					
Duration of	BAAQMD	Y		24 consecutive hours	Condition	P/E	Records			
startup	Condition				21097, part					
	21096,				10					
	Part 3b									
Duration of	BAAQMD	Y		24 consecutive hours	Condition	P/E	Records			
shutdown	Condition				21097, part					
	21096,				10					
	Part 3b									
Duration of	BAAQMD	Y		72 consecutive hours	Condition	P/E	records			
heater	Condition				21097, part					
dryout/	21096,				10					
warmup	Part 3b									
periods										

Table VII – A.12 Applicable Limits and Compliance Monitoring Requirements S43 – UNIT 200, B-202 HEATER

				,			
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx		Y		CEM for NOx and O2 (or	BAAQMD	С	CEM
				CO2)	1-520.8		
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	С	CEM
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1		
NOx	BAAQMD	Y		Federal emissions:	None	N	None
	9-10-303			Refinery-wide emissions:			
				0.20 lb NOx/MMbtu			

Table VII – A.12
Applicable Limits and Compliance Monitoring Requirements
S43 – UNIT 200, B-202 HEATER

	S43 – Unit 200, B-202 Heater											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
NOx	BAAQMD	Y		40 ppmv NOx at 3% O2	BAAQMD	С	NOx, O2					
	Condition			over any 8 hours, except	Condition		CEM					
	1694, Part			startups and shutdowns, at	1694, Part							
	D.2			S43, S44	D.4							
Heat input	BAAQMD	Y		5,520 MMbtu/day	BAAQMD	P/D	records					
	Condition				Condition							
	1694, Part				1694, Part							
	A.1b				A.5							
O2		N		No limit	BAAQMD	С	O2 Monitor					
					9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 2							
O2		Y		No limit	BAAQMD	С	O2 Monitor					
					Condition							
					1694, Part							
					D.4							
CO	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test					
	9-10-305				9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 8							
CO	BAAQMD	N		50 ppmv CO at 3% O2 over	BAAQMD	P/SA	source test					
	Condition			any month, except startups	9-10-502.1							
	1694, Part			and shutdowns, at S43, S44								
	D.3				BAAQMD							
					Condition							
					21235, Part 8							

Table VII – A.12
Applicable Limits and Compliance Monitoring Requirements
S43 – UNIT 200, B-202 HEATER

		S43 – Unit 200, B-202 Heater											
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type						
Opacity	BAAQMD	N	Date	During tube cleaning,	None for	N	None						
Opacity	6-1-304	1		Ringelmann No. 2 for 3 min/hr and 6 min/billion btu in 24 hours; applies to sources rated over 140	gaseous- fueled sources	14	None						
				MMbtu/hr (with tubes)									
Opacity	SIP 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu in 24 hours; applies to sources rated over 140 MMbtu/hr (with tubes)	None for gaseous- fueled sources	N	None						
Opacity	BAAQMD 6-1-301	N		Ringelmann 1 for no more than 3 minutes in any hour	None for gaseous- fueled sources	N	None						
Opacity	SIP 6-301	Y		Ringelmann 1 for no more than 3 minutes in any hour	None for gaseous- fueled sources	N	None						
FP	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	None						
FP	SIP 6-305	Y		Prohibition of nuisance	None	N	None						
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf @ 6% O2	None for gaseous- fueled sources	N	None						
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None for gaseous- fueled sources	N	None						

Table VII – A.12
Applicable Limits and Compliance Monitoring Requirements
\$43 - Unit 200, B-202 Heater

	545 - UNII 200, D-202 HEATEK									
			Future		Monitoring	Monitoring				
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring			
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type			
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS			
	Condition			month from non-	Condition	per day	analysis			
	1694, Part			cogeneration sources	1694, Part					
	A.4				A.3a					
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	C	H2S			
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer			
	(1)			(0.10 gr/dscf) except for gas						
				burned as a result of						
				process upset or gas burned						
				at flares from relief valve						
				leaks or other emergency						
				malfunctions; this						
				requirement applies to						
				sources installed/modified						
				after 6/11/73 and burning						
				refinery gas						
Fuel Flow		Y		No limit	BAAQMD	С	Fuel			
					9-10-502.2		Flowmeter			
throughput	BAAQMD	Y		19.1 E 6 therm/yr	BAAQMD	P/M	records			
	Condition				Condition					
	20989,				20989, Part A					
	Part A									

 $\begin{array}{c} \textbf{Table VII-A.13} \\ \textbf{Applicable Limits and Compliance Monitoring Requirements} \\ \textbf{S44-Unit 200, B-201 Heater} \end{array}$

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx		Y		CEM for NOx and O2 (or	BAAQMD	С	CEM
				CO2)	1-520.8		

Table VII – A.13
Applicable Limits and Compliance Monitoring Requirements
S44 – UNIT 200, B-201 HEATER

	S44 – UNIT 200, B-201 HEATER											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	С	CEM					
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1							
NOx	BAAQMD	Y		Federal emissions:	None	N	None					
	9-10-303			Refinery-wide emissions:								
				0.20 lb NOx/MMbtu								
NOx	BAAQMD	Y		40 ppmv NOx at 3% O2	BAAQMD	С	CEM					
	Condition			over any 8 hours, except	Condition							
	1694, Part			startups and shutdowns, at	1694, Part							
	D.2			S43, S44	D.4							
Heat input	BAAQMD	Y		1,104 MMbtu/day	BAAQMD	P/D	records					
	Condition				Condition							
	1694, Part				1694, Part							
	A.1b				A.5							
O2		N		No limit	BAAQMD	С	O2 Monitor					
					9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 2							
O2		Y		No limit	BAAQMD	С	O2 Monitor					
					Condition							
					1694, Part							
					D.4							
СО	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test					
	9-10-305				9-10-502.1							
					BAAQMD							
					Condition							
					21235, Part 8							

 $\begin{array}{c} \textbf{Table VII-A.13} \\ \textbf{Applicable Limits and Compliance Monitoring Requirements} \\ \textbf{S44-Unit 200, B-201 HEATER} \end{array}$

	544 – UNII 200, B-201 HEATER											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
СО	BAAQMD	Y		50 ppmv CO at 3% O2 over	BAAQMD	P/SA	source test					
	Condition			any month, except startups	9-10-502.1							
	1694, Part			and shutdowns, at S43, S44								
	D.3				BAAQMD							
					Condition							
					21235, Part 8							
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None					
	6-1-301			than 3 minutes in any hour	gaseous-							
					fueled							
					sources							
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None					
	6-301			than 3 minutes in any hour	gaseous-							
					fueled							
					sources							
FP	BAAQMD	N		Prohibition of nuisance	None	N	None					
	6-1-305											
FP	SIP	Y		Prohibition of nuisance	None	N	None					
	6-305											
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None					
	6-1-310.1				gaseous-							
					fueled							
					sources							
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None					
	6-310.3				gaseous-							
					fueled							
					sources							
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS					
	Condition			month from non-	Condition	per day	analysis					
	1694, Part			cogeneration sources	1694, Part							
	A.4				A.3a							

 $\begin{array}{c} \textbf{Table VII-A.13} \\ \textbf{Applicable Limits and Compliance Monitoring Requirements} \\ \textbf{S44-Unit 200, B-201 Heater} \end{array}$

				- UNII 200, D-201 IIE			
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf) except for gas			
				burned as a result of			
				process upset or gas burned			
				at flares from relief valve			
				leaks or other emergency			
				malfunctions; this			
				requirement applies to			
				sources installed/modified			
				after 6/11/73 and burning			
				refinery gas			
Fuel Flow		Y		No limit	BAAQMD	С	Fuel
					9-10-502.2		Flowmeter
throughput	BAAQMD	Y		3.8 E 6 therm/yr	BAAQMD	P/M	records
	Condition				Condition		
	20989,				20989, Part A		
	Part A						

Table VII – A.14
Applicable Limits and Compliance Monitoring Requirements S50, S51, S52 – TURBINE STARTUP ENGINES

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQMD	N		Ringelmann No. 2 for no	None	N	N/A
	6-1-303.1			more than 3 minutes in any			
				hour			

Table VII – A.14

Applicable Limits and Compliance Monitoring Requirements

\$50, \$51, \$52 - Turbine Startup Engines

		25	0, 551, 5	52 – TURBINE STARTU	JP ENGINES		
Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	SIP 6-303.1	Y		Ringelmann No. 2 for no more than 3 minutes in any	None	N	N/A
				hour			
FP	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	None
FP	SIP 6-305	Y		Prohibition of nuisance	None	N	None
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 gr/dscf	None	N	N/A
Hours of	9-8-111.3	Y		Exemptions: Engines that	BAAQMD	P/M	records
operation				operate less than 100 hours,	9-8-502		
				exclusive of any emergency			
				use, in any 12-consecutive-			
				month period			
Hours of	CCR, Title	N		Exemptions: Engine	93115.10(f)	P/E	records
operation	17, Section			operates number of hours			
	93115.3(j)			per APCO approval – 60			
				hours/year (combined S50,			
				51, & 52)			
SO2	BAAQMD	Y		Fuel Sulfur Limit	None	P/E	fuel
	9-1-304			0.5% by weight			certification

Table VII – A.15

Applicable Limits and Compliance Monitoring Requirements S53, S56, S57, S58, S59, S1011 – EMERGENCY DIESEL ENGINES

	555,5	0,00		559, 51011 – EMERGEN			
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQMD	N		Ringelmann No. 2 for no	None	N	N/A
	6-1-303.1			more than 3 minutes in any			
				hour			
Opacity	SIP	Y		Ringelmann No. 2 for no	None	N	N/A
	6-303.1			more than 3 minutes in any			
				hour			
FP	BAAQMD	N		Prohibition of nuisance	None	N	None
	6-1-305						
FP	SIP	Y		Prohibition of nuisance	None	N	None
	6-305						
FP	BAAQMD	N		0.15 gr/dscf	None	N	N/A
	6-1-310.1						
FP	SIP	Y		0.15 gr/dscf	None	N	N/A
	6-310			5122 B-7 2222	3,333		- "
Hours of	BAAQMD	N		Up to 100 hours for	BAAQMD	С	Totalizing
Operation	9-8-330	1		reliability testing until	9-8-530		Meter
operation	7 0 220			1/1/2012	, 0 000		1,10,01
Hours of	BAAQMD	N		Up to 50 hours for	BAAQMD	С	Totalizing
Operation	9-8-330			reliability testing effective	9-8-530		Meter
· F · · · · · · ·	, , , ,			1/1/2012	, , , , ,		3.33133
SO2	BAAQMD	Y		Fuel Sulfur Limit 0.5% by	None	P/E	Fuel
202	9-1-304	-		weight	1,0116	1,2	certification
SO2	CCR, Title	N		CARB Diesel or other	CCR, Title	P/E	Fuel records
	17, Section			specified	17, Section	- , -	
	93115.5			specifica	93115.10(g)		
	75115.5				(1)(G)		
	I	l	(S53 –	Emergency Electricity Gene			
Hours of	CCR, Title	N	(555)	20 hours/yr for maintenance	CCR, Title	С	Totalizing
Operation	17, Section			and testing	17, Section		Counter
F	93115.6(b)				93115.10(e)		
	(3)(A)(1)(a)				(1)		
	(2)(11)(1)(a)	L			(1)		

Table VII – A.15
Applicable Limits and Compliance Monitoring Requirements S53, S56, S57, S58, S59, S1011 – EMERGENCY DIESEL ENGINES

	500,50	00, 50	57,000,0	559, 51011 – EMERGEN	OT DIEDEE	Entonies	
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Hours of	CCR, Title	N		20 hours/yr for maintenance	CCR, Title	M	records
Operation	17, Section			and testing	17, Section		
	93115.6(b)				93115.10(g)		
	(3)(A)(1)(a)						
			(S56, S57	, S58, S59 – Firewater Pump	Engines)		
Hours of	CCR, Title	N		50 hours/yr per engine for	CCR, Title	M	records
Operation	17, Section			S56, S57, S58 and S59 for	17, Section		
	93115.3(n)			maintenance and testing	93115.10(g)		
				(NFPA 25)			
SO2	BAAQMD	Y		Fuel Sulfur Limit	None	P/E	fuel
	9-1-304			0.5% by weight			certification
			(S101	1 – NEG-1 Emergency Gener	rator))		
Hours of	CCR, Title	N		50 hours/yr for maintenance	CCR, Title	M	records
Operation	17, Section			and testing	17, Section		
	93115				93115		

Table VII – A.16 Applicable Limits and Compliance Monitoring Requirements \$336 – Unit 231, B-104 Heater \$337 – Unit 231, B-105 Heater

				,			
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	P/SA	source test
	9-10-301			0.033 lb NOx/ MMbtu	9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 7		
NOx	BAAQMD	Y		Federal emissions:	None	N	None
	9-10-303			Refinery-wide emissions:			
				0.20 lb NOx/MMbtu			

Table VII – A.16 Applicable Limits and Compliance Monitoring Requirements \$336 – Unit 231, B-104 Heater \$337 – Unit 231, B-105 Heater

			Future	CI(II 201, D 100 III	Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Heat input	BAAQMD	Y		2,664 MMbtu/day at S336	BAAQMD	P/D	records
	Condition			816 MMBtu/day at S337	Condition		
	1694, Part				1694, Part		
	A.1a				A.5		
O2		N		No limit	BAAQMD	С	O2 Monitor
					9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 2		
CO	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test
	9-10-305				9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 7		
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None
	6-1-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None
	6-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
FP	BAAQMD	N		Prohibition of nuisance	None	N	None
	6-1-305						
FP	SIP	Y		Prohibition of nuisance	None	N	None
	6-305						
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None
	6-1-310.1				gaseous-		
					fueled		
					sources		

Table VII – A.16 Applicable Limits and Compliance Monitoring Requirements \$336 – Unit 231, B-104 Heater \$337 – Unit 231, B-105 Heater

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective	T	Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None
	6-310.3				gaseous-		
					fueled		
					sources		
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS
	Condition			month from non-	Condition	per day	analysis
	1694, Part			cogeneration sources	1694, Part		
	A.4				A.3a		
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	C	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf) except for gas			
				burned as a result of			
				process upset or gas burned			
				at flares from relief valve			
				leaks or other emergency			
				malfunctions; this			
				requirement applies to			
				sources installed/modified			
				after 6/11/73 and burning			
				refinery gas			
Fuel Flow		Y		No limit	BAAQMD	С	Fuel
					9-10-502.2		Flowmeter
throughput	BAAQMD	Y		9.2 E 6 therm/yr at S336	BAAQMD	P/M	records
	Condition			2.8 E 6 therm/yr at S337	Condition		
	20989,				20989, Part A		
	Part A						

Table VII – A.17 Applicable Limits and Compliance Monitoring Requirements S351 – UNIT 267, B-601/602 HEATERS

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	Of Emile	Y	Dute	CEM for NOx and O2 (or	BAAQMD	C (176/11)	CEM
TYON		•		CO2)	1-520.8	C	CLIVI
NOx	BAAQMD	N		Refinery-wide emissions:	BAAQMD	С	CEM
1,0,1	9-10-301	1,		0.033 lb NOx/ MMbtu	9-10-502.1		021/1
NOx	BAAQMD	Y		Federal emissions:	None	N	None
	9-10-303			Refinery-wide emissions:			
				0.20 lb NOx/MMbtu			
NOx	BAAQMD	Y		20 ppmv NOx at 3% O2	BAAQMD	С	NOx, O2
	Condition			over any 3 hours, except	Condition		CEM
	1694, Part			startups and shutdowns, at	1694, Part		
	B.2			S351	B.3		
Heat input	BAAQMD	Y		2,424 MMbtu/day	BAAQMD	P/D	records
	Condition				Condition		
	1694, Part				1694, Part		
	A.1b				A.5		
O2		N		No limit	BAAQMD	С	O2 Monitor
					9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 2		
O2		Y		No limit	BAAQMD	С	O2 Monitor
					Condition		
					1694, Part		
					B.3		
CO	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test
	9-10-305				9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 8		

Table VII – A.17 Applicable Limits and Compliance Monitoring Requirements S351 – UNIT 267, B-601/602 HEATERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann 1 for no more than 3 minutes in any hour	None for gaseous- fueled sources	N	None
Opacity	SIP 6-301	Y		Ringelmann 1 for no more than 3 minutes in any hour	None for gaseous- fueled sources	N	None
FP	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	None
FP	SIP 6-305	Y		Prohibition of nuisance	None	N	None
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf @ 6% O2	None for gaseous- fueled sources	N	None
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None for gaseous- fueled sources	N	None
SO2	BAAQMD Condition 1694, Part A.4	Y		1,612 lb/day SO2 over any month from non- cogeneration sources	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis

Table VII – A.17 Applicable Limits and Compliance Monitoring Requirements S351 – UNIT 267, B-601/602 HEATERS

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	C	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf) except for gas			
				burned as a result of			
				process upset or gas burned			
				at flares from relief valve			
				leaks or other emergency			
				malfunctions; this			
				requirement applies to			
				sources installed/modified			
				after 6/11/73 and burning			
				refinery gas			
Fuel Flow		Y		No limit	BAAQMD	C	Fuel
					9-10-502.2		Flowmeter
throughput	BAAQMD	Y		8.4 E 6 therm/yr	BAAQMD	P/M	records
	Condition				Condition		
	20989,				20989, Part A		
	Part A						

Table VII – A.18 Applicable Limits and Compliance Monitoring Requirements S371 – UNIT 228, B-520 FURNACE S372 – UNIT 228, B-521 FURNACE

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	N	Dute	Refinery-wide emissions:	BAAQMD	C (176/11)	CEM
	9-10-301	1,		0.033 lb NOx/ MMbtu	9-10-502.1		CZIVI
NOx	BAAQMD	Y		Federal emissions:	None	N	None
	9-10-303			Refinery-wide emissions:			
				0.20 lb NOx/MMbtu			
NOx	BAAQMD	Y		20 ppmv NOx at 3% O2	None	С	CEM
	Condition			over any 3 hours, except			
	1694, Part			startups and shutdowns			
	C.2						
Heat input	BAAQMD	Y		1,392 MMbtu/day averaged	BAAQMD	P/D	records
	Condition			over any day at S371 and	Condition		
	1694, Part			S372	1694, Part		
	A.1b				A.5		
O2		N		No limit	BAAQMD	C	O2 Monitor
					9-10-502.1		
					BAAQMD		
					Condition		
					21235, Part 2		
CO	BAAQMD	N		400 ppmv (dry, 3% O ₂)	BAAQMD	P/SA	source test
	9-10-305				9-10-502.1		
					BAAQMD		
					Condition		
	D			TO GO ON OR	21235, Part 8	7.6.4	
CO	BAAQMD	Y		50 ppmv CO at 3% O2 over	BAAQMD	P/SA	source test
	Condition			any 3 hours, except startups	9-10-502.1		
	1694, Part			and shutdowns	DAAOMD		
	C.3				BAAQMD		
					Condition		
					21235, Part 8		

Table VII – A.18 Applicable Limits and Compliance Monitoring Requirements S371 – UNIT 228, B-520 FURNACE S372 – UNIT 228, B-521 FURNACE

			Future	01411 220, 13 3211 01	Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None
	6-1-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None
	6-301			than 3 minutes in any hour	gaseous-		
					fueled		
					sources		
FP	BAAQMD	N		Prohibition of nuisance	None	N	None
	6-1-305						
FP	SIP	Y		Prohibition of nuisance	None	N	None
	6-305						
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None
	6-1-310.1				gaseous-		
					fueled		
					sources		
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None
	6-310.3				gaseous-		
					fueled		
					sources		
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS
	Condition			month from non-	Condition	per day	analysis
	1694, Part			cogeneration sources	1694, Part		
	A.4				A.3a		

Table VII – A.18 Applicable Limits and Compliance Monitoring Requirements S371 – UNIT 228, B-520 FURNACE

S372 – UNIT 228, B-521 FURNACE

				- ONIT 220, D-321 FOR			
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	C	H2S
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer
	(1)			(0.10 gr/dscf) except for gas			
				burned as a result of			
				process upset or gas burned			
				at flares from relief valve			
				leaks or other emergency			
				malfunctions; this			
				requirement applies to			
				sources installed/modified			
				after 6/11/73 and burning			
				refinery gas			
Fuel Flow		Y		No limit	BAAQMD	С	Fuel
					9-10-502.2		Flowmeter
throughput	BAAQMD	Y		4.8 E 6 therm/yr for S371	BAAQMD	P/M	records
	Condition			and S372 combined	Condition		
	20989,				20989, Part A		
	Part A						

$\begin{array}{c} \textbf{Table VII-A.19} \\ \textbf{Applicable Limits and Compliance Monitoring Requirements} \\ \textbf{S438-Unit 110, H-1 Furnace} \end{array}$

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	Y		7 ppmv NOx at 3% O2 over	None	С	CEM
	Condition			any 1 hours, except startups			
	1694, Part			and shutdowns			
	E.4						

Table VII – A.19
Applicable Limits and Compliance Monitoring Requirements
S438 – Unit 110, H-1 Furnace

	S438 – UNIT 110, H-1 FURNACE											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
Heat input	BAAQMD	Y		250 MMbtu/hr,	BAAQMD	P/D	records					
	Condition			6,000 MMbtu/day	Condition							
	1694, Part				1694, Part							
	A.1c				A.5							
Heat input	BAAQMD	Y		2.19 E 12 btu/yr fuel	BAAQMD	P/D	records					
	Condition			combustion	Condition							
	1694, Part				1694, Part							
	E.2				E.6							
O2		Y		No limit	None	C	O2 Monitor					
CO	BAAQMD	Y		32 ppmv CO at 3% O2 over	BAAQMD	С	CEM					
	Condition			any calendar day, except	1-521							
	1694, Part			startups and shutdowns								
	E.4											
TRS	BAAQMD	Y		1 ppmw TRS in PSA offgas	Overall fuel	P/D	records					
	Condition			used as fuel	TRS							
	1694, Part				monitored by							
	E.3				BAAQMD							
					Condition							
					1694, Part							
					E.5							
TRS	BAAQMD	Y		14 ppmv TRS over any	BAAQMD	P/3 times	TRS					
	Condition			month, in fuel gas	Condition	per day	analysis					
	1694, Part				1694, Part							
	E.5				E.5							
Opacity	BAAQMD	N		During tube cleaning,	None for	N	None					
	6-1-304			Ringelmann No. 2 for 3	gaseous-							
				min/hr and 6 min/billion btu	fueled							
				in 24 hours; applies to	sources							
				sources rated over 140								
				MMbtu/hr (with tubes)								

Table VII – A.19
Applicable Limits and Compliance Monitoring Requirements
S438 – Unit 110. H-1 Furnace

S438 – UNIT 110, H-1 FURNACE											
			Future		Monitoring	Monitoring					
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring				
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type				
Opacity	SIP	Y		During tube cleaning,	None for	N	None				
	6-304			Ringelmann No. 2 for 3	gaseous-						
				min/hr and 6 min/billion btu	fueled						
				in 24 hours; applies to	sources						
				sources rated over 140							
				MMbtu/hr (with tubes)							
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None				
	6-1-301			than 3 minutes in any hour	gaseous-						
					fueled						
					sources						
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None				
	6-301			than 3 minutes in any hour	gaseous-						
					fueled						
					sources						
FP	BAAQMD	N		Prohibition of nuisance	None	N	None				
	6-1-305										
FP	SIP	Y		Prohibition of nuisance	None	N	None				
	6-305										
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None				
	6-1-310.1				gaseous-						
					fueled						
					sources						
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None				
	6-310.3				gaseous-						
					fueled						
					sources						
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	TRS				
	Condition			month from non-	Condition	per day	analysis				
	1694, Part			cogeneration sources	1694, Part						
	A.4				A.3a						
H2S	40 CFR	Y		fuel gas H2S concentration	40 CFR	С	H2S				
	60.104(a)			limited to 230 mg/dscm	60.105(a)(4)		analyzer				
	(1)			(0.10 gr/dscf)							

 $\begin{array}{c} \textbf{Table VII-A.19} \\ \textbf{Applicable Limits and Compliance Monitoring Requirements} \\ \textbf{S438-Unit 110, H-1 Furnace} \end{array}$

			Future	Ź	Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
H2S	40 CFR	Y		PSA Off Gas:	40 CFR	N	None
	60.104(a)			fuel gas H2S concentration	60.105(a)(4)		
	(1)			limited to 230 mg/dscm	(iv)(C)		
				(0.10 gr/dscf)			
H2S	40 CFR	Y		Unit 240 Sweet Unicracker	40 CFR	N	None
	60.104(a)			Gas:	60.105(a)(4)		
	(1)			fuel gas H2S concentration	(iv)(B)		
				limited to 230 mg/dscm	(=:)(2)		
				(0.10 gr/dscf)			

 $\begin{array}{c} Table~VII-A.20\\ Applicable~Limits~and~Compliance~Monitoring~Requirements\\ S461-UNIT~250,~B-701~HEATER \end{array}$

	5401 – UNII 250, B-701 HEATER										
			Future		Monitoring	Monitoring					
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring				
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type				
NOx		Y		CEM for NOx and O2 (or	BAAQMD	C	CEM				
				CO2)	1-520.8						
NOx	BAAQMD	Y		10 ppmv NOx at 3% O2 (3	BAAQMD	C	CEM				
	Condition			hour average), except	Condition						
	21096,			startups,shutdowns and	21096, Part						
	Part 3b			standby mode	5a						
NOx	BAAQMD	Y		2.86 ton/yr	BAAQMD	C	CEM				
	Condition				Condition						
	21096,				21096, Part						
	Part 10				5c						
Heat input	BAAQMD	Y		50.2 MMbtu/hr;	BAAQMD	С	continuous				
	Condition			439,800 MMbtu/12-month	Condition		fuel flow				
	21096,			period	21096, Part 4		monitor				
	Part 2										

Table VII – A.20 Applicable Limits and Compliance Monitoring Requirements S461 – UNIT 250, B-701 HEATER

	S401 – UNIT 250, B-701 HEATER											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
O2		Y		No limit	BAAQMD	С	O2 Monitor					
					Condition							
					21096, Part							
					5a							
СО	BAAQMD	Y		28 ppmv CO at 3% O2 (8	BAAQMD	P/SA	source test					
	Condition			hour average) when fired	Condition							
	21096,			50% capacity or more and	21096, Part							
	Part 3b			50 ppmv CO at 3% O2 (8	5b							
				hour average) when fired								
				less than 50% capacity,								
				except startups, shutdowns								
				and standby mode								
CO	BAAQMD	Y		5.06 tons/yr	BAAQMD	P/initial and	Hand held					
	Condition				Condition	once every	CO monitor					
	21096,				21096, Part	three years	for startup,					
	Part 10				5c	for startup,	shutdown,					
						shutdown,	and standby					
						and standby	modes					
						modes						
POC	BAAQMD	Y		5.5 lb POC per MM ft3 of		N	None					
	Condition			fuel								
	21096,											
	Part 3b											
POC	BAAQMD	Y		0.79 tons/yr	None	N	None					
	Condition			-								
	21096,											
	Part 10											
PM10	BAAQMD	Y		7.6 lb PM10 per MM ft3 of		N	None					
	Condition			fuel								
	21096,											
	Part 3b											
L					0							

Table VII – A.20 Applicable Limits and Compliance Monitoring Requirements S461 – UNIT 250, B-701 HEATER

S461 – UNIT 250, B-701 HEATER											
			Future		Monitoring	Monitoring					
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring				
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type				
ammonia	BAAQMD	N		10 ppmv ammonia at 3%		N	None				
	Condition			O2 (8 hour average), except							
	21096,			startups, shutdowns and							
	Part 3b			standby mode							
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None				
	6-1-301			than 3 minutes in any hour	gaseous-						
					fueled						
					sources						
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None				
	6-301			than 3 minutes in any hour	gaseous-						
					fueled						
					sources						
FP	BAAQMD	N		Prohibition of nuisance	None for	N	None				
	6-1-305				gaseous-						
					fueled						
					sources						
FP	SIP	Y		Prohibition of nuisance	None for	N	None				
	6-305				gaseous-						
					fueled						
					sources						
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None				
	6-1-310.1				gaseous-						
					fueled						
					sources						
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None				
	6-310.3				gaseous-						
					fueled						
					sources						
SO2	BAAQMD	Y		1,612 lb/day SO2 over any	BAAQMD	P/3 times	GC or total				
	Condition			month from non-	Condition	per day	sulfur				
	1694, Part			cogeneration sources	1694, Part		analysis				
	A.4				A.3a						

Table VII – A.20 Applicable Limits and Compliance Monitoring Requirements S461 – UNIT 250, B-701 HEATER

	S401 – UNII 250, D-701 HEATER											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
TRS	BAAQMD	Y		100 ppmv TRS (1 day	BAAQMD	С	GC or total					
	Condition			average), 45 ppmv TRS	Condition		sulfur					
	21096,			(annual average)	21096, Part		analysis					
	Part 6				7a, 7b							
H2S	40 CFR	Y		fuel gas H2S concentration	Condition	P/3 times	H2S					
	60.104(a)			limited to 230 mg/dscm	21096, part	per day	analysis					
	(1)			(0.10 gr/dscf)	7c							
Duration of	BAAQMD	Y		24 consecutive hours	Condition	P/E	records					
startup	Condition				21097, part							
	21096,				10							
	Part 3b											
Duration of	BAAQMD	Y		24 consecutive hours	Condition	P/E	records					
shutdown	Condition				21097, part							
	21096,				10							
	Part 3b											
Duration of	BAAQMD	Y		72 consecutive hours	Condition	P/E	records					
heater	Condition				21097, part							
dryout/	21096,				10							
warmup	Part 3b											
periods												

Table VII – A.21
Applicable Limits and Compliance Monitoring Requirements
S45 – UNIT 246 B-801 A/B, HEATER

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	Y		5 ppmv NOx at 3% O2 (3	BAAQMD	С	CEM
	Condition			hour average), except	Condition		
	22962,			startups, hutdowns and	22962, Part 8		
	Part 4a			standby mode			

 $Table\ VII-A.21 \\ Applicable\ Limits\ and\ Compliance\ Monitoring\ Requirements \\ S45-Unit\ 246\ B-801\ A/B,\ HEATER$

			Future	JNII 240 D-001 A/D, II		Monitoring	
TD 6	G*4 4*	DD			Monitoring	_	3.5 1/2
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	Y		2.3 tons/yr	BAAQMD	С	CEM
	Condition				Condition		
	22962,				22962, Part 8		
	Part 6a						
NOx	BAAQMD	Y		13.5 tons per any	BAAQMD	P/A	CEMS,
	Condition			consecutive 12 months for	Condition		source tests,
	22970,			S45, S434, and S1010	22970, Part		and
	Part A.2.a			combined	A.4.a.i		calculations
O2		Y		No limit	BAAQMD	C	O2 Monitor
					Condition		
					22962, Part 8		
CO	BAAQMD	Y		10 ppmv CO @ 3% O2 (3-	BAAQMD	P/SA	source test
	Condition			hr average) when operating	Condition		
	22962,			over 30 MMbtu/hr except	22962, Part 9		
	Part 4b			startups and shutdowns;			
	and 4e			28 ppmv CO at 3% O2 (3-			
				hr average) when operating			
				below 30 MMbtu/hr, except			
				startups,shutdowns and			
				standby mode			
CO	BAAQMD	Y		2.8 tons/yr	BAAQMD	P/SA	source test
	Condition				Condition		
	22962,				22962, Part 9		
	Part 6b						
CO	BAAQMD	Y		2.8 tons/yr	BAAQMD	P/initial and	Hand held
	Condition				Condition	once every	CO monitor
	22962,				22962, Part	three years	for startup,
	Part 6b				9a	for startup,	shutdown,
						shutdown,	and standby
						and standby	modes
						modes	
CO	BAAQMD	Y		40.72 tons per any	BAAQMD	P/A	Source tests,
	Condition			consecutive 12 months for	Condition		and
	22970,			S45, S434, and S1010	22970, Part		calculations
	Part A.2.e			combined	A.4.a.ii		

Table VII – A.21
Applicable Limits and Compliance Monitoring Requirements
S45 – UNIT 246 B-801 A/B, HEATER

				JNII 240 D-801 А/D, п			
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	Y		5.5 lb POC per MM ft3 of	None	N	None
	Condition			fuel			
	22962,						
	Part 4c						
POC	BAAQMD	Y		1.5 tons/yr	None	N	None
	Condition			j			
	22962,						
	Part 6c						
POC	BAAQMD	Y		1.9 tons per any	BAAQMD	P/A	Source tests,
	Condition			consecutive 12 months for	Condition		and
	22970,			S45, S434, and S1010	22970, Part		calculations
	Part A.2.d			combined	A.4.a.iii		
PM10	BAAQMD	Y		7.6 lb PM10 per MM ft3 of	None	N	None
	Condition			fuel			
	22962,						
	Part 4d						
PM10	BAAQMD	Y		1.9 tons/yr	None	N	None
	Condition						
	22962,						
	Part 6d						
PM10	BAAQMD	Y		2.9 tons per any	BAAQMD	P/A	calculations
	Condition			consecutive 12 months for	Condition		
	22970,			S45, S434, and S1010	22970, Part		
	Part A.2.c			combined	A.4.a.iii		
PM10	BAAQMD	Y		16.7 tons per any	BAAQMD	P/A	Source tests,
	Condition			consecutive 12 months for	Condition		and
	22970,			S45, S434, and S1010 at	22970, Part		calculations
	Part A.6			Facility A0016 and S2 and	A.6		
				S3 at Facility B7419,			
	D. A. O. A.D.	N.T.		combined		N.T.	NT.
ammonia	BAAQMD	N		15 ppmv ammonia at 3%	None	N	None
	Condition			O2 (8 hour average), except startups, shutdowns and			
	22962, Part 5			startups,snutdowns and standby mode			
Ammonia	BAAQMD	N			BAAQMD	P/A	Course test-
Ammonia	Condition	IN		6.35 tons per any consecutive 12 months for	Condition	r/A	Source tests and
	22970,			S45, S434, and S1010	22970, Part		calculations
	Part A.2.g			combined	A.4.a.iv		calculations
L	ran A.2.g			Comonieu	A.4.a.1V		l

Table VII – A.21
Applicable Limits and Compliance Monitoring Requirements
S45 – UNIT 246 B-801 A/B, HEATER

	S45 – UNIT 246 B-801 A/B, HEATER												
			Future		Monitoring	Monitoring							
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring						
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type						
Opacity	BAAQMD	N		Ringelmann 1 for no more	None for	N	None						
	6-1-301			than 3 minutes in any hour	gaseous-								
					fueled								
					sources								
Opacity	SIP	Y		Ringelmann 1 for no more	None for	N	None						
	6-301			than 3 minutes in any hour	gaseous-								
					fueled								
					sources								
FP	BAAQMD	N		Prohibition of nuisance	None for	N	None						
	6-1-305				gaseous-								
					fueled								
					sources								
FP	SIP 6-305	Y		Prohibition of nuisance	None for	N	None						
					gaseous-								
					fueled								
					sources								
FP	BAAQMD	N		0.15 grain/dscf @ 6% O2	None for	N	None						
	6-1-310.1				gaseous-								
					fueled								
					sources								
FP	SIP	Y		0.15 grain/dscf @ 6% O2	None for	N	None						
	6-310.3				gaseous-								
					fueled								
					sources								
SO2	BAAQMD	Y		4.7 tons/yr	BAAQMD	P/3	Total sulfur						
	Condition				Condition	times/day	analysis						
	22962,				22962, Part								
002	Part 6e	3.7		24.4.	11	D/4	G						
SO2	BAAQMD	Y		34.4 tons per any	BAAQMD	P/A	Source tests,						
	Condition			consecutive 12 months for	Condition		and						
	22970,			S45, S434, and S1010	22970, Part		calculations						
1120	Part A.2.b	37		combined	A.4.a.v	D/2	1100						
H2S	40 CFR 60	Y		fuel gas H2S concentration	40 CFR	P/3	H2S						
	Subpart J 60.104(a)			limited to 230 mg/dscm	60.13(i);	times/day	analysis						
				(0.10 gr/dscf) except for gas burned as a result of									
	(1)												
				process upset	<u> </u>								

 $Table\ VII-A.21$ Applicable Limits and Compliance Monitoring Requirements $845-U{\rm NIT}\ 246\ B-801\ A/B,\ HEATER$

545 – UNII 240 D-001 A/D, HEATER											
			Future		Monitoring	Monitoring					
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring				
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type				
S in fuel	BAAQMD	Y		100 ppmv total sulfur in	BAAQMD	P/3 times	Sulfur				
gas	Condition			fuel, monthly average	Condition	per day	analysis				
	22962,				22962, Part						
	Part 10				11 and 12						
Sulfuric	BAAQMD	Y		6.01 tons per any	BAAQMD	P/A	Source tests				
Acid Mist	Condition			consecutive 12 months for	Condition		and				
	22970,			S45, S434, and S1010	22970, Part		calculations				
	Part A.2.f			combined	A.4.a.iii						
	BAAQMD	Y		38 lb/day for S45, S434,	BAAQMD	P/A	Source tests				
	Condition			and S1010 at Facility	Condition		and				
	22970,			A0016 and S2 at Facility	22970, Part		calculations				
	Part A.3			B7419 combined	A.4.a.iii						
Heat input	BAAQMD	Y		85 MMbtu/hr;	BAAQMD	C	Continuous				
	Condition			744,600 MMbtu/12-month	Condition		fuel flow				
	22962,			period	22962, Part 7		monitor				
	Part 2										
Duration of	BAAQMD	Y		48 consecutive hours	Condition	P/E	Records				
startup	Condition				22962, part						
	22962,				14						
	Part 4										
Duration of	BAAQMD	Y		48 consecutive hours	Condition	P/E	Records				
shutdown	Condition				22962, part						
	22962,				14						
	Part 4										
Duration of	BAAQMD	Y		24 consecutive hours	Condition	P/E	records				
heater	Condition				22962, part						
dryout/	22962,				14						
warmup	Part 4										
periods											

Table VII – B Applicable Limits and Compliance Monitoring Requirements S400 WET WEATHER WASTEWATER SUMP S401 DRY WEATHER WASTEWATER SUMP

Type of Limit	Citation of Limit	FE	Future Effective	T ::4	Monitoring Requirement	Monitoring Frequency	Monitoring
		Y/N	Date	Limit	Citation	(P/C/N)	Type
VOC	BAAQMD	Y		500 ppm (expressed as	BAAQMD	P/M, Q	VOC
	Condition			methane)	Condition		analyzer
	1440, Part				1440, Part 4		
	4.b;						
	8-8-204						
VOC	40 CFR	Y		No visible gaps or cracks in	40 CFR	P/SA	Visual
	60.692-			joints or seals, or other	60.692-		inspections
	2(c)(1)			problems that could result	2(c)(2)		
				in VOC emissions			
throughput	BAAQMD	Y		3.68 E 9 gal/yr each for	BAAQMD	P/M	records
	Condition			S400, S401	Condition		
	20989,				20989, Part A		
	Part A						

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S324 API OIL/WASTEWATER SEPARATOR

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
VOC	BAAQMD	Y		500 ppm (expressed as	BAAQMD	P/M, Q	VOC
	Condition			methane)	Condition		analyzer
	1440, Part				1440, Part 4		
	4.a;						
	8-8-204						
VOC	BAAQMD	Y		No cracks or gaps in roof	BAAQMD	P/SA	Visual
	8-8-306.1			seals, access doors, and	8-8-306.1		inspections
				other openings in the			
				effluent channel greater			
				than 0.32 cm (0.125 inch)			
				between the roof and wall			

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S324 API OIL/WASTEWATER SEPARATOR

	S324 API OIL/WASTEWATER SEPARATOR												
			Future		Monitoring	Monitoring							
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring						
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре						
VOC	40 CFR	Y		Fixed roof access doors or	40 CFR	P/SA	Visual						
	60.692-3(a)			openings shall be gasketed,	60.692-		inspections						
				latched, and kept closed	3(a)(4)								
VOC	40 CFR	Y		Fixed-roof operates with no	40 CFR	P/A	Method 21						
	61.347(a)			detectable emissions as	61.347(a)		portable						
	(1)(i)(A)			indicated by annual	(1)(i)(A)		hydrocarbon						
				instrument monitoring of <			detector						
				500 ppm above background									
through-	BAAQMD	Y		maximum design	None	N	None						
put	Condition			throughput - 7,500 gpm									
	1440, Part 6			during media filter									
				backwash and 7,000 gpm									
				during all other times									
Through-	BAAQMD	Y		3.68 E 9 gal/yr	BAAQMD	P/M	Records						
put	Condition				Condition								
	20989, Part				20989, Part A								
	A												
NOx	BAAQMD	Y	Upon	0.64 lb/hr NOx	BAAQMD	E	source test						
	Condition		Startup of		Condition		records						
	26069, Part		A-53		26069, Part 8								
	1												
СО	BAAQMD	Y	Upon	1.7 lb/hr CO	BAAQMD	E	source test						
	Condition		Startup of		Condition		records						
	26069, Part		A-53		26069, Part 8								
	1												
VOC	BAAQMD	Y	Upon	Outlet concentration	BAAQMD	C/E	Continuous						
	Condition		Startup of	<=10ppmv or;	Condition		temperature						
	26069, Part		A-53	VOC destruction	26069, Part 5,		monitoring						
	1			efficiency>= 98.5% if inlet	and 8		device, and						
				VOC > 2,000 ppmv and			source test						
				VOC destruction efficiency			records						
				>= 97% if inlet VOC <=									
				2,000 ppmv									

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S324 API OIL/WASTEWATER SEPARATOR

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Temperat	BAAQMD	Y	Upon	Minimum temperature of	BAAQMD	С	Continuous
ure	Condition		Startup of	1400 F except for allowable	Condition		temperature
	26069, Part		A-53	temperature excursions as	26069, Part 5		monitoring
	2			provided for in BAAQMD			device
				Condition 26069, Part 3			

Table VII – D

Applicable Limits and Compliance Monitoring Requirements
S1007 DISSOLVED AIR FLOTATION UNIT

	STOOT DISSOLVED AIR PLOTATION UNIT										
Type of	Citation of Limit	מומו	Future		Monitoring	Monitoring	Manitanina				
Limit	of Limit	FE	Effective		Requirement	Frequency	Monitoring				
		Y/N	Date	Limit	Citation	(P/C/N)	Type				
VOC	BAAQMD	Y		Roof seals, access doors,	BAAQMD	P/SA	visual				
	8-8-307.1			and other openings shall be	8-8-307.1						
				checked by visual							
				inspection initially and							
				semiannually thereafter to							
				ensure that no cracks or							
				gaps greater than 0.32 cm							
				(0.125 inch) occur in the							
				roof or between the roof							
				and wall; and that the							
				access doors and other							
				openings are closed and							
				gasketed properly							
				(Standard applies when unit							
				not controlled by organic							
				compound vapor recovery							
				system)							

Table VII – D

Applicable Limits and Compliance Monitoring Requirements

\$1007 DISSOLVED AIR FLOTATION UNIT

	S1007 DISSOLVED AIR FLOTATION UNIT										
Type of	Citation		Future		Monitoring	Monitoring					
Limit	of Limit	FE	Effective		Requirement	Frequency	Monitoring				
		Y/N	Date	Limit	Citation	(P/C/N)	Type				
VOC	BAAQMD	N		For control by thermal	BAAQMD	C	Temperature				
	8-8-307.2			oxidizer:	Condition		monitoring				
				organic compound vapor	1440, Part						
				recovery system with a	7b(iii)						
				combined collection and							
				destruction efficiency of at							
				least 70 percent, by weight							
				(Standard applies when unit							
				controlled by organic							
				compound vapor recovery							
				system)							
VOC	BAAQMD	N		For control by carbon:	BAAQMD	P/Daily,	PID or FID				
	8-8-307.2			organic compound vapor	Condition	then weekly					
				recovery system with a	1440, Part 7.c						
				combined collection and							
				destruction efficiency of at							
				least 70 percent, by weight							
				(Standard applies when unit							
				controlled by organic							
				compound vapor recovery							
				system)							
VOC	SIP	Y		For control by thermal	BAAQMD	С	Temperature				
	8-8-307.2			oxidizer:	Condition		monitoring				
				organic compound vapor	1440, Part						
				recovery system with a	7b(iii)						
				combined collection and							
				destruction efficiency of at							
				least 70 percent, by weight							
				(Standard applies when unit							
				not controlled by organic							
				compound vapor recovery							
				system)							

Table VII – D

Applicable Limits and Compliance Monitoring Requirements

\$1007 DISSOLVED AIR FLOTATION UNIT

	S1007 DISSOLVED AIR FLOTATION UNIT												
Type of	Citation		Future		Monitoring	Monitoring							
Limit	of Limit	FE	Effective		Requirement	Frequency	Monitoring						
		Y/N	Date	Limit	Citation	(P/C/N)	Type						
VOC	SIP	Y		For control by carbon:	BAAQMD	P/Daily,	PID or FID						
	8-8-307.2			organic compound vapor	Condition	then weekly							
				recovery system with a	1440, Part 7.c								
				combined collection and									
				destruction efficiency of at									
				least 70 percent, by weight									
				(Standard applies when unit									
				controlled by organic									
				compound vapor recovery									
				system)									
VOC	BAAQMD	Y		500 ppm (expressed as	BAAQMD	P/M, Q	VOC						
	Condition			methane)	Condition		analyzer						
	1440, Part				1440, Part 4								
	4.b;												
	8-8-204												
POC	BAAQMD	Y		For control by thermal	BAAQMD	C	Temperature						
	Condition			oxidizer:	Condition		monitoring						
	1440, Part			Reduction of 44 tons POC	1440, Part		2						
	7a			per year	7b(iii)								
POC	BAAQMD	Y		For control by carbon:	BAAQMD	P/Daily,	PID or FID						
	Condition			Reduction of 44 tons POC	Condition	then weekly							
	1440, Part			per year	1440, Part 7.c								
	7a												
Benzene	40 CFR	Y		No detectable emissions	40 CFR	P/A	Method 21						
	61.343(a)			over 500 ppmv above	61.355(h)		testing						
	(1)(i)(A)			background									
				(Standard applies when unit									
				controlled by organic									
				compound vapor recovery									
	D 1 1 23 77			system)	N	3.7							
Opacity	BAAQMD	N		Ringelmann No. 1 for no	None for	N	None						
	6-1-301			more than 3 minutes/hour	gaseous-								
					fueled								
					sources								

Table VII – D

Applicable Limits and Compliance Monitoring Requirements
S1007 DISSOLVED AIR FLOTATION UNIT

Т С	G'4-4'	'		SSULVED AIR FLUIAI		34	
Type of	Citation		Future		Monitoring	Monitoring	
Limit	of Limit	FE	Effective		Requirement	Frequency	Monitoring
		Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no	None for	Y	None
				more than 3 minutes/hour	gaseous-		
					fueled		
					sources		
FP	BAAQMD	N		Prohibition of nuisance	None for	N	None
	6-1-305				gaseous-		
					fueled		
					sources		
FP	SIP 6-305	Y		Prohibition of nuisance	None for	N	None
					gaseous-		
					fueled		
					sources		
FP	BAAQMD	N		0.15 grain/dscf	None for	N	None
	6-1-310.1				gaseous-		
					fueled		
					sources		
FP	SIP 6-310	Y		0.15 grain/dscf	None for	N	None
					gaseous-		
					fueled		
					sources		
Pressure	40 CFR	Y		Pressure of head space less	40 CFR	С	Pressure
	61.353(a)			than atmospheric in S1007	61.354(g)		Monitoring
	(1)(i)(C)			(Standard applies when unit			
				controlled by organic			
				compound vapor recovery			
				system)			
through-	BAAQMD	Y		maximum design	None	N	None
put	Condition	-		throughput - 7,500 gpm	1,0110	<u> </u>	1,0110
Par	1440, Part			during media filter			
	6			backwash and 7,000 gpm			
				during all other times			
	<u> </u>			during an other times	<u> </u>		

Table VII – D

Applicable Limits and Compliance Monitoring Requirements
S1007 DISSOLVED AIR FLOTATION UNIT

Type of Limit	Citation of Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
		Y/N	Date	Limit	Citation	(P/C/N)	Type
throughput	BAAQMD	Y		3.68 E 9 gal/yr	BAAQMD	P/M	records
	Condition				Condition		
	20989,				20989, Part A		
	Part A						

Table VII – Da

Applicable Limits and Compliance Monitoring Requirements

A49 DAF THERMAL OXIDIZER

			Future	DAT THERWAL OAD	Monitoring	Monitoring	
					S		
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
VOC	BAAQMD	N		For control by thermal	BAAQMD	С	Temperature
	8-8-307.2			oxidizer:	Condition		monitoring
				organic compound vapor	1440, Part		
				recovery system with a	7b(iii)		
				combined collection and			
				destruction efficiency of at			
				least 70 percent, by weight			
				(Standard applies when unit			
				controlled by organic			
				compound vapor recovery			
				system)			
VOC	SIP	Y		For control by thermal	BAAQMD	C	Temperature
	8-8-307.2			oxidizer:	Condition		monitoring
				organic compound vapor	1440, Part		
				recovery system with a	7b(iii)		
				combined collection and			
				destruction efficiency of at			
				least 70 percent, by weight			
				(Standard applies when unit			
				controlled by organic			
				compound vapor recovery			
				system)			

Table VII – Da Applicable Limits and Compliance Monitoring Requirements A49 DAF THERMAL OXIDIZER

	A49 DAF THERMAL OXIDIZER											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре					
Benzene	40 CFR	Y		95% control of organic	40 CFR	С	Temperature					
	61.349(a)			emissions	61.354(c)(1)		Monitoring					
	(2)(i)(A)											
Benzene	40 CFR	Y		TBD	40 CFR	С	Temperature					
	61.349(a)				61.356(f)(3)		Monitoring					
	(2)(i)(A)				(i)							
Benzene	61.349(a)	Y		CVS leak tightness	40 CFR	P/A	Method 21					
	(1)(i)			standards (<500 ppmw)	61.349(a)(1)							
					(i)							
Benzene	61.349(a)	Y		CVS with bypass line car-	40 CFR	P/M	Visual					
	(1)(ii)(B)			seal closed	61.354(f)(1)		Inspection					
Benzene	61.349(a)	Y		CVS and control device	40 CFR	P/Q	Visual					
	(2)(i)(A)			evidence of visual defects	61.349(f)		Inspection					
POC	BAAQMD	Y		For control by thermal	BAAQMD	С	Temperature					
	Condition			oxidizer:	Condition		monitoring					
	1440, Part			Reduction of 44 tons POC	1440, Part							
	7a			per year	7b(iii)							
Tempe-	BAAQMD	Y		1445°F	BAAQMD	С	Temperature					
rature	Condition				Condition		monitoring					
	1440, Part				1440, Part							
	7b(ii)				7b(iii)							
Opacity	BAAQMD	N		Ringelmann No. 1 for no	None for	N	None					
	6-1-301			more than 3 minutes/hour	gaseous-							
					fueled							
					sources							
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no	None for	Y	None					
				more than 3 minutes/hour	gaseous-							
					fueled							
					sources							
FP	BAAQMD	N		Prohibition of nuisance	None for	N	None					
	6-1-305				gaseous-							
					fueled							
	grp : 5 5 1				sources	3-						
FP	SIP 6-305	Y		Prohibition of nuisance	None for	N	None					
					gaseous-							
					fueled							
					sources							

Table VII – Da Applicable Limits and Compliance Monitoring Requirements A49 DAF THERMAL OXIDIZER

				_			
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
FP	BAAQMD	N		0.15 grain/dscf	None for	N	None
	6-1-310.1				gaseous-		
					fueled		
					sources		
FP	SIP 6-310	Y		0.15 grain/dscf	None for	N	None
					gaseous-		
					fueled		
					sources		

Table VII – Db

Applicable Limits and Compliance Monitoring Requirements

A51, DAF CARBON BED

Type of	Citation		Future	S1, DAT CARDON BE	Monitoring	Monitoring	
Limit	of Limit	FE	Effective		Requirement	Frequency	Monitoring
		Y/N	Date	Limit	Citation	(P/C/N)	Туре
VOC	BAAQMD	N		organic compound vapor	BAAQMD	С	Break-
	8-8-307.2			recovery system with a	Condition		through
				combined collection and	1440, Part		monitoring
				destruction efficiency of at	7c(iii)-(iv)		
				least 70 percent, by weight			
				(Standard applies when unit			
				not controlled by organic			
				compound vapor recovery			
				system)			
VOC	SIP	Y		organic compound vapor	BAAQMD	С	Break-
	8-8-307.2			recovery system with a	Condition		through
				combined collection and	1440, Part		monitoring
				destruction efficiency of at	7c(iii)-(iv)		
				least 70 percent, by weight			
				(Standard applies when unit			
				not controlled by organic			
				compound vapor recovery			
				system)			

Table VII – Db

Applicable Limits and Compliance Monitoring Requirements

A51, DAF CARBON BED

	A51, DAF CARBON BED											
Type of	Citation		Future		Monitoring	Monitoring						
Limit	of Limit	FE	Effective		Requirement	Frequency	Monitoring					
		Y/N	Date	Limit	Citation	(P/C/N)	Type					
Benzene	40 CFR	Y		95% control of organic	40 CFR	Daily or at	Break-					
	61.349(a)			emissions	61.354(d)	intervals no	through					
	(2)(ii)					greater than	monitoring					
						20% of						
						design						
						replacement						
						interval						
Benzene	61.349(a)	Y		CVS leak tightness	40 CFR	P/A	Method 21					
	(1)(i)			standards (<500 ppmw)	61.349(a)(1)	_,						
	(1)(1)			standards (1500 ppin w)	(i)							
Benzene	61.349(a)	Y		CVS with bypass line car-	40 CFR	P/M	Visual					
Denzene	(1)(ii)(B)	1		seal closed	61.354(f)(1)	1 / 141	Inspection					
Damzana		Y				D/O	Ī					
Benzene	61.349(a)	Y		CVS and control device	40 CFR	P/Q	Visual					
POC	(2)(i)(A) BAAQMD	Y		evidence of visual defects For control by carbon:	61.349(f)	P/Daily,	Inspection PID or FID					
POC	Condition	1		Reduction of 44 tons POC	BAAQMD Condition	then weekly	PID OF FID					
	1440, Part			per year	1440, Part	then weekly						
	7a, 40			1 3	7.c(v), 40							
	CFR				CFR							
	61.349(a)				61.354(d)							
	(2)(ii)											
VOC	BAAQMD Condition	Y		98% reduction of VOC, or	BAAQMD Condition	P/Daily,	PID or FID					
	1440, Part			10 ppm	1440, Part	then weekly						
	7c(vi)				7.c(v), 40							
	, 5(12)				CFR							
					61.354(d)							
Opacity	BAAQMD	N		Ringelmann No. 1 for no	None	N	None					
0 :	6-1-301			more than 3 minutes/hour		**						
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no	None	Y	None					
FP	BAAQMD	N		more than 3 minutes/hour Prohibition of nuisance	None	N	None					
11	6-1-305	11		1 Tomordon of nuisance	Tione	11	Tione					
FP	SIP 6-305	Y		Prohibition of nuisance	None	N	None					
FP	BAAQMD	N		0.15 grain/dscf	None	N	None					
	6-1-310.1											

Table VII – Db Applicable Limits and Compliance Monitoring Requirements A51, DAF CARBON BED

				,			
Type of	Citation		Future		Monitoring	Monitoring	
Limit	of Limit	FE	Effective		Requirement	Frequency	Monitoring
		Y/N	Date	Limit	Citation	(P/C/N)	Туре
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	None

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S381 AERATION TANK F-201; S382 AERATION TANK F-202;
S383 CLARIFIER F-203; S384 CLARIFIER F-204

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
VOC	BAAQMD	Y		500 ppm (expressed as	BAAQMD	P/M, Q	VOC
	Condition			methane)	Condition		analyzer
	1440, Part				1440, Part 4		
	4.c;						
	8-8-204						
Through-	BAAQMD	Y		3.68 E 9 gal/yr each for	BAAQMD	P/M	records
put	Condition			S381, S382, S383, S384	Condition		
	20989, Part				20989, Part A		
	A						

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S1008 PRIMARY STORMWATER BASIN
S1009 MAIN STORMWATER BASIN

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
VOC				None	BAAQMD	P/E	Records of
					8-8-501		bypassed
							wastewater,
							organic
							compound
							concen-
							tration
VOC	BAAQMD	Y		Minimize diversions	BAAQMD	P/E	records
	Condition				Condition		
	1440, Part 2				1440, Part 3		

Table VII - G

Applicable Limits and Compliance Monitoring Requirements S385 – WASTEWATER EFFLUENT MEDIA FILTER F271-F278 S386 – PAC REGENERATION SLUDGE THICKENER F-211 S387 – WET AIR REGENERATION SYSTEM P-202 S390 – THICKENED SLUDGE STORAGE F-106

S392 – REGENERATED PAC SLURRY STORAGE F-266

5372 - REGENERATED I AC SLURRI STORAGE I - 200									
Type of	Citation of		Future		Monitoring	Monitoring			
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring		
		Y/N	Date	Limit	Citation	(P/C/N)	Туре		
VOC	BAAQMD	Y		500 ppm (expressed as	BAAQMD	P/M, Q	VOC		
	Condition			methane)	Condition		analyzer		
	1440, Part				1440, Part 4				
	4.c;								
	8-8-204								
Through-	BAAQMD	Y		S385: 3.68 E 9 gal/yr	BAAQMD	P/M	records		
put	Condition			S386: 3.2 E 7 gal/yr,	Condition				
	20989, Part			S387: 13.14 E 6 gal/yr	20989, Part A				
	A			S390: 7.884 E 6 gal/yr					
				S392: 7.884 E 6 gal/yr					

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
WASTEWATER JUNCTION BOXES

Type of	Citation of		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
		Y/N	Date	Limit	Citation	(P/C/N)	Type
VOC	40 CFR	Y		Junction box covers shall	40 CFR	P/SA	Visual
	60.692-			have a tight seal around the	60.692-		inspections
	2(b)(2)			edge and kept in place at all	2(b)(3)		
				times			

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
WASTEWATER PROCESS SEWERS/SEWER LINES

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
VOC	40 CFR	Y		No visible gaps or cracks in	40 CFR	P/SA	Visual
	60.692-			joints or seals, or other	60.692-		inspections
	2(c)(1)			problems that could result	2(c)(2)		
				in VOC emissions			

Table VII – J

Applicable Limits and Compliance Monitoring Requirements
WASTEWATER GAUGING AND SAMPLING DEVICES

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
VOC	BAAQMD	Y		Vapor tight gauging and	BAAQMD	N	Portable
	8-8-303			sampling devices; 500 ppm	8-8-504		hydrocarbon
				(expressed as methane)	8-8-603		detector

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

			Future	AIL GASOLINE DIS	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
VOC	BAAQMD	Y	Dute	Vapor recovery	BAAQMD	A	Vapor
, 00	8-7-301.6			equipment shall be	8-7-301.13		tightness test
	and 8-7-			leak-free and vapor			
	302.5			tight			
VOC	BAAQMD	N		98% or highest vapor	None	N	None
	8-7-301.10			recovery rate specified			
				by CARB			
VOC	None			None	BAAQMD	A	Backpressure
					8-7-302.14		test
VOC	BAAQMD	N		Fugitives < 0.42	None	N	None
	8-7-313.1			lb/1000 gallon			
VOC	BAAQMD	N		Spillage ≤ 0.42	None	N	None
	8-7-313.2			lb/1000 gallon			
VOC	BAAQMD	N		Liquid Retain +	None	N	None
	8-7-313.3			Spitting ≤ 0.42			
				lb/1000 gallon			
VOC	SIP	Y		95% recovery of	None	N	None
	8-7-301.2			gasoline vapors			
VOC	California	N		Drop Tube/Drain	BAAQMD	P/36 months	CARB Test
	Air			Valve Test	Condition		Procedure
	Resources				18680, Part 2		TP201.1C or
	Board						201.1D
	Executive						
	Order VR-						
**************************************	101					5/04	G.155.
VOC	California	N		Torque Test	BAAQMD	P/36 months	CARB Test
	Air				Condition		Procedure
	Resources				18680, Part 2		TP201.1B
	Board						
	Executive Order VR-						
	101						
VOC	BAAQMD	Y		Leak Test	DAAOMD	P/A	CARB Test
VOC	Regulation	1		Leak Test	BAAQMD	r/A	Procedure
	301.13				Regulation		TP201.3
	301.13				301.13		11 201.3

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

	D2	<i>1</i> /T	TON-INET	AIL GASULINE DIS	I ENSING I'A	CILITI	
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
VOC	BAAQMD	Y		Vapor-to-Liquid (V/L)	CARB	P/A	CARB
	Regulation			Test	Executive		Executive
	302.15				Order VR-201		Order VR-201,
							Exhibit 5
VOC	BAAQMD	Y		Healy Clean Air	CARB	P/A	CARB
	Regulation			Separator Test	Executive		Executive
	302.15				Order VR-201		Order VR-201,
							Exhibit 4
Through-	BAAQMD	N		400,000 gal/yr	BAAQMD	P/A	Records
put	Condition				8-7-503		
	7523						
					BAAQMD		
					Condition	P/M	Records
					20989, Part A		
Through-	BAAQMD	Y		20 gpm	None	N	None
put	Condition						
	20989, Part						
	A						

$Table\ VII-L$ Applicable Limits and Compliance Monitoring Requirements $S296-C\text{--}1\ FLARE \\ S398-MP\text{--}30\ FLARE$

[Flares which are visually inspected upon release, with no remote viewing system]

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Opacity	BAAQMD	Y		Ringelmann No. 1 for no	BAAQMD	P/E	Visual
	6-1-301			more than 3 minutes/hr	Condition		Inspection
					18255, Part 4		
FP	BAAQMD	N		Prohibition of nuisance	None	N	None
	6-1-305						
FP	SIP	Y		Prohibition of nuisance	None	N	None
	6-305						

$Table\ VII-L$ Applicable Limits and Compliance Monitoring Requirements $S296-C\text{--}1\ FLARE$ $S398-MP\text{--}30\ FLARE$

[Flares which are visually inspected upon release, with no remote viewing system]

[I Iui C	Willelf at	V 15.	·	pecteu upon reiease, v			Jystem
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
FP	BAAQMD	Y		No emissions from source >	BAAQMD	P/E	Visual
	6-1-310.1			0.15 grains per dscf of gas	Condition		Inspection
				volume	18255, Part 4		
All		N			BAAQMD	P/C	Flow Rate
					12-11-501 &		
					12-11-505		
All		N			BAAQMD	P/E	Composition
					12-11-502.1 &		
					12-11-505		
All		N			BAAQMD	P/E	Composition
					12-11-502.3 &		
					12-11-505		
All		N			BAAQMD	P/C	Flame
					12-11-503 &		Detector
					12-11-505		
All		N			BAAQMD	P/C	Purge Gas
					12-11-504 &		Flow Rate
					12-11-505		
All		N			BAAQMD	P/C	1 frame per
					12-11-507		minute
							image video
							recording
H2S	60.103a(h)	Y		162 ppmv (3 hour average	60.107a(h)	P	Samples
	&			concentration)			
	60.107a(i)(
	2)(i)						
Tip	63.670(d)(1	Y	01/30/20	< 60 ft/s; < 400 ft/s and less	63.670(i) &	С	CPMS
Velocity) &		19	than Vmax as calculated in	63.670(k)		
	63.670(d)(2			63.670(d)(2)			
)		04/00/07		40.45040.5		GD1 16
Neat	63.670(e)	Y	01/30/20	NHV minimum value of	63.670(j) &	С	CPMS
Heating			19	270 Btu/scf on a 15-minute	63.670(m)		
Value				block average basis when			
				regulated material is routed			
				to the flare for at least 15			
				minutes			

Table VII – L Applicable Limits and Compliance Monitoring Requirements \$296 - C-1 Flare \$398 - MP-30 Flare

[Flares which are visually inspected upon release, with no remote viewing system]

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Pilot	63.670(b)	Y	01/30/20	Pilot flame must be present;	63.670(g)	С	CPMS
Flame			19	1 minute out of 15 where			
				the flame is not present is			
				considered a deviation			
Visible	63.670(c) &	Y	01/30/20	Not to exceed 5 minutes of	63.670(h)	C	Video
Emissions	63.670(h)		19	visible emissions in any 2			Monitoring
				consecutive hours, when			or Visible
				regulated material is routed			Observation
				to the flare and the vent gas			S
				flow rate is less than the			
				flare smokeless capacity			

$\begin{tabular}{ll} Table~VII-M\\ Applicable~Limits~and~Compliance~Monitoring~Requirements\\ S300-U-200~DelayeD~Coker\\ \end{tabular}$

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	N		abatement of emissions	BAAQMD	P/E	Records
	8-10-301			from process vessel	8-10-501 &		
				depressurization is required	8-10-502		
				until pressure is reduced to			
				less than 1000 mm Hg (4.6			
				psig)			
POC	SIP	Y		abatement of emissions	SIP	P/E	Records
	8-10-301			from process vessel	8-10-401.2		
				depressurization is required			
				until pressure is reduced to			
				less than 1000 mm Hg (4.6			
				psig)			

Table VII – M
Applicable Limits and Compliance Monitoring Requirements
\$300 – U-200 DELAYED COKER

			5500) = 0-200 DELATED CO	JKEK		
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Through-	BAAQMD	Y		81,000 bbl/day	BAAQMD	P/D	records
put	Condition				Condition		
	21092, Part				21092, Part 2		
	1						
Temperat	63.657(a)(1	Y	01/30/20	Each coke drum shall be	63.657(b) or	С	CPMS
ure/Pressu)(i) or		19	depressured to a closed	63.657(c)		
re	63.657(a)(1			blowdown system until			
)(ii)			coke drum vessel pressure			
				is at or below 2 psig or coke			
				drum vessel temperature is			
				at or below 220 degrees			
				Farenheight (both limits are			
				measured on a rolling 60-			
				event average)			

Table VII - Na

Applicable Limits and Compliance Monitoring Requirements S304 –U-229 LIGHT NAPHTHA HYDROTREATER;

S305 – U-230 Prefractionator / Naphtha Hydrotreater;

S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;

S318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT;

S319 – U-215 GASOLINE FRACTIONATING UNIT:

S322 – U-40 RAW MATERIALS RECEIVING; S339, U80 REFINED OIL SHIPPING UNIT;

S434, U246 HIGH PRESSURE REACTOR TRAIN (CRACKING);

S435 - REFORMATE SPLITTER; S436 - DEISOPENTANIZER;

S460 – U-250 ULSD HYDROTREATER

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
	For addition	al requ	irements for	S434, see Table VII-I.1.			

Table VII - Na

Applicable Limits and Compliance Monitoring Requirements S304 –U-229 LIGHT NAPHTHA HYDROTREATER;

S305 - U-230 Prefractionator / Naphtha Hydrotreater;

S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;

S318 - U-76 GASOLINE / MID-BARREL BLENDING UNIT;

S319 – U-215 GASOLINE FRACTIONATING UNIT;

S322 – U-40 RAW MATERIALS RECEIVING; S339, U80 REFINED OIL SHIPPING UNIT; S434, U246 HIGH PRESSURE REACTOR TRAIN (CRACKING);

S435 - REFORMATE SPLITTER; S436 - DEISOPENTANIZER;

S460 – U-250 ULSD HYDROTREATER

			D T 00 - 0	U-230 ULSD II IDRUI	 I		
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	N		abatement of emissions	BAAQMD	P/E	Records
	8-10-301			from process vessel	8-10-501 &		
				depressurization is required	8-10-502		
				until pressure is reduced to			
				less than 1000 mm Hg (4.6			
				psig)			
POC	SIP	Y		abatement of emissions	SIP	P/E	Records
	8-10-301			from process vessel	8-10-401.2		
				depressurization is required			
				until pressure is reduced to			
				less than 1000 mm Hg (4.6			
				psig)			
throughput	BAAQMD	Y		S305: 10.22 E 6 bbl/yr	BAAQMD	P/M	records
	Condition			S435: 6.6 E 6 bbl/yr	Condition		
	20989,			S436: 4.7 E 6 bbl/yr	20989, Part A		
	Part A			S437: 10.4 E 9 ft3/yr			
throughput	BAAQMD	N		S319: 3.51 E 6 bbl/yr	BAAQMD	P/M	records
	Condition				Condition		
	20989,				20989, Part A		
	Part A						
throughput	BAAQMD	Y		35,000 bbl/day (monthly	BAAQMD	P/D	records
(S460	Condition			average)	Condition		
only)	21094,			-	21094, Part 2		
	Part 1						

Table VII - Na

Applicable Limits and Compliance Monitoring Requirements S304 –U-229 LIGHT NAPHTHA HYDROTREATER;

S305 - U-230 Prefractionator / Naphtha Hydrotreater;

S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;

S318 - U-76 GASOLINE / MID-BARREL BLENDING UNIT;

S319 – U-215 GASOLINE FRACTIONATING UNIT;

S322 – U-40 RAW MATERIALS RECEIVING; S339, U80 REFINED OIL SHIPPING UNIT;

S434, U246 HIGH PRESSURE REACTOR TRAIN (CRACKING);

S435 – REFORMATE SPLITTER; S436 – DEISOPENTANIZER;

S460 - U-250 ULSD HYDROTREATER

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
throughput	BAAQMD	Y		12,198 bbl/day (monthly	BAAQMD	P/D	records
(S304	Condition			average)	Condition		
only)	21095,				21095, Part 2		
	Part 1						
throughput	BAAQMD	Y		113,150 bbl/day	BAAQMD	P/D	records
(S318	Condition			(except for diesel, which	Condition		
only)	22549,			does not have a daily limit)	22549, Part 3		
	Part 1						
throughput	BAAQMD	Y		41,300,000 bbl/yr excluding	BAAQMD	P/D	records
(S318	Condition			diesel	Condition		
only)	22549,				22549, Part 3		
	Part 2						
throughput	BAAQMD	Y		69,000 bbl/day	BAAQMD	P/D	records
(S307 +	Condition				Condition		
S434	22965,				22965, Part 2		
combined)	Part 1						
throughput	BAAQMD	Y		16,740 bbl/day	BAAQMD	P/D	Records
(S309	Condition				Condition		
only)	22967,				22967, Part 2		
	Part 1						
throughput	BAAQMD	Y		52,600,000 bbl/12-month	BAAQMD	P/D	Records
(S339	Condition			period	Condition		
only)	22968,				22968, Part 2		
	Part 1						

Table VII - Na

Applicable Limits and Compliance Monitoring Requirements S304 –U-229 LIGHT NAPHTHA HYDROTREATER;

S305 - U-230 Prefractionator / Naphtha Hydrotreater;

S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;

S318 - U-76 GASOLINE / MID-BARREL BLENDING UNIT;

S319 – U-215 GASOLINE FRACTIONATING UNIT;

S322 – U-40 RAW MATERIALS RECEIVING; S339, U80 REFINED OIL SHIPPING UNIT; S434, U246 HIGH PRESSURE REACTOR TRAIN (CRACKING);

S435 - REFORMATE SPLITTER; S436 - DEISOPENTANIZER;

S460 - U-250 ULSD HYDROTREATER

	S400 – U-250 ULSD HYDRUIREATER										
			Future		Monitoring	Monitoring					
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring				
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type				
throughput	BAAQMD	Y		9,855,000 bbl/12-month	BAAQMD	P/M	Records				
(S434	Condition			period	Condition						
only)	22969,				22969, Part 2						
	Part 1										
NOX	BAAQMD	Y		13.5 tons per any	BAAQMD	P/A	CEMS,				
(S434	Condition			consecutive 12 months for	Condition		source tests,				
only)	22970,			S45, S434, and S1010	22970, Part		and				
	Part A.2.a			combined	A.4.c		calculations				
CO	BAAQMD	Y		40.72 tons per any	BAAQMD	P/A	CEMS,				
(S434	Condition			consecutive 12 months for	Condition		source tests,				
only)	22970,			S45, S434, and S1010	22970, Part		and				
	Part A.2.e			combined	A.4.c		calculations				
POC	BAAQMD	Y		1.9 tons per any	BAAQMD	P/A	Source tests				
(S434	Condition			consecutive 12 months for	Condition		and				
only)	22970,			S45, S434, and S1010	22970, Part		calculations				
	Part A.2.d			combined	A.4.c						
PM10	BAAQMD	Y		2.9 tons per any	BAAQMD	P/A	Source tests				
(S434	Condition			consecutive 12 months for	Condition		and				
only)	22970,			S45, S434, and S1010	22970, Part		calculations				
	Part A.2.c			combined	A.4.c		2290				
PM10	BAAQMD	Y		16.7 tons per any	BAAQMD	P/A	Source tests				
(S434	Condition			consecutive 12 months for	Condition		and				
only)	22970,			S45, S434, and S1010 at	22970, Part		calculations				
	Part A.6			Facility A0016 and S2 and	A.6						
				S3 at Facility B7419,							
				combined							

Table VII - Na

Applicable Limits and Compliance Monitoring Requirements S304 -U-229 LIGHT NAPHTHA HYDROTREATER;

S305 - U-230 Prefractionator / Naphtha Hydrotreater;

S307 – U-240 UNICRACKING UNIT; S309 – U-248 UNISAR UNIT;

S318 - U-76 GASOLINE / MID-BARREL BLENDING UNIT;

S319 – U-215 GASOLINE FRACTIONATING UNIT;

S322 - U-40 RAW MATERIALS RECEIVING; S339, U80 REFINED OIL SHIPPING UNIT; S434, U246 HIGH PRESSURE REACTOR TRAIN (CRACKING);

S435 – REFORMATE SPLITTER; S436 – DEISOPENTANIZER;

S460 – U-250 ULSD HYDROTREATER

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Ammonia	BAAQMD	N		6.35 tons per any	BAAQMD	P/A	Source tests
(S434	Condition			consecutive 12 months for	Condition		and
only)	22970,			S45, S434, and S1010	22970, Part		calculations
	Part A.2.g			combined	A.4.c		
SO2	BAAQMD	Y		34.4 tons per any	BAAQMD	P/A	CEMS,
(S434	Condition			consecutive 12 months for	Condition		source tests,
only)	22970,			S45, S434, and S1010	22970, Part		and
	Part A.2.b			combined	A.4.c		calculations
Sulfuric	BAAQMD	Y		6.01 tons per any	BAAQMD	P/A	Source tests,
Acid Mist	Condition			consecutive 12 months for	Condition		and
(S434	22970,			S45, S434, and S1010	22970, Part		calculations
only)	Part A.2.f			combined	A.4.c		
Sulfuric	BAAQMD	Y		38 lb/day for S45, S434,	BAAQMD	C/D	CEMS
Acid Mist	Condition			and S1010 at Facility	Condition		
(S434	22970,			A0016 and S2 at Facility	22970, Part		
only)	Part A.3			B7419 combined	A.3		

Table VII – Nb
Applicable Limits and Compliance Monitoring Requirements
S306 – U-231 PLATFORMING UNIT; S308 – U-244 REFORMING UNIT;

			Future	WING CN11, 5500 - C-	Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	N	2400	abatement of emissions	BAAQMD	P/E	Records
100	8-10-301	11		from process vessel	8-10-501 &	·	
	0 10 301			depressurization is required	8-10-502		
				until pressure is reduced to			
				less than 1000 mm Hg (4.6			
				psig)			
POC	SIP	Y		abatement of emissions	SIP	P/E	Records
100	8-10-301	1		from process vessel	8-10-401.2	172	records
	0-10-301			depressurization is required			
				until pressure is reduced to			
				less than 1000 mm Hg (4.6			
				psig)			
TOC	40 CFR	Y		98% control of non-	Tables 17 of	С	Continuous
100	63.1566(a)	1		methane TOC by weight or	40 CFR 63,		monitoring
	(1)(ii) or			concentration of 20 ppmw	Subpart UUU		system
	(1)(i) as			as hexane, dry @ 3% O2,	Subpart CCC		pursuant to
	shown			whichever is less stringent			63.1572(c);
	above			or vent to flare which meets			or Pilot
	above			requirements of control			Flame
				devices in 63.11(b) (prior to			Detector
				January 30, 2019) or 63.670			
				(after January 30, 2019)			
HCl	40 CFR	Y		92% reduction or to	40 CFR	P/E	Color-metric
nei	63.1567(a)	•		concentration of 30 ppmv,	63.1572(c)(1)	1,2	monitoring
	(1)			dry @ 3% O2	and (2)		
	(1)			ury @ 370 O2			
throughput	BAAQMD	Y		S306: 7.67 E 6 bbl/yr	BAAQMD	P/M	records
	Condition				Condition		
	20989,				20989, Part A		
	Part A						
throughput	BAAQMD	Y		Applies to S308	BAAQMD	P/D	Records
	Condition			18,500 bbl/day	Condition		
	22966,				22966, Part 2		
	Part 1						

Table VII – Nc

Applicable Limits and Compliance Monitoring Requirements

\$437 - Hydrogen Plant

S457 – HYDROGEN PLANT									
			Future		Monitoring	Monitoring			
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring		
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type		
VOC	BAAQMD	Y		S437	None	N	None		
	8-2-301			emission streams with 15					
				lb/day AND 300 ppm total					
				carbon on a dry basis					
				prohibited					
POC	BAAQMD	N		abatement of emissions	BAAQMD	P/E	Records		
	8-10-301			from process vessel	8-10-501 &				
				depressurization is required	502				
				until pressure is reduced to					
				less than 1000 mm Hg					
POC	SIP	Y		abatement of emissions	SIP	P/E	Records		
	8-10-301			from process vessel	8-10-401.2				
				depressurization is required					
				until pressure is reduced to					
				less than 1000 mm Hg (4.6					
				psig)					
throughput	BAAQMD	Y		S437: 10.4 E 9 ft3/yr	BAAQMD	P/M	records		
	Condition				Condition				
	20989,				20989, Part A				
	Part A								

Table VII – O
Applicable Limits and Compliance Monitoring Requirements
S350 – U-267 CRUDE DISTILLATION UNIT

S350 – U-207 CRUDE DISTILLATION UNIT									
			Future		Monitoring	Monitoring			
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring		
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type		
POC	BAAQMD	N		abatement of emissions	BAAQMD	P/E	Records		
	8-10-301			from process vessel	8-10-501 &				
				depressurization is required	8-10-502				
				until pressure is reduced to					
				less than 1000 mm Hg (4.6					
				psig)					
POC	SIP	Y		abatement of emissions	SIP	P/E	Records		
	8-10-301			from process vessel	8-10-401.2				
				depressurization is required					
				until pressure is reduced to					
				less than 1000 mm Hg (4.6					
				psig)					
SO2	BAAQMD	Y		crude oil sulfur content	BAAQMD	P/E	analysis		
	Condition			limit (1.5 weight%)	Condition				
	383, Part 1a				383, Part 1b				
Through-	BAAQMD	Y		36,000 bbl/day	BAAQMD	P/D	records		
put	Condition				Condition				
	383, Part 2				383, Part 3				

 $Table\ VII-P \\ Applicable\ Limits\ and\ Compliance\ Monitoring\ Requirements \\ S432-U-215\ DEISOBUTANIZER$

			Future		Monitoring	Monitoring		
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring	
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type	
POC	BAAQMD	N		abatement of emissions	BAAQMD	P/E	Records	
	8-10-301			from process vessel	8-10-501 &			
				depressurization is required	502			
				until pressure is reduced to				
				less than 1000 mm Hg				

Table VII – P
Applicable Limits and Compliance Monitoring Requirements
\$432 – U-215 DEISOBUTANIZER

			D 102	- 0-213 DEISOBUTAN			
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
POC	SIP	Y		abatement of emissions	SIP	P/E	Records
	8-10-301			from process vessel	8-10-401.2		
				depressurization is required			
				until pressure is reduced to			
				less than 1000 mm Hg (4.6			
				psig)			
throughput	BAAQMD	Y		10,200 bbl/day	BAAQMD	P/D	records
	Condition				Condition		
	6725, Part				6725, Part 6		
	4						

$\label{eq:continuous_problem} Table~VII-Q.1 \\ Applicable~Limits~and~Compliance~Monitoring~Requirements$

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	Y		9 ppmv (note 1)	BAAQMD	С	CEM
	9-9-301.1.3			@15% O ₂ (dry)	9-9-501,		
					Condition		
					12122, Part 9c		
NOx	BAAQMD	N	2/1/10	< 9 ppmv (note 1)	BAAQMD	С	CEM
	9-9-301.2			@15% O ₂ (dry) or	9-9-501,		
				< 0.43 lb/MWhr	Condition		
					12122, Part 9c		

$\label{eq:continuous_problem} Table~VII-Q.1$ Applicable Limits and Compliance Monitoring Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	40 CFR	Y		110 ppmv	BAAQMD	С	CEM
	60.332			@15% O ₂ (dry)	9-9-501,		
	(a)(2)				Condition		
					12122, Part 9c		
					BAAQMD		
					Condition		
					18629, Part		
					IX.G.1.a		
NOx	BAAQMD	Y		66 lb/hr (averaged	BAAQMD	С	CEM
	Condition			over any 3 hour	Condition		
	12122, Part			period) and 167 ton/yr	12122, Part 9c		
	9a			for all sources; 528			
				lb/day for each			
				turbine/duct burner set			
				(condition invalid			
				after emissions			
				reduced to provide			
				offsets pursuant to			
				Application 13424)			
NOx	BAAQMD	Y		66 lb/hr (averaged	BAAQMD	С	CEM
	Condition			over any 3 hour	Condition		
	12122, Part			period) and 79.8	12122, Part 9c		
	9b			ton/yr for all sources;			
				528 lb/day for each			
				turbine/duct burner set			
				(condition in force			
				after emissions			
				reduced to provide			
				offsets pursuant to			
				Application 13424)			

$\label{eq:continuous_problem} Table~VII-Q.1$ Applicable Limits and Compliance Monitoring Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

Type of	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD	Y	Date	664 lb/day per	BAAQMD	(17C/N)	СЕМ
NOX	Condition	1		turbine/duct burner set	Condition	C	CEM
	18629, Part			AND 83 lb/hr total or	18629, Part		
	IX.E			25 ppmv at 15% O2 (3	IX.G.1.a		
	1112			hr average)	11101111		
СО	BAAQMD	Y		39 ppmv @ 15% O2	BAAQMD	С	CEM
	Condition				Condition		
	12122, Part				12122, Part 10b		
	7						
СО	BAAQMD	Y		200 ton/yr	BAAQMD	C	CEM
	Condition				Condition		
	12122, Part				12122, Part 10b		
	10a						
POC	BAAQMD	Y		6 ppmv @ 15% O2	BAAQMD	P/A	source test
	Condition				Condition		
	12122, Part				12122, Part 14		
	8						
POC	BAAQMD	Y		8.3 lb/hr, 30.5 ton/yr	BAAQMD	P/A	source test
	Condition				Condition		
	12122, Part				12122, Part 14		
	11						
Opacity	BAAQMD	N		Ringelmann No. 1 for	None for	N	None
	6-1-301			no more than 3	gaseous-fueled		
Omagita	SIP 6-301	Y		minutes/hour	sources	N	None
Opacity	SIP 0-301	ĭ		Ringelmann No. 1 for	None for	IN	none
				no more than 3	gaseous-fueled		
FP	BAAQMD	N		minutes/hour	sources	N	None
rr	6-1-305	IN		Prohibition of	None for	IN	none
				nuisance	gaseous-fueled		
					sources		

$\label{eq:continuous_problem} Table~VII-Q.1$ Applicable Limits and Compliance Monitoring Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

T 4		-	Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
FP	SIP 6-305	Y		Prohibition of	None for	N	None
				nuisance	gaseous-fueled		
					sources		
FP	BAAQMD	N		0.15 grain/dscf @ 6%	None for	N	None
	6-1-310.1			O2	gaseous-fueled		
					sources		
FP	SIP	Y		0.15 grain/dscf @ 6%	None for	N	None
	6-310.3			O2	gaseous-fueled		
					sources		
SO2	40 CFR	Y		0.8 % sulfur in fuel by	40 CFR	P/D, then	Sulfur analysis
	60.333(b)			weight	60.334(h)(1)	reduced	
				(refinery fuel gas	and	frequency	
				only)	60.334(h)(4)	according to	
					(i)(2)	custom	
						schedule	
SO2	40 CFR	Y		0.8 % sulfur in fuel by	40 CFR	N	None
	60.333(b)			weight	60.334(h)(3)(i)		
				(natural gas only)			
SO2	BAAQMD	Y		15.6 lb/hr at each	BAAQMD	C/P	H2S CEM for
	Condition			turbine/duct burner set	Condition		fuel gas AND
	18629, Part			AND 44 lb/hr total (3-	18629, Part		daily total
	IX.F			hr average); 34 lb/hr	IX.G.1.a		sulfur
				total (3-hr average) for			sampling of
				more than 36 days per			fuel gas
				year AND 153 ton/yr			
				total			

$\label{eq:continuous_problem} Table~VII-Q.1 \\ Applicable~Limits~and~Compliance~Monitoring~Requirements$

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

Type of Limit	Citation of	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	40 CFR	Y		fuel gas H2S	40 CFR	С	H2S analyzer
	60.104(a)			concentration limited	60.105(a)(4)		,
	(1)			to 230 mg/dscm (0.10			
				gr/dscf) except for gas			
				burned as a result of			
				process upset or gas			
				burned at flares from			
				relief valve leaks or			
				other emergency			
				malfunctions			
				(not applicable to			
				natural gas)			
H2S	40 CFR	Y		Natural gas only:	40 CFR	N	None
	60.104(a)			fuel gas H2S	60.105(a)(4)		
	(1)			concentration limited	(iv)(B)		
				to 230 mg/dscm (0.10			
				gr/dscf) except for gas			
				burned as a result of			
				process upset or gas			
				burned at flares from			
				relief valve leaks or			
				other emergency			
				malfunctions			

$\label{eq:continuous_problem} Table~VII-Q.1$ Applicable Limits and Compliance Monitoring Requirements

S352 - COMBUSTION TURBINE

S353 - COMBUSTION TURBINE

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation		_
			Date		Citation	(P/C/N)	Type
H2S	40 CFR	Y		Unit 240 Sweet		N	None
	60.104(a)			Unicracker Gas:	40 CFR		
	(1)			fuel gas H2S	60.105(a)(4)		
				concentration limited	(iv)(B)		
				to 230 mg/dscm (0.10			
				gr/dscf) except for gas			
				burned as a result of			
				process upset or gas			
				burned at flares from			
				relief valve leaks or			
				other emergency			
				malfunctions			
Through-	BAAQMD	Y		466 MMbtu/hr at each	BAAQMD	P/M	Fuel meter,
put	Condition			turbine/duct burner set	Conditions		records
	18629, Part			(moved from 8 rows	12122, part 9d;		
	IX.D.2			above)	18629, Part		
					IX.D.4		
Through-	BAAQMD	Y		1048 MMbtu/hr total	BAAQMD	P/M	Fuel meter,
put	Condition			(moved from 8 rows	Conditions		records
	18629, Part			above)	12122, part 9d;		
	IX.D.3				18629, Part		
					IX.D.4		

¹ BAAQMD Regulation 9-9-301.2, 9-9-301.3, 9-9-303, and 9-9-305 emission limits may be adjusted pursuant to BAAQMD Regulation 9-9-401.

Table VII – Q.2

Applicable Limits and Compliance Monitoring Requirements

S355 – SUPPLEMENTAL DUCT BURNERS FOR S352

S356 – SUPPLEMENTAL DUCT BURNERS FOR S353

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD	Y		66 lb/hr (averaged	BAAQMD	С	CEM
	Condition			over any 3 hour	Condition		
	12122, Part			period) and 167 ton/yr	12122, Part 9c		
	9a			for all sources; 528			
				lb/day for each			
				turbine/duct burner set			
				(condition invalid			
				after emissions			
				reduced to provide			
				offsets pursuant to			
				Application 13424)			
NOx	BAAQMD	Y		66 lb/hr (average over	BAAQMD	С	CEM
	Condition			any 3 hour period) and	Condition		
	12122, Part			79.8 ton/yr for all	12122, Part 9c		
	9b			sources; 528 lb/day for			
				each turbine/duct			
				burner set (condition			
				in force after			
				emissions reduced to			
				provide offsets			
				pursuant to			
				Application 13424)			
NOx	40 CFR	Y		0.20 lb/MMbtu for	40 CFR	N	None
	60.44b(a)			natural gas-firing only	60.48b(h) -		
	(4)(i)			conditions	Exempt from		
					NOx CEM		
					during natural		
					gas firing only		
					conditions		

Table VII – Q.2

Applicable Limits and Compliance Monitoring Requirements

S355 – SUPPLEMENTAL DUCT BURNERS FOR S352

S356 – SUPPLEMENTAL DUCT BURNERS FOR S353

		3331	Future	EMENTAL DUCT DO	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
NOx	40 CFR	Y		25 ppmv @ 15% O2	40 CFR	С	CEM
	60.44b(f)			(3-hr average) (based	60.48b(b)(l)		
				on PSD Permit	and		
				Condition 18629, Part	BAAQMD		
				IX.E)	Condition		
					18629, Part		
					IX.G.1.a		
NOx	BAAQMD	Y		664 lb/day per	BAAQMD	С	CEM
	Condition			turbine/duct burner set	Condition		
				AND 83 lb/hr total or	18629, Part		
	18629, Part			25 ppmv at 15% O2 (3	IX.G.1.a		
	IX.E			hr average)			
CO	BAAQMD	Y		39 ppmv @ 15% O2	BAAQMD	С	CEM
	Condition				Condition		
	12122, Part				12122, Part 10b		
	7						
CO	BAAQMD	Y		200 ton/yr	BAAQMD	С	CEM
	Condition				Condition		
	12122, Part				12122, Part 10b		
	10a						
POC	BAAQMD	Y		6 ppmv @ 15% O2	BAAQMD	P/A	source test
	Condition				Condition		
	12122, Part				12122, Part 14		
	8						
POC	BAAQMD	Y		8.3 lb/hr, 30.5 ton/yr	BAAQMD	P/A	source test
	Condition				Condition		
	12122, Part				12122, Part 14		
	11						
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for	None for	N	None
	0 1 301			no more than 3	gaseous-fueled		
				minutes/hour	sources		

Table VII – Q.2

Applicable Limits and Compliance Monitoring Requirements

S355 – SUPPLEMENTAL DUCT BURNERS FOR S352

S356 – SUPPLEMENTAL DUCT BURNERS FOR S353

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	SIP 6-301	Y		Ringelmann No. 1 for	None for	N	None
				no more than 3	gaseous-fueled		
				minutes/hour	sources		
FP	BAAQMD	N		Prohibition of	None for	N	None
	6-1-305			nuisance	gaseous-fueled		
					sources		
FP	SIP	Y		Prohibition of	None for	N	None
	6-1-305			nuisance	gaseous-fueled		
					sources		
FP	BAAQMD	N		0.15 grain/dscf @ 6%	None for	N	None
	6-1-310.1			O2	gaseous-fueled		
					sources		
FP	SIP	Y		0.15 grain/dscf @ 6%	None for	N	None
	6-310.3			O2	gaseous-fueled		
					sources		
Through-	BAAQMD	Y		2.42 E 12 btu/yr at	BAAQMD	P/D	Fuel meter,
put	Condition			S355, S356, S357	Condition		records
	12122,			(combined)	12122, Part 15		
	Part 6						
SO2	BAAQMD	Y		15.6 lb/hr at each	BAAQMD	C/P	H2S CEM for
	Condition			turbine/duct burner set	Condition		fuel gas AND
	18629, Part IX.F			AND 44 lb/hr total (3-	18629, Part		daily total sulfur
	1/1.1			hr average); 34 lb/hr	IX.G.1.a		sampling of
				total (3-hr average) for			fuel gas
				more than 36 days per			
				year AND 153 ton/yr			
				total			

Table VII – Q.2

Applicable Limits and Compliance Monitoring Requirements

S355 – SUPPLEMENTAL DUCT BURNERS FOR S352

S356 – SUPPLEMENTAL DUCT BURNERS FOR S353

		0331	Future	EMENTAL DUCT DO	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
H2S	40 CFR	Y		fuel gas H2S	40 CFR	C	H2S analyzer
	60.104(a)			concentration limited	60.105(a)(4)		,
	(1)			to 230 mg/dscm (0.10			
	. ,			gr/dscf) except for gas			
				burned as a result of			
				process upset or gas			
				burned at flares from			
				relief valve leaks or			
				other emergency			
				malfunctions			
H2S	40 CFR	Y		Natural gas only:	40 CFR	N	None
	60.104(a)			fuel gas H2S	60.105(a)(4)		
	(1)			concentration limited	(iv)(B)		
				to 230 mg/dscm (0.10			
				gr/dscf) except for gas			
				burned as a result of			
				process upset or gas			
				burned at flares from			
				relief valve leaks or			
				other emergency			
				malfunctions			
H2S	40 CFR	Y		Unit 240 Sweet		N	None
	60.104(a)			Unicracker Gas:	40 CFR		
	(1)			fuel gas H2S	60.105(a)(4)		
				concentration limited	(iv)(B)		
				to 230 mg/dscm (0.10			
				gr/dscf) except for gas			
				burned as a result of			
				process upset or gas			
				burned at flares from			
				relief valve leaks or			
				other emergency malfunctions			
Through	BAAQMD	Y		466 MMbtu/hr at each	BAAQMD	P/M	Fuel meter,
Through-	Condition	1		turbine/duct burner set	Condition	F/IVI	records
put	18629, Part			(moved from 2 rows	18629, Part		records
	IX.D.2			above)	IX.D.4		
	1A.D.2			abovej	1A.D.4		

Table VII – Q.2

Applicable Limits and Compliance Monitoring Requirements

S355 – SUPPLEMENTAL DUCT BURNERS FOR S352

S356 – SUPPLEMENTAL DUCT BURNERS FOR S353

S357 – SUPPLEMENTAL DUCT BURNERS FOR S354

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Through-	BAAQMD	Y		1048 MMbtu/hr total	BAAQMD	P/M	Fuel meter,
put	Condition			(moved from 2 rows	Condition		records
	18629, Part			above)	18629, Part		
	IX.D.3				IX.D.4		

Table VII - R Applicable Limits and Compliance Monitoring Requirements \$376 - Tool Room Cold Cleaner \$377 - Machine Shop Cold Cleaner

S378 – AUTO SHOP COLD CLEANER

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	Y		150 gal/yr of citrus-	BAAQMD	P/M	usage records
	Condition			based solvents, or	Condition		
	16677, Part			equivalent amount as	16677, Part 3a,		
	1			allowed in Part 2	and 3c		

Table VII – S Applicable Limits and Compliance Monitoring Requirements S425 – MARINE LOADING BERTH M1 S426 – MARINE LOADING BERTH M2

T of	Citatian	IDID	Future		Monitoring	Monitoring	Manitanina
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	N		POC Emission ≤ 5.7 grams	BAAQMD	С	A420
	8-44-			per cubic meter (2 lb/1000	Condition		temperature
	304.1			barrel) loaded, or	4336, Part 1		

Table VII – S Applicable Limits and Compliance Monitoring Requirements S425 – MARINE LOADING BERTH M1 S426 – MARINE LOADING BERTH M2

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	N		Controlled ≥ 95% weight	BAAQMD	С	A420
	8-44-				Condition		temperature
	304.1				4336, Part 1		
POC	SIP	Y		POC Emission ≤ 5.7 grams	BAAQMD	С	A420
	8-44-			per cubic meter (2 lb/1000	Condition		temperature
	301.1			barrel) loaded, or	4336, Part 1		
POC	SIP	Y		Controlled \geq 95% weight	BAAQMD	С	A420
	8-44-				Condition		temperature
	301.2				4336, Part 1		
POC	BAAQMD	Y		Controlled ≥ 98.5% weight	BAAQMD	С	A420
	Condition				Condition		temperature
	4336, Part				4336, Part 1		
	9						
POC	BAAQMD	N		Vessels hatches, P/V	BAAQMD	P/E during	inspection
	8-44-			valves, connections,	8-44-305.3 &	every	with
	305.2			gauging ports and vents,	8-44-603	operation)	portable
				and other equipment up to			VOC
				and including first			monitor
				connection			
				< 3 drops/minute for liquid			
				leak;			
				< 10,000 ppm for gaseous			
				leak			
POC	SIP	Y		Leak free and gas tight	Equipment	P/Q	inspection
	8-44-303				leak		with
					inspections as		portable
					specified in		VOC
					BAAQMD		monitor
					Regulation 8,		
					Rule 18		

Table VII – S Applicable Limits and Compliance Monitoring Requirements S425 – MARINE LOADING BERTH M1 S426 – MARINE LOADING BERTH M2

Type of	Citation	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	Y		1300 degrees F minimum	BAAQMD	С	A420
	Condition			temperature during startup	Condition		temperature
	4336, Part			not to exceed 15 minutes,	4336, Part 2b		
	1			1400 degrees F minimum			
				temperature after startup			
POC	BAAQMD	Y		maximum loading pressure	BAAQMD	С	loading
	Condition			relative to lowest relief	Condition		pressure
	4336, Part			valve setting (80%)	4336, Part 2a		
	5						
Throughpu	BAAQMD	Y		25,000 bbl/day of gasoline,	BAAQMD	P/D	loading
t	Condition			naphtha and C5/C6	Condition		records
	4336, Part			compounds, annual average	4336, Part 8		
	6a			basis			
Throughpu	BAAQMD	Y		20,000 bbl/hr of gasoline,	BAAQMD	P/D	loading
t	Condition			naphtha and C5/C6	Condition		records
	4336, Part			compounds	4336, Part 8		
	6b						
Through-	BAAQMD	Y		51,182 bbl/day of crude	BAAQMD	P/D	loading
put	Condition			and/or gas oil received on	Condition		records
	4336, Part			12-month rolling average	4336, Part 8		
	7			basis			

Table VII – T

Applicable Limits and Compliance Monitoring Requirements

\$450 - Groundwater Extraction Trenches

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
None							

Table VII – Ua Applicable Limits and Compliance Monitoring Requirements \$1002 - SULFUR PLANT UNIT 236;

S1003 - SULFUR PLANT UNIT 238; S301 - MOLTEN SULFUR PIT 234; S302 - MOLTEN SULFUR PIT 236; S303 - MOLTEN SULFUR PIT 238

			Future	111 230, 3303 - 1	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
(H2S,	BAAQMD	N	Dute	95% of H2S in	None	N	None
ammonia)	9-1-313.2	11		refinery fuel gas is			
animonia)	and SIP	Y		removed and			
	9-1-313.2	1		recovered on a			
	9-1-313.2						
				refinery-wide basis AND 95% of H2S in			
				process water streams			
				is removed and			
				recovered on a			
				refinery-wide basis			
				AND 95% of			
				ammonia in process			
				water streams is			
	BAAQMD	N		removed Ringelmann No. 1 for	BAAQMD	P/M	Visible
Opacity	6-1-301	14		no more than 3	Condition	1 / 1/1	emissions
				minutes/hour	19278		inspection
Opacity	SIP 6-301	Y		Ringelmann No. 1 for	Part 4 BAAQMD	P/M	Visible
Spaces	511 0 001	•		no more than 3	Condition	1,1,1	emissions
				minutes/hour	19278		inspection
FP	BAAQMD	N		Prohibition of	Part 4 None	N	N
	6-1-305			nuisance	None	N	None
FP	SIP 6-305	Y		Prohibition of	None	N	None
FP	BAAQMD	N		nuisance 0.15 grain/dscf	BAAQMD	P/A	Source test on
ГГ	6-1-310.1	11		0.15 grani/usci	Condition	r/A	thermal
	0-1-310.1				19278		oxidizer stack
					Part 5		
FP	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition	P/A	Source test on
					19278		thermal
					Part 5		oxidizer stack
FP	SIP	Y	After	4.10P ^{0.67} lb/hr, where	BAAQMD	P/A	Source test on
	6-311		turn-	P is process weight,	Condition		thermal
			around	ton/hr	19278 Part 5		oxidizer stack
	1				rants		

Table VII – Ua Applicable Limits and Compliance Monitoring Requirements \$1002 - SULFUR PLANT UNIT 236;

S1003 - SULFUR PLANT UNIT 238; S301 - MOLTEN SULFUR PIT 234; S302 - MOLTEN SULFUR PIT 236; S303 - MOLTEN SULFUR PIT 238

			Future	111 230, 5303 - 10	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
		Y/N		Limit	_	_	_
Limit FP	Limit	N N	Date After	Table 6-1-311.1	Citation BAAQMD	(P/C/N) P/A	Type Source test on
FP	BAAQMD 6-1-311.1	IN	turn-	1 able 6-1-311.1	Condition	P/A	thermal
	0-1-311.1		around		19278		oxidizer stack
			uround		Part 5		omandi stati
Condensable	N/A	N			BAAQMD	A for 3	Source Test
PM					Condition	years	
	DAAOMD	NT.		0.00 : /1 6	19278 Part 5 BAAQMD	-	Source Test
SO3, H2SO4	BAAQMD	N		0.08 grain/dscf	Condition	P/A	Source Test
	6-1-330			exhaust concentration	19278		
				of SO3 and H2SO4,	Part 2		
				expressed as 100%			
				H2SO4			
SO3, H2SO4	SIP	Y		0.08 grain/dscf	BAAQMD Condition	P/A	Source Test
	6-330			exhaust concentration	19278		
				of SO3 and H2SO4,	Part 3		
				expressed as 100%			
				H2SO4			
SO2	40 CFR	Y		250 ppm at 0% excess	40 CFR	С	CEM on
	60.102a(f)			air, dry, 12-hr rolling	60.106a		thermal
	(1)			average			oxidizer stack
SO2	40 CFR	Y		250 ppm at 0% excess	40 CFR	С	CEM on
	63.1568(a)(air, 12-hr rolling	63.1572		thermal
	1)(i)			average			oxidizer stack
Throughput	BAAQMD	Y		106.3 long ton/day;	BAAQMD	P/D	records
(S1002 only)	Condition			31,390 long ton/yr	Condition		
(, , , , , , , , , , , , , , , , , , ,	19278, part			- , · · g · · · ;	19278, Part 6		
	6				1,2,0,1		
Throughput	BAAQMD	Y		134.5 long ton/day;	BAAQMD	P/D	records
(S1003 only)	Condition	*		41,975 long ton/yr	Condition	1,1	1000146
(51005 only)	19278, part			71,775 long ton/yi	19278, Part 6		
	_				19270, Fail 0		
	6						

Table VII – Ua Applicable Limits and Compliance Monitoring Requirements S1002 - SULFUR PLANT UNIT 236;

S1003 - SULFUR PLANT UNIT 238; S301 - MOLTEN SULFUR PIT 234; S302 - MOLTEN SULFUR PIT 236; S303 - MOLTEN SULFUR PIT 238

			Future	,	Monitoring	Monitoring	
Type of	Citation of	FE	Effective	T :	Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
throughput	BAAQMD	Y		201 long tons/day for	BAAQMD	P/D	records
	Condition			S1002 and S1003	Condition		
	19278, part				19278, Part 6		
	6						
throughput	BAAQMD	Y		98,915 long ton/yr for	BAAQMD	P/M	records
	Condition			S301, S302, S303	Condition		
	22964, Part				22964, Part 8		
	1						
Maintenance	40 CFR	Y		S301-S303 only:	40 CFR	P/E	records
allowance for	60.102a(f)			40 CFR 60.102a(f)(1)	60.102a(f)		
sulfur pit	(3)			shall not apply to the	(3)		
				sulfur pit for 240			
				hours/yr during			
				maintenance			

Table VII – Ub Applicable Limits and Compliance Monitoring Requirements S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR PLANT UNIT

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
		•	For add	itional requirements for S	1010, see Table	VII-I.1.	

Table VII – Ub

Applicable Limits and Compliance Monitoring Requirements
S465, MOLTEN SULFUR PIT: S1010 – U235 SULFUR PLANT UNIT

			Future	R PIT; \$1010 – U2	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
(H2S,	BAAQMD	N		95% of H2S in	BAAQMD	P/A	Source test
ammonia)	9-1-313.2			refinery fuel gas is	Condition		
	and SIP	Y		removed and	23125, part 20		
	9-1-313.2			recovered on a			
				refinery-wide basis			
				AND 95% of H2S in			
				process water streams			
				is removed and			
				recovered on a			
				refinery-wide basis			
				AND 95% of			
				ammonia in process			
				water streams is			
				removed			
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for	BAAQMD	P/M	Visible
	0-1-301			no more than 3	Condition		emissions
				minutes/hour	23125, part 26		check
Opacity	SIP 6-301	Y		Ringelmann No. 1 for	BAAQMD	P/M	Visible
	0-301			no more than 3	Condition		emissions
				minutes/hour	23125, part 26		check
FP	BAAQMD 6-1-305	N		Prohibition of	None	N	None
				nuisance			
FP	SIP 6-305	Y		Prohibition of	None	N	None
	0-303			nuisance			
FP	BAAQMD	N		0.15 grain/dscf	BAAQMD	P/A	Source test
	6-1-310.1				Condition		
					23125, part 20		
FP	SIP	Y		0.15 grain/dscf	BAAQMD	P/A	Source test
	6-310				Condition		
					23125, part 20		
FP	BAAQMD	N		Table 6-1-311.1	BAAQMD	P/A	Source test
	6-1-311.1				Condition		
					23125, part 20		

Table VII – Ub

Applicable Limits and Compliance Monitoring Requirements
S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR PLANT UNIT

			Future	K F11; S1010 – 02	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
FP	SIP	Y		4.10P ^{0.67} lb/hr, where	BAAQMD	P/A	Source test
	6-311			P is process weight,	Condition		
				ton/hr	23125, part 20		
PM10	BAAQMD	Y		2.9 tons per any	BAAQMD	P/A	Calculations
	Condition			consecutive 12 months	Condition		
	22970, Part			for S45, S434, and	22970, Part		
	A.2.c			S1010 combined	A.4.b.iv		
PM10	BAAQMD	Y		16.7 tons per any	BAAQMD	P/A	Source tests
	Condition			consecutive 12 months	Condition		and
	22970, Part			for S45, S434, and	22970, Part		calculations
	A.6			S1010 at Facility	A.6		
				A0016 and S2 and S3			
				at Facility B7419,			
				combined			
PM10	BAAQMD			9.5 lb/day	None	N	None
	Condition						
	23125, part						
	10b						
PM10	BAAQMD	Y		1.19 tons per any	None	N	None
	Condition			consecutive 12 months			
	23125, part						
	11f						
SO3,	BAAQMD	N		0.08 grain/dscf	BAAQMD	P/A	Source test
H2SO4	6-1-330			exhaust concentration	Condition		
				of SO3 and H2SO4,	23125, part 20		
				expressed as 100%			
				H2SO4			
SO3,	SIP	Y		0.08 grain/dscf	BAAQMD	P/A	Source test
H2SO4	6-330			exhaust concentration	6-1-505;		
				of SO3 and H2SO4,	BAAQMD		
				expressed as 100%	Condition		
				H2SO4	23125, part 20		

Table VII – Ub

Applicable Limits and Compliance Monitoring Requirements
S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR PLANT UNIT

	5405, IV	IOLII	EN SULFU	R PIT; S1010 – U2		LANT UNIT	
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
SAM	BAAQMD	Y		6.01 tons per any	BAAQMD	P/A	Source tests,
	Condition			consecutive 12 months	Condition		and
	22970, Part			for S45, S434, and	22970, Part		calculations
	A.2.f			S1010 combined	A.4.b.ii		
SAM	BAAQMD	Y		38 lb/day for S45,	BAAQMD	P/A	Source tests
	Condition			S434, and S1010 at	Condition		and
	22970, Part			Facility A0016 and S2	22970, Part		calculations
	A.3			at Facility B7419	A.4.b.ii		
				combined			
SAM	BAAQMD	Y		31 lb/day	BAAQMD	P/A	Source test
	Condition				Condition		
	23125, part				23125, part 20		
	10a						
SAM	BAAQMD			5.65 tons per any	BAAQMD	P/A	Source test
	Condition			consecutive 12 months	Condition		
	23125, part				23125, part 20		
	11g						
SO2	BAAQMD	Y		250 ppmv, dry,	BAAQMD	С	CEM
	9-1-307			@ 0% O2	1-520.4 &		
					9-1-502		
SO2	40 CFR	Y		250 ppm at 0% excess	40 CFR	С	CEM on
	60.102a(f)			air, dry, 12-hr rolling	60.106a		thermal
	(1)			average			oxidizer stack
SO2	40 CFR	Y		250 ppm at 0% excess	40 CFR	С	CEM
	63.1568(a)(air, 12-hr rolling	63.1572		
	1)(i)			average			
SO2	BAAQMD	Y		34.4 tons per any	BAAQMD	P/A	CEMS, source
	Condition			consecutive 12 months	Condition		tests, and
	22970, Part			for S45, S434, and	22970, Part		calculations
	A.2.b			S1010 combined	A.4.b.i		
SO2	BAAQMD	Y		50 ppmvd @ 0% O2,	BAAQMD	С	CEM
	Condition			24-hr average	Condition		
	23125, part				23125, part 21		
	7a						

Table VII – Ub

Applicable Limits and Compliance Monitoring Requirements
S465, MOLTEN SULFUR PIT: S1010 – U235 SULFUR PLANT UNIT

	5 100,11	IOLII		R PIT; S1010 – U2			
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
SO2	BAAQMD	Y		29.7 tons per any	BAAQMD	C	CEM
	Condition			consecutive 12 months	Condition		
	23125, part				23125, part 21		
	11g						
O2				None	BAAQMD	С	CEM
					Condition		
					23125, part 21		
CO	BAAQMD	Y		40.72 tons per any	BAAQMD	P/A	CEMS, source
	Condition			consecutive 12 months	Condition		tests, and
	22970, Part			for S45, S434, and	22970, Part		calculations
	A.2.e			S1010 combined	A.4.b.i		
СО	BAAQMD	Y		75 ppmvd @ 7% O2,	BAAQMD	С	CEM
	Condition			1-hr average	Condition		
	23125, part			_	23125, part 22		
	7b				-		
СО	BAAQMD			37.9 tons per any	BAAQMD	С	CEM
	Condition			consecutive 12 months	Condition		
	23125, part				23125, part 22		
	11c						
NOx	BAAQMD	Y		13.5 tons per any	BAAQMD	P/A	CEMS, source
	Condition			consecutive 12 months	Condition		tests, and
	22970, Part			for S45, S434, and	22970, Part		calculations
	A.2.a			S1010 combined	A.4.b.ii		
NOx	BAAQMD	Y		42.2 ppmv d @ 7%	BAAQMD	P/A	Source test
	Condition			O2, 1-hr average	Condition 23125, part 20		
	23125, part			-	23123, part 20		
	7c						
NOx	BAAQMD	Y		8.0 lb/hr	BAAQMD	P/A	Source test
	Condition				Condition 23125, part 20		
	23125, part				23123, part 20		
	9a						

Table VII – Ub

Applicable Limits and Compliance Monitoring Requirements
S465, MOLTEN SULFUR PIT: S1010 – U235 SULFUR PLANT UNIT

	5405, IV	IOLII	EN SULFU	R PIT; S1010 – U2	35 SULFUR P	LANI UNII	
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
NOx	BAAQMD			11.2 tons per any	BAAQMD Condition	P/A	Source test
	Condition			consecutive 12 months	23125, part 20		
	23125, part						
	11d						
NH3	BAAQMD	N		6.35 tons per any	BAAQMD	P/A	Source tests
	Condition			consecutive 12 months	Condition		and
	22970, Part			for S45, S434, and	22970, Part A.4.b.iii		calculations
	A.2.g			S1010 combined			
NH3	BAAQMD	N		12.5 ppmv @ 7% O2,	BAAQMD	P/A	Source test
	Condition			24-hr basis	Condition 23125, part 20		
	23125, part				23123, part 20		
	8a						
NH3	BAAQMD			0.88 lb/hr	BAAQMD	P/A	Source test
	Condition				Condition 23125, part 20		
	23125, part				23123, part 20		
	9c						
NH3	BAAQMD			3.85 tons per any	BAAQMD	P/A	Source test
	Condition			consecutive 12 months	Condition 23125, part 20		
	23125, part				23123, part 20		
	11b						
POC	BAAQMD	Y		1.9 tons per any	BAAQMD	P/A	CEMS, source
	Condition			consecutive 12 months	Condition		tests, and
	22970, Part			for S45, S434, and	22970, Part A.4.b.iv		calculations
	A.2.d			S1010 combined	11.1.0.17		
POC	BAAQMD			0.43 tons per any	None	N	None
	Condition			consecutive 12 months			
	23125, part						
	11e						
H2S	BAAQMD	N		2.5 ppmv @ 0% O2	BAAQMD	P/A	Source test
	Condition				Condition 23125, part 20		
	23125, part				23123, part 20		
	8b						

Table VII – Ub

Applicable Limits and Compliance Monitoring Requirements
\$465, MOLTEN SULFUR PIT; \$1010 – U235 SULFUR PLANT UNIT

			Future	8111,51010-62	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
H2S	BAAQMD	N		2.5 ppmv @ 0% O2	BAAQMD	С	Temperature
	Condition				Condition 23125, parts		monitoring
	23125, part				14-18		
	8b						
H2S	BAAQMD			0.23 lb/hr	BAAQMD Condition	P/A	Source test
	Condition				23125, part 20		
	23125, part						
	9b						
H2S	BAAQMD			0.975 tons per any	BAAQMD Condition	С	Temperature
	Condition			consecutive 12 months	23125, parts		monitoring
	23125, part				14-18		
	11h						
H2S	BAAQMD			10 tons per any	BAAQMD Condition	С	Temperature
	Condition			consecutive 12 months	23125, parts		monitoring
	23125, part				14-18		
	11k				DA A CMD		
Total	BAAQMD			10 tons per any	BAAQMD Condition	P/A	Source test
Reduced	Condition			consecutive 12 months	23125, part 20		
Sulfur	23125, part						
	11i				DAAOMD		
Total	BAAQMD			2.2 lb/hr	BAAQMD Condition	P/A	Source test
Reduced	Condition				23125, part 20		
Sulfur	23125, part						
	13				BAAQMD		
Reduced	BAAQMD			10 tons per any	Condition	P/A	Source test
Sulfur	Condition			consecutive 12 months	23125, part 20		
Com-	23125, part						
pounds	11j				BAAQMD		_
Reduced	BAAQMD			2.2 lb/hr	Condition Condition	P/A	Source test
Sulfur	Condition				23125, part 20		
Com-	23125, part						
pounds	13						

Table VII – Ub

Applicable Limits and Compliance Monitoring Requirements
S465, MOLTEN SULFUR PIT; S1010 – U235 SULFUR PLANT UNIT

5405, MOLIEN SULFUR I II, S1010 – 0255 SULFUR I LANT UNII									
			Future		Monitoring	Monitoring			
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring		
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type		
throughput	BAAQMD	N		73,000 long tons/yr	BAAQMD	P/M	records		
	Condition			(S465 only)	Condition				
	22964, part				22964, part 5				
	2								
throughput	BAAQMD	N		200 long ton/day	BAAQMD	P/D	Records		
	Condition			(S1010 only)	Condition				
	23125, part				23125, part 4				
	1								
Tempe-	BAAQMD	Y		1409 F	BAAQMD	С	Temperature		
rature	Condition				Condition		monitoring		
	23125, part				23125, parts				
	14				15-18				
Mainte-	40 CFR	Y		S465 only:	40 CFR	P/E	records		
nance	60.102a(f)			40 CFR 60.102a(f)(1)	60.102a(f)				
allowance	(3)			shall not apply to the	(3)				
for sulfur				sulfur pit for 240					
pit				hours/yr during					
				maintenance					

Table VII – Uc Applicable Limits and Compliance Monitoring Requirements S503, SULFUR STORAGE TANK; S504, SULFUR DEGASSING UNIT; AND S505, SULFUR LOADING RACK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	None
FP	SIP 6-305	Y		Prohibition of nuisance	None	N	None
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	None
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	None
FP	BAAQMD 6-1-311.1	N		Table 6-1-311	None	N	None
FP	SIP 6-311	Y		Table 6-1-311	None	N	None
throughput	BAAQMD Condition 23125, part 2	N		471 long ton/day (S503 only)	BAAQMD Condition 23125, part 24	P/D	records

Table VII – V
Applicable Limits and Compliance Monitoring Requirements
\$370 – ISOMERIZATION UNIT 228

	5370 – ISONIERIZATION UNIT 226											
			Future		Monitoring	Monitoring						
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring					
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type					
POC	BAAQMD	N		abatement of emissions	BAAQMD	P/E	Records					
	8-10-301			from process vessel	8-10-501 &							
				depressurization is required	8-10-502							
				until pressure is reduced to								
				less than 1000 mm Hg (4.6								
				psig)								
POC	SIP	Y		abatement of emissions	SIP	P/E	Records					
	8-10-301			from process vessel	8-10-401.2							
				depressurization is required								
				until pressure is reduced to								
				less than 1000 mm Hg (4.6								
				psig)								
VOC	BAAQMD	Y		daily feed rate limit (11,040	BAAQMD	P/D	records					
	Condition			bbl/day)	Condition							
	12121,				12121, Part 2							
	Part 1											
throughput	BAAQMD	Y		4.03 E 6 bbl/yr	BAAQMD	P/M	records					
	Condition				Condition							
	20989,				20989, Part A							
	Part A											

Table VII – W
Applicable Limits and Compliance Monitoring Requirements
\$380 – ACTIVATED CARBON SILO (P-204)

			JU 0 12	CITVATED CARBON SI	(1	
			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Opacity	BAAQMD	Y		Ringelmann No. less than 1	BAAQMD	P/Q	Pressure
	6-1-301			for more than 3 minutes/hr	Condition		Drop
					18251, Part 2b		
FP	BAAQMD	Y		Prohibition of nuisance	BAAQMD	P/Q	Pressure
	6-1-305				Condition		Drop
					18251, Part 2b		
FP	BAAQMD	Y		No emissions from source >	BAAQMD	P/Q	Pressure
	6-1-310.1			343 mg per dscm (0.15	Condition		Drop
				grains per dscf)of gas	18251, Part 2b		
				volume			
FP	BAAQMD	Y		No emissions from source >	BAAQMD	P/Q	Pressure
	6-1-311.1			rate specified in rule	Condition		Drop
					18251, Part 2b		
throughput	BAAQMD	Y		3,942 ton/yr	BAAQMD	P/M	records
	Condition				Condition		
	20989,				20989, Part A		
	Part A						

Table VII – X Applicable Limits and Compliance Monitoring Requirements \$462 – U-215 FUEL GAS CAUSTIC TREATMENT SYSTEM \$463 – U-215 BUTANE CAUSTIC TREATMENT SYSTEM

			Future		Monitoring	Monitoring	
Type of	Citation	FE	Effective		Requirement	Frequency	Monitoring
Limit	of Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
throughput	BAAQMD	Y	startup	S462: 1.533 E 9 ft3/yr	BAAQMD	P/M	records
	Condition			S463: 365,000 bbl/yr	Condition		
	20989,				20989, Part A		
	Part A						

 $\begin{tabular}{ll} Table \ VII-AB \\ Applicable \ Limits \ and \ Compliance \ Monitoring \ Requirements \\ COMPONENTS \end{tabular}$

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	Y		General equipment leak \leq	BAAQMD	P/Q	Inspection
	8-18-301			100 ppm	8-18-401.2		
POC	BAAQMD	Y		Valve leak ≤ 100 ppm	BAAQMD	P/Q	Inspection
	8-18-302				8-18-401.2		
POC	BAAQMD	Y		Pump and compressor leak	BAAQMD	P/Q	Inspection
	8-18-303			≤ 500 ppm	8-18-401.2		
POC	BAAQMD	N		Connection leak ≤ 100 ppm	BAAQMD	P/A	Inspection
	8-18-304				8-18-401.6		
POC	SIP	Y		Connection leak ≤ 100 ppm	BAAQMD	P/A	Inspection
	8-18-304				8-18-401.6		
POC	BAAQMD	Y		Pressure relief valve leak ≤	BAAQMD	P/Q	Inspection
	8-18-305			500 ppm	8-18-401.2		
POC	BAAQMD	N		Non-repairable essential	BAAQMD	P/Q	report
	8-18-306.1			equipment leak must be	8-18-502.4		
				<10.000 ppm			
POC	SIP	Y		Valve, pressure relief,	BAAQMD	P/Q	report
	8-18-306.1			pump or compressor must	8-18-502.4		
				be repaired within 5 years			
				or at the next scheduled			
				turnaround			

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	N		Awaiting repair	BAAQMD	P/within 24	Inspection
	8-18-306.2			Valves ≤ 0.15%	8-18-401.5	hours	
				Pressure Relief ≤ 0.5%			
				Pump and Connector <			
				0.5%			
POC	SIP	Y		Mass emissions & non-	BAAQMD	P/D	Inspection
	8-18-			repairable equipment	8-18-401.3		
	306.3.2			allowed			
				Valve ≤ 0.1 lb/day &			
				<u>≤</u> 1.0%			
				Pressure Relief ≤ 0.2 lb/day			
				& ≤5%			
				Pump and Connector ≤ 0.2			
				lb/day & ≤ 5%			
	BAAQMD	Y		Total valve, pressure relief,	BAAQMD	P/Q	sampling or
	8-18-			pump or compressor leaks	8-18-502.4		equivalent
	306.3.3			\geq 15 lb/day, they must be			
				repaired within 7 days			
POC	BAAQMD	Y		Open ended valves shall	BAAQMD 8-	E	records
	8-18-309			seal the open end at all	18-502		
				times except during			
				operations requiring process			
				fluid flow through the open-			
				ended valve or line.			
POC	BAAQMD	N		All equipment emits POC <	BAAQMD 8-	P/Q	sampling or
	8-18-311			5 lb/day, except during any	18-502.4		equivalent
				repair periods			
POC	BAAQMD	Y		Vent Pressure Relief	BAAQMD	P/turn-	None
	8-28-303			Devices to an Abatement	8-28-405	around	
				Device with at least 95% by			
				weight control efficiency or			
				Meet Prevention Measures			
				Procedures			

 $\begin{tabular}{ll} Table \ VII-AB \\ Applicable \ Limits \ and \ Compliance \ Monitoring \ Requirements \\ COMPONENTS \end{tabular}$

			Future	COMICIVEIVIS	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	BAAQMD	Y		PHA within 90 days and	BAAQMD	P/release per	None
	8-28-304			meet Prevention Measures	8-28-405	5 calendar	
				Procedures. After 2 nd		year	
				release Vent Pressure Relief		j	
				Devices to an Abatement			
				Device with at least 95% by			
				weight control efficiency.			
	11			60; Subpart VV	1	•	•
POC	40 CFR	Y		Pump leak: 10,000 ppm	40 CFR	P/M	Measure for
	60.482-2				60.482-2		leaks
	(b)(1)				(a)(1)		
POC	40 CFR	Y		Pump leak Indicated by	40 CFR	P/W	Visual
	60.482-2			dripping liquid	60.482-2		Inspection
	(b)(2)				(a)(2)		
POC	40 CFR	Y		Designated "No detectable	40 CFR	P/A	Measure for
	60.482-2(e)			emissions": 500 ppm	60.482-		leaks
	40 CED				2(e)(3)		
POC	40 CFR	Y		Pump leak: 10,000 ppm	40 CFR	P/5 days	Visual,
	60.482-8				60.482-8 (a)		audible,
	(b)						olfactory
							Inspection;
							Measure for
							leaks
POC	40 CFR	Y		Valve leak: 10,000 ppm	40 CFR	P/M	Measure for
	60.482-7(b)				60.482-7(a)		leaks
POC	40 CFR	Y		Valve leak: 10,000 ppm; 2	40 CFR	P/Q	Measure for
	60.482-7(b)			successive months w/o	60.482-7(c)		leaks
				leaking			
POC	40 CFR	Y		Designated "No detectable	40 CFR	P/A	Measure for
	60.482-7(f)			emissions": 500 ppm	60.482-7		leaks
					(f)(3)		

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

				COMPONENTS			
			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
POC	40 CFR	Y		Pumps and valves in heavy	40 CFR	P/E	Visible,
	60.482-8(a)			liquid service, Pressure	60.482-8(a)		Audible, or
				Relief devices (light or			olfactory
				heavy liquid), Flanges,			Inspection
				Connectors leak shall be			
				measured for leak in 5 days			
				if detected by inspection			
POC	40 CFR	Y		Pressure Relief devices	40 CFR	P/E	Measure for
	60.482-8(b)			(liquid), Flanges,	60.482-8(a)		leaks
				Connectors leak: 10,000			
				ppm			
POC	40 CFR	Y		Individual valve that	same as limit	P/Q	Measure for
100	60.483 and			measures <100 ppm for 5	Same as min	-/ 2	leaks
				consecutive quarters may			icaks
	BAAQMD			be monitored annually, if in		P/A	
	8-18-404.1			a process unit with 5		1/11	
				consecutive quarters <2%			
				valves leaking: 10,000 ppm.			
	П	T		60; Subpart VVa	T		
POC	40 CFR	Y		Pump leak < 2,000 ppm	40 CFR	P/M	Measure for
	60.482-2a				60.482-2a		leaks
	(b)(1)				(a)(1)		
POC	40 CFR	Y		Pump leak Indicated by	40 CFR	P/W	Visual
	60.482-2a			dripping liquid	60.482-2a		Inspection
	(b)(2)				(a)(2)		
POC	40 CFR	Y		Designated "No detectable	40 CFR	P/A	Measure for
	60.482-2a			emissions" < 500 ppm	60.482-		leaks
	(e)				2(e)(3)		
POC	40 CFR 60.482-3a	Y		Leak is failure of seal or	40 CFR 60.482-3a(d)-	С	Sensor for
	(f)			barrier system	(f)		detection of
	(1)				(1)		seal or
							barrier
							system
							failure

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

COMPONENTS											
			Future		Monitoring	Monitoring					
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring				
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type				
POC	40 CFR	Y		Valve leak > 500 ppm	40 CFR	P/M unless 2	Measure for				
	60.482-7a				60.482-7a	successive	leaks				
	(b)				(a)(1)	months w/o					
						leak					
POC	40 CFR	Y		Valve leak < 500 ppm; 2	40 CFR	P/Q unless	Measure for				
	60.482-7a			successive months w/o	60.482-7(c)	leak found,	leaks				
	(c)(1)(i)			leaking		then					
						monthly					
						monitoring					
POC	40 CFR	Y		Designated "No detectable	40 CFR	P/A	Measure for				
	60.482-7(f)			emissions" < 500 ppm	60.482-7		leaks				
	40 CED				(f)(3)						
POC	40 CFR 60.482-	Y		Pumps and valves in heavy	40 CFR 60.482-8a(a)	P/E	Visible,				
	8a(a)			liquid service, Pressure	00.402-04(a)		Audible, or				
				Relief devices (light or			olfactory				
				heavy liquid), Flanges,			Inspection				
				Connectors leak shall be							
				measured for leak in 5 days							
				if detected by inspection							
POC	40 CFR	Y		Pressure Relief devices	40 CFR	P/E	Measure for				
	60.482- 8a(b)			(liquid), Flanges,	60.482-8a(a)		leaks				
	04(0)			Connectors leak > 10,000							
				ppm							
	п	•		61; Subpart FF		T					
Benzene	40 CFR	Y		No detectable emissions, <	40 CFR	P/A	Method 21				
	61.345(a)			500 ppmv	61.345(a)(1)						
D	(1)(i) 40 CFR	v		V:1 d-f4-	(i) 40 CFR	D/O	:1				
Benzene	61.345(b)	Y		Visual defects	61.345(b)	P/Q	visual				
Benzene	40 CFR	Y		No detectable emissions, <	40 CFR	P/A	Method 21				
	61.346(a)			500 ppmv	61.346(a)(1)						
	(1)(i)(A)			* 1	(i)(A)						
Benzene	40 CFR	Y		Visual defects	40 CFR	P/Q	visual				
	61.346(a)				61.346(a)(2)						
	(2)										

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

COMPONENTS										
			Future		Monitoring	Monitoring				
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring			
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type			
Benzene	40 CFR	Y		No detectable emissions, <	40 CFR	P/A	Method 21			
	61.347(a)			500 ppmv	61.347(a)(1)					
	(1)(i)				(i)					
Benzene	40 CFR	Y		Visual defects	40 CFR	P/Q	visual			
	61.347(b)				61.347(b)	,				
				BAAQMD Condition 23725						
POC	Condition 23725, part 1b	Y		Valve leak for CFEP ≤ 100 ppm	Condition 23725, part 4	P/Q	Inspection			
POC	Condition 23725, part 1b	Y		Pump and compressor leak for CFEP ≤ 100 ppm	Condition 23725, part 4	P/Q	Inspection			
POC	BAAQMD	N		Connection leak ≤ 100 ppm	BAAQMD	P/A	Inspection			
	8-18-304				8-18-401.6					
POC	Condition 23725, part 2	Y		Emissions from CFEP components < 6.1 tons per year	None Deter- mination made once upon completion					

Table VII – BB.1
Applicable Limits and Compliance Monitoring Requirements
NSPS KB LOW VAPOR PRESSURE PERMITTED WASTEWATER SLUDGE TANKS
WITH VAPOR RECOVERY TO FUEL GAS
S433 (F224 - MOSC)

				`						
	Emission		Future		Monitoring	Monitoring				
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring			
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type			
	BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS									
	Exempt per	Exempt per 8-5-117. Low vapor pressure								
POC	BAAQMD	Y		Exemption from Regulation 8-5	BAAQMD	P/E	Vapor pressure			
	8-5-117 &			when true vapor pressure is less	2-6-409.2 &		determination			
	Condition			than 25.8 mm Hg (0.5 psia).	Condition		upon material			
	20773, Part 1				20773, Part 2		change			

Table VII – BB.1 Applicable Limits and Compliance Monitoring Requirements NSPS KB LOW VAPOR PRESSURE PERMITTED WASTEWATER SLUDGE TANKS WITH VAPOR RECOVERY TO FUEL GAS S433 (F224 - MOSC)

				5433 (F224 - MOSC)							
	Emission		Future		Monitoring	Monitoring					
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring				
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type				
	BAAQMD 8, Rule 8 – Organic Compounds – Wastewater (Oil Water Separators)										
VOC	BAAQMD	Y		Vapor tight gauging and	BAAQMD	N	Portable				
	8-8-303			sampling devices	8-8-504		hydrocarbon				
					8-8-603		detector				
VOC	BAAQMD	Y		Combined	BAAQMD	N	Source test or				
	8-8-304			collection/destruction	8-8-602		EPA Method				
				efficiency of 95% by weight.			25 or 25A				
NONE	40 CFR 63, S	Subpar	rt CC – NE	SHAPS for Petroleum Refine	eries						
	Exempt	per 63	.640(d)(5).	Emission point routed to fue	el gas system.						
	40 CFR 60, S	Subpar	rt Kb – NSI	PS for VOL Storage Vessels							
	MONITORI	NG F	OR RECO	RDKEEPING ONLY							
VOC	40 CFR	Y		True vapor pressure less	40 CFR	periodic	Record				
	60.110b(c)			than 3.5 kPa.	60.116b	initially and					
					(b)	upon change					
						of service					
	BAAQMD P	ERMI	T CONDIT	TIONS							
throughput	BAAQMD	Y		138,700 bbl/yr	BAAQMD	P/W	records				
	Condition				Condition						
	7353, Part 4				7353, Part 5						

able VII – BB.2 Applicable Limits and Compliance Monitoring Requirements LOW VAPOR PRESSURE PERMITTED TANKS < 10,000 GALLONS S194 (TANK 306)

	Emission		Future		Monitoring	Monitoring			
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring		
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type		
	BAAQMD F	Regulat	ion 8, Rule	5 - Organic Compounds - ST	TORAGE OF C	ORGANIC LIC	QUIDS		
	Exempt per 8-5-117. Low vapor pressure								
POC	BAAQMD	Y		Exemption from Regulation 8,	BAAQMD	P/E	Vapor		
	8-5-117 &			Rule 5 when true vapor pressure	2-6-409.2 &		pressure		
	Condition			is less than 25.8 mm Hg (0.5	Condition		determination		
	20773, Part 1			psia).	20773, Part 2		upon material		
	20773,1 art 1						change		
NONE	40 CFR 63, S	Subpai	rt CC – NE	SHAPS for Petroleum Refine	eries				
	Exempt per	63.641	storage ves	ssel definition. Size less than	or equal to 10,	000 gallons.			
	BAAQMD P	ERMI	T CONDIT	TIONS					
throughput	BAAQMD	N		S194: 100 bbl/yr	BAAQMD	P/M	Records		
	Condition				Condition				
	20989, Part				20989, Part A				
	A								

Table VII – BB.3 Applicable Limits and Compliance Monitoring Requirements LOW VAPOR PRESSURE PERMITTED TANKS VENTED TO FUEL GAS

S173 (Tank 280), S174 (Tanks 281)

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type

Tanks S173 and S174 will be subject to the requirements in Table VII-BB.19 until they are controlled by A7, Odor Abatement System. S173 and S174 will be subject to the requirements in Table VII-BB.34 when controlled by A7.

BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS

Exempt per 8-5-117. Low vapor pressure

Table VII – BB.3 Applicable Limits and Compliance Monitoring Requirements LOW VAPOR PRESSURE PERMITTED TANKS VENTED TO FUEL GAS

S173 (Tank 280), S174 (Tanks 281)

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
POC	BAAQMD	Y		Exemption from Regulation 8,	BAAQMD	P/E	Vapor
	8-5-117 &			Rule 5 when true vapor pressure	2-6-409.2 &		pressure
	Condition			is less than 25.8 mm Hg (0.5	Condition		determination
	20773, Part 1			psia).	20773, Part 2		upon material
							change
NONE	63 Subpart C	CC – N	ESHAPS f	or Petroleum Refineries			
	Exempt per	63.640	$(\mathbf{d})(5)$. Emi	ission point routed to fuel gas	s system.		
	BAAQMD P	ERMI	T CONDIT	TIONS			
VOC	Condition	Y		Applies to S173	Condition	С	Pressure
	#23724,				#23724, part 3		monitoring
	part 4b			1.8 inches of water			
VOC	Condition	Y		Applies to S174	Condition	С	Pressure
	#23724,				#23724, part 3		monitoring
	part 4b			1.8 inches of water			

Table VII – BB.4 Applicable Limits and Compliance Monitoring Requirements NSPS KB LOW VAPOR PRESSURE PERMITTED WASTEWATER SLUDGE TANKS \$195 (TANK 501).

				S195 (TANK 501),								
	Emission		Future		Monitoring	Monitoring						
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring					
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type					
	BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS											
		Exempt per 8-5-117. Low vapor pressure										
POC	BAAQMD	Y		Exemption from Regulation 8,	BAAQMD	P/E	Vapor pressure					
	8-5-117 &			Rule 5 when true vapor pressure	2-6-409.2 &		determination					
	Condition			is less than 25.8 mm Hg (0.5	Condition		upon material					
	20773, Part 1			psia).	20773, Part 2		change					
	BAAQMD 8,	Rule	8 – Organi	c Compounds – Wastewater	(Oil Water Sep	arators)						
VOC	BAAQMD	Y		Vapor tight gauging and	BAAQMD	N	Portable					
	8-8-303			sampling devices	8-8-504		hydrocarbon					
					8-8-603		detector					
VOC	BAAQMD	Y		Slop oil tank vessel roof	BAAQMD	periodic	visual					
	8-8-305.1			criteria; includes gap criteria	8-8-305.1	initially &	inspection					
						semi-annually						
	40 CFR 60, S	ubpaı	rt Kb - NSP	S for VOL Storage Vessels a	t Petroleum Re	fineries						
	40 CFR 63, S	ubpaı	rt CC – Nat	ional Emission Standards for	r Hazardous Ai	r Pollutants for	Petroleum					
	Refineries											
	RECORDKE	EPIN	G ONLY									
Vapor	40 CFR	Y		True vapor pressure less	40 CFR	P/E	Record					
pressure	63.640(n)(1)			than 3.5 kPa.	63.640(n)(8)							
	60.110b(c)				60.116b(b)							
Vapor		Y		TVP exceedances (> 5.2	40 CFR	<u>periodic</u>	Notification					
pressure				kPa).	63.640(n)(8)	within 30 days						
					60.116b(d)	of exceedance						
	BAAQMD PI	ERMI	T CONDIT	TIONS								
throughput	BAAQMD	Y		S195	BAAQMD	P/M	Records					
	Condition			525,600 bbl/yr	Condition							
	20989, Part				20989, Part A							
	Α				,							
	<i>1</i> -1				<u> </u>	1						

Table VII – BB.5 Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF TANKS S439 (TANK 109), S440 (TANK 110), S442 (TANK 112), S444 (TANK 243)

		111111		(1ANK 110), 5442 (1A	11	· ·	
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD I	Regulat	ion 8, Rule	5, Organic Compounds - ST	ORAGE OF O	RGANIC LIQU	IDS
	LIMITS AN	D MO	NITORING	G FOR EXTERNAL FLOAT	ING-ROOF TA	ANKS	
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD	<u>periodic</u>	records
	8-5-301 &			true vapor pressure	8-5-501.1 &	initially and	
	SIP 8-5-301				SIP 8-5-501.1	upon change	
						of service	
VOC	BAAQMD	N		Leaking pontoons gas tight	BAAQMD	P/Q until	Method 21
	8-5-304.6.1			requirements	8-5-412	repaired	portable
							hydrocarbon detector
VOC	BAAQMD	Y		Floating roof fitting closure	BAAQMD	P/SA	Measurement
100	8-5-320 &	1		standards; includes gasketed	8-5-401.2 &	1/5/1	and visual
	SIP 8-5-320			covers	SIP 8-5-401.2		inspection
	511 0 0 020			50,015	511 0 0 10112		mspection
VOC	BAAQMD	Y		Primary rim-seal standards;	BAAQMD	P/SA and	Seal inspection
	8-5-321 &			includes gap criteria	8-5-401.1 &	every time a	-
	SIP 8-5-321				SIP 8-5-401.1	seal is replaced	
					SH 0 5 401.1		
VOC	BAAQMD	Y		Secondary rim-seal	BAAQMD	P/SA and	Seal inspection
	8-5-322 &			standards; includes gap	8-5-401.1 &	every time a	
	SIP 8-5-322			criteria	SIP 8-5-401.1	seal is replaced	
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21
	8-5-328.1			concentration of < 10,000	8-5-328.1	emptied &	portable
				ppm as methane after		degassed;	hydrocarbon
				degassing		4 consecutive	detector
						measurements	
						at 15 minute	
VOC	SIP	Y		Concentration of < 10,000	SIP	intervals periodic	Portable
, , ,	8-5-328.1.2	1		ppm as methane after	8-5-503	each time	hydrocarbon
	0 5 520.1.2			degassing	0 5-505	emptied &	detector
				acgassing		degassed	20100101
VOC		Y		Records of tank seal	BAAQMD	periodic	records
				replacement	8-5-501.2	after each tank	
				•		seal	
						replacement	

Table VII – BB.5 Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF TANKS S439 (TANK 109), S440 (TANK 110), S442 (TANK 112), S444 (TANK 243)

Type of	Emission		Future		Monitoring	Monitoring							
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring						
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type						
	40 CFR 60,	Subpar	t Kb – NSI	PS for VOL Storage Vessels									
	40 CFR 63,	Subpar	t CC – NE	SHAPS for Petroleum Refine	ries								
	LIMITS AN	LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS											
VOC	40 CFR	Y		Deck fitting closure	40 CFR	<u>periodic</u>	visual						
	63.640			standards; includes gasketed	63.640(n)(8),	initially & each	inspection						
	(n)(2),			covers	60.113b	time emptied &							
	60.112b				(b)(6)	degassed							
	(a)(2)(ii)												
VOC	40 CFR	Y		Primary rim-seal standards;	40 CFR	<u>periodic</u>	measurement						
	63.640			includes gap criteria	63.640(n)(8),	initially & at 5	and visual						
	(n)(2),				60.113b	yr intervals	inspection						
	60.113b				(b)(1)-(b)(3)								
110.0	(b)(4)(i)				10.000								
VOC	40 CFR	Y		Secondary rim-seal	40 CFR	<u>periodic</u>	measurement						
	63.640			standards; includes gap	63.640(n)(8),	initially &	and visual						
	(n)(2), 60.113b			criteria	60.113b	annually	inspection						
	(b)(4)(ii)				(b)(1)-(b)(3)								
VOC	40 CFR	Y		Record of liquid stored and	40 CFR	periodic	Records						
VOC	63.640	1		rue vapor pressure	63.640(n)(8),	upon change of	Records						
	(n)(2),			rue vapor pressure	60.116b	service							
	60.116b				(c) & (e)	SCI VICC							
	(c)				(0) (0)								
VOC	, ,	Y		Seal inspection records for	40 CFR	periodic	Records						
				report in 60.115b(b)(2)	63.640(n)(8),	For each gap							
					60.115b(b)(3)	measurement							
VOC		Y		Inspection report for seal	40 CFR	periodic Within	Report						
				gap measurements	63.640(n)(8),	60 days of seal							
					60.115b(b)(2)	gap							
						measurement							
VOC		Y		Inspection report for non-	40 CFR	periodic Within	Report						
				compliant seals	63.640(n)(8),	30 days of seal							
					60.115b(b)(4)	inspection							
	BAAQMD PERMIT CONDITIONS												
	ng applies to		nly		1	Į.							
throughput	1	Y		10,000,000 bbl/yr	BAAQMD	P/M	records						
	Condition			crude oil only or petroleum	Condition								
	12124, Part			liquids below 3.0 psia	12124, Part 3								
	1												
L	u -		<u> </u>		<u> </u>	l							

Table VII – BB.5 Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF TANKS S439 (TANK 109), S440 (TANK 110), S442 (TANK 112), S444 (TANK 243)

Type of	Emission		Future		Monitoring	Monitoring				
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring			
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре			
The followin	g applies to	S440 o	nly		"					
throughput	BAAQMD	Y		3,600,000 bbl/yr	BAAQMD	P/M	records			
	Condition				Condition					
	12125, Part				12125, Part 3					
	1									
The followin	g applies to	S442 o	nly							
throughput	BAAQMD	Y		10,000,000 bbl/yr gas oil	BAAQMD	P/M	records			
	Condition			10,000,000 bbl/yr crude oil	Condition					
	12127, Part			10,000,000 bbl/yr gas oil	12127, Part 4					
	1			and crude oil combined						
Vapor	BAAQMD	Y		Gas oil vapor pressure less	BAAQMD	N	records			
pressure	Condition			than or equal to 3.0 psia	Condition					
	12127, Part				12127, Part 2					
	2			Crude oil true vapor						
				pressure less tha or equal to						
				11.0 psia						
The following	The following applies to S444 only									
throughput	BAAQMD	Y		4,380,000 bbl/yr	BAAQMD	P/M	records			
	Condition				Condition					
	12129, Part				12129, Part 3					
	1									

Table VII – BB.6
Applicable Limits and Compliance Monitoring Requirements
NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS
S101 (TANK 104), S102 (TANK 105), S106 (TANK 130)

	S101 (TANK 104), S102 (TANK 105), S106 (TANK 130)											
Type of	Emission		Future		Monitoring	Monitoring						
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring					
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type					
	BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS											
	LIMITS AN	LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS										
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD & SIP	periodic initially and	records					
					8-5-501.1	upon change of service						
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector					
VOC	BAAQMD & SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD & SIP 8-5-401.2	P/SA	Measurement and visual inspection					
VOC	BAAQMD & SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD & SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection					
VOC	BAAQMD & SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD & SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection					
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurement s at 15 minute intervals	Method 21 portable hydrocarbon detector					
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	periodic each time emptied & degassed	Portable hydrocarbon detector					
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	periodic after each tank seal replacement	records					

Table VII – BB.6
Applicable Limits and Compliance Monitoring Requirements
NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS
S101 (TANK 104), S102 (TANK 105), S106 (TANK 130)

	S101 (TANK 104), S102 (TANK 105), S106 (TANK 130)											
Type of	Emission		Future		Monitoring	Monitoring						
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring					
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type					
The followi	ing apply to S	106 on	ly									
VOC	BAAQMD	N		Pressure vacuum valve set to	BAAQMD	P/initial	Records					
	8-5-303.1			90% of tank's maximum	8-5-501.4							
				allowable working pressure								
				or at least 0.5 psig								
VOC	SIP	Y		Pressure vacuum valve set	SIP 8-5-403	P/SA	visual					
	8-5-303.1			pressure within 10% of maximum allowable working	8-5-403		inspection					
				pressure of the tank, or at								
				least 0.5 psig								
VOC	BAAQMD	N		Pressure vacuum valve	BAAQMD	P/SA	Method 21					
	8-5-303.2			sealing mechanism must be	8-5-403		portable					
				gas-tight: < 500 ppm	8-5-403.1		hydrocarbon					
							detector					
				OR	BAAQMD	P/Q	Method 21					
				OK .	8-5-403	(optional)	portable					
					8-5-403.1	(**************************************	hydrocarbon					
					8-5-411.3		detector					
					(optional)							
				Pressure vacuum valve	BAAQMD	P/A	Source test					
				sealing mechanism must be	8-5-502.1		(Not required					
				vented to abatement with			if vented to					
VOC	SIP	Y		95% efficiency Pressure vacuum valve must	SIP	P/SA	fuel gas) Method 21					
VOC	8-5-303.2	1		be gas-tight: < 500 ppm (as	8-5-403	I/SA	portable					
	0 5 303.2			methane) above background	8-5-503		hydrocarbon					
				<i>g</i>	8-5-605		detector					
The followi	ing apply to S	106 on	ly									
	11			8 – Organic Compounds – W	astewater (Oil	Water Separa	tors)					
		<i>G</i>	,	. r	. (1	,					
VOC	BAAQMD	Y		Primary seal gap criteria	BAAQMD	periodic	measurem					
	8-8-302.2				8-8-302.2.3	initially and						
	8-8-302.2.1				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	every 5 year						
VOC		Y		Secondary and wiper seal	BAAQMD	periodic						
V 0C	BAAQMD	1			_		measurem					
	8-8-302.2			gap criteria	8-8-302.2.3	initially and						
	8-8-302.2.2					every 5 year	s inspection					

Table VII – BB.6 Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS S101 (TANK 104), S102 (TANK 105), S106 (TANK 130)

Type of Emission Limit FE Effective Citation V/N Date Emission Limit Citation Citation V/N Date Emission Limit Citation Ci			101 (4), S102 (TANK 105), S	1		
Citation V/N Date Emission Limit Citation (P/C/N) Type	· -	Emission		Future		Monitoring	Monitoring	
VOC	Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
NONE		Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
NONE	VOC	BAAQMD	Y		Vapor tight gauging and	BAAQMD	N	Portable
NONE		8-8-303			sampling devices	8-8-504		hydrocarb
NONE						8-8-603		on
NO MONITORING REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES 40 CFR 60, Subpart Kb – NSPS for VOL Storage Vessels 40 CFR 60, Subpart QQ – VOC Emissions from Petroleum Refinery Wastewater Systems 40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS VOC 40 CFR Y Deck fitting closure standards; includes gasketed 60.692-3(d) (60.1351(a)(2) (60.112b (a)(2)(ii) (60.2)(ii) (60.2)(iii) (detector
NO MONITORING REQUIREMENTS FOR GROUP 2 WASTEWATER SOURCES	NONE	40 CFR 63. S	Subpai	t CC – NE	SHAPS for Petroleum Refine	ries	1	
40 CFR 60, Subpart QQQ - VOC Emissions from Petroleum Refinery Wastewater Systems 40 CFR 61 Subpart FF - NESHAPS for Benzene Waste Sources			_				SOURCES	
VOC		40 CFR 60, S	Subpar	t Kb – NSI	PS for VOL Storage Vessels			
VOC		40 CFR 60, S	Subpar	t QQQ – V	OC Emissions from Petroleur	m Refinery Wa	stewater Syste	ms
VOC		1	_			=	•	
Secondary rim-seal standards; includes gap criteria Go.692-3(d) Go.692-3(d) Go.692-3(d) Go.113b Go.692-3(d) Go.113b Go.692-3(d) Go.692-3							NKS	
	VOC	40 CFR	Y		Deck fitting closure	40 CFR	periodic	visual
Column C		60.692-3(d)			standards; includes gasketed	60.692-3(d)	•	inspection
(a)(2)(ii)		61.351(a)(2)			covers	60.113b	each time	
VOC 40 CFR (60.692-3(d)) Y includes gap criteria Primary rim-seal standards; includes gap criteria 40 CFR (60.692-3(d)) initially & at (60.113b) (b)(1)-(b)(3) measurement and visual inspection VOC 40 CFR (50.692-3(d)) (b)(4)(i) Y (60.692-3(d)) (b)(4)(i) Secondary rim-seal standards; includes gap (60.692-3(d)) (b)(1)-(b)(3) 40 CFR (60.692-3(d)) (a) (initially & and visual inspection measurement and visual inspection VOC 40 CFR (60.692-3(d)) (b)(4)(ii) Record of liquid stored and true vapor pressure 40 CFR (60.692-3(d)) (a) (a) (b)(1)-(b)(3) Records VOC 40 CFR (60.692-3(d)) (c) Y (60.692-3(d)) (a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		60.112b				(b)(6)	emptied &	
60.692-3(d) includes gap criteria 60.692-3(d) 60.113b 5 yr intervals 60.113b 60.113b 60.113b 60.692-3(d) 60.113b 60.692-3(d) 60.692-3(d) 61.351(a)(2) 60.113b 60.692-3(d) 60.113b 60.692-3(d) 60.692-3(d) 60.692-3(d) 60.692-3(d) 60.116b 60.692-3(d) 60.692-3		(a)(2)(ii)					degassed	
Column C	VOC	40 CFR	Y		Primary rim-seal standards;	40 CFR	<u>periodic</u>	measurement
WOC					includes gap criteria			and visual
VOC							5 yr intervals	inspection
VOC40 CFR 60.692-3(d) 61.351(a)(2) 60.113b (b)(4)(ii)YSecondary rim-seal standards; includes gap criteria40 CFR 60.692-3(d) (b)(1)-(b)(3)periodic initially & annuallymeasurement and visual inspectionVOC40 CFR 60.692-3(d) 60.116b (c)YRecord of liquid stored and true vapor pressure40 CFR 60.692-3(d) (c) & (e)periodic upon change of serviceRecordsVOCYSeal inspection records for report in 60.115b(b)(2)40 CFR (c) & (e)periodic (c) & (e)Records						(b)(1)-(b)(3)		
Seal inspection records for report in 60.115b(b)(2) Standards; includes gap criteria Standards; includes gap criteria 60.692-3(d) initially & and visual inspection 60.113b (b)(1)-(b)(3)								
Criteria G0.113b annually inspection	VOC		Y		I -		_	
Column C							1	
VOC					criteria		annually	inspection
VOC 40 CFR (60.692-3(d)) Y Record of liquid stored and true vapor pressure 40 CFR (60.692-3(d)) periodic upon change of service Records VOC Y Seal inspection records for report in 60.115b(b)(2) 40 CFR (c) & (e) periodic (c) & (e) Records VOC Y Seal inspection records for report in 60.115b(b)(2) 40 CFR (60.692-3(d)) For each gap (61.356(k)) For each gap (61.356(k))						(b)(1)-(b)(3)		
60.692-3(d) true vapor pressure 60.692-3(d) upon change 60.116b of service	T.O.C.		* 7		D 1 01 11 1 1	40 CER		ъ .
60.116b 60.116b of service	VOC		Y		_			Records
VOC Y Seal inspection records for report in 60.115b(b)(2) 40 CFR (60.692-3(d)) periodic For each gap (61.356(k)) Records (61.356(k))		11			true vapor pressure			
VOC Y Seal inspection records for report in 60.115b(b)(2) 40 CFR periodic 60.692-3(d) For each gap 61.356(k) measurement							of service	
report in 60.115b(b)(2) 60.692-3(d) For each gap 61.356(k) measurement	VOC	(c)	37		C1:			D d -
61.356(k) measurement	VOC		ĭ				*	Records
					report iii 60.1136(6)(2)			
						60.115b(b)(3)	measurement	
VOC Y Inspection report for seal 40 CFR periodic Report	VOC		Y		Inspection report for seal		periodic	Report
gap measurements 60.692-3(d) Within 60	1 100		1				_	Кероп
gap ineasurements 00.072-5(d) Within 60 61.357(f) days of seal					Sup measurements			
60.115b(b)(2) gap								
measurement								

Table VII – BB.6 Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO GAP EXTERNAL FLOATING ROOF STORMWATER EQUALIZATION TANKS S101 (TANK 104), S102 (TANK 105), S106 (TANK 130)

Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
VOC		Y		Inspection report for non-	40 CFR	<u>periodic</u>	Report
				compliant seals	60.692-3(d)	Within 30	
					61.357(f)	days of seal	
					60.115b(b)(4)	inspection	
	BAAQMD P	ERMI	T CONDIT	TIONS			
throughput	BAAQMD	Y		S101: 3.68 E 9 gal/yr	BAAQMD	P/M	records
	Condition			S102: 3.68 E 9 gall/yr	Condition		
	20989, Part			S106: 3.68 E 9 gal/yr	20989, Part A		
	A						

Table VII – BB.7A Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO GAP INTERNAL FLOATING ROOF TANK BUT WITH NSPS KB AND BAAQMD 8-5 FLEXIBILITY S448 (TANK 1007)

				DIIO (IMINI 1007)			
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	S448 will be	subject	t to the requ	irements of Table IV-BB.7A w	when storing mat	erials subject to	NSPS Kb and
	BAAQMD 8	-5. S44	8 will be su	bject to the requirements of Ta	ible IV-BB.7B w	hen storing ma	terials exempt
	from NSPS I	Kb and	BAAAMD	8-5.			
	BAAQMD F	Regulat	tion 8, Rule	5, Organic Compounds - ST	ORAGE OF O	RGANIC LIQ	UIDS
	LIMITS AN	D MO	NITORING	G FOR INTERNAL FLOAT	ING-ROOF TA	NKS	
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD	<u>periodic</u>	Records
	8-5-301			true vapor pressure	& SIP	initially and	
					8-5-501.1 &	upon change	
					Condition	of service	
					12133, Part 4a		
VOC	BAAQMD	Y		Floating roof fitting closure	BAAQMD &	P/SA	Measurement
	& SIP			standards; includes gasketed	SIP		and visual
	8-5-320			covers	8-5-402.3		inspection

Table VII – BB.7A Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO GAP INTERNAL FLOATING ROOF TANK BUT WITH NSPS KB AND BAAQMD 8-5 FLEXIBILITY

S448 (TANK 1007)

TD	E		E-4	5440 (TANK 1007)	N. 7	N# *4 *	
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
VOC	BAAQMD	Y		Primary rim-seal standards;	BAAQMD &	<u>periodic</u>	Seal
	& SIP			includes gap criteria	SIP	10 year	inspection
	8-5-321				8-5-402.1 &	intervals and	
					Condition	every time a	
					12133, Part 4c		
						replaced &	
						prior to	
						refilling tank	
TIO C	D + + 63 (D	* 7		0 1 1	D 4 4 63 4D 6	with VOL	G 1
VOC	BAAQMD	Y		Secondary rim-seal	BAAQMD &	periodic	Seal
	& SIP			standards; includes gap	SIP	10 year	inspection
	8-5-322			criteria	8-5-402.1	intervals and	
						every time a seal is	
VOC	BAAQMD	Y		Visual inspection of outer	BAAQMD &	replaced P/SA	Visual
VOC	8-5-305,	1		most seal	SIP	F/SA	inspection
	8-5-321.1,			most sear	8-5-402.2		inspection
	8-5-322.1				0 3 402.2		
VOC	BAAQMD	N		Floating roof fittings, visual	BAAQMD	P/Q	Fitting
	8-5-320			inspection of outer most seal	8-5-402.2	(optional)	inspection;
	8-5-321				8-5-402.3	(4)	Visual
	8-5-321.1				8-5-411.3		inspection
	8-5-322.1				(optional)		•
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21
	8-5-328.1			concentration of < 10,000	8-5-328.1	emptied &	portable
				ppm as methane after		degassed;	hydrocarbon
				degassing		4 consecutive	detector
						measurement	
						s at 15	
						minute	
						intervals	
VOC	SIP	Y		Concentration of < 10,000	SIP	<u>periodic</u>	Portable
	8-5-328.1.2			ppm as methane after	8-5-503	each time	hydrocarbon
				degassing		emptied &	detector
						degassed	

Table VII – BB.7A Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO GAP INTERNAL FLOATING ROOF TANK BUT WITH NSPS KB AND BAAQMD 8-5 FLEXIBILITY

S448 (TANK 1007)

Type of	Emission		Future	5446 (TRIKE 1007)	Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation		_
VOC	Citation	Y	Date	Records of tank seal	BAAQMD	(P/C/N)	Type Records
VOC		1			8-5-501.2	<u>periodic</u> after each	Records
				replacement	8-3-301.2	tank seal	
						replacement	
	40 CFR 60 S	luhnar	t Kh _ NSP	S for VOL Storage Vessels	I	терисеннен	
		_		SHAPS for Petroleum Refine	rios		
		_		G FOR INTERNAL FLOAT		NKC	
VOC	40 CFR	Y	MITOKING	Deck fitting closure	40 CFR	periodic	visual
VOC	63.640	1		standards; includes gasketed	63.640(n)(8),	initially &	inspection
				covers	60.113b	each time	mspection
	(n)(2), 60.112b			covers		emptied &	
					(a)(3) & (4)	-	
	(a)(1)					degassed, at least every 10	
						•	
						yr	
VOC	40 CFR	Y		Primary rim-seal standards;	40 CFR	<u>periodic</u>	visual
	63.640			no holes or tears	63.640(n)(8),	initially &	inspection
	(n)(2),				60.113b	each time	
	60.113b				(a)(3) & (4) &	emptied &	
	(a)(1) & (4)				Condition	degassed &	
					12133, Part 4c	prior to	
						refilling tank	
						with VOL, at	
						least every 10	
						yr	
VOC	40 CFR	Y		Secondary rim-seal	40 CFR	<u>periodic</u>	visual
	63.640			standards; no holes or tears	63.640(n)(8),	initially &	inspection
	(n)(2),				60.113b	each time	
	60.113b				(a)(3) & (4) &	emptied &	
	(a)(1) & (4)				Condition	degassed &	
					12133, Part 4c	prior to	
						refilling tank	
						with VOL, at	
						least every 10	
						yr	
VOC	40 CFR	Y		Internal visual inspection	40 CFR	<u>periodic</u>	visual
	63.640			from viewports of fixed roof	63.640(n)(8),	initially &	inspection
	(n)(2),				60.113b	annually	
	60.113b				(a)(2) & (3)		
	(a)(2)						

Table VII – BB.7A Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO GAP INTERNAL FLOATING ROOF TANK BUT WITH NSPS KB AND BAAQMD 8-5 FLEXIBILITY

S448 (TANK 1007)

Type of	Emission		Future	,	Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
VOC	40 CFR	Y		Record of liquid stored and	40 CFR	periodic	records
	63.640			true vapor pressure	63.640(n)(8),	upon change	
	(n)(2),				60.116b	of service	
	60.116b				(c) & (e) &		
	(c)				Condition		
					12133, Part 4a		
VOC		Y		Record of each initial,	40 CFR	<u>periodic</u>	records
				annual, and 10-year tank	63.640(n)(8),	for each tank	
				inspection	60.115b(a)(2)	inspection	
VOC		Y		Report of non-compliant	40 CFR	<u>periodic</u>	report
				annual inspection for tanks	63.640(n)(8),	within 30	
				with secondary seals	60.115b(a)(4)	days of tank	
						inspection	
	BAAQMD F	PERMI	T CONDIT	TIONS			
throughput	BAAQMD	Y		2,190,000 bbl/yr	BAAQMD	P/M	records
	Condition				Condition		
	12133, Part				12133, Part 3		
	1						

Table VII – BB.7B Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO-GAP INTERNAL FLOATING ROOF TANK

BUT WITH NSPS KB AND BAAQMD 8-5 FLEXIBILITY S448 (TANK 1007)

				DTTO (TANK 1007)						
Type of	Emission		Future		Monitoring	Monitoring				
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring			
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type			
	S448 will be subject to the requirements of Table IV-BB.7A when storing materials subject to NSPS Kb and									
	BAAQMD 8-5. S448 will be subject to the requirements of Table IV-BB.7B when storing materials exempt									
	from NSPS Kb and BAAAMD 8-5.									
	BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS									
	Exempt per 8	-5-11	7. Low vapo	or pressure						

Table VII – BB.7B Applicable Limits and Compliance Monitoring Requirements NSPS KB ZERO-GAP INTERNAL FLOATING ROOF TANK BUT WITH NSPS KB AND BAAQMD 8-5 FLEXIBILITY

S448 (TANK 1007)

Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
POC	BAAOMD	Y		Exemption from Regulation	BAAQMD	P/E	Vapor pressure
	8-5-117 &			8-5 when true vapor	2-6-409.2 &		determination
	Condition			pressure is less than 25.8	Condition		upon material
	20773, Part 1			mm Hg (0.5 psia).	20773, Part 2		change &
					& Condition		Records
					12133, Part 4a		
	40 CFR 63, S	ubpaı	t CC – Nat	ional Emission Standards fo	r Hazardous Ai	ir Pollutants fo	r Petroleum
	Refineries						
	RECORDKE	EPIN	G ONLY				
HAP	40 CFR	Y		Retain weight percent total	40 CFR	<u>periodic</u>	Records
	63.641			organic HAP in stored liquid	63.655(i)(1)	initially and	
				for Group 2 determination.	(iv) and 40	upon change	
				Keep records of vessel	CFR	in service	
				dimensions, capacity, and	63.655(i)(1)		
				identification of liquid	(vi)		
				stored.			
	BAAQMD Pe	rmit	Conditions				
throughput	BAAQMD	Y		Throughput of materials that	BAAQMD	P/M	records
	Condition			are not subject to Regulation	Condition		
	12133, Part 1			8, Rule 5 and 40 CFR Part	12133, Part 3		
				60 Subpart Kb is not			
				restricted			

Table VII – BB.8 Applicable Limits and Compliance Monitoring Requirements INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS PREVIOUSLY EXTERNAL FLOATING ROOF TANKS S126 (Tank 172), S257 (Tank 1004), S258 (Tank 1005)

Type of	Emission		Future		Monitoring	Monitoring							
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring						
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type						
	BAAQMD I	Regulat	tion 8, Rule	5, Organic Compounds - ST	ORAGE OF O	RGANIC LIQ	UIDS						
	LIMITS AN	LIMITS AND MONITORING FOR INTERNAL FLOATING-ROOF TANKS											
VOC	BAAQMD	Y		Record of liquids stored and	-	<u>periodic</u>	Records						
	8-5-301			true vapor pressure	SIP	initially and							
					8-5-501.1	upon change							
VOC	DAAOMD	Y		El ', C., ', 1	DAAOMD 8	of service	3.4						
VOC	BAAQMD & SIP	Y		Floating roof fitting closure standards; includes gasketed	BAAQMD & SIP	P/SA	Measurement and visual						
	8-5-320			covers	8-5-402.3		inspection						
	0-3-320			COVEIS	0-3-402.3		inspection						
VOC	BAAQMD	Y		Primary rim-seal standards;	BAAQMD &	periodic	Seal						
	& SIP			includes gap criteria	SIP	10 year	inspection						
	8-5-321				8-5-402.1	intervals and							
						every time a							
						seal is							
NO.G	D 1 1 0 1 1 D	* 7		g 1 · 1	D + + 61 (D - 0	replaced	G 1						
VOC	BAAQMD & SIP	Y		Secondary rim-seal	BAAQMD & SIP	periodic	Seal						
	8-5-322			standards; includes gap criteria	8-5-402.1	10 year intervals and	inspection						
	6-3-322			criteria	6-3-402.1	every time a							
						seal is							
						replaced							
VOC	BAAQMD	Y		Visual inspection of outer	BAAQMD &	P/SA	Visual						
	8-5-305,			most seal	SIP		inspection						
	8-5-321.1,				8-5-402.2								
	8-5-322.1												
VOC	BAAQMD	N		Floating roof fittings, visual	BAAQMD	P/Q	Fitting						
	8-5-320			inspection of outer most seal	8-5-402.2	(optional)	inspection;						
	8-5-321				8-5-402.3		Visual						
	8-5-321.1				8-5-411.3		inspection						
	8-5-322.1				(optional)								

Table VII – BB.8 Applicable Limits and Compliance Monitoring Requirements INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS PREVIOUSLY EXTERNAL FLOATING ROOF TANKS

S126 (Tank 172), S257 (Tank 1004), S258 (Tank 1005)

	5120 (Tank 172), 5257 (Tank 1004), 5258 (Tank 1005)											
Type of	Emission		Future		Monitoring	Monitoring						
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring					
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре					
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurement s at 15 minute	Method 21 portable hydrocarbon detector					
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	periodic each time emptied & degassed	Portable hydrocarbon detector					
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	periodic after each tank seal replacement	Records					
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records					
VOC	SIP 8-5- 303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection					
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector					
				OR	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector					
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)					

Table VII – BB.8 Applicable Limits and Compliance Monitoring Requirements INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS PREVIOUSLY EXTERNAL FLOATING ROOF TANKS

S126 (Tank 172), S257 (Tank 1004), S258 (Tank 1005)

	512	1) 00	ank 172), 525 7 (Talik 1004), S	<u> </u>		
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
VOC	SIP	Y		Pressure vacuum valve must	SIP	P/SA	Method 21
	8-5-303.2			be gas-tight: < 500 ppm (as	8-5-403		portable
				methane) above background	8-5-503		hydrocarbon
					8-5-605		detector
The following	ng apply only						
	CFR 63, Sub	-					
	· ·	_		SHAPS for Petroleum Refine			
			10NITORI	NG FOR INTERNAL FLOA	II.		
HAP	40 CFR	Y		Deck fitting closure	40 CFR	<u>periodic</u>	visual
	63.646(f)			standards	63.646	each time	inspection
					(a) & (e)	emptied &	
					63.120(a)(3)	degassed, at	
						least every 10	
TIAD	40 GED	* 7		B	40 CED	years	
HAP	40 CFR	Y		Primary rim-seal standards;	40 CFR	<u>periodic</u>	visual
	63.646(a)			no holes or tears	63.646(a)	each time	inspection
	63.120(a)(7)				63.120(a)(3)	emptied &	
						degassed, at least every 10	
						_	
HAP	40 CFR	Y		No gaps visible from the	40 CFR	years P/A	visual
паг	63.646(a)	1		tank top	63.646(a)	r/A	inspection
	63.120(a)(4)			talk top	63.120(a)(3)		mspection
HAP	40 CFR	Y		No liquid on the floating	40 CFR	P/A	visual
IIAI	63.646(a)	1		roof or other obvious defects		1/A	inspection
	63.120(a)(4)			visible from the tank top	63.120(a)(3)		mspection
HAP	40 CFR	Y		Rim-seal standards, deck	03.120(a)(3)	P/A or	visual
11111	63.660 and	1		fitting standards, operational		periodic	inspection
	subpart WW			requirements, inspection and		each time	spection
	or subpart SS			repair requirements		emptied &	
	according to			repair requirements		degassed, at	
	the					least every 10	
	provisions of					years	
	63.660					J	
	BAAQMD P	ERMI	T CONDIT	TIONS	U	1	
	2,1,14,10,11		I COMPI	. 10.110			

Table VII – BB.8 Applicable Limits and Compliance Monitoring Requirements INTERNAL FLOATING ROOF TANKS WITH DOME ROOFS PREVIOUSLY EXTERNAL FLOATING ROOF TANKS

S126 (Tank 172), S257 (Tank 1004), S258 (Tank 1005)

	5120 (14IIX 172), 5227 (14IIX 1004), 5220 (14IIX 1002)									
Type of	Emission		Future		Monitoring	Monitoring				
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring			
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type			
throughput	BAAQMD	N		S257: 7.01 E 7 bbl/yr	BAAQMD	P/M	Records			
	Condition			S258: 7.01 E 7 bbl/yr	Condition , Part					
	20989, Part				A					
	A									
Throughput	BAAQMD	Y		S126: 594,845 bbl/	BAAQMD	P/M	Records			
	Condition			consecutive 12-month	Condition					
	26689			period	26689 Part 5					
	Part 1									

Table VII – BB.9 Applicable Limits and Compliance Monitoring Requirements NSPS KB FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S135 (TANK 200), S360 (TANK 223), S445 (TANK 271), S449 (TANK 285), S506 (TANK 257)

				Devo (Imin zer)		1	
	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD R	Regulat	tion 8, Rule	5, Organic Compounds - ST	ORAGE OF O	RGANIC LIQ	UIDS
	LIMITS AN	D MO	NITORING	G FOR CVS & CONTROL D	EVICES		
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD	<u>periodic</u>	records
	8-5-301			true vapor pressure	8-5-501.1	initially and	
						upon change	
						of service	
VOC	BAAQMD	Y		Pressure vacuum valve set	BAAQMD	P/SA	visual
	8-5-303.1			pressure within 10% of	8-5-403		inspection
				maximum allowable working			
				pressure of the tank, or at			
				least 0.5 psig			
VOC	BAAQMD	Y		Pressure vacuum valve must	BAAQMD	P/SA	Method 21
	8-5-303.2			be gas-tight: < 500 ppm (as	8-5-403		portable
				methane) above background	8-5-503		hydrocarbon
					8-5-605		detector

Table VII – BB.9 Applicable Limits and Compliance Monitoring Requirements NSPS KB FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S135 (TANK 200), S360 (TANK 223), S445 (TANK 271), S449 (TANK 285), S506 (TANK 257)

	Emission		Future	Se ou (Thick 201)	Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
-	BAAQMD	Y		Control device standards;	BAAQMD	not specified	MOP
	8-5-306			includes 95% efficiency	8-5-603.1	•	Volume IV
				requirement			ST-4
	BAAQMD	Y		Organic concentration in tank	BAAQMD	periodic	portable
8	3-5-328.1.2			<10,000 ppm as methane	8-5-503	each time	hydrocarbon
				after cleaning		emptied &	detector
					DA A OMB	degassed	
VOC		Y		Determination of	BAAQMD 8-5-604	P/E	look-up table
				applicability	8-3-004		or sample
NONE 4	0 CFD 63 S	uhnar	+ CC NES	 SHAPS for Petroleum Refine	ries		analysis
		_		ission point routed to fuel gas			
				S for VOL Storage Vessels			
		-		G FOR CVS & CONTROL D	EVICES (NOT	A FLARE)	
VOC	40 CFR	Y		Closed vent system leak	40 CFR	as required in	Method 21
	60.112b			tightness standards	60.112b	60.485(b)	
	(a)(3)(i)			(< 500 ppmw)	(a)(3)(i)	[Subpart VV]	
VOC	40 CFR	Y		Control device standards;	40 CFR	as approved	specified
	60.112b			includes 95% efficiency	60.113b		parameter
	(a)(3)(ii)			requirement	(c)(2)		
В	BAAQMD P	ERMI	T CONDIT	TIONS			
The following	applies to S	135 oı	nly				
VOC	BAAQMD	Y		Vapor pressure < 11 psia	BAAQMD	periodic	records
	Condition				8-5-501.1	initially and	
2	22518, Part 1					upon change	
						of service	
	BAAQMD	Y		10 E 6 bbl/yr	BAAQMD	P/E	Records
	Condition				8-5-501.1		
2	22518, Part 3						
The following	applies to S	445 o	nly.				
VOC	BAAQMD	Y		Requirement to vent	None	N	None
	Condition			working emissions to fuel			
	2130, Part 1			gas system			

Table VII – BB.9 Applicable Limits and Compliance Monitoring Requirements NSPS KB FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S135 (TANK 200), S360 (TANK 223), S445 (TANK 271), S449 (TANK 285), S506 (TANK 257)

				5500 (Till (R 251)	1		
	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
The following	ng applies to S	5449 o	nly.				
VOC	BAAQMD	Y		Requirement to vent	None	N	None
	Condition			working emissions to fuel			
	11219, Part 1			gas system			
The following	ng applies to S	5360 o	nly.				
throughput	BAAQMD	Y		2.78 E 6 bbl/yr	BAAQMD	P/M	records
	Condition				Condition		
2	20989, Part A				20989, Part A		
The following	ng applies to S	S135, S	360, S445,	and S449.			
	Condition	Y		Applies to S135	Condition	С	Pressure
	#23724, part				#23724, part 3		monitoring
	4a			1.7 inches of water			
	Condition	Y		Applies to S360	Condition	C	Pressure
	#23724, part			1.9 inches of water	#23724, part 3		monitoring
	4a						
	Condition	Y		Applies to S445	Condition	С	Pressure
	#23724, part			1.9 inches of water	#23724, part 3		monitoring
	4a						
	Condition	Y		Applies to S449	Condition	C	Pressure
	#23724, part			1.5 inches of water	#23724, part 3		monitoring
	4a						
The following	ng applies to S	5506 o	nly				
VOC	Condition	Y		Applies to S506	Condition	С	Pressure
	#23724, part			2.2 inches of water	#23724, part 3		monitoring
	4a						

Table VII – BB.10 Applicable Limits and Compliance Monitoring Requirements NSPS KB FIXED ROOF TANKS WITH VAPOR PRESSURE >= 76.6 KPA (11 PSIA) WITH VAPOR RECOVERY TO FUEL GAS S446 (TANK 310), S447 (TANK 311)

T 0	ъ.		Ì	(1/11)		35	
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD F	Regula	tion 8, Rule	5, Organic Compounds - ST	ORAGE OF O	RGANIC LIQ	UIDS
	LIMITS AN	D MO	NITORING	G FOR CVS & CONTROL D	DEVICES		
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD &	<u>periodic</u>	records
	8-5-301			true vapor pressure	SIP	initially and	
					8-5-501.1	upon change	
						of service	
VOC	BAAQMD	N		Pressure vacuum valve set to	BAAQMD	P/initial	Records
	8-5-303.1			90% of tank's maximum	8-5-501.4		
				allowable working pressure			
				or at least 0.5 psig			
VOC	BAAQMD	N		Pressure vacuum valve	BAAQMD	P/SA	Method 21
	8-5-303.2			sealing mechanism must be	8-5-403		portable
				gas-tight: < 500 ppm	8-5-403.1		hydrocarbon
							detector
				o.p.			
				<u>OR</u>			
					BAAQMD	P/Q	Method 21
					8-5-403	(optional)	portable
					8-5-403.1		hydrocarbon
					8-5-411.3		detector
					(optional)		
				Pressure vacuum valve	BAAQMD	P/A	Source test
				sealing mechanism must be	8-5-502.1		(Not
				vented to abatement with			required if
				95% efficiency			vented to
							fuel gas)
VOC	SIP	Y		Pressure vacuum valve set	SIP	P/SA	visual
	8-5-303.1			pressure within 10% of	8-5-403		inspection
				maximum allowable			
				working pressure of the			
				tank, or at least 0.5 psig			
VOC	SIP	Y		Pressure vacuum valve must	SIP	P/SA	Method 21
	8-5-303.2			be gas-tight: < 500 ppm (as	8-5-403		portable
				methane) above background	8-5-503		hydrocarbon
					8-5-605		detector

Table VII – BB.10 Applicable Limits and Compliance Monitoring Requirements NSPS KB FIXED ROOF TANKS WITH VAPOR PRESSURE >= 76.6 KPA (11 PSIA) WITH VAPOR RECOVERY TO FUEL GAS

S446 (TANK 310), S447 (TANK 311)

	П) טדדט	1 ANK 310), 5447 (1 AN	(KJII)	1	
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
VOC	BAAQMD	N		Control device standards;	BAAQMD	N	No
	8-5-306.1			includes 95% efficiency	8-5-502		monitoring
				requirement			required –
							vented to
							fuel gas
							recovery
							system
VOC	SIP 8-5-306	Y		Control device standards;	SIP	not specified	MOP
				includes 95% efficiency	8-5-603.1		Volume IV
				requirement			ST-4
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21
	8-5-328.1			concentration of < 10,000	8-5-328.1	emptied &	portable
				ppm as methane after		degassed;	hydrocarbon
				degassing		4 consecutive	detector
						measurement s at 15	
						minute	
						intervals	
VOC	SIP	Y		Organic concentration in	SIP	periodic	portable
, 50	8-5-328.1.2	•		tank <10,000 ppm as	8-5-503	each time	hydrocarbon
	0 0 020.1.2			methane after cleaning		emptied &	detector
						degassed	
NONE	40 CFR 63, S	Subpar	t CC – NES	SHAPS for Petroleum Refine	eries		l .
	Exempt per	63.640	(d)(5). Emi	ssion point routed to fuel ga	s system.		
	40 CFR 60, S	Subpar	t Kb – NSF	S for VOL Storage Vessels	-		
		_		FOR CVS & CONTROL D	DEVICES (NOT	A FLARE)	
VOC	40 CFR	Y		Closed vent system leak	40 CFR	as required in	Method 21
	60.112b			tightness standards (< 500	60.112b	60.485(b)	
	(a)(3)(i)			ppmw)	(a)(3)(i)	[Subpart VV]	
VOC	40 CFR	Y		Control device standards;	40 CFR	as approved	specified
	60.112b			includes 95% efficiency	60.113b(c)(2)		parameter
	(a)(3)(ii)			requirement			
	BAAQMD P	ERMI	T CONDIT	TIONS			
The followi	ng applies onl	y to S	146				
VOC	BAAQMD	Y		Requirement to vent	None	N	None
	Condition			working emissions to fuel			
	12131,			gas system			
				500 0 0 00011			
<u> </u>	Part 1	<u> </u>					

Table VII – BB.10

Applicable Limits and Compliance Monitoring Requirements NSPS KB FIXED ROOF TANKS WITH VAPOR PRESSURE >= 76.6 KPA (11 PSIA) WITH VAPOR RECOVERY TO FUEL GAS S446 (TANK 310), S447 (TANK 311)

Type of Limit	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
The following	ng applies onl	y to S	14 7				
VOC	BAAQMD	Y		Requirement to vent	None	N	None
	Condition			working emissions to fuel			
	12132, Part			gas system			
	1						

Table VII - BB.11

Applicable Limits and Compliance Monitoring Requirements MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS

S97 (TANK 100), S98 (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

	Emission		Future		Monitoring	Monitoring				
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring			
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type			
	BAAQMD I	Regulat	tion 8, Rule	5, Organic Compounds - ST	ORAGE OF O	RGANIC LIQ	UIDS			
	LIMITS AN	JIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS								
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD	periodic	Records			
	8-5-301			true vapor pressure	8-5-501.1	initially and				
						upon change				
						of service				
VOC	BAAQMD	Y		Floating roof fitting closure	BAAQMD	P/SA	Measurement			
	8-5-320			standards; includes gasketed	8-5-401.2		and visual			
				covers			inspection			

Table VII – BB.11

Applicable Limits and Compliance Monitoring Requirements
MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS
S97 (TANK 100), S98 (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155),
S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK
167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150
(TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

520	· ·	1001)	<u> </u>	ANK 1002), 5250 (1 AN	1	1	
	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
VOC	BAAQMD 8-5-320.3, 8-5-320.4.2,	N		Applies to list of tanks chosen by facility Floating roof fitting closure	BAAQMD 8-5-401.2 and 8-5-411	P/Q	Measurement and visual inspection
	320.4.3, 320.5.2 (gaps only), 320.5.3, 8-5-320.6			standards; includes gasketed covers			
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-321.1, 8-5-321.3.1, 8-5-321.3.2, 8-5-321.3.3, 8-5-321.4	N		Applies to list of tanks chosen by facility Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 and 8-5-411	P/Q and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Applies to list of tanks chosen by facility Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 and 8-5-411	P/Q and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322.1, 8-5-322.2, 8-5-322.3, 8-5-322.4, 8-5-322.5	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	periodic each time emptied & degassed	Portable hydrocarbon detector

Table VII - BB.11

Applicable Limits and Compliance Monitoring Requirements
MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS
S97 (TANK 100), S98 (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155),
S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK
167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150
(TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

	1				35 1/	75 11 1	,
	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
VOC		Y		Certification reports on tank	BAAQMD	periodic	Reports
				inspections and source tests	8-5-404	after each	
					8-5-405	tank	
						inspection and source	
						test	
VOC		Y		Records of tank seal	BAAQMD	periodic	Records
				replacement	8-5-501.2	after each	
						tank seal	
						replacement	
VOC		Y		Determination of	BAAQMD	P/E	look-up table
				applicability	8-5-604		or sample
							analysis
The followi	ng apply only	to S10	7 (Tank 15	0), S110 (Tank 155), S115 (Ta	ınk 160), S123 ((Tank 168), S1	28 (Tank
	(Tank 180), aı	nd S178	8 (Tank 288				
VOC	BAAQMD	Y		Pressure vacuum valve set	BAAQMD	P/SA	visual
	8-5-303.1			pressure within 10% of	8-5-403		inspection
				maximum allowable working pressure of the tank, or at			
				least 0.5 psig			
VOC	BAAQMD	N		Applies to list of tanks	BAAQMD	P/Q	visual
, 00	8-5-303.1	1,		chosen by facility	8-5-403 and	170	inspection
	0 5 505.1			Good operating condition	8-5-411		тырестоп
					8-3-411		
				only			
VOC	BAAQMD	Y		Pressure vacuum valve must	BAAQMD	P/SA	Method 21
	8-5-303.2			be gas-tight: < 500 ppm (as	8-5-403		portable
				methane) above background	8-5-503		hydrocarbon
					8-5-605		detector
VOC	BAAQMD	Y		Applies to list of tanks	BAAQMD	P/Q	Method 21
	8-5-303.2			chosen by facility	8-5-403		portable
				Gas tight requirement only	8-5-411		hydrocarbon
				, in a substitution of the	8-5-503		detector
					8-5-605		detector
II.	II		l	l	II 9-2-003		l

Table VII – BB.11

Applicable Limits and Compliance Monitoring Requirements
MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS
S97 (TANK 100), S98 (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155),
S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150

(TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298), S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)

	Emission		Future	ANK 1002), 5250 (1AN	Monitoring	Monitoring	- /					
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring					
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре					
				HAPS for Benzene Waste So		(270/21)	- J P C					
		_		PS for VOL Storage Vessels	ui ces							
	1	-		G FOR EXTERNAL FLOAT	ING ROOF TA	NKS						
	Applies to S107 only											
VOC	40 CFR 61.351 (a)(2),	Y		Deck fitting closure standards; includes gasketed covers	40 CFR 60.113b (b)(6)	periodic initially & each time	visual inspection					
	60.112b (a)(2)(ii)			COVEIS		emptied & degassed						
VOC	40 CFR 61.351 (a)(2), 60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	40 CFR 60.113b (b)(1)-(b)(3)	periodic initially & at 5 yr intervals	measurement and visual inspection					
VOC	40 CFR 61.351 (a)(2), 60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	40 CFR 60.113b (b)(1)-(b)(3)	periodic initially & annually	measurement and visual inspection					
VOC		Y		Seal inspection records for report in 60.115b(b)(2)	40 CFR 61.356(k), 60.115b(b)(3)	periodic For each gap measurement	Records					
VOC		Y		Inspection report for seal gap measurements	40 CFR 61.357(f), 60.115b(b)(2)	periodic Within 60 days of seal gap measurement	Report					

Table VII – BB.11

Applicable Limits and Compliance Monitoring Requirements MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS S97 (TANK 100), S98 (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

S25	S254 (TANK 1001), S255 (TANK 1002), S256 (TANK 1003), S259 (TANK 1006)									
	Emission		Future		Monitoring	Monitoring				
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring			
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type			
VOC		Y		Inspection report for non-	40 CFR	periodic	Report			
				compliant seals	61.357(f),	Within 30				
					60.115b(b)(4)	days of seal				
						inspection				
The followin	g apply only	to S10	7 (Tank 150	0), S110 (Tank 155), S115 (Ta	ank 160), S123 (Tank 168), S1	28 (Tank			
174), S129 (T	Гапк 180), аг	nd S178	3 (Tank 288)						
	40 CFR 63,	Subpa	rt G – SOC	MI HON						
	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries									
	LIMITS AN	ID MO	NITORING	G FOR EXTERNAL FLOAT	ING ROOF TA	NKS				

	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries											
	LIMITS AN	D МО	NITORING FOR EXTERNAL FLOAT	ING ROOF TA	NKS							
HAP	40 CFR	Y	Deck fitting closure	40 CFR	periodic	visual						
	63.646(f)		standards	63.646	initially &	inspection						
				(a) & (e)	each time							
				63.120	emptied &							
				(b)(10)	degassed							
HAP	40 CFR	Y	Primary rim-seal standards;	40 CFR	periodic	measurement						
	63.646(a)		includes gap criteria	63.646(a)	initially & at	and visual						
	63.120			63.120	5 yr intervals	inspection						
	(b)(3)&(5)			(b)(1) & (2)								
НАР	40 CFR 63.646(a) 63.120 (b)(4)&(6)	Y	Secondary rim-seal standards; includes gap criteria	40 CFR 63.646(a) 63.120 (b)(1) & (2)	periodic initially & annually	measurement and visual inspection						

Table VII – BB.11

Applicable Limits and Compliance Monitoring Requirements
MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS
S97 (TANK 100), S98 (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155),
S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK
167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150
(TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

52	T (I AIVIX .	1001)	, 0233 (1	ANK 1002), S256 (TAN	ı		.000)
	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
HAP	40 CFR	Y		Rim-seal standards, deck		P/A or	visual
	63.660 and			fitting standards, operational		<u>periodic</u>	inspection
	subpart			requirements, inspection and		each time	
	WW or			repair requirements		emptied &	
	subpart SS according					degassed, at least every	
	to the					10 years	
	provisions					10 years	
	of 63.660						
	BAAQMD I	PERMI	T CONDIT	TIONS			
VOC	BAAQMD	Y		S186: 2,231 lb/12-month	BAAQMD	P/M	Records and
	Condition			period	Condition		calculations
	22478,				22478, Part 8		
	Part 3						
throughput	BAAQMD	N		S100: 4.38 E 6 bbl/yr	BAAQMD	P/M	Records
	Condition			S107: 8.76 E 6 bbl/yr	Condition		
	20989,			S110: 1.40 E 7 bbl/yr	20989, Part A		
	Part A			S111: 1.31 E 7 bbl/yr			
				S112: 1.49 E 7 bbl/yr			
				S114: 1.31 E 7 bbl/yr			
				S115: 4.38 E 6 bbl/yr			
				S177: 2.63 E 7 bbl/yr			
				S254: 7.01 E 7 bbl/yr			
				S255: 7.01 E 7 bbl/yr			
				S256: 7.01 E 7 bbl/yr			
				S259: 7.01 E 7 bbl/yr			
throughput	BAAQMD	Y		S129: 4.6 E 6 bbl/yr	BAAQMD	P/M	records
	Condition			S150: 4.38 E 7 bbl/yr	Condition		
	20989,			S151: 4.38 E 7 bbl/yr	20989, Part A		
	Part A			S178: 3.50 E 7 bbl/yr			

Table VII – BB.11

Applicable Limits and Compliance Monitoring Requirements MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS S97 (TANK 100), S98 (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155), S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK 167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150 (TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

5254 (1ANK 1001), 5255 (1ANK 1002), 5256 (1ANK 1003), 5259 (1ANK 1006)								
	Emission		Future		Monitoring	Monitoring		
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring	
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type	
throughput	BAAQMD	Y		S97: 15.571 MMbbl crude	BAAQMD	P/M	Records and	
	Condition			oil/12-month period	8-5-501.1;		calculations	
	25477,			Crude oil only	BAAQMD			
	Part 1				Condition			
					25477,			
					Part 3			
throughput	BAAQMD	Y		S123: 3.0 E 6 bbl/yr	BAAQMD	periodic	Records	
	Condition				8-5-501.1	initially and		
	22478,					upon change		
	Part 5					of service		
throughput	BAAQMD	Y		S124: 3.0 E 6 bbl/yr	BAAQMD	periodic	Records	
	Condition				8-5-501.1	initially and		
	22478,					upon change		
	Part 6					of service		
throughput	BAAQMD	Y		S98: 3.723 E 6 bbl for	BAAQMD	periodic	Records	
	Condition			period October through	8-5-501.1	initially and		
	22963,			March		upon change		
	Part 2a					of service		
throughput	BAAQMD	Y		S98: 3.723 E 6 bbl for	BAAQMD	periodic	Records	
	Condition			period April through	8-5-501.1	initially and		
	22963,			September		upon change		
	Part 2b					of service		
throughput	BAAQMD	Y		S122: 2.0 E 6 bbl/yr	BAAQMD	periodic	Records	
	Condition				8-5-501.1	initially and		
	22963,					upon change		
	Part 2d					of service		

Table VII – BB.11

Applicable Limits and Compliance Monitoring Requirements
MACT ZERO-GAP EXTERNAL FLOATING-ROOF TANKS
S97 (TANK 100), S98 (TANK 101), S100 (TANK 103), S107 (TANK 150), S110 (TANK 155),
S111 (TANK 156), S112 (TANK 157), S114 (TANK 159), S115 (TANK 160), S122 (TANK
167), S123 (TANK 168), S124 (TANK 169), S128 (TANK 174), S129 (TANK 180), S150
(TANK 241), S151 (TANK 242), S177 (TANK 287), S178 (TANK 288), S186 (TANK 298),

520	Emission	1001)	Future	ANK 1002), 5250 (1AN	Monitoring	Monitoring	
Trunc of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Type of Limit		Y/N		Emission Limit	Citation	(P/C/N)	_
	Citation		Date				Туре
throughput	BAAQMD	Y		S128: 5.1 E 6 bbl/yr	BAAQMD	periodic	Records
	Condition				8-5-501.1	initially and	
	22963,					upon change	
	Part 2e					of service	
Vapor	BAAQMD	Y		S123: \leq 3.0 psia	BAAQMD	periodic	Records
pressure	Condition				8-5-501.1	initially and	
	22478,					upon change	
	Part 1					of service	
Vapor	BAAQMD	Y		S124: $\leq 11.0 \text{ psia}$	BAAQMD	periodic	Records
pressure	Condition				8-5-501.1	initially and	
	22478,					upon change	
	Part 2					of service	
Vapor	BAAQMD			S98: < 11 psia for period	BAAQMD	periodic	Records
pressure	Condition			October through March	8-5-501.1	initially and	
	22963,					upon change	
	Part 1a					of service	
Vapor	BAAQMD			S98: < 8.5 psia for period	BAAQMD	periodic	Records
pressure	Condition			April through September	8-5-501.1	initially and	
	22963,					upon change	
	Part 1b					of service	
Vapor	BAAQMD			S122: < 11 psia	BAAQMD	periodic	Records
pressure	Condition				8-5-501.1	initially and	
	22963,					upon change	
	Part 1d					of service	
Vapor	BAAQMD			S128: < 4.4 psia	BAAQMD	periodic	Records
pressure	Condition				8-5-501.1	initially and	
	22963,					upon change	
	Part 1e					of service	

Table VII - BB.12

Applicable Limits and Compliance Monitoring Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K - S334 (TANK 107),

NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

	NSFS KA - S341 (TANK 200), S342 (TANK 209), S343 (TANK 210)											
	Emission		Future		Monitoring	Monitoring						
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring					
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type					
	BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS											
LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS												
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD	periodic	Records					
	8-5-301			true vapor pressure	8-5-501.1	initially and						
						upon change						
						of service						
VOC	BAAQMD	Y		Floating roof fitting closure	BAAQMD	P/SA	Measurement					
	8-5-320			standards; includes gasketed	8-5-401.2		and visual					
VOC	BAAQMD	Y		covers Primary rim-seal standards;	BAAQMD	P/SA and	inspection Seal					
VOC	8-5-321	1		includes gap criteria	8-5-401.1	every time a	inspection					
	0 3 321			merades gap eriteria	0 3 401.1	seal is	mspection					
						replaced						
VOC	BAAQMD	Y		Secondary rim-seal	BAAQMD	P/SA and	Seal					
	8-5-322			standards; includes gap	8-5-401.1	every time a	inspection					
				criteria		seal is						
						replaced						
VOC	BAAQMD	Y		Concentration of < 10,000	BAAQMD	<u>periodic</u>	Portable					
	8-5-328.1.2			ppm as methane after	8-5-503	each time	hydrocarbon					
				degassing		emptied & degassed	detector					
VOC		Y		Certification reports on tank	BAAQMD	periodic	Reports					
1		1		inspections and source tests	8-5-404	after each	Reports					
				inspections and source tests	8-5-405	tank						
						inspection						
						and source						
						test						
VOC		Y		Records of tank seal	BAAQMD	<u>periodic</u>	Records					
				replacement	8-5-501.2	after each						
						tank seal						
VOC		37		D-4ii	DAAOMD	replacement	11					
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample					
				аррисанніу	0-5-004		analysis					
	11				<u> </u>		anary 515					

${\bf Table~VII-BB.12} \\ {\bf Applicable~Limits~and~Compliance~Monitoring~Requirements}$

NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K - S334 (TANK 107),

NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

	Emission		Future		Monitoring	Monitoring							
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring						
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type						
	40 CFR 60,	Subpa	rt K – NSPS	S for Petroleum Storage Vess	els (note 2)	,	, , , , , , , , , , , , , , , , , , ,						
		40 CFR 60, Subpart Ka – NSPS for Petroleum Storage Vessels (note 3)											
	40 CFR 63,	0 CFR 63, Subpart G – SOCMI HON											
	40 CFR 63,	0 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries											
	LIMITS AN	D MO	NITORING	G FOR EXTERNAL FLOAT	ING ROOF TA	NKS							
HAP	40 CFR	Y		Deck fitting closure	40 CFR	<u>periodic</u>	visual						
	63.640(n)			standards	63.640(n)(5)	initially &	inspection						
	(5)				63.646	each time							
	63.646(f)				(a) & (e)	emptied &							
					63.120	degassed							
					(b)(10)								
HAP	40 CFR	Y		Primary rim-seal standards;	40 CFR	<u>periodic</u>	measurement						
	63.640(n)			includes gap criteria	63.640(n)(5)	initially & at	and visual						
	(5)				63.646(a)	5 yr intervals	inspection						
	63.646(a)				63.120								
	63.120				(b)(1) & (2)								
	(b)(3)&(5)												
HAP	40 CFR	Y		Secondary rim-seal	40 CFR	<u>periodic</u>	measurement						
	63.640(n)			standards; includes gap	63.640(n)(5)	initially &	and visual						
	(5)			criteria	63.646(a)	annually	inspection						
	63.646(a)				63.120								
	63.120				(b)(1) & (2)								
IIAD	(b)(4)&(6)	3.7		D' 1 . 1 . 1 . 1		D/A	. 1						
HAP	40 CFR	Y		Rim-seal standards, deck		P/A or	visual						
	63.660 and			fitting standards, operational		periodic	inspection						
	subpart WW or			requirements, inspection and repair requirements		each time emptied &							
				repair requirements		degassed, at							
	subpart SS according to					least every							
	the					10 years							
	provisions					10 years							
	of 63.660												
	BAAQMD F	FDM	T CONDI	TIONS	II								
throughput	BAAQMD BAAQMD	Y	T COMPI	S343: 4.38 E 7 bbl/yr	BAAQMD	P/M	Records						
anougnput	Condition	1		3343. 4.30 E / UUI/YI	Condition	F/IVI	Records						
	20989, Part				20989, Part A								
	20989, Part A				20909, Part A								
	A												

Table VII – BB.12

Applicable Limits and Compliance Monitoring Requirements NSPS K AND NSPS KA ZERO-GAP EXTERNAL FLOATING ROOF TANKS NSPS K - S334 (TANK 107),

NSPS KA - S341 (TANK 208), S342 (TANK 209), S343 (TANK 210)

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
throughput	BAAQMD Condition 22478, Parts 4 and	Y		S334: 10 E 6 bbl/yr Crude oil or petroleum liquids below 3.0 psia	BAAQMD 8-5-501.1	periodic initially and upon change of service	Records
Throughput	BAAQMD Condition 26990 Part 1	Y		S341: 1,819,583 bbl/ consecutive 12-month period	BAAQMD Condition 26990 Part 3	P/M	Records
Throughput	BAAQMD Condition 26991 Part 1	Y		S342: 2,407,700 bbl/ consecutive 12-month period	BAAQMD Condition 26991 Part 3	P/M	Records

- 2. Tanks subject to 63 Subpart CC (MACT) and NSPS K are subject only to MACT per 63.640(n)(5). Source S334 (Tank 107) is subject to NSPS K and MACT.
- 3. Tanks subject to 63 Subpart CC (MACT) and NSPS Ka are subject only to MACT per 63.640(n)(5). Sources S341 (Tank 208), S342 (Tank 209), and S343 (Tank 210) are subject to NSPS Ka and MACT.

Table VII – BB.13a Applicable Limits and Compliance Monitoring Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S139 (Tank 204), S140 (Tank 205), S168 (Tank 269),

S182 (Tank 294)

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD F	Regulat	ion 8, Rule	5, Organic Compounds - ST	ORAGE OF O	RGANIC LIQ	UIDS
	LIMITS AN	D MO	NITORING	G FOR CVS & CONTROL D	DEVICES		
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD	periodic	records
	8-5-301			true vapor pressure	8-5-501.1	initially and	
						upon change	
						of service	

Table VII – BB.13a Applicable Limits and Compliance Monitoring Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S139 (Tank 204), S140 (Tank 205), S168 (Tank 269), S182 (Tank 294)

	II			5102 (Talik 274)			
	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
VOC	BAAQMD	Y		Pressure vacuum valve set	BAAQMD	P/SA	visual
	8-5-303.1			pressure within 10% of	8-5-403		inspection
				maximum allowable			
				working pressure of the			
				tank, or at least 0.5 psig			
VOC	BAAQMD	Y			BAAQMD	P/SA	Method 21
	8-5-303.2			be gas-tight: < 500 ppm (as	8-5-403		portable
					8-5-503		hydrocarbon
				, ,	8-5-605		detector
VOC	BAAQMD	Y		Control device standards;	BAAQMD	not specified	MOP
	8-5-306			includes 95% efficiency	8-5-603.1		Volume IV
				requirement			ST-4
VOC	BAAQMD	Y		Organic concentration in	BAAQMD	periodic	portable
	8-5-328.1.2			tank <10,000 ppm as	8-5-503	each time	hydrocarbon
	0 5 520.1.2			methane after cleaning	0 3 303	emptied &	detector
				memane arter ereaming		degassed	
VOC		Y		Determination of	BAAQMD	P/E	look-up table
, 00		1		applicability	8-5-604	172	or sample
				approuding	0.5 00 .		analysis
	BAAOMD F	l Regulat	ion 8. Rule	-8 – Organic Compounds – '	 Wastewater (Oi	l Water Separ	
VOC	BAAQMD		Y	95% collection and		N	
	8-8-302.3			destruction of VOC, by			
				weight			
40.000							
	National Em	nission	Standard f	or Benzene Waste Operation	as		
Subpart							
VOC	40 CFR	Y		Tank operates with no	40 CFR	P/A	Method 21
VOC	61.343(a)	1		detectable emissions as	61.343(a)(1)	1/A	portable
	(1)(i)(A)			indicated by annual	(i)(A)		hydrocarbon
				instrument monitoring of			detector
				<500 ppm above			
				background			

Table VII – BB.13a Applicable Limits and Compliance Monitoring Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S139 (Tank 204), S140 (Tank 205), S168 (Tank 269), S182 (Tank 294)

	Emission		Future		Monitoring	Monitoring			
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring		
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре		
VOC	40 CFR 61.343(c)	Y		Each fixed roof, seal access door, and all other openings shall be checked by visual inspection initially and quarterly thereafter	40 CFR 61.343(c)	P/Q	visual inspection		
VOC	40 CFR 61.349(a)	Y		Closed vent system operates with no detectable emissions as indicated by annual instrument monitoring of < 500 ppm above background	40 CFR 61.355(h)	P/A	Method 21 portable hydrocarbon detector		
NONE	40 CFR 63 S	ubpar	t CC – NES	SHAPS for Petroleum Refine	ries				
	Exempt per 63.640(d)(5). Emission point routed to fuel gas system.								
	BAAQMD P	ERMI	T CONDIT	TIONS					
VOC	BAAQMD	Y		Applies to S182 only		N			
	Condition			Requirement to vent					
	13184, Part			working emissions to fuel					
	1			gas system					
VOC	Condition	Y		Applies to S139	Condition	С	Pressure		
	#23724, part 4a			1.9 inches of water	#23724, part 3		monitoring		
VOC	Condition	Y		Applies to S140	Condition	С	Pressure		
	#23724, part 4a			1.9 inches of water	#23724, part 3		monitoring		
VOC	Condition	Y		Applies to S168	Condition	С	Pressure		
	#23724, part				#23724, part 3		monitoring		
	4a			1.8 inches of water					
VOC	Condition	Y		Applies to S182	Condition	С	Pressure		
	#23724, part 4a			1.8 inches of water	#23724, part 3		monitoring		

Table VII – BB.13b Applicable Limits and Compliance Monitoring Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S137 (Tank 202)

S137 (Tank 202)											
	Emission		Future		Monitoring	Monitoring					
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring				
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре				
	BAAQMD R	egulat	ion 8, Rule	5, Organic Compounds - ST	ORAGE OF O	RGANIC LIQ	UIDS				
	LIMITS AN	LIMITS AND MONITORING FOR CVS & CONTROL DEVICES									
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD	<u>periodic</u>	records				
	8-5-301			true vapor pressure	8-5-501.1	initially and					
						upon change					
VOC	DAAOMD	Y		Decagnes va avven valva act	DAAOMD	of service P/SA	visual				
VOC	BAAQMD	1		Pressure vacuum valve set	BAAQMD	P/SA					
	8-5-303.1			pressure within 10% of	8-5-403		inspection				
				maximum allowable							
				working pressure of the							
				tank, or at least 0.5 psig							
VOC	BAAQMD	Y		Pressure vacuum valve must	BAAQMD	P/SA	Method 21				
	8-5-303.2			be gas-tight: < 500 ppm (as	8-5-403		portable				
				methane) above background	8-5-503		hydrocarbon				
					8-5-605		detector				
VOC	BAAQMD	Y		Control device standards;	BAAQMD	not specified	MOP				
	8-5-306			includes 95% efficiency	8-5-603.1		Volume IV				
				requirement			ST-4				
VOC	BAAQMD	Y		Organic concentration in	BAAQMD	<u>periodic</u>	portable				
	8-5-328.1.2			tank <10,000 ppm as	8-5-503	each time	hydrocarbon				
				methane after cleaning		emptied &	detector				
						degassed					
VOC		Y		Determination of	BAAQMD	P/E	look-up table				
				applicability	8-5-604		or sample				
							analysis				
<u>NONE</u>	40 CFR 63 S	ubpar	t CC – NES	SHAPS for Petroleum Refine	ries						
	Exempt per	63.640	(d)(5). Emi	ission point routed to fuel gas	s system.						
	BAAQMD PERMIT CONDITIONS										
VOC	BAAQMD	Y		Vapor pressure < 11 psia	BAAQMD	periodic	records				
	Condition				8-5-501.1	initially and					
	22518, Part					upon change					
	2					of service					
	Condition	Y			Condition	С	Pressure				
	#23724, part			1.7 inches of water	#23724, part 3		monitoring				
	4a										

Table VII – BB.13b Applicable Limits and Compliance Monitoring Requirements MACT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S137 (Tank 202)

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Throughput	Condition	Y		10 E 6 bbl/yr	BAAQMD	periodic	Records
	22518, Part				8-5-501.1	initially and	
	3					upon change	
						of service	

Table VII – BB.14
Applicable Limits and Compliance Monitoring Requirements
MACT ZERO GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
S133 (TANK 193)

	5135 (TANK 175)									
Type of	Emission		Future		Monitoring	Monitoring				
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring			
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type			
	BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS									
	LIMITS AN	D MO	NITORING	G FOR EXTERNAL FLOAT	ING-ROOF TA	NKS				
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD & SIP 8-5-501.1	periodic initially and upon change of service	Records			
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records			
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection			
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector			

Table VII – BB.14
Applicable Limits and Compliance Monitoring Requirements
MACT ZERO GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
S133 (TANK 193)

TD 6	т		E 4	5155 (TANK 195)	36 4	35 1/ 1	
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
				OR	BAAQMD	P/Q	Method 21
					8-5-403	(optional)	portable
					8-5-403.1		hydrocarbon
					8-5-411.3		detector
					(optional)	5.4	~
				Pressure vacuum valve	BAAQMD	P/A	Source test
				sealing mechanism must be	8-5-502.1		(Not required
				vented to abatement with			if vented to
WOG	CID	37		95% efficiency	CID	D/CA	fuel gas)
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve must	SIP 8-5-403	P/SA	Method 21
	8-5-303.2			be gas-tight: < 500 ppm (as methane) above background	8-5-403 8-5-503		portable hydrocarbon
				memane) above background	8-5-605		detector
VOC	BAAQMD	N		Leaking pontoons gas tight	BAAQMD	P/Q until	Method 21
1	8-5-304.6.1	11		requirements	8-5-412	repaired	portable
	0 3 304.0.1			requirements	0 3 412	теринеа	hydrocarbon
							detector
VOC	BAAQMD	Y		Floating roof fitting closure	BAAQMD &	P/SA	Measurement
	& SIP			standards; includes gasketed	SIP		and visual
	8-5-320			covers	8-5-401.2		inspection
VOC	BAAQMD	Y		Primary rim-seal standards;	BAAQMD &	P/SA and	Seal
	& SIP			includes gap criteria	SIP	every time a	inspection
	8-5-321				8-5-401.1	seal is	
						replaced	
VOC	BAAQMD	Y		Secondary rim-seal	BAAQMD &	P/SA and	Seal
	& SIP			standards; includes gap	SIP	every time a	inspection
	8-5-322			criteria	8-5-401.1	seal is	
	-					replaced	
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21
	8-5-328.1			concentration of < 10,000	8-5-328.1	emptied &	portable
				ppm as methane after		degassed;	hydrocarbon
				degassing		4 consecutive	detector
						measurement	
						s at 15 minute	
						intervals	
VOC	SIP	Y		Concentration of < 10,000	SIP	periodic	Portable
100	8-5-328.1.2	1		ppm as methane after	8-5-503	each time	hydrocarbon
	0-3-320.1.2			degassing	0-3-303	emptied &	detector
				acgussing		degassed	detector
	II				Ī	uegasseu	

Table VII – BB.14
Applicable Limits and Compliance Monitoring Requirements
MACT ZERO GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
S133 (TANK 193)

Limit Citation Fe Effective Emission Limit Citation		ı			S133 (TANK 193)			
Citation Y/N Date Emission Limit Citation (P/C/N) Type	Type of	Emission		Future		Monitoring	Monitoring	
VOC BAAQMD Y Secondary rim-seal standards; (a)(2), (60.113b (a)(2), (60.113b (a)(2), (60.113b (b)(4)(ii)) VOC	Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
BAAQMD Regulation 8, Rule 8 - Organic Compounds - Wastewater (Oil Water Separators) VOC BAAQMD Y Vapor tight gauging and sampling devices 8-8-504 8-8-603 8-8-603 wisual inspection		Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
BAAQMD Regulation 8, Rule 8 - Organic Compounds - Wastewater (Oil Water Separators) VOC	VOC		Y		Records of tank seal	BAAQMD	periodic	records
BAAQMD Regulation 8, Rule 8 - Organic Compounds - Wastewater (Oil Water Separators) VOC					replacement	8-5-501.2	after each	
BAAQMD Regulation 8, Rule 8 - Organic Compounds - Wastewater (Oil Water Separators) VOC								
VOC BAAQMD 8-8-303							replacement	
VOC BAAQMD 8-8-303								
VOC BAAQMD 8-8-303		DA AOMD I		O Dl.	O Oussel's Common de W	/a.s.t.a.s.s.t.a.s. (O:1 V	V. 4 C	\
Sampling devices Sampling de		BAAQMD	Keguiai	non 8, Kuie	8 – Organic Compounds – W	astewater (Oil v	vater Separat	ors)
VOC BAAQMD 8-8-305.1 Y Slop oil tank vessel roof criteria; includes gap criteria BAAQMD 8-8-305.1 Simitally & semi-annually semi	VOC	BAAQMD	Y		Vapor tight gauging and	BAAQMD	N	Portable
VOC 8-8-305.1 Y Slop oil tank vessel roof criteria; includes gap criteria 8-8-305.1 periodic initially & semi-annually semi-annu		8-8-303			sampling devices	8-8-504		hydrocarbon
Search Criteria; includes gap criteria Search Sea						8-8-603		detector
40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources 40 CFR 60, Subpart Kb – NSPS for VOL Storage Vessels LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS VOC 40 CFR Y Deck fitting closure standards; includes gasketed (a)(2), (VOC	BAAQMD	Y		_	BAAQMD	periodic	
40 CFR 61 Subpart FF - NESHAPS for Benzene Waste Sources 40 CFR 60, Subpart Kb - NSPS for VOL Storage Vessels LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS VOC 40 CFR 61,351 (a)(2), 60,112b (a)(2), 60,113b (b)(4)(i) VOC 40 CFR 61,351 (a)(2), 60,113b (b)(4)(ii) VOC 50 Column 10		8-8-305.1			criteria; includes gap criteria	8-8-305.1	_	inspection
VOC								
VOC 40 CFR Y							annually	
VOC 40 CFR (a)(2), (a)(3) (b)(4)(i) VOC 40 CFR (61.351 (a)(2), (a)(2), (a)(2), (a)(2), (a)(3) (b)(4)(i) VOC 40 CFR (61.351 (a)(2), (a)(2), (a)(3) (b)(4)(i) VOC 40 CFR (61.351 (a)(2), (a)(2), (a)(3) (b)(4)(i) VOC 40 CFR (61.351 (a)(2), (a)(3), (a)(2), (a)(3), (a)(4), (a)(4) (a)(4			_			urces		
VOC 40 CFR 61.351 (a)(2), 60.112b (a)(2)(ii) Y Deck fitting closure standards; includes gasketed covers 40 CFR 60.113b (b)(6) visual inspection each time emptied & degassed VOC 40 CFR 61.351 (a)(2), 60.113b (b)(4)(i) Primary rim-seal standards; includes gap criteria 40 CFR 60.113b (b)(1)-(b)(3) periodic initially & and visual inspection VOC 40 CFR 60.113b (b)(4)(i) Y Secondary rim-seal standards; includes gap criteria 40 CFR 60.113b (b)(1)-(b)(3) measurement and visual inspection VOC 40 CFR 61.351 (a)(2), 60.113b (b)(4)(ii) Secondary rim-seal standards; includes gap criteria (b)(1)-(b)(3) measurement and visual inspection VOC Y Seal inspection records for report in 60.115b(b)(2) 40 CFR 61.356(k), 60.115b(b)(3) Periodic initially & and visual inspection VOC Y Seal inspection records for report in 60.115b(b)(2) 40 CFR 61.356(k), 60.115b(b)(3) For each gap measureme			_		=			
Secondary rim-seal standards; includes gap criteria Secondary rim-seal standards; includes gap (b)(1)-(b)(3) Secondary rim-seal standards; inclu			1	NITORING				
(a)(2), 60.112b (a)(2)(ii) VOC 40 CFR Y	VOC		Y		_		_	
VOC 40 CFR Y includes gap criteria (b)(4)(i) VOC 40 CFR Y includes gap criteria (a)(2), 60.113b (b)(4)(i) VOC 40 CFR Y Secondary rim-seal standards; (b)(1)-(b)(3) at 5 yr intervals (b)(1)-(b)(3) are surement initially & and visual inspection (b)(1)-(b)(3) and visual inspection VOC 40 CFR Y Secondary rim-seal standards; includes gap criteria VOC (b)(4)(ii) VOC Y Seal inspection records for report in 60.115b(b)(2) VOC Seal inspection records for report in 60.115b(b)(2) app measureme		II			_		_	inspection
VOC 40 CFR (3)(2)(ii) Y Primary rim-seal standards; includes gap criteria 40 CFR (60.113b) (60.113b) (10.10b)(3) periodic initially & and visual inspection measurement and visual inspection VOC 40 CFR (61.351) (a)(2), (60.113b) (b)(4)(ii) Y Secondary rim-seal standards; includes gap criteria 40 CFR (60.113b) (b)(1)-(b)(3) periodic initially & and visual inspection measurement and visual inspection VOC 40 CFR (60.113b) (b)(4)(ii) Seal inspection records for report in 60.115b(b)(2) 40 CFR (61.13b) (b)(1)-(b)(3) measurement initially & annually inspection VOC Y Seal inspection records for report in 60.115b(b)(2) 40 CFR (61.356(k), 60.115b(b)(3) For each gap measureme					covers	(b)(6)		
VOC 40 CFR Y includes gap criteria (b)(1)-(b)(3) at 5 yr intervals (b)(1)-(b)(3) are surement and visual inspection (b)(1)-(b)(3) are surement and visual inspection (c) are surement an							_	
Column C	110.0					10.000		
VOC 40 CFR Y Secondary rim-seal standards; includes gap criteria (b)(1)-(b)(3) at 5 yr intervals VOC 40 CFR Y Secondary rim-seal standards; includes gap criteria VOC (a)(2), 60.113b (b)(4)(ii) VOC Y Seal inspection records for report in 60.115b(b)(2) VOC Seal inspection records for report in 60.115b(b)(2) VOC Seal inspection records for report in 60.115b(b)(3) gap measureme	VOC		Y		<u> </u>			
VOC 40 CFR (61.351 (a)(2), (a)(2), (b)(4)(ii) VOC YOC YOC YOC YOC YOC YOC YOC YOC YOC Y					includes gap criteria		-	
VOC 40 CFR 61.351 (a)(2), 60.113b (b)(4)(ii) VOC YOC YOC YOC YOC YOC YOC YOC YOC YOC Y						(0)(1)-(0)(3)	_	mspection
VOC 40 CFR (61.351 (a)(2), (60.113b (b)(4)(ii) VOC Y Secondary rim-seal standards; includes gap criteria Secondary rim-seal standards; includes gap criteria 40 CFR (60.113b (b)(1)-(b)(3) (initially & and visual inspection WOC Y Seal inspection records for report in 60.115b(b)(2) Seal inspection records for report in 60.115b(b)(2) General Author (a)(2), (b)(1)-(b)(3) (initially & and visual inspection WOC Seal inspection records for report in 60.115b(b)(2) Seal inspection records for report in 60.115b(b)(3) (60.115b(b)(3) (70.15b(b)(3) (70.15b(b)							intervais	
Seal inspection records for report in 60.115b(b)(2) VOC Y Seal inspection records for report in 60.115b(b)(2) Y Seal inspection records for report in 60.115b(b)(2) O(D,115b(b)(3) Seal inspection records for report in 60.115b(b)(3) For each gap measureme Records	VOC		V		Sagandami rim saal	40 CED 60 112b	noriodio	manguramant
VOC VOC Y Seal inspection records for report in 60.115b(b)(2) Y Seal inspection records for report in 60.115b(b)(2) October 13b For each 60.115b(b)(3) gap measureme Records	VOC		I		_		_	
VOC VOC Seal inspection records for report in 60.115b(b)(2) For each 60.115b(b)(3) gap measureme Records					_ ~	(0)(1)-(0)(3)	_	
VOC Y Seal inspection records for report in 60.115b(b)(2) G1.356(k), For each 60.115b(b)(3) gap measureme					Criteria		aimaany	mspection
VOC Y Seal inspection records for report in 60.115b(b)(2) 40 CFR periodic 61.356(k), For each 60.115b(b)(3) gap measureme								
report in 60.115b(b)(2) 61.356(k), For each gap measureme	VOC	(0)(7)(11)	Y		Seal inspection records for	40 CFR	periodic	Records
60.115b(b)(3) gap measureme	1		1		_			Records
measureme					15port in 00.1130(0)(2)			
							nt	

Table VII – BB.14
Applicable Limits and Compliance Monitoring Requirements
MACT ZERO GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK
S133 (TANK 193)

Type of	Emission		Future	5133 (TANK 193)	Monitoring	Monitoring	
		1212			_		3.5
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
VOC		Y		Inspection report for seal	40 CFR	<u>periodic</u>	Report
				gap measurements	61.357(f),	Within 60	
					60.115b(b)(2)	days of seal	
						gap	
						measureme	
VOC		Y		T	40 CFR	nt · · ·	D 4
VOC		ĭ		Inspection report for non- compliant seals		periodic	Report
				compitant sears	61.357(f), 60.115b(b)(4)	Within 30 days of seal	
					00.1130(0)(4)	inspection	
	40 CED (2.4	7	4.C. CO.C.	MI HON		mspection	
	40 CFR 63, S	-					
				SHAPS for Petroleum Refine G FOR EXTERNAL FLOAT		NIZC	
HAP	40 CFR	Y MO	MITORING	Deck fitting closure	40 CFR	periodic	visual
IIAI	63.646(f)	1		standards	63.646	initially &	inspection
	03.040(1)			standards	(a) & (e)	each time	mspection
					63.120	emptied &	
					(b)(10)	degassed	
HAP	40 CFR	Y		Primary rim-seal standards;	40 CFR	periodic	measurement
	63.646(a)			includes gap criteria	63.646(a)	initially &	and visual
	63.120				63.120	at 5 yr	inspection
	(b)(3)&(5)				(b)(1) & (2)	intervals	_
HAP	40 CFR	Y		Secondary rim-seal	40 CFR	periodic	measurement
	63.646(a)			standards; includes gap	63.646(a)	initially &	and visual
	63.120			criteria	63.120	annually	inspection
	(b)(4)&(6)				(b)(1) & (2)		
HAP	40 CFR	Y		Rim-seal standards, deck		P/A or	visual
	63.660 and			fitting standards, operational		<u>periodic</u>	inspection
	subpart			requirements, inspection and		each time	
	WW or			repair requirements		emptied &	
	subpart SS					degassed,	
	according to					at least	
	the provisions					every 10	
	of 63.660					years	
	BAAQMD P	FRMI	T CONDIT	TONS	<u> </u>		
	DAAQNID P	INIVITI	II CONDII	ITOINS			
L	II						

Table VII – BB.14 Applicable Limits and Compliance Monitoring Requirements MACT ZERO GAP EXTERNAL FLOATING ROOF WASTEWATER SLOP OIL TANK S133 (TANK 193)

				D133 (171111 173)			
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
throughput	BAAQMD	Y		8.76 E 5 bbl/yr	BAAQMD	P/M	Records
	Condition				Condition 20989	,	
	20989, Part				Part A		
	A						

Table VII – BB.15 Applicable Limits and Compliance Monitoring Requirements NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS S340 (TANK 108)

	I			5540 (TANK 100)								
Type of	Emission		Future		Monitoring	Monitoring						
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring					
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type					
	BAAQMD I	Regulat	tion 8, Rule	5, Organic Compounds - ST	ORAGE OF O	RGANIC LIQ	UIDS					
	LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS											
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD &	<u>periodic</u>	Records					
	8-5-301			true vapor pressure	SIP	initially and						
					8-5-501.1	upon change						
						of service						
VOC	BAAQMD	N		Leaking pontoons gas tight	BAAQMD	P/Q until	Method 21					
	8-5-304.6.1			requirements	8-5-412	repaired	portable					
							hydrocarbon					
MOC	DAAOME	37		Elastina and 6 ° · · · 1	DAACMD 0	D/C A	detector					
VOC	BAAQMD & SIP	Y		Floating roof fitting closure standards; includes gasketed	BAAQMD & SIP	P/SA	Measurement					
	8-5-320			covers	8-5-401.2		and visual inspection					
VOC	BAAQMD	Y		Primary rim-seal standards;	8-3-401.2 BAAQMD &	P/SA and	Seal					
VOC	& SIP	1		includes gap criteria	SIP	every time a	inspection					
	8-5-321			merades gap eriteria	8-5-401.1	seal is	mspection					
						replaced						
VOC	BAAQMD	Y		Secondary rim-seal	BAAQMD &	P/SA and	Seal					
	& SIP			standards; includes gap	SIP	every time a	inspection					
	8-5-322			criteria	8-5-401.1	seal is						
						replaced						
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21					
	8-5-328.1			concentration of < 10,000	8-5-328.1	emptied &	portable					
				ppm as methane after		degassed;	hydrocarbon					
				degassing		4 consecutive	detector					
						measurement						
						s at 15 minute						
						intervals						
VOC	SIP	Y		Concentration of < 10,000	SIP	periodic	Portable					
, 50	8-5-328.1.2	•		ppm as methane after	8-5-503	each time	hydrocarbon					
	0 0 0 2011.2			degassing	0 0 000	emptied &	detector					
						degassed						
VOC		Y		Records of tank seal	BAAQMD	periodic	records					
				replacement	8-5-501.2	after each						
						tank seal						
						replacement						

Table VII – BB.15 Applicable Limits and Compliance Monitoring Requirements NSPS KA EXTERNAL FLOATING ROOF TANK W/O ZERO-GAP SEALS S340 (TANK 108)

				5540 (TANK 106)								
Type of	Emission		Future		Monitoring	Monitoring						
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring					
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type					
	40 CFR 60 S	ubpar	t Ka – NSP	S for Petroleum Storage Ves	sels (Note 2)							
	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries											
	40 CFR 63 Subpart G – SOCMI HON											
	LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS											
HAP	40 CFR	Y		Deck fitting closure	40 CFR	periodic	visual					
	63.640(n)(5)			standards	63.640(n)(5)	initially &	inspection					
	63.646(f)				63.646	each time						
					(a) & (e)	emptied &						
					63.120	degassed						
					(b)(10)							
HAP	40 CFR	Y		Primary rim-seal standards;	40 CFR	<u>periodic</u>	measurement					
	63.640(n)(5)			includes gap criteria	63.640(n)(5)	initially & at	and visual					
	63.646(a)				63.646(a)	5 yr intervals	inspection					
	63.120				63.120							
	(b)(3)&(5)				(b)(1) & (2)							
HAP	40 CFR	Y		Secondary rim-seal	40 CFR	periodic	measurement					
	63.640(n)(5)			standards; includes gap	63.640(n)(5)	initially &	and visual					
	63.646(a)			criteria	63.646(a)	annually	inspection					
	63.120				63.120							
HAP	(b)(4)&(6) 40 CFR	Y		Rim-seal standards, deck	(b)(1) & (2)	P/A or	visual					
ПАГ	63.660 and	1		fitting standards, operational		periodic	inspection					
	subpart WW			requirements, inspection and		each time	mspection					
	or subpart SS			repair requirements		emptied &						
	according to			ropun roquiromen		degassed, at						
	the					least every						
	provisions of					10 years						
	63.660											
	BAAQMD P	ERM	IT CONDI	ΓΙΟΝS								
throughput	BAAQMD	Y		10 E 6 bbl/yr	BAAQMD	P/M	Records					
	Condition				Condition							
	25223, Part 1				25223, Part 4							
VOC	BAAQMD	Y		Vapor pressure < 3.0 psia	BAAQMD	periodic	records					
	Condition			•	8-5-501.1	initially and						
	25223, Part 2					upon change						
	23223, Fait 2					1						
						of service						

^{2.} Tanks subject to 63 Subpart CC (MACT) and NSPS Ka are subject only to MACT per 63.640(n)(5). Source S340 (Tank 108) is subject to NSPS Ka and MACT.

Table VII – BB.16 Applicable Limits and Compliance Monitoring Requirements MACT EXTERNAL FLOATING-ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

T 61	ъ			5201 (TANK 1010)	3.5 1/	3.5 1/						
Type of Limit	Emission		Future		Monitoring	Monitoring						
	Limit	FE	Effective		Requirement	Frequency	Monitoring					
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type					
	BAAQMD	Regula	tion 8, Ru	e 5, Organic Compounds -	STORAGE O	F ORGANIC	LIQUIDS					
	LIMITS AN	LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS										
VOC	BAAQMD	Y		Record of liquids stored	BAAQMD &	periodic	Records					
	8-5-301			and true vapor pressure	SIP	initially and						
					8-5-501.1	upon change						
						of service						
VOC	BAAQMD	N		Leaking pontoons gas tight	BAAQMD	P/Q until	Method 21					
	8-5-304.6.1			requirements	8-5-412	repaired	portable					
							hydrocarbon					
VOC	DAAOMD	Y		El-+i £ £44:	DAAOMD 6	P/SA	detector					
VOC	BAAQMD & SIP	ĭ		Floating roof fitting closure standards; includes	BAAQMD & SIP	P/SA	Measurement and visual					
	8-5-320			gasketed covers	8-5-401.2		inspection					
VOC	BAAQMD	Y		Primary rim-seal	BAAQMD &	P/SA and	Seal					
100	& SIP	1		standards; includes gap	SIP	every time a	inspection					
	8-5-321			criteria	8-5-401.1	seal is	mspection					
						replaced						
VOC	BAAQMD	Y		Secondary rim-seal	BAAQMD &	P/SA and	Seal					
	& SIP			standards; includes gap	SIP	every time a	inspection					
	8-5-322			criteria	8-5-401.1	seal is						
						replaced						
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21					
	8-5-328.1			concentration of < 10,000	8-5-328.1	emptied &	portable					
				ppm as methane after		degassed;	hydrocarbon					
				degassing		4	detector					
						consecutive						
						measuremen ts at 15						
						minute						
						intervals						
VOC	SIP 8-5-	Y		Concentration of < 10,000	SIP	periodic	Portable					
	328.1.2			ppm as methane after	8-5-503	each time	hydrocarbon					
				degassing		emptied &	detector					
				-		degassed						
VOC		Y		Records of tank seal	BAAQMD	<u>periodic</u>	records					
				replacement	8-5-501.2	after each						
						tank seal						
						replacement						

Table VII – BB.16 Applicable Limits and Compliance Monitoring Requirements MACT EXTERNAL FLOATING-ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

Type of Limit	Emiggion		Entuno		Monitoring	Manitonina	
Type of Limit	Emission		Future		_	Monitoring	
	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
The following ap	ply only to S	113 (T	ank 158), S	S125 (Tank 170)			
VOC	BAAQMD	Y		Pressure vacuum valve set	BAAQMD	P/SA	visual
	8-5-303.1			pressure within 10% of	8-5-403		inspection
				maximum allowable			
				working pressure of the			
				tank, or at least 0.5 psig			
VOC	BAAQMD	Y		Pressure vacuum valve	BAAQMD	P/SA	Method 21
	8-5-303.2			must be gas-tight: < 500	8-5-403		portable
				ppm (as methane) above	8-5-503		hydrocarbon
				background	8-5-605		detector
The following ap	ply only to S	113 (T	ank 158),	S125 (Tank 170)			
	40 CFR 63	Subpa	rt G – SOC	CMI HON			
	II	-		ESHAPS for Petroleum Ref	fineries		
				NG FOR EXTERNAL FLO		F TANKS	
HAP	40 CFR	Y		Deck fitting closure	40 CFR	periodic	visual
	63.646(f)			standards	63.646	initially &	inspection
					(a) & (e)	each time	-
					63.120	emptied &	
					(b)(10)	degassed	
HAP	40 CFR	Y		Primary rim-seal	40 CFR	periodic	measurement
	63.646(a)			standards; includes gap	63.646(a)	initially & at	and visual
	63.120			criteria	63.120	5 yr	inspection
	(b)(3)&(5)				(b)(1) & (2)	intervals	
HAP	40 CFR	Y		Secondary rim-seal	40 CFR	periodic	measurement
	63.646(a)			standards; includes gap	63.646(a)	initially &	and visual
	63.120			criteria	63.120	annually	inspection
	(b)(4)&(6)				(b)(1) & (2)		
HAP	40 CFR	Y		Rim-seal standards, deck		P/A or	visual
	63.660 and			fitting standards,		<u>periodic</u>	inspection
	subpart			operational requirements,		each time	
	WW or			inspection and repair		emptied &	
	subpart SS			requirements		degassed, at	
	according					least every	
	to the					10 years	
	provisions						
	of 63.660						

Table VII – BB.16 Applicable Limits and Compliance Monitoring Requirements MACT EXTERNAL FLOATING-ROOF TANKS W/O ZERO-GAP SEALS S113 (TANK 158), S125 (TANK 170), S183 (TANK 295), S184 (TANK 296), S261 (TANK 1010)

TD 61. 14	Б			5201 (TANK 1010)	3.5 14 1	3.5 1/	
Type of Limit	Emission		Future		Monitoring	Monitoring	
	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD	PERM	IIT COND	ITIONS			
throughput	BAAQMD	N		S113: 1.49 E 7 bbl/yr	BAAQMD	P/M	Records
	Condition			S125: 1.05 E 7 bbl/yr	Condition		
	20989,				20989, Part A		
	Part A						
throughput	BAAQMD	Y		S183: 4.38 E 5 bbl/yr	BAAQMD	P/M	records
	Condition			S184: 4.38 E 6 bbl/yr	Condition		
	20989,				20989, Part A		
	Part A						
throughput	BAAQMD	Y		S261: 5.476 E 6 bbl/yr	BAAQMD	P/M	Records
	Condition			Gas oil, naphtha, or	Condition		
	25478,			distillate only	25478, part 3		
	Part 1						

Table VII – BB.17 Applicable Limits and Compliance Monitoring Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695)

		_	Emission Limit 5, Organic Compounds - ST G FOR EXTERNAL FLOAT			Monitoring Type UIDS
VOC	BAAQMD 8-5-301	Y	Record of liquids stored and true vapor pressure	BAAQMD & SIP 8-5-501.1	periodic initially and upon change of service	Records

Table VII – BB.17 Applicable Limits and Compliance Monitoring Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK S216 (TANK 695)

Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
Lillit				T	=		Ü
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
VOC	BAAQMD	N		Leaking pontoons gas tight	BAAQMD	P/Q until	Method 21
	8-5-304.6.1			requirements	8-5-412	repaired	portable
							hydrocarbon
							detector
VOC	BAAQMD	Y		Floating roof fitting closure	BAAQMD &	P/SA	Measurement
	&			standards; includes gasketed	SIP		and visual
	SIP 8-5-320			covers	8-5-401.2		inspection
VOC	BAAQMD	Y		Primary rim-seal standards;	BAAQMD &	P/SA and	Seal
	&			includes gap criteria	SIP	every time a	inspection
	SIP 8-5-321				8-5-401.1	seal is	
						replaced	
VOC	BAAQMD	Y		Secondary rim-seal	BAAQMD &	P/SA and	Seal
	& GID 0. 7. 222			standards; includes gap	SIP	every time a	inspection
	SIP 8-5-322			criteria	8-5-401.1	seal is	
TIO C	D 1 1 01 fD	3.7		5 . 1	B 4 4 6 1 4 B	replaced	36.4.101
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21
	8-5-328.1			concentration of < 10,000	8-5-328.1	emptied &	portable
				ppm as methane after		degassed; 4 consecutive	hydrocarbon detector
				degassing			detector
						measurement s at 15	
						minute	
						intervals	
VOC	SIP	Y		Concentration of < 10,000	SIP	periodic	Portable
VOC	8-5-328.1.2	1		ppm as methane after	8-5-503	each time	hydrocarbon
	0-3-320.1.2			degassing	0-3-303	emptied &	detector
				uegassing		degassed	detector
VOC		Y		Records of tank seal	BAAQMD	periodic	records
100		1		replacement	8-5-501.2	after each	records
				replacement	0 3 301.2	tank seal	
						replacement	
						теришением	
	40 CFR 63,	Subse	rt C _ SOC	MI HON	ĬI	I	
	1	-			·wiaa		
		-		SHAPS for Petroleum Refine G FOR EXTERNAL FLOAT		ANKS	
HAP	40 CFR	Y		Deck fitting closure	40 CFR	periodic	visual
	63.646(f)			standards	63.646	initially &	inspection
					(a) & (e)	each time	_ ^
					63.120	emptied &	
					(b)(10)	degassed	

Table VII – BB.17 Applicable Limits and Compliance Monitoring Requirements RIVETED MACT EXTERNAL FLOATING ROOF TANK \$216 (TANK 695)

				5210 (TANK 095)			
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
HAP	40 CFR	Y		Primary rim-seal standards;	40 CFR	<u>periodic</u>	measurement
	63.646(a)			includes gap criteria	63.646(a)	initially & at	and visual
	63.120				63.120	5 yr intervals	inspection
	(b)(3)&(5)				(b)(1) & (2)		
HAP	40 CFR	Y		Secondary rim-seal	40 CFR	<u>periodic</u>	measurement
	63.646(a)			standards; includes gap	63.646(a)	initially &	and visual
	63.120			criteria	63.120	annually	inspection
	(b)(4)&(6)				(b)(1) & (2)		
HAP	40 CFR	Y		Rim-seal standards, deck		P/A or	visual
	63.660 and			fitting standards, operational		<u>periodic</u>	inspection
	subpart			requirements, inspection and		each time	
	WW or			repair requirements		emptied &	
	subpart SS					degassed, at	
	according					least every	
	to the					10 years	
	provisions						
	of 63.660						
	BAAQMD I	PERMI	T CONDIT	TIONS			
throughput	BAAQMD	N		4.6 E 6 bbl/yr	BAAQMD	P/M	Records
<i>5</i> 1	Condition				Condition		
	20989,				20989, Part A		
	Part A						

Table VII – BB.18 Applicable Limits and Compliance Monitoring Requirements MACT EXTERNAL FLOATING-ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS S134 (TANK 194)

Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
22	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
				5, Organic Compounds - ST			
		_		_ · _ =			UIDS
MOG	1		NITORING	FOR EXTERNAL FLOAT		1	Records
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	periodic initially and	Records
	8-3-301			true vapor pressure	8-3-301.1	upon change	
						of service	
VOC	BAAQMD	N		Pressure vacuum valve set	BAAQMD	P/initial	Records
, 55	8-5-303.1	- 1		to 90% of tank's maximum	8-5-501.4	171111111	11000100
				allowable working pressure			
				or at least 0.5 psig			
VOC	BAAQMD	N		Pressure vacuum valve	BAAQMD	P/SA	Method 21
	8-5-303.2			sealing mechanism must be	8-5-403		portable
				gas-tight: < 500 ppm	8-5-403.1		hydrocarbon
							detector
				OR	DAAOMD	P/Q	Method 21
				UK	BAAQMD 8-5-403	(optional)	portable
					8-5-403.1	(optional)	hydrocarbon
					8-5-411.3		detector
					(optional)		detector
				Pressure vacuum valve	BAAQMD	P/A	Source test
				sealing mechanism must be	8-5-502.1		(Not required
				vented to abatement with			if vented to
				95% efficiency			fuel gas)
VOC	SIP	Y		Pressure vacuum valve set	SIP	P/SA	visual
	8-5-303.1			pressure within 10% of	8-5-403		inspection
				maximum allowable			
				working pressure of the			
VOC	CID	37		tank, or at least 0.5 psig	CID	D/C A	M-41-101
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as	SIP 8-5-403	P/SA	Method 21 portable
	0-3-303.2			methane) above background	8-5-503		hydrocarbon
				mentane) above background	8-5-605		detector
VOC	BAAQMD	N		Leaking pontoons gas tight	BAAQMD	P/Q until	Method 21
	8-5-304.6.1			requirements	8-5-412	repaired	portable
							hydrocarbon
							detector

Table VII – BB.18 Applicable Limits and Compliance Monitoring Requirements MACT EXTERNAL FLOATING-ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS S134 (TANK 194)

Type of	Emission		Future	, , ,	Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit				T	_		_
MOG	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
VOC	BAAQMD	Y		Floating roof fitting closure	BAAQMD &	P/SA	Measurement
	& SIP			standards; includes gasketed			and visual
110.0	8-5-320			covers	8-5-401.2		inspection
VOC	BAAQMD	Y		Primary rim-seal standards;	BAAQMD &	P/SA and	Seal
	& SIP			includes gap criteria	SIP	every time a	inspection
	8-5-321				8-5-401.1	seal is	
						replaced	
VOC	BAAQMD	Y		Secondary rim-seal	BAAQMD &	P/SA and	Seal
	& SIP			standards; includes gap	SIP	every time a	inspection
	8-5-322			criteria	8-5-401.1	seal is	
						replaced	
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21
	8-5-328.1			concentration of < 10,000	8-5-328.1	emptied &	portable
				ppm as methane after		degassed;	hydrocarbon
				degassing		4 consecutive	detector
						measurement	
						s at 15	
						minute	
						intervals	
VOC	SIP	Y		Concentration of < 10,000	SIP	<u>periodic</u>	Portable
	8-5-328.1.2			ppm as methane after	8-5-503	each time	hydrocarbon
				degassing		emptied &	detector
						degassed	
VOC		Y		Records of tank seal	BAAQMD	<u>periodic</u>	records
				replacement	8-5-501.2	after each	
						tank seal	
						replacement	
	BAAQMD F	Regulat	tion 8, Rule	8 – Organic Compounds – V	Wastewater (Oil	Water Separa	ntors)
VOC	BAAQMD	Y		Vapor tight gauging and	BAAQMD	N	Portable
	8-8-303			sampling devices	8-8-504		hydrocarbon
					8-8-603		detector
VOC	BAAQMD	Y		Slop oil tank vessel roof	BAAQMD	periodic	visual
	8-8-305.1			criteria; includes gap criteria		initially &	inspection
	0-0-303.1			gap criteria		semi-	mspootion
						annually	
	1		l .			unnuany	

Table VII – BB.18 Applicable Limits and Compliance Monitoring Requirements MACT EXTERNAL FLOATING-ROOF WASTEWATER SLOP OIL TANK W/O ZERO-GAP SEALS S134 (TANK 194)

Type of	Emission		Future	5154 (TAIK 174)	Monitoring	Monitoring							
Limit	Limit	FE	Effective		Requirement	_	Manitanina						
Lillit					-	Frequency	Monitoring 						
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type						
	40 CFR 63,	-											
	40 CFR 63, Subpart CC – NESHAPS for Petroleum Refineries												
	LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS												
HAD	40 CED	37		D 1 CW: 1	40 CED	. 1.	• 1						
HAP	40 CFR	Y		Deck fitting closure standards	40 CFR 63.646	periodic	visual						
	63.646(f)			standards		initially &	inspection						
					(a) & (e)	each time							
					63.120	emptied &							
	10 000				(b)(10)	degassed							
HAP	40 CFR	Y		Primary rim-seal standards;	40 CFR	<u>periodic</u>	measurement						
	63.646(a)			includes gap criteria	63.646(a)	initially & at	and visual						
	63.120				63.120	5 yr intervals	inspection						
	(b)(3)&(5)				(b)(1) & (2)								
HAP	40 CFR	Y		Secondary rim-seal	40 CFR	<u>periodic</u>	measurement						
	63.646(a)			standards; includes gap	63.646(a)	initially &	and visual						
	63.120			criteria	63.120	annually	inspection						
	(b)(4)&(6)				(b)(1) & (2)								
HAP	40 CFR	Y		Rim-seal standards, deck		P/A or	visual						
	63.660 and			fitting standards, operational		<u>periodic</u>	inspection						
	subpart			requirements, inspection and		each time							
	WW or			repair requirements		emptied &							
	subpart SS					degassed, at							
	according					least every 10							
	to the					years							
	provisions												
	of 63.660												
	BAAQMD I	PERMI	T CONDIT	TIONS									
throughput	BAAQMD	N		1.31 E 7 bbl/yr	BAAQMD	P/M	records						
	Condition				Condition								
	20989, Part				20989, Part A								
	A												

Table VII - BB.19

Applicable Limits and Compliance Monitoring Requirements
EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING
S94 (TANK 78), S98 (TANK 101), S99 (TANK 102), S103 (TANK 106), S136 (TANK 201),
S138 (TANK 203), S169 (TANK 270), S179 (TANK 291), S180 (TANK 292), S191 (TANK 303), S192 (TANK 304), S204 (TANK 528), S205 (TANK 529), S209 (TANK 674), S260
(TANK 1009), S262 (TANK 1011), S263 (TANK 1012), S286 (F3), S287 (F10), S293 (F805)

Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD F	Regulat	tion 8, Rule	5 - Organic Compounds - S	TORAGE OF C	ORGANIC LIC	QUIDS
	Exempt per	8-5-11	7. Low vap	or pressure			
POC	BAAQMD	Y		Exemption from Regulation 8-5	BAAQMD	P/E	Vapor pressure
	8-5-117 &			when true vapor pressure is less	2-6-409.2 &		determination
	Condition			than 25.8 mm Hg (0.5 psia).	Condition		upon material
	20773, Part 1				20773, Part 2		change
	40 CFR 63,	Subpar	rt CC – NE	SHAP for Petroleum Refiner	ries		
	MONITOR	NG F	OR RECOI	RDKEEPING ONLY			
HAP	40 CFR	Y		Retain weight percent total	40 CFR	<u>periodic</u>	Records
	63.641			organic HAP in stored liquid	63.655(i)(1)(i	initially and	
				for Group 2 determination.	v) and	upon change	
				Keep records of vessel	63.655(i)(1)	in service	
				dimensions, capacity, and	(vi)		
				identification of liquid			
				stored.			

Table VII – BB.20 Applicable Limits and Compliance Monitoring Requirements EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS S175 (TANK 284)

Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD F	Regulat	tion 8, Rule	5 - Organic Compounds - S	TORAGE OF C	ORGANIC LIC	QUIDS
	Exempt per	8-5-11	7. Low vap	or pressure			
POC	BAAQMD	Y		Exemption from Regulation 8-5	BAAQMD	P/E	Vapor pressure
	8-5-117 &			when true vapor pressure is less	2-6-409.2 &		determination
	Condition			than 25.8 mm Hg (0.5 psia).	Condition		upon material
	20773, Part 1				20773, Part 2		change
NONE	40 CFR 63 S	ubpar	t CC – NES	SHAPS for Petroleum Refine	eries		
			Exempt per	63.640(d)(5). Emission point	routed to fuel g	as system.	
	BAAQMD P	PERMI	T CONDIT	TIONS			
					η		
	Condition	Y			Condition	C	Pressure
	#23724, part				#23724, part 3		monitoring
	4b			1.3 inches of water			

Table VII - BB.21A

Applicable Limits and Compliance Monitoring Requirements

EXEMPT EXTERNAL FLOATING ROOF TANKS
SUBJECT TO MACT RECORDKEEPING +
BUT WITH GROUP I MACT FLEXIBILITY

S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Type of Limit	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring			
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type			
	BAAQMD Regulation 8, Rule 5 - Organic Compounds - STORAGE OF ORGANIC LIQUIDS									
	Exempt per	8-5-11	7. Low vap	or pressure						
POC	BAAQMD	Y		Exemption from Regulation 8-5	BAAQMD	P/E	Vapor pressure			
	8-5-117 &			when true vapor pressure is less	2-6-409.2 &		determination			
	Condition			than 25.8 mm Hg (0.5 psia).	Condition		upon material			
	20773, Part 1				20773, Part 2		change			

⁺ Sources S108, S109, and S127 currently contain low vapor pressure liquids, are exempt from BAAQMD

Table VII – BB.21A Applicable Limits and Compliance Monitoring Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING + BUT WITH GROUP I MACT FLEXIBILITY

S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Type of	Emission		Future		Monitoring	Monitoring					
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring				
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type				
	BAAQMD I	Regulat	tion 8, Rule	5 - Organic Compounds - ST	TORAGE OF C	RGANIC LIC	QUIDS				
	Exempt per	8-5-11	7. Low vap	or pressure							
	40 CFR 63,	40 CFR 63, Subpart CC – NESHAP for Petroleum Refineries									
	MONITOR	ING F	OR RECOR	RDKEEPING ONLY							
HAP	40 CFR	Y		Retain weight percent total	40 CFR	<u>periodic</u>	Records				
	63.641			organic HAP in stored liquid	63.655(i)(1)	initially and					
				for Group 2 determination.	(iv) and	upon change					
				Keep records of vessel	63.655(i)(1)	in service					
				dimensions, capacity, and	(vi)						
				identification of liquid							
				stored.							

Table VII – BB.21B Applicable Limits and Compliance Monitoring Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING + BUT WITH GROUP I MACT FLEXIBILITY S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Type of Limit	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring			
Lillit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	_			
				13.10 2		(Type			
	BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING-ROOF TANKS									

permitting requirements, and fall under the MACT Group II requirements for recordkeeping. However, these tanks may be operated as MACT Group I tanks in the future. Table B21A shows the appropriate applicability for these tanks as MACT Group II tanks. Table B21B shows the appropriate applicability for these tanks as MACT Group I tanks including the BAAQMD Regulation 8, Rule 5 requirements for zero-gap secondary seals.

⁺ Sources S108, S109, and S127 currently contain low vapor pressure liquids, are exempt from BAAQMD permitting requirements, and fall under the MACT Group II requirements for recordkeeping. However, these tanks

Table VII – BB.21B Applicable Limits and Compliance Monitoring Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING + BUT WITH GROUP I MACT FLEXIBILITY

S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

Type of	Emission		Future	, , , , , , , , , , , , , , , , , , , ,	Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD & SIP 8-5-501.1	periodic initially and upon change of service	Records
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD & SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD & SIP 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD & SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD & SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD & SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD & SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurement s at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	periodic each time emptied & degassed	Portable hydrocarbon detector

may be operated as MACT Group I tanks in the future. Table B21A shows the appropriate applicability for these tanks as MACT Group II tanks. Table B21B shows the appropriate applicability for these tanks as MACT Group I tanks including the BAAQMD Regulation 8, Rule 5 requirements for zero-gap secondary seals.

Table VII – BB.21B Applicable Limits and Compliance Monitoring Requirements EXEMPT EXTERNAL FLOATING ROOF TANKS SUBJECT TO MACT RECORDKEEPING + BUT WITH GROUP I MACT FLEXIBILITY

S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)

	S108 (TANK 153), S109 (TANK 154), S127 (TANK 173)										
Type of	Emission		Future		Monitoring	Monitoring					
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring				
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре				
VOC		Y		Records of tank seal	BAAQMD	periodic	Records				
, , ,		-		replacement	8-5-501.2	after each	11000100				
				1		tank seal					
						replacement					
						•					
	40 CFR 63 S	Subpar	t G – SOCN	MI HON							
	40 CFR 63 S	Subpar	t CC – NES	SHAPS for Petroleum Refine	ries						
				G FOR EXTERNAL FLOAT		NKS					
HAP	40 CFR	Y		Deck fitting closure	40 CFR	periodic	visual				
	63.646(f)			standards	63.646	initially &	inspection				
					(a) & (e)	each time					
					63.120	emptied &					
					(b)(10)	degassed					
HAP	40 CFR	Y		Primary rim-seal standards;	40 CFR	<u>periodic</u>	measurement				
	63.646(a)			includes gap criteria	63.646(a)	initially & at	and visual				
	63.120				63.120	5 yr intervals	inspection				
	(b)(3)&(5)				(b)(1) & (2)						
HAP	40 CFR	Y		Secondary rim-seal	40 CFR	<u>periodic</u>	measurement				
	63.646(a)			standards; includes gap	63.646(a)	initially &	and visual				
	63.120			criteria	63.120	annually	inspection				
	(b)(4)&(6)				(b)(1) & (2)						
HAP	40 CFR	Y		Rim-seal standards, deck		P/A or	visual				
	63.660 and			fitting standards, operational		<u>periodic</u>	inspection				
	subpart			requirements, inspection and		each time					
	WW or			repair requirements		emptied &					
	subpart SS according					degassed, at least every					
	to the					10 years					
	provisions					10 years					
	of 63.660										
	01 03.000										

Table VII – BB.22 Applicable Limits and Compliance Monitoring Requirements NSPS K EXEMPT TANKS SUBJECT TO MACT RECORDKEEPING S90 (TANK 67), S105 (TANK 129)

				1 m (0 /), 5102 (1 m ()			
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD R	egulat	ion 8, Rule	5 - Organic Compounds - ST	TORAGE OF C	ORGANIC LIC	QUIDS
	Exempt per 8	-5-11	7. Low vap	or pressure			
POC	BAAQMD	Y		Exemption from Regulation 8-5	BAAQMD	P/E	Vapor pressure
	8-5-117 &			when true vapor pressure is less	2-6-409.2 &		determination
	Condition			than 25.8 mm Hg (0.5 psia).	Condition		upon material
	20773, Part 1				20773, Part 2		change
	40 CFR 60, S	ubpaı	t K – NSPS	S for Petroleum Storage Vess	els 1		
	40 CFR 63, S	ubpaı	t CC – NE	SHAP for Petroleum Refiner	ries		
	MONITORIN	NG FO	OR RECOI	RDKEEPING ONLY			
HAP	63.640(n)(7)	Y		Retain weight percent total	63.655(i)(1)	<u>periodic</u>	Records
	63.641			organic HAP in stored liquid	(iv) and	initially and	
				for Group 2 determination.	63.655(i)(1)	upon change	
				Keep records of vessel	(vi)	in service	
				dimensions, capacity, and			
				identification of liquid			
				stored.			

Table VII – BB.23 Applicable Limits and Compliance Monitoring Requirements EXEMPT BUTANE SPHERES

S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

Type of	Emission		Future		Monitoring	Monitoring				
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring			
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type			
	BAAQMD Regulation 8, Rule 5, Organic Compounds - STORAGE OF ORGANIC LIQUIDS									
	LIMITS AN	D MO	NITORING	G FOR PRESSURE TANKS						
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD &	<u>periodic</u>	records			
	8-5-301			true vapor pressure	SIP	initially and				
					8-5-501.1	upon change				
						of service				

¹ Group 2 storage vessels as defined in 40 CFR 63, Subpart CC (MACT) that are subject to NSPS K but are exempt from control requirements in NSPS K are subject only to MACT per 63.640(n)(7).

Table VII – BB.23 Applicable Limits and Compliance Monitoring Requirements EXEMPT BUTANE SPHERES

S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

		K Ju		TANK 301), S190 (TAN	II		
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
VOC	BAAQMD	N		Pressure vacuum valve set	BAAQMD	P/initial	Records
	8-5-303.1			to 90% of tank's maximum	8-5-501.4		
				allowable working pressure			
				or at least 0.5 psig			
VOC	BAAQMD	N		Pressure vacuum valve	BAAQMD	P/SA	Method 21
	8-5-303.2			sealing mechanism must be	8-5-403		portable
				gas-tight: < 500 ppm	8-5-403.1		hydrocarbon
							detector
				OD			
				<u>OR</u>			
					BAAQMD	P/Q	Method 21
					8-5-403	(optional)	portable
					8-5-403.1		hydrocarbon
					8-5-411.3		detector
					(optional)		
				Pressure vacuum valve	BAAQMD	P/A	Source test
				sealing mechanism must be	8-5-502.1		(Not required
				vented to abatement with			if vented to
				95% efficiency			fuel gas)
VOC	SIP	Y		Pressure vacuum valve set	SIP	P/SA	visual
	8-5-303.1			pressure within 10% of	8-5-403		inspection
				maximum allowable			
				working pressure of the			
VOC	SIP	Y		tank, or at least 0.5 psig Pressure vacuum valve must	SIP	P/SA	Method 21
100	8-5-303.2	1		be gas-tight: < 500 ppm (as	8-5-403	I/SA	portable
	0-3-303.2			methane) above background	8-5-503		hydrocarbon
				according to the congression	8-5-605		detector
VOC	BAAQMD	N		Pressure relief devices on	BAAQMD	P/SA	Method 21
	8-5-307.3			pressure tank must be gas	8-5-403		Portable
				tight (< 500 ppm as	8-5-403.2		hydrocarbon
				methane)			detector
VOC	BAAQMD	N		Pressure relief devices on	BAAQMD	P/Q	Method 21
	8-5-307.3			pressure tank must be gas	8-5-403	(optional)	Portable
				tight (< 500 ppm as	8-5-403.2		hydrocarbon
				methane)	8-5-411		detector;
					(optional)		enhanced
							monitoring

Table VII – BB.23 Applicable Limits and Compliance Monitoring Requirements EXEMPT BUTANE SPHERES

S188 (TANK 300), S189 (TANK 301), S190 (TANK 302), S253 (TANK 833)

	3100 (1AN	K JU	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TANK 301), 5170 (TAI	5100 (1ANK 500), 5109 (1ANK 501), 5190 (1ANK 502), 5255 (1ANK 655)											
Type of	Emission		Future		Monitoring	Monitoring										
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring									
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type									
VOC	SIP	Y		Pressure tank must be gas	SIP	not specified	Method 21									
	8-5-307			tight: < 100 ppm (as	8-5-503		portable									
				methane) above background	8-5-605		hydrocarbon									
							detector									
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21									
	8-5-328.1			concentration of < 10,000	8-5-328.1	emptied &	portable									
				ppm as methane after		degassed;	hydrocarbon									
				degassing		4 consecutive	detector									
						measurement										
						s at 15										
						minute										
						intervals										
VOC	SIP	Y		Organic concentration in	SIP	<u>periodic</u>	portable									
	8-5-328.1.2			tank <10,000 ppm as	8-5-503	each time	hydrocarbon									
				methane after cleaning		emptied &	detector									
						degassed										
<u>NONE</u>		-		SHAPS for Petroleum Refine												
	Exempt per	63.640	$(\mathbf{d})(5)$. Em	ission point routed to fuel ga	s system											
The followi	ng applies to	S188 o	nly													
NONE	40 CFR 60, S	Subpar	t Kb – NE	SHAPS for Petroleum Refine	eries											
	Exempt per	60.110	b(d)(2). Pro	essure vessel designed to oper	rate in excess of	204.9 kPa and	l without									
	emissions to	the atı	nosphere.													
	0															

Table VII – BB.24 Applicable Limits and Compliance Monitoring Requirements OLD MACT TANK < 5,000 GALLONS

S507 (TANK 21, FPLH RECOVERY TANK)

	S507 (TANK 21, FPLH RECOVERY TANK)						
	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
	BAAQMD R	egulat	ion 8, Rule	5 - Organic Compounds - S'	TORAGE OF O	ORGANIC LIC	QUIDS
	LIMITS ANI	ОМО	NITORING	3			
VOC	BAAQMD	Y		Record of liquids stored and	BAAQMD	periodic	records
	8-5-301			true vapor pressure	8-5-501.1	initially and	
						upon change	
Mod	D 4 4 63 4D	**		D 1		of service	
VOC	BAAQMD 8-5-303.1	Y		Pressure vacuum valve set	BAAQMD	P/SA	visual
	8-3-303.1			pressure within 10% of maximum allowable	8-5-403		inspection
				working pressure of the			
				tank, or at least 0.5 psig			
VOC	BAAQMD	Y		Pressure vacuum valve must	BAAQMD	P/SA	Method 21
	8-5-303.2			be gas-tight: < 500 ppm (as	8-5-403		portable
				methane) above background	8-5-605		hydrocarbon
VOC		Y		Determination of	DAAOMD	D/E	detector look-up table or
VOC		1		applicability	BAAQMD	P/E	sample analysis
NONE	40 CED (2 C	1			8-5-604		T and James
NONE	Exempt per 6	-		ESHAPS for Organic Liqui	a Distribution		
	BAAQMD P			TIONS			
V	_	Y	1 CONDI		BAAQMD	mania dia	ma a a m d a
Vapor	BAAQMD	Y		TVP < 11 psia	8-5-501.1	periodic	records
pressure	Condition				8-3-301.1	initially and	
	24532, Part					upon change	
	1					of service	
POC	Condition	Y		Pressure vacuum valve set	BAAQMD	P/SA	visual
	24532, Part			pressure at least 0.5 psig	8-5-403		inspection
	2						
POC	Condition	Y		POC 218 pounds per 12	Condition	P	Records and
	24532, Part			consecutive months	24532 Part 1		calculations
	4 Condition	Y		9,883 gal. per 12	and Part 3 Condition	P/M	Records
Throughput	24532, Part	1		consecutive months	24532, Part 5	F/IVI	Records
	3			consecutive months	2 1332, 1 4113		
	ul			1	II	1	<u> </u>

Table VII – BB.25 Applicable Limits and Compliance Monitoring Requirements NSPS KB EXEMPT FIXED ROOF WASTEWATER TANKS VENTED TO FUEL GAS TANK 235, TANK 236

	Emission		Future	,	Manitanina	Maniaa	
					Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
Limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD R	egula	tion 8, Rule	5 - Organic Compounds - S	TORAGE OF C	RGANIC LIC	QUIDS
	Exempt per 8	-5-11	7. Low vap	or pressure			
POC	BAAQMD	Y		Exemption from Regulation 8-5	BAAQMD	P/E	Vapor pressure
	8-5-117 &			when true vapor pressure is less	2-6-409.2 &		determination
	Condition			than 25.8 mm Hg (0.5 psia).	Condition		upon material
	20773, Part 1				20773, Part 2		change
NONE	40 CFR 63, S	ubpa	rt CC – NE	SHAPS for Petroleum Refine	eries		
	Exempt per 6	3.640	(d)(5). Em	ission point routed to fuel ga	s system.		
	40 CFR 60, S	ubpa	rt Kb - NSI	S for VOL Storage Vessels a	t Petroleum Re	fineries	
	RECORDKE	EPIN	IG ONLY				
Vapor	40 CFR	Y		True vapor pressure less	40 CFR	P/E	Record
pressure	60.110b(c)						1100014
	BAAQMD PERMIT CONDITIONS						record
		L ERMI	T CONDIT	than 3.5 kPa.	60.116b(b)		record
		ERM	IT CONDIT		60.116b(b)		TREESTE
		ERMI	IT CONDIT		Condition	C	Pressure
	BAAQMD PI	1	IT CONDIT	TIONS		C	
	BAAQMD PI Condition	1	IT CONDIT	Applies to 235	Condition	С	Pressure
	BAAQMD Pl Condition #23724, part	1	IT CONDIT	Applies to 235	Condition	C	Pressure
	BAAQMD Pl Condition #23724, part 4b	Y	T CONDIT	Applies to 235 2.2 inches of water	Condition #23724, part 3	_	Pressure monitoring

Table VII – BB.26 Applicable Limits and Compliance Monitoring Requirements NSPS KB EXEMPT FIXED ROOF WASTEWATER TANK TANK 237

Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD R	egulat	ion 8, Rule	5 - Organic Compounds - S	TORAGE OF C	ORGANIC LIQ	UIDS
	Exempt per 8	-5-11	7. Low vap	or pressure			
POC	BAAQMD	Y		Exemption from Regulation 8-5	BAAQMD	P/E	Vapor pressure
	8-5-117 &			when true vapor pressure is less	2-6-409.2 &		determination
	Condition			than 25.8 mm Hg (0.5 psia).	Condition		upon material
	20773, Part 1				20773, Part 2		change
NONE	40 CFR 63 St	ıbpar	t CC – NES	SHAPS for Petroleum Refine	ries		
	RECORDKE	EPIN	G ONLY				
HAP	40 CFR	Y		Retain weight percent total	40 CFR	periodic	Records
	63.641			organic HAP in stored liquid	63.655(i)(1)	initially and	
				for Group 2 determination.	(iv) and	upon change in	
				Keep records of vessel	63.655(i)(1)	service	
				dimensions, capacity, and	(vi)		
				identification of liquid			
				stored.			
	40 CFR 60, S	ubpar	t QQQ – V	OC Emissions from Petroleu	ım Refinery Wa	astewater Syste	ems
VOC	40 CFR	Y		Fixed roof closure standards	40 CFR	periodic	Visual
	60.692-3(a)				60.692-3(a)(4)	initially and	inspection
						semi-annually	
VOC		Y		Problems identified during	40 CFR	periodic	Records
				60.692-3(a) inspections that	60.697(c)	when problem	
				could result in VOC		is identified	
				emissions			
VOC		Y		Problems identified during	40 CFR	<u>periodic</u>	Report
				60.692-3(a) inspections that	60.698(c)	initially and	
				could result in VOC		semi-annually	
				emissions			

Table VII – BB.27 Applicable Limits and Compliance Monitoring Requirements NSPS KB EXEMPT FIXED ROOF TANK

TANK 224

				I ANK 227			
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD Ro	egulat	ion 8, Rule	5 - Organic Compounds - ST	TORAGE OF C	ORGANIC LIQ	UIDS
	Exempt per 8	-5-11	7. Low vap	or pressure			
POC	BAAQMD	Y		Exemption from Regulation 8-5	BAAQMD	P/E	Vapor pressure
	8-5-117 &			when true vapor pressure is less	2-6-409.2 &		determination
	Condition			than 25.8 mm Hg (0.5 psia).	Condition		upon material
	20773, Part 1				20773, Part 2		change
	40 CFR 63, S	ubpar	t CC – Nat	ional Emission Standards for	r Hazardous Ai	r Pollutants for	Petroleum
	Refineries						
	RECORDKE	EPIN	G ONLY				
HAP	40 CFR	Y		Retain weight percent total	40 CFR	<u>periodic</u>	Records
	63.641			organic HAP in stored liquid	63.655(i)(1)	initially and	
				for Group 2 determination.	(iv) and	upon change in	
				Keep records of vessel	63.655(i)(1)	service	
				dimensions, capacity, and	(vi)		
				identification of liquid			
				stored.			

Table VII – BB.28 Applicable Limits and Compliance Monitoring Requirements EXEMPT EXTERNAL FLOATING ROOF WASTEWATER TANK

TANK 206

				1711111 200			
Type of	Emission		Future		Monitoring	Monitoring	
Limit	Limit	FE	Effective		Requirement	Frequency	Monitoring
	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	BAAQMD R	egula	tion 8, Rule	5 - Organic Compounds - S	TORAGE OF C	RGANIC LIC	QUIDS
	Exempt per 8	8-5-11	7. Low vap	or pressure			
POC	BAAQMD	Y		Exemption from Regulation 8-5	BAAQMD	P/E	Vapor pressure
	8-5-117 &			when true vapor pressure is less	2-6-409.2 &		determination
	Condition			than 25.8 mm Hg (0.5 psia).	Condition		upon material
	20773, Part 1				20773, Part 2		change
	_			or Petroleum Refineries		a gournara	
	INO MONITO)KIN	G REQUIR	EMENTS FOR GROUP 2 V	VASTEWATEI	R SOURCES	

Table VII – CC.1 Applicable Limits and Compliance Monitoring Requirements S452, S453, S455, S457, S458, S500, COOLING TOWERS

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Opacity	BAAQMD	N		Ringelmann No. 1 for	None	N	None
	Regulation			no more than 3			
	6-1-301			minutes/hour			
Opacity	SIP	Y		Ringelmann No. 1 for	None	N	None
	Regulation			no more than 3			
	6-301			minutes/hour			
FP	BAAQMD	N		0.15 grain/dscf	None	N	None
	6-1-310.1						
FP	BAAQMD	N		Table 6-1-310.2	None	N	None
	6-1-310.2						
	(S452, 455,						
	457 only)						
FP	SIP	Y		0.15 grain/dscf	None	N	None
	6-310						
	BAAQMD	N		Table 6-1-311.1	None	N	None
	6-1-311.1						
FP	BAAQMD	N		Table 6-1-311.2	None	N	None
	6-1-311.2						
	(S452, 455,						
	457 only)						
	SIP	Y		40 lb/hr	None	N	None
	6-311						
PM				None	BAAQMD	P/M	Analysis total
					Condition		dissolved
					22121, part 4		solids
Total	BAAQMD	N		84 ppbw (as methane)	BAAQMD 11-	1 per week	Records of
hydrocarb	Regulation			as measured in cooling	10-504	or if no	results
ons	11-10-			water prior to		leaks six	
Option 1	304.1			exposure to air for		months, 2	
				existing units		per month	

Table VII – CC.1 Applicable Limits and Compliance Monitoring Requirements S452, S453, S455, S457, S458, S500, COOLING TOWERS

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Total	BAAQMD	N		6 ppmv (as methane)	BAAQMD 11-	P/4 per hour	Records of
hydrocarb	Regulation			as measured in	10-504		results
ons	11-10-			stripped air			
Option 2	304.2						
Total	BAAQMD	N		6 ppmv (as methane)	BAAQMD 11-	N	Records of
hydrocarb	Regulation			as measured in	10-504		results
ons	11-10-			stripped air			
Option 3	304.3						

Table VII – CC.2

Applicable Limits and Compliance Monitoring Requirements
S456, COOLING TOWER

			Future	led, Cooling To	Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQMD	N		Ringelmann No. 1 for	None	N	None
	Regulation			no more than 3			
	6-1-301			minutes/hour			
Opacity	SIP	Y		Ringelmann No. 1 for	None	N	None
	Regulation			no more than 3			
	6-301			minutes/hour			
FP	BAAQMD	N		0.15 grain/dscf	None	N	None
	6-1-310.1						
FP	SIP	Y		0.15 grain/dscf	None	N	None
	6-310						
PM				None	BAAQMD	P/M	Analysis total
					Condition		dissolved
					22122, part 2		solids
		_					

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD		
Regulations		
6-1-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible
		Emissions; EPA Method 9
6-1-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible
		Emissions; EPA Method 9
6-1-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-1-310	Total Suspended Particulate	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
	(TSP) Concentration Limits	U.S. EPA Method 5
6-1-311	Total Suspended Particulate	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
	(TSP) Weight Limits	U.S. EPA Method 5
8-2-301	VOC Emission Limit for	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or
	Miscellaneous Operations	25A
8-5-301	Tank Emission Control System	Manual of Procedures, Volume IV, ST-4
	Requirements, 95% Abatement	
	Efficiency	
8-5-303.2	Gas Tight Requirements for	Organic compounds shall be measured using a portable gas
8-5-306, and	Organic Liquid Storage Tanks	detector as prescribed in EPA Reference Method 21 (60,
8-5-307		Appendix A)
8-5-320	Floating Roof Tank (internal and	Physical measurements as described in BAAQMD 8-5-320 when
	external) tank fitting gap	required in BAAQMD 8-5-401 or BAAQMD 8-5-402.
	measurement	
8-5-321	Floating Roof Tank (internal and	Physical measurements as described in BAAQMD 8-5-321 when
	external) primary rim seal gap	required in BAAQMD 8-5-401 or BAAQMD 8-5-402.
	measurement	
8-5-322	Floating Roof Tank (internal and	Physical measurements as described in BAAQMD 8-5-322 when
	external) secondary rim seal gap	required in BAAQMD 8-5-401 or BAAQMD 8-5-402.
	measurement	
8-5-328.1.2	Tank Degassing Emission	Manual of Procedures, Volume IV, ST-7
	Control System Requirements	

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
8-5-601	Reid Vapor Pressure	Manual of Procedures, Volumne III, Lab Method 13,
		Determination of the Reid Vapor Pressure of Petroleum Products
	True Vapor Pressure	Manual of Procedures, Volumne III, Lab Method 28,
8-5-602		Determination of Vapor Pressure of Organic Liquids from Storage
		Tanks
8-7-301	Phase I Vapor Recovery	Manual of Procedures, Volume IV, ST-30, Gasoline Vapor
	Requirements	Recovery Leak Test Procedure; and ST-36, Gasoline Dispensing
		Facility Phase I Volumetric Efficiency
8-7-302	Phase II Vapor Recovery	Manual of Procedures, Volume IV, ST-30, Vapor Tightness; ST-
	Requirements	37, Liquid Removal; and ST-41, Liquid Retain and Spitting from
		Nozzles
8-8-302.3	Oil-Water Separator Vapor	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or
	Recovery System Requirements	25A
8-8-307.2	Air Flotation Unit Vapor	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or
	Recovery System Requirements	25A
8-8-504	Portable Hydrocarbon Detector	A gas detector that meets the specifications and performance
		criteria of and has been calibrated in accordance with EPA
		Reference Method 21 (60, Appendix A)
8-8-601	Wastewater Analysis for Critical	Samples of wastewater shall be taken at the influent stream for
	OCs	each unit and analyzed for the concentration of dissolved critical
		organic compounds as prescribed in the District's Manual of
		Procedures, Volume III, Lab Method 33.
8-8-602,	Determination of Emissions	Emissions of POCs, as specified in Sections 8-8-301.3, 8-8-302.3,
8-8-301.3,		8-8-304, 8-8-305.2, 8-8-306.2, and 8-8-307.2 shall be measured
8-8-302.3,		by as prescribed by any of the following methods: 1). BAAQMD
8-8-304,		MOP, Volume IV, ST-7 or; 2). EPA Method 25 or 25(A).
8-8-305.2,		
8-8-306.2, and		
8-8-307.2		
8-8-603,	Inspection Procedures	For the purposes of 8-8-301, 302, 303, and 304, leaks shall be
8-8-301,		measured using a portable gas detector as prescribed in EPA
8-8-302,		Reference Method 21 (60, Appendix A)
8-8-303, and		
8-8-304	B. W. B. C. M. C.	EDA W d. 101
8-18	Fugitive Emission Monitoring	EPA Method 21
	Requirements	

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
8-44-304.1	POC emission rate limitation	Manual of Procedures, ST-34, Bulk Marine Loading Terminals,
	during marine tank vessel	Vapor Recovery Units or
	loading	EPA Method 25, Determination of Total Gaseous Nonmethane
		Organic Emissions, or
		EPA Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or
		alternate method approved in writing by the APCO and U.S. EPA
8-44-305	Tank vessel is leak free and gas	EPA Method 21, Determination of Volatile Organic Compounds
	tight	Leaks
8-44-603	Leak Tests and Gas Tight	EPA Method 21, Determination of Volatile Organic Compounds
	Determinations	Leaks
8-44-604	Flash Point Determinations	ASTM Standard Test Method D56 ("Standard Test Method for
		Flash Point by Tag Closed Cup Tester") or ASTM Standard Test
		Method D93 ("Standard Test Methods for Flash Point by Pensky-
		Martens Closed Cup Tester"), whichever is applicable, or by an
		alternate method approved in writing by the APCO and U.S. EPA.
9-1-301,	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
9-2-301,		
9-1-604		
9-1-501,	Continuous Monitoring	Manual of Procedures, Volume 5, Continuous Monitoring
9-1-502,		
9-2-501		
9-1-313	NH3 and H2S abatement	Manual of Procedures, Volume III, Lab 32, Determination of H2S
	efficiency	in Process Water Streams
		Manual of Procedures, Volume III, Lab 1, Determination of NH3
		in Effluents
9-9-301.1.3	Emission Limits: Turbines Rated	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,
	> 10 MW with SCR	Continuous Sampling and
		ST-14, Oxygen, Continuous Sampling
9-10-301	Refinery-Wide NO _x Emission	Manual of Procedures, Volume V and Manual of Procedures,
	Limit	Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen)
9-10-303	NO _x Emission Limit	Manual of Procedures, Volume V and Manual of Procedures,
		Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen)

VIII. Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
9-10-305	CO Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-6 (carbon monoxide) for CEM verification by source test
11-10-304	Total Hydrocarbon Leak Monitoring Requirement	Manual of Procedures
SIP Regulations		
6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; EPA Method 9
6-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; EPA Method 9
6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5
6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5
8-5-601	Reid Vapor Pressure	Manual of Procedures, Volumne III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
8-5-602	True Vapor Pressure	Manual of Procedures, Volumne III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks
8-44-301.1	POC emission rate limitation	Manual of Procedures, ST-34, Bulk Marine Loading Terminals,
8-44-301.2	during marine tank vessel loading	Vapor Recovery Units
8-44-303	Tank vessel is leak free and gas tight	EPA Method 21, Determination of Volatile Organic Compounds Leaks
8-44-603	Leak Tests and Gas Tight Determinations	EPA Method 21, Determination of Volatile Organic Compounds Leaks
40 CFR 60,	New Source Performance	
Subpart A	Standards – General Provisions (12/23/71)	

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60,	Standards of Performance for	
Subpart Db	Industrial-Commercial-	
	Institutional Steam Generating	
	Units (3/13/00)	
60.44b(a)	NO _x Emission Limit	40 CFR 60, Appendix B, Performance Specification 2
60.44b(e)		
40 CFR 60,	Standards of Performance for	
Subpart J	Petroleum Refineries (7/1/00)	
60.104(a)(1)	Fuel Gas H2S Concentration	40 CFR 60, Appendix B, Performance Specification 7 and Method
	Limit	11 for Relative Accuracy
40 CFR 60	SO2 limit	EPA Method 6, Determination of sulfur dioxide emissions from
Subpart J,		stationary sources, or
60.104(a)(2)		EPA Method 6c, Determination of Sulfur Dioxide Emissions
(i)		From Stationary Sources (Instrumental Analyzer Procedure), and
		Method 3, Gas analysis for the determination of dry molecular
		weight, or
		Method 3A, Determination of Oxygen and Carbon Dioxide
		Concentrations in Emissions From Stationary Sources
		(Instrumental Analyzer Procedure), and
		Method 4, Determination of moisture content in stack gases, and
		Method 15, Determination of hydrogen sulfide, carbonyl sulfide,
		and carbon disulfide emissions from stationary sources
60.106(f)(3)	H2S concentration monitoring	EPA Method 3: O2
60.106(f)(1)	SO2 concentration monitoring	EPA Method 6: SO2
60.106(e)	H2S concentration monitoring	EPA Method 11: H2S
60.106(f)(2)	TRS concentration monitoring	EPA Method 15: Total Reduced Sulfur
40 CFR 60,	Standards of Performance for	
Subpart Kb	Volatile Organic Liquid	
	Storage Vessels	
60.112b	NSPS Subpart Kb Closed Vent	40 CFR 60, Appendix A, Method 21 as specified in 40 CFR 60, Subpart VV 60.485(b)
(a)(3)(i)	System – leak detection	
60.112b	NSPS Subpart Kb Closed Vent	40 CFR 60, Subpart Kb 60.113b(c) Testing and Procedures
(a)(3)(ii)	System Performance (95%	
	efficiency)	

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
60.113b	NSPS Subpart Kb External	40 CFR 60, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3)
(b)(4)(i)	Floating Roof Tank primary rim	Testing and Procedures
	seal gap measurement	
60.113b	NSPS Subpart Kb External	40 CFR 60, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3)
(b)(4)(ii)	Floating Roof Tank secondary	Testing and Procedures
	rim seal gap measurement	
40 CFR 60,	Standards of Performance for	
Subpart GG	Stationary Gas Turbines	
	(1/27/82)	
60.332 (a)(1)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur
		Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.332 (a)(2)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur
		Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (a)	SO2 Volumetric Emission Limit	EPA Method 20, Determination of Nitrogen Oxides, Sulfur
		Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (b)	Fuel Sulfur Limit (gaseous fuel)	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation ASTM D 4084-82, Standard Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method), ASTM D 3246-81, Standard Method for Sulfur in Petroleum Gas
		by Oxidative Microcoulometry
60.333 (b)	Fuel Sulfur Limit (liquid fuel)	ASTM D 2880-71, Standard Specification for Gas Turbine Fuel
		Oils
60, Appendix	Inspection Procedures	EPA Reference Method 21
Α		
40 CFR 60,	Standards of Performance for	
Subpart VV	Equipment Leaks of VOC in	
	SOCMI	
60.482-2(b)(1)	Pumps in light liquid service –	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart
	leak detection	VV 60.485(b)
60.482-2(e)	Pumps in light liquid service and	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart
	designated for "no detectable	VV 60.485(c)
	emission" – leak detection	

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
60.482-3	Compressors designated for "no	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart
	detectable emission" – leak	VV 60.485(c)
	detection	
60.482-4(b)	Pressure relief valve (gas/vapor)	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart
	no detectable emissions after a	VV 60.485(c)
	pressure release event.	
60.482-7(b)	Valves in gas/vapor service and	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart
	in light liquid service – leak	VV 60.485(b)
	detection.	
60.482-7(f)	Valves in gas/vapor service and	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart
	in light liquid service and	VV 60.485(c)
	designated for "no detectable	
	emission" – leak detection	
60.482-7(h)	Valves in gas/vapor service and	40 CFR 60, Appendix A, Method 21 once per year in accordance
	in light liquid service and	with written plan (60.482-7(h)(3)
	designated as difficult-to-	
	monitor.	
60.482-8(b)	Pumps and valves in heavy liquid	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart
	service, pressure relief devices	VV 60.485(b)
	(liquid), and flanges and other	
	connectors – leak detection	
60.483-2	Individual valves meeting criteria	40 CFR 60, Appendix A, Method 21 as specified in 60 Subpart
	for skip period leak detection –	VV 60.485(b)
	leak detection	
40 CFR 60,	Standards of Performance For	
Subpart	Petroleum Refinery	
QQQ	Wastewater Systems	
60.696	Performance test methods and	Sources equipped with a closed-vent system and control device
	procedures and compliance	shall use EPA Method 21 to measure the emission concentrations,
	provisions	using 500 ppm as the no detectable emission limit. Acceptable
(0, (0)	I salain annotice 1	seal gap criteria also included.
60.696	Leak inspection procedures	EPA reference method 21 (40 CFR 60, Appendix A),
40 CED (1		Determination of Volatile Organic Compound Leaks
40 CFR 61,		
Subpart FF		

VIII. Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
61.343(a)(1)	No detectable emissions over	40 CFR 60, Appendix A, Method 21 as specified in 40 CFR 61,
(i)(A)	500 ppmv	Subpart FF 61.355(h)
40 CFR 63,	National Emissions Standards	
Subpart CC	for Hazardous Air Pollutants	
	from Petroleum Refineries –	
	General Standards	
63.646(a)	Refinery MACT (63	40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures
63.120(b)(3)	Subpart CC) Group 1 external	to Determine Compliance
63.120(b)(5)	floating roof tanks primary rim-	
	seal gap measurement	
63.646(a)	Refinery MACT (63	40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures
63.120(b)(4)	Subpart CC) Group 1 external	to Determine Compliance
63.120(b)(6)	floating roof tanks secondary	
	rim-seal gap measurement	
63.654(c)	Identify leaks of total strippable	Air Stripping Method (Modified El Paso Method) for
	volatile organic compounds	Determination of Volatile Organic Compound Emissions from
	(VOC) from each heat exchange	Water Sources" Revision Number One, dated January 2003,
	system	Sampling Procedures Manual, Appendix P: Cooling Tower
		Monitoring, prepared by Texas Commission on Environmental
		Quality, January 31, 2003 using a flame ionization detector (FID)
		analyzer for on-site determination as described in Section 6.1 of
		the Modified El Paso Method.
63.658	Conduct sampling along the	Methods 325A and 325B of appendix A of part 63 and paragraphs
	facility property boundary	(b) through (k) of 63.658.
California		
Air		
Resources		
Board		
(CARB)		
BAAQMD	Gasoline dispensing facility leak	CARB Test Procedure TP201.1B: "Rotatable Adaptor Torque
Condition	test	Test"
18680, Part 2		
BAAQMD	Gasoline dispensing facility leak	CARB Test Procedure TP201.1C: "Drop Tube/Drain Valve
Condition	test	Assembly"
18680, Part 2		

VIII. Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Gasoline dispensing facility leak	CARB Test Procedure TP201.1D: "Drop Tube Overfill
Condition	test	Prevention Device and Spill Container Drain Valve Leak Test"
18680, Part 2		
BAAQMD		
Conditions		
BAAQMD	Source test requirement for POC	Manual of Procedures, Volume IV, ST-7, Organic Compounds
Condition		
1440, Part		
7b.i.1		
BAAQMD	Source test requirement for POC	Manual of Procedures, Volume IV, ST-7, Organic Compounds
Condition		
1440, Part		
7b.i.2		
BAAQMD	Source test requirement for H2S	Manual of Procedures, Volume IV, ST-28, Hydrogen Sulfide,
Condition		Integrated Sampling
1440, Part		
7b.i.3		
BAAQMD	Source test requirement for H2S	Manual of Procedures, Volume IV, ST-28, Hydrogen Sulfide,
Condition		Integrated Sampling
1440, Part		
7b.i.4		
BAAQMD	Source test requirement for SO2	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide,
Condition		Continuous Sampling
1440, Part		
7b.i.5		
Condition	Leak test	EPA Method 21, Determination of Volatile Organic Compounds
4336, part 4		Leaks
Condition	POC emission rate limitation	Manual of Procedures, ST-34, Bulk Marine Loading Terminals,
4336, part 9	during barge loading	Vapor Recovery Units or
		EPA Method 25, Determination of Total Gaseous Nonmethane
		Organic Emissions , or
		EPA Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or
		alternate method approved in writing by the APCO and U.S. EPA

VIII. Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
Condition	Alternative monitoring for	ASTM Method 4913-00, Standard Practice for Determining
4336, part 11	compliance with 40 CFR	Concentration of Hydrogen Sulfide by Reading Length of Stain,
	60.104(a)(1) H2S limit	Visual Chemical Detectors
BAAQMD	PM10 Emission Rate	EPA Method 201, Determination of PM10 Emissions (Exhaust
Condition		Gas Recycle Procedure), and
22962, Part 2		EPA Method 202, Determination of Condensible Particulate
		Emissions From Stationary Sources (Found in 40 CFR 51,
		Appendix M)

IX. PERMIT SHIELD

A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

Table IX A - 1
Permit Shield for Non-applicable Requirements
ALL SOURCES

Citation	Title or Description		
	(Reason not applicable)		
BAAQMD	"Organic Compounds – Adhesive and Sealant Products" (7/17/02)		
Regulation 8,	The applicant has certified that none of the regulated activities specified in this rule are		
Rule 51	currently taking place at this facility.		
BAAQMD	"Hazardous Pollutants – Lead" (3/17/82)		
Regulation 11,	The applicant has certified that there are no sources at this facility with the potential to emit		
Rule 1	in excess of 15 pounds per day (11-1-301) each, or with the potential to result in ground		
	level lead concentrations in excess of 1.0 microgram/m3 averaged over 24 hours (11-1-		
	302).		
60.692-3(b)	This subsection of NSPS Subpart QQQ requires vents on oil-water separators to be routed		
	through a closed vent system to a control device. The applicant's separator has a fixed roof		
	that is in full contact with the liquid and does not contain any vents. As indicated in Table		
	IV-C, applicant is subject to BAAQMD Regulation 8-8-302.1, which requires a "solid,		
	vapor-tight, full contact cover which totally encloses the separator tank, chamber or basin		
	(compartment) liquid contents, with all cover openings closed and sealed." Since no vents		
	exist, there is nothing to route to a control device, so this subsection of Subpart QQQ does		
	not apply.		

X. Revision History

Table IX B - 2 Permit Shield for Subsumed Requirements

S352 – COMBUSTION TURBINE

S353 – COMBUSTION TURBINE

S354 – COMBUSTION TURBINE

Subsumed			
Requirement		Streamlined	
Citation	Title or Description	Requirements	Title or Description
NSPS Subpart GG, 60.334(a)	Install and operate a continuous monitoring system to monitor and record the ratio of water to fuel being fired in the turbine.	BAAQMD 9-9-501, Permit Condition 12122, Part 9b, Permit Condition 18629, Part IX.G.1.a., and proposed Subpart GG Amendments: 60.334(b).	Per BAAQMD regulations and permit conditions, Phillips 66 has equipped the turbines with NOx CEMs in lieu of monitoring the water-to-fuelratio being fired in the turbines. Further, proposed amendments to Subpart GG (FR 17990), allow facilities to install and operate a NOx CEM in lieu of water to fuel ratio monitoring.
NSPS Subpart GG, 60.334(b)	Monitor nitrogen content of the fuel being fired in the turbine.	Proposed Subpart GG Amendments: 60.334(h)(2).	Per proposed amendments to Subpart GG (FR 17990), facilities that elect to take no allowance for fuel bound nitrogen in determining the applicable NOx standard are not required to monitor nitrogen fuel content. Phillips 66 will elect to take this approach when the proposed amendments become effective (May 29, 2003), resulting in a revised NOx standard per 60.332(a)(2) of 150 ppmv at 15% O2 with no fuel bound nitrogen monitoring.
NSPS Subpart GG, 60.334(c)(1)	Definition of excess nitrogen oxide emissions for purposes of reports under 60.7(c) is based on any one-hour period during which the average water-to-fuel ratio falls below the water-to-fuel ratio determined to demonstrate compliance by the performance test required in 60.8	BAAQMD 9-9-501, Permit Condition 12122, Part 9b, Permit Condition 18629, Part IX.G.1.a., and proposed Subpart GG Amendments: 60.334(j)(1)(iii).	Per proposed amendments to Subpart GG (FR 17990), the definition of excess emissions is revised for facilities that install and operate a NOx CEMS in lieu of water to fuel ratio monitoring. The revised definition is based on an operating hour in which the 4-hour rolling average NOx concentration as measured by the CEM exceeds the 60.332(a)(2) limit.

X. REVISION HISTORY

Initial Major Facility Review Permit Issuance December 1, 2003 (Application 16487): Administrative Amendment (no application): May 27, 2004 Reopening (Application 9296): December 16, 2004 Minor Revision (Application 10871): April 12, 2005 Reopening (Application 11699): April 12, 2005 Minor Revision (Application 10622): January 5, 2006 Minor Revision (Application 12995): January 5, 2006 Significant Revision (Application 11626): January 5, 2006 Minor Revision (Application 10115): March 2, 2006 Minor Revision (Application 12217): March 2, 2006 Reopening (Application 12433) November 20, 2006 Reopening (Application 12601) November 20, 2006 Significant Revision (Application 13691) January 18, 2007

Administrative Amendments (no application)
Change Responsible Official from J. Michael
Kenney to Rand Swenson
Change Facility Contact from Valerie Uyeda to
Jennifer Ahlskog
Change District Contact from Brenda Cabral to
Sanjeev Kamboj

Minor Revision (Application 12931)

Significant Revision (Application 22672)

October 15, 2007

X. Revision History

Add names of equipment to headers for Conditions 383, 1440, 6725, 7353, 7523, 12121, 12122, 12124, 12125, 12127, 12129-12133, 12245, 13184, 16677, 18251, 18629, 18680, 19278, 19476, 19488, 20773, 21092, and 21235

Significant Revision (Application 10994)

October 31, 2008

Significant Revision (Applications 13427, 16941, 18744, 18747):

June 18, 2009

Minor Revision (Application 22024):

May 23, 2011

Minor Revision (Application 22568):

May 23, 2011

Major Facility Review Permit Renewal

September 1, 2011

(Application 18231):

(Also includes 14601, 14856, 14857, 14963, 15442, 17052, 19361, 19626, 20802, 21295, and 21343)

Minor Revisions (Applications 17466, 17632, 23293, 23726, 23984)

March 4, 2013

Administrative Amendments (Application 24530)

March 4, 2013

Minor Revision (Application 22906)

October 17, 2013

Administrative Amendments (No application)

Minor Revision (Application 24692, 25621, 26021) Administrative Amendments (No application) August 1, 2014

Major Facility Review Permit Renewal

January 25, 2018

(Application # 27798)

(Also includes Application # 21850, 22672, 26487, 27532, 27560)

Minor Revision (Application 27955)

December 27, 2018

Reopening (Application 30003)

October 27, 2022

(Also includes Minor Revision Application 29935)

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

XI. GLOSSARY

ACT

Federal Clean Air Act

APCO

Air Pollution Control Officer

API

American Petroleum Institute

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

Basis

The underlying authority which allows the District to impose requirements.

C_{i}

An Organic chemical compound with five carbon atoms

$\mathbf{C}_{\mathbf{6}}$

An Organic chemical compound with six carbon atoms

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CEC

California Energy Commission

CEQA

California Environmental Quality Act

XI. Glossary

CEM

A "continuous emission monitor" is a monitoring device which provides a continuous record of some parameter (e.g. NOx concentration) in an exhaust steam.

CFEP

Clean Fuel Expansion Project

CFR

The Code of Federal Regulations. contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of contain the requirements for air pollution programs.

CO

Carbon Monoxide

CO₂

Carbon Dioxide

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

DAF

A "dissolved air flotation" unit is a process vessel where air bubbles injected at the bottom of the vessel are used to carry solids in the liquid into a froth on the liquid surface, where it is removed.

DWT

Dead Weight Tons

District

The Bay Area Air Quality Management District

dscf

Dry Standard Cubic Feet

E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, $4.53 ext{ E } 6$ equals $(4.53)x(10^6) = (4.53)x(10x10x10x10x10x10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EFRT

An "external floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled

XI. Glossary

when the tank was re-filled. On an EFRT, the floating roof is not enclosed by a second, fixed tank roof, and is thus described as an "external" roof.

EMP

Environmental Management Plan

ESP

Electrostatic Precipitator

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

FCC

Fluid Catalytic Cracker

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to Part 51, Subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

GLM

Ground Level Monitor

grain

1/7000 of a pound

GRU

Gas Recovery Unit

H₂S

Hydrogen sulfide

H₂SO₄

Sulfuric Acid

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by Part 63.

XI. Glossary

HC

Hydrocarbon

Hg

Mercury

HNC

Heavy Neutral Hydrocracker

HNHF

Heavy Neutral Hydrofinisher

HHV

High Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

IFRT

An "internal floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an IFRT, the floating roof is enclosed by a second, fixed tank roof, and thus is described as an "internal" roof.

ISOM

Isomerization plant

LFSO

Low sulfur fuel oil

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

Lighter

"Lightering" is a transfer operation during which liquid is pumped from an ocean-going tanker vessel to a smaller vessel such as a barge. Like any liquid transfer operation, lightering of organic liquids produces organic vapor emissions.

LNC

Light Neutral Hydrocracker

LNHF

Light Neutral Hydrofinisher

LPG

Liquid Petroleum Gas

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

XI. Glossary

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MM

Million

Mo Gas

Motor gasoline

MOP

The District's Manual of Procedures

MSDS

Material Safety Data Sheet

MTBE

Methyl Tertiary Butyl Ether

NA

Not applicable

NAAQS

National Ambient Air Quality Standards

NESHAPs

National Emission Standards for Hazardous Air Pollutants. See in Parts 61 and 63.

NMHC

Non-methane Hydrocarbons

NMOC

Non-methane Organic Compounds (Same as NMHC)

NOx

Oxides of nitrogen.

NPOC

Non-precursor organic compounds

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from

XI. Glossary

new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by Part 60 and District Regulation 10.

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O_2

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NOx, PM10, and SO2.

OMMP

Operation, Maintenance and Monitoring Plan

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 72 from Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

\mathbf{PM}

Total Particulate Matter

PM10

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

Process Unit

For the purpose of startup and shutdown reporting, a process unit is defined as found in Part 60 Subpart GGG:

Process Unit means components assembled to produce intermediates or final products from petroleum, unfinished petroleum derivatives, or other intermediates; a process unit can operate independently if supplied with sufficient feed or raw materials and sufficient storage facilities for the product.

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both Part 52 and District Regulation 2, Rule 2.

Facility Name: Phillips 66 – San Francisco Refinery

Permit for Facility #: A0016

XI. Glossary

RACT

Reasonably Available Control Technology

Regulated Organic Liquid

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

RFG

Refinery Fuel Gas

RMG

Refinery Make Gas

SAM

Sulfuric Acid Mist

SCR

A "selective catalytic reduction" unit is an abatement device which reduces NOx concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NOx compounds to nitrogen gas.

SDA

Solvent deasphalting

Shutdown

For reporting purposes only, a shutdown shall be defined as any of the following: there is no process feed to a unit, no furnace fires, or the boundary blinds are installed.

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SMM

Startup, shutdown, and malfunction

SMMP

Startup, shutdown, and malfunction plan

SO₂

Sulfur dioxide

SO2 Bubble

An SO2 bubble is an overall cap on the SO2 emissions from a defined group of sources, or from an entire facility. SO2 bubbles are sometimes used at refineries because combustion sources

XI. Glossary

are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO2 emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H2S and other sulfur compounds in the RFG.

SO₃

Sulfur trioxide

SRU

Sulfur Recovery Unit

ST-7

Source Test Method #7: Non-Methane Organic Carbon Sampling

Startup

For reporting purposes only, a startup shall be defined as any of the following: the removal of boundary blinds, first fire to a furnace, or the introduction of process feed to a unit. A startup only occurs following a shutdown unless it involves a newly constructed process unit.

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Units

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TKC

Taylor Kinetic Cracking

TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

TPH

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Plan

TRS

"Total reduced sulfur" is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO2 that will be present in the combusted fuel gas, since sulfur compounds are converted to SO2 by the combustion process.

XI. Glossary

TSP

Total Suspended Particulate

VE

Visible emissions

VGO

Vacuum Gas Oil

VOC

Volatile Organic Compounds

۷R

Vapor Recovery

WWT

Wastewater Treatment

Units of Measure:

bbl	=	barrels
bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m^2	=	square meter
min	=	minute
mm	=	million, millimeter
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year