From:

Diseree Gomez

Sent:

Thursday, February 23, 2017 11:20 AM

To:

David Torii Misa Velasco

Cc: Subject:

Project # S-1154368

Good Morning David,

This email serves as confirmation that the entitled notice has been received, processed, and completed on February 23, 2017. An electronic version is now available for viewing in PAS under System ID# C2804653.

Thank You,

#### **Diseree Gomez**

Office Assistant II
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave
Fresno, CA. 93726
559.230.6003
Diseree.Gomez@valleyair.org



System ID C28041053

RECEIVED

### PUBLIC NOTICE CHECK LIST

SJVAPCD PROJECT #: S-55 PROJECT #: S-1154368

REQST. COMPL. FRC PRELIMINARY PUBLIC NOTICE Newspaper Notice Emailed to Clerical (Check box and tab to generate Notice) Send email to "OA-PublicNotices" containing the following: SUBJECT: facility name, facility id#, project #, type of notice (prelim/final) BODY: project description and why it is being noticed (Emission Reduction Credit Banking) **ENCLOSED DOCUMENTS REQUIRE:** Enter Correct Date, Print All Documents from File and Obtain Director's Signature Determine date comment period will end, enter date on Newspaper Notice and Aviso en Español, and Email PRELIMINARY Newspaper Notice for Publication in Bakersfield Californian Pub Date: A Due Date: 3.30 17 Mail/email PRELIMINARY Notice Letter to Applicant (email address: Lance. Ericksen@chevron.com) with the following attachments: √ Application Evaluation √ Newspaper Notice Email PRELIMINARY Public Notice package to EPA COLONICO Email PRELIMINARY Public Notice package to CARB TUNG Le Email PRELIMINARY Newspaper Notice, Aviso en Español and Public Notice package to "webmaster" 11)26-2000 After posted on website, send email with weblink of Newspaper notice, Aviso en Español, and full public notice package to: √ specific [C, S, or N] region and District wide permitting notification listserves (both English and Spanish list serves) √ facility specific distribution list, (AQE – enter email address from PAS facility details notifications tab, if none enter NONE below): none Mail the newspaper notice and aviso en español (NN/AE), or full public notice package (FPNP) to the persons on facility specific distribution list. as follows (entered by AQE, if none, enter NONE below): NN/AE or FPNP Name/address:none Send PRELIMINARY Public Notice package to EDMS

Date Completed [DATE COMPLETED] /By David Torii

Other Special Instructions (please specify):

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Diseree Gomez SAN JOAQUIN VALLEY AIR POLL CONTROL DIST 1990 E. GETTYSBURG AVE. FRESNO, CA 93726

CNS 2980627

#### **COPY OF NOTICE**

Notice Type:

Ad Description

To the right is a copy of the notice you sent to us for publication in the THE BAKERSFIELD CALIFORNIAN. Please read this notice carefully and call us with any corrections. The Proof of Publication will be filed with the County Clerk, if required, and mailed to you after the last date below. Publication date(s) for this notice is (are):

02/28/2017

The charge(s) for this order is as follows. An invoice will be sent after the last date of publication. If you prepaid this order in full, you will not receive an invoice.

NOTICE OF PRELIMINARY DECISION FOR THE PROPOSED ISSUANCE OF EMISSION REDUCTION CREDITS

GPN GOVT PUBLIC NOTICE

Preliminary Public Notice for Chevron USA, Inc., Project #
S-1154368, Bakersfield.

SOURCE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District Solicits public comment on the proposed issuance of Emission Reduction of Property 1974. the proposed issuance of Emission Reduction Credits to Chevron USA, Inc. for the shutdown of two IC engines, in Lost Hills, CA. The quantity of ERCs proposed for banking is 284 Ib-NOx/yr, 1,295 Ib-PM10/yr and 3,744 Ib-CO/yr.

3,744 lb-COJyr.

The analysis of the regulatory basis for this proposed action, Project #S-1154368, is available for public inspection at http://www.valleyair.org/notices/public notices/sidx.ht m and at any District office. For additional information, please contact the District at (661) 392-5500. Written comments on this project must be submitted by March 30, 2017 to ARNAULET, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT. 34946 FLYOVER COURT, BAKERSFIELD, CA BAKERSFIELD, 93308. 2/28/17 CNS-2980627#
THE BAKERSFIELD
CALIFORNIAN

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THE DAILY TRANSCRIPT, SAN DIEGO	(619) 232-3486
THE INTER-CITY EXPRESS, OAKLAND	(510) 272-4747



From:

Diseree Gomez

Sent:

Thursday, February 23, 2017 10:35 AM

To:

Gerardo C. Rios - EPA (SJV\_T5\_Permits@epamail.epa.gov); Tung Le (ttle@arb.ca.gov)

Cc:

'Lance.Ericksen@chevron.com'

Subject:

Preliminary Public Notice for Chevron USA, Inc., Facility # S-55, Project # S-1154368

**Attachments:** 

Prelim.S-1154368.pdf; Newspaper.S-1154368.pdf

Importance:

High

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits to Chevron USA, Inc. for the shutdown of two IC engines, in Lost Hills, CA. The quantity of ERCs proposed for banking is 284 lb-NOx/yr, 1,295 lb-PM10/yr and 3,744 lb-CO/yr.

#### **Diseree Gomez**

Office Assistant II
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave
Fresno, CA. 93726
559.230.6003
Diseree.Gomez@valleyair.org



From:

Microsoft Outlook

To:

Gerardo C. Rios - EPA (SJV\_T5\_Permits@epamail.epa.gov)

Sent:

Thursday, February 23, 2017 10:35 AM

Subject:

Relayed: Preliminary Public Notice for Chevron USA, Inc., Facility # S-55, Project #

S-1154368

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

Gerardo C. Rios - EPA (<u>SJV T5 Permits@epamail.epa.gov</u>) (<u>SJV T5 Permits@epamail.epa.gov</u>) <a href="mailto:SJV T5 Permits@epamail.epa.gov">mailto:SJV T5 Permits@epamail.epa.gov</a>)

Subject: Preliminary Public Notice for Chevron USA, Inc., Facility # S-55, Project # S-1154368

From:

Microsoft Outlook

To:

'Lance.Ericksen@chevron.com'

Sent:

Thursday, February 23, 2017 10:35 AM

Subject:

Relayed: Preliminary Public Notice for Chevron USA, Inc., Facility # S-55, Project #

S-1154368

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

'Lance.Ericksen@chevron.com' (Lance.Ericksen@chevron.com) < mailto:Lance.Ericksen@chevron.com>

Subject: Preliminary Public Notice for Chevron USA, Inc., Facility # S-55, Project # S-1154368

From:

Diseree Gomez

Sent:

Thursday, February 23, 2017 10:46 AM

To:

WebTeam Misa Velasco

Cc: Subject:

valleyair.org update: Preliminary Public Notice for Chevron USA, Inc., Facility #

S-55, Project # S-1154368

**Attachments:** 

Prelim.S-1154368.pdf; Newspaper.S-1154368.pdf; Aviso.S-1154368.pdf

February 23, 2017 (Facility S-55 Project S-1154368) NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits to Chevron USA, Inc. for the shutdown of two IC engines, in Lost Hills, CA. The quantity of ERCs proposed for banking is 284 lb-NOx/yr, 1,295 lb-PM10/yr and 3,744 lb-CO/yr. The comment period ends on March 30, 2017.

#### **Newspaper Notice**

Aviso

Public Notice Package

#### **Diseree Gomez**

Office Assistant II San Joaquin Valley Air Pollution Control District 1990 E. Gettysburg Ave Fresno, CA. 93726 559.230.6003

Diseree.Gomez@valleyair.org



# AVISO DE DECISIÓN PRELIMINAR PARA LA PROPUESTA OTORGACIÓN DE CERTIFICADOS DE REDUCCIÓN DE EMISIONES

POR EL PRESENTE SE NOTIFICA que el Distrito Unificado para el Control de la Contaminación del Aire del Valle de San Joaquín está solicitando comentarios del público para la propuesta emisión de Certificados de Reducción de Emisiones (ERC, por sus siglas en inglés) a Chevron USA, Inc. para el cierre de dos motores de combustión interna, en Lost Hills. La cantidad de ERCs propuestas para almacenar es 284 lb-NOx/año, 1,295 lb-PM10/año y 3,744 lb-CO/año.

El análisis de la base regulatoria para esta acción propuesta, Proyecto #S-1154368, está disponible para la inspección pública en http://www.valleyair.org/notices/public\_notices\_idx.htm y en cualquiera de las oficinas del Distrito. Para más información en Español, por favor comuníquese con el Distrito al (661) 392-5500. Comentarios por escrito acerca de este propuesto permiso inicial deben de ser sometidos antes del 30 de Marzo del 2017 a ARNAUD MARJOLLET, DIRECTOR DEL DEPARTAMENTO DE PERMISOS, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 34946 FLYOVER COURT, BAKERSFIELD, CA 93308.

#### NOTICE OF PRELIMINARY DECISION FOR THE PROPOSED ISSUANCE OF EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits to Chevron USA, Inc. for the shutdown of two IC engines, in Lost Hills, CA. The quantity of ERCs proposed for banking is 284 lb-NOx/yr, 1,295 lb-PM10/yr and 3,744 lb-CO/yr.

The analysis of the regulatory basis for this proposed action, Project #S-1154368, is available for public inspection at http://www.valleyair.org/notices/public\_notices\_idx.htm and at any District office. For additional information, please contact the District at (661) 392-5500. Written comments on this project must be submitted by March 30, 2017 to ARNAUD MARJOLLET, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 34946 FLYOVER COURT, BAKERSFIELD, CA 93308.

From:

Diseree Gomez

Sent:

Tuesday, February 28, 2017 12:03 PM

To:

South (Notices\_of\_Permitting\_Actions-Southern\_Region@lists.valleyair.org); All Regions

(Notices\_of\_Permitting\_Actions-All\_Regions@lists.valleyair.org)

Subject:

Public Notice on Permitting Action S-1154368

The District has posted a new permitting public notice. The public notice can be viewed on our website at: <a href="http://www.valleyair.org/notices/Docs/2017/02-23-17">http://www.valleyair.org/notices/Docs/2017/02-23-17</a> (S-1154368)/Newspaper.pdf

For a list of public notices and public notice packages, please visit our website at: <a href="http://www.valleyair.org/notices/public notices idx.htm#PermittingandEmissionReductionCreditCertificateNotices">http://www.valleyair.org/notices/public notices idx.htm#PermittingandEmissionReductionCreditCertificateNotices</a>

#### **Diseree Gomez**

Office Assistant II
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave
Fresno, CA. 93726
559.230.6003
Diseree Gomez@valleyair.org



From:

Diseree Gomez

Sent:

Tuesday, February 28, 2017 12:03 PM

To:

All Spanish (Avisos\_Sobre\_Acciones\_de\_Permisos-Todos@lists02.valleyair.org)

Subject:

Aviso Publico Sobre Acciones de Permisos S-1154368

El Distrito del Aire a publicado un nuevo aviso público de permiso. El aviso público se puede ver en nuestro sitio de web en: http://www.valleyair.org/notices/Docs/2017/02-23-17 (S-1154368)/Aviso.pdf

Para obtener una lista de avisos públicos y paquetes de avisos públicos, por favor visite nuestro sitio de web en

http://www.valleyair.org/notices/public notices idx.htm#PermittingandEmissionReductionCreditCertificateNotices

Gracias,

#### **Diserce Gomez**

Office Assistant II
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave
Fresno, CA. 93726
559.230.6003
Diseree.Gomez@valleyair.org







#### FEB 2 2 2017

Gregory Pritchett Chevron USA, Inc. PO Box 1392 Bakersfield, CA 93302

Re: Notice of Preliminary Decision – Emission Reduction Credits

Facility Number: S-55

Project Number: S-1154368

Dear Mr. Pritchett:

Enclosed for your review and comment is the District's analysis of Chevron USA, Inc.'s application for Emission Reduction Credits (ERCs) resulting from the shutdown of two IC engines, near Lost Hills, CA. The quantity of ERCs proposed for banking is 284 lb-NOx/yr, 1,295 lb-PM10/yr and 3,744 lb-CO/yr.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice comment period, the District intends to the issue the ERCs. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. David Torii of Permit Services at (661) 392-5620.

Sincerely,

Arhaud Marjollet

Director of Permit Services

AM:dbt

**Enclosures** 

cc: Tung Le, CARB (w/enclosure) via email

cc: Gerardo C. Rios, EPA (w/enclosure) via email

Seyed Sadredin

Executive Director/Air Pollution Control Officer

### San Joaquin Valley Air Pollution Control District **ERC Banking Application Review**

Facility Name: Chevron USA, Inc.

Date: 1/17/17

Mailing Address: PO Box 1392

Engineer: David Torii

Bakersfield, CA 93302

Lead Engineer: Rich Karrs

Contact Person: Lance Ericksen

Telephone: (661) 654-7145

Project #: S-1154368

Received: 12/22/15

Deemed Complete: 1/20/16

ERC #s: S-4659-2, '3 and '4

#### I. Summary

Chevron USA, Inc. (CUSA) shutdown natural gas-fired internal combustion engines (S-55-13 and '14) in December 2015. Subsequently, the facility submitted this application to bank actual emission reductions (AER) resulting from shutdown of the engines. See the Permits to Operate (PTOs) in Appendix B.

The following emission reductions have been found to qualify for ERC banking:

	NO <sub>x</sub> [lb/qtr.]	PM <sub>10</sub> [lb/qtr.]	CO [lb/qtr.]
1st Quarter	72	328	949
2nd Quarter	68	306	885
3rd Quarter	74	337	975
4th Quarter	72	324	935
Total	286	1,295	3,744

#### II. Applicable Rules

Rule 2301 Emission Reduction Credit Banking (1/19/12)

#### III. Location of Reduction

The equipment was located at the Lost Hills Gas Processing facility in the Section 3. Township 27S, Range 21E in Kern County.

#### IV. Method of Generating Reductions

The emission reductions are generated by the permanent shutdown of two 1680 bhp Waukeshia model 7044GSI rich burn natural gas-fired IC engines S-55-13 and '14 powering gas compressors. The engines' workload has been taken over by the facility's electric compression operation (S-55-9).

#### **Equipment Description**

S-55-13: GAS COMPRESSION OPERATION INCLUDING ONE 1680 HP WAUKESHA

MODEL 7044GSI NATURAL GAS-FIRED IC ENGINE WITH DCL

INDUSTRIES MODEL 2-DC76-14 3-WAY CATALYST, AND A AIR/FUEL RATIO CONTROLLER DRIVING A THREE-STAGE GAS COMPRESSOR

S-55-14: GAS COMPRESSION OPERATION INCLUDING ONE 1680 HP WAUKESHA

MODEL 7044GSI NATURAL GAS-FIRED IC ENGINE WITH DCL

INDUSTRIES MODEL 2-DC76-14 3-WAY CATALYST, AND AN AIR/FUEL RATIO CONTROLLER DRIVING A THREE-STAGE GAS COMPRESSOR

#### V. Calculations

#### A. Assumptions and Emission Factors

#### **Assumptions**

- Two-year baseline period selected for calculation of AER is 12/1/2011 through 11/30/2013
- Annual emissions will be rounded to the nearest pound in accordance with District Policy APR-1105 (dated 7/16/1992).
- The engines were fired on public utility commission (PUC) quality natural gas per PTOs.
- Natural Gas Heating Value is 1,020 Btu/scf (typical for PUC gas)

#### **Emission Factors (EF)**

#### PM10 Emissions Factor

No PM10 source tests were performed for the engines; therefore, the PTO's PM10 emission limit/factor was used.

Emissions factors for NOx, and CO were calculated based of the engines' source test data summarized below (see Appendix D for source test data).

		ppmv @15% O2		
	Source Test Date	NOx	CO	
S-55-13	12/15/10	0.16	6.0	
S-55-13	10/11/13	-	6.0	
S-55-13	12/31/14	2.0	44.0	
S-55-14	12/15/10	0.01	11.1	
S-55-14	1/10/13	0.22	1.3	
S-55-14	1/11/13	-	8.0	
	Total	2.39	76.4	
	Ave	0.60	12.7	
	lb/MMBtu	0.0022	0.0289	

The emission factor derivation calculations are shown below:

#### **NOx Emissions Factor**

#### Equation:

NOx (lb. /MMBtu) = ppm x 1/molar volume x MW x Fd x 20.9/ (20.9 - %O2)

#### Where:

ppm = 0.60 ppm @15%O2 engine source test average

molar volume = 379.5 dscf/lbmol @ 14.696 psia, 70 deg. F

MW = molecular weight, lb. /lb-mol

Fd = 8710 dscf/MMBtu for natural gas @ 70 deg F

#### Therefore:

NOx (lb./MMBtu) =  $0.60 \text{ E}-06 \text{ ft3} \times 1/379.5 \text{ dscf/lb-mol} \times 46 \text{ lb./lb-mol} \times 8710 \text{ dscf/MMBtu} \times 20.9/(20.9 - 15.0)$ 

NOx (lb. / MMBtu) = 0.0022

#### **CO Emissions Factor**

#### Equation:

CO (lb. /MMBtu) = ppm x 1/molar volume x MW x Fd x 20.9/ (20.9 - %O2)

#### Where:

ppm = 12.7 ppm @ 15% O2 engine source test average

molar volume = 379.5 dscf/lb. mol @ 14.7 psia, 70 deg. F

MW = molecular weight, lb. /lb-mol

Fd = 8710 dscf/MMBtu for 1020 Btu/scf Natural Gas @ 70 deg F

#### Therefore,

CO (lb. /MMBtu) =  $12.7 \text{ E}-06 \times 1/379.5 \text{ dscf/lb-mol } \times 28 \text{ lb./lb-mol } \times 8710 \text{ dscf/MMBtu} \times 20.9/(20.9 - 15.0)$ 

CO (lb. / MMBtu) = 0.0289

The emissions factors are summarized below:

Natural Gas Emission Factors			
Pollutant Emissions Factors (Ib/MMBtu) Source			
NOx 0.0022 Engine source tests			
PM10	0.01	PTOs	
CO	0.0289	Engine source tests	

#### B. Baseline Period Determination

Pursuant to Rule 2301, Section 3.6, the Baseline Period is the same as defined in Rule 2201, which is:

The two consecutive years of operation immediately prior to the submission date of the complete application; or at least two consecutive years within the five years immediately prior to the submission date of the complete application if determined by the APCO as more representative of normal source operation.

The baseline period from 12/1/2011 to 11/30/2013 was determined to be more representative of normal source operation than the two years immediately prior to submission of the banking application. The baseline period was calculated by determining the normal source operation (NSO) average fuel use for the last nine years; comparing the fuel use for the last five years, and establishing the two year period within the last five years closest to the NSO nine year average as the baseline period. See fuel use and NSO data in Appendix C.

#### C. Baseline Data

The baseline natural gas-use is taken from the annual fuel-use records that have been supplied by the applicant, as posted in the following table.

Fuel Usage (MMBtu)						
Year						
Month/Year	Quarter	2011	2012	2013	Total Quarterly Fuel Use	Average Fuel Used for 2012 and 2013
Jan	1st		12,852	12,925	<del></del>	
Feb	1 <sup>st</sup>		11,586	10,857	72,985	36,493
Mar	1 <sup>st</sup>		11,003	13,762		
Apr	2 <sup>nd</sup>		9,568	12,291	· <u> </u>	
May	2 <sup>nd</sup>		13,250	12,844	68,056	34,028
Jun	2 <sup>nd</sup>		13,406	6,697		
Jul	3 <sup>rd</sup>		13,977	6,029		
Aug	3 <sup>rd</sup>		14,010	12,457	74,936	37,468
Sep	3 <sup>rd</sup>		14,745	13,718		
Oct	4 <sup>th</sup>		14,425	13,352		
Nov	4 <sup>th</sup>		12,758	13,687	71,906	35,953
Dec	4 <sup>th</sup>	10,512	7,172			

#### D. Historical Actual Emissions (HAE)

The HAE from the fuel use is determined by multiplying the average quarterly fueluse by the emission factor presented above.

Criteria Emissions During Baseline Period (lb./qtr.) (HAE)				
	NO <sub>x</sub>	PM10	СО	
1st Quarter	80	365	1,055	
2nd Quarter	75	340	983	
3rd Quarter	82	375	1,083	
4th Quarter	79	360	1,039	

The Air Quality Improvement Deduction (AQID) is 10% of the AER per Rule 2201, Sections 3.6 and 4.12.1, and is summarized as follows:

Air Quality Improvement Deduction (AQID) lb./qtr. (AQID = AER x 10%)				
NOx PM10 CO				
1st Quarter 8 36 105				
2nd Quarter 7 34 98				
3rd Quarter 8 37 108				
4th Quarter	8	36	104	

#### E. Post Project Potential to Emit (PE2)

As discussed above, the subject equipment has been permanently shut down and its PTOs surrendered. Therefore the PE2s for NOx, PM10, and CO are zero.

#### F. Emission Reductions Eligible for Banking

The emission reductions eligible for banking are the difference between the historical actual emissions and the potential to emit after the project minus the air quality improvement deduction.

Criteria Emissions Eligible for Banking (lb. /qtr.)					
NOx PM10 CO					
1st Quarter	72	328	949		
2nd Quarter 68 306 885					
3rd Quarter 74 337 975					
4th Quarter 72 324 935					

baseline period. Therefore, the reductions are real.

#### VI. Compliance

#### Rule 2301 - Emissions Reduction Credit Banking

To comply with the definition of Actual Emissions Reductions (Rule 2201, Section 3.2.1), the reductions must be real, enforceable, quantifiable, permanent, and surplus.

#### A. Real

The emission reductions were generated by the shutdown of two natural gas-fired internal combustion engines powering natural gas compressors. The engines' workload has been taken over by the facility's electric compression operation (S-55-9). Emission reductions have been calculated based on actual heat input to the engines and certified source test results and recognized emission factors for the

#### B. Enforceable

The PTOs for the natural gas-fired internal combustion engines have been surrendered. Operation of the equipment without a valid permit would subject the Permittee to enforcement actions. Therefore, the reductions are enforceable.

#### C. Quantifiable

The reductions are quantifiable since they were calculated from historic fuel use data, source testing data, established and accepted emission factors, permitted limits, and methods according to District Rule 2201. Therefore, the reductions are quantifiable.

#### D. Permanent

The natural gas-fired internal combustion engines have been shut down and the PTOs surrendered. The gas formerly compressed by the IC engines is currently compressed by electric motor-powered compressors.

#### E. Surplus

To be considered surplus, Actual Emission Reductions shall be in excess, at the time the application for an Emission Reduction Credit or an Authority to Construct authorizing such reductions is deemed complete, of any emissions reduction which:

- Is required or encumbered by any laws, rules, regulations, agreements, orders, or
- Is attributed to a control measure noticed for workshop, or proposed or contained in a State Implementation Plan, or
- Is proposed in the APCO's adopted air quality plan pursuant to the California Clean Air Act.

At the time of the shutdown and subsequent permit surrender, the units involved were in compliance with current and any known future requirements of all applicable rules and regulations. Therefore, the reductions are surplus.

#### F. Not used for the Approval of an Authority to Construct or as Offsets

The emission reduction credits generated by the shutdown of natural gas-fired internal combustion engine will not be used for the approval of any Authority to Construct or used as mitigating offsets for approval of other equipment. See section VI.A, above.

#### G. Timely Submittal

Section 4.2.3 of Rule 2301 – Emissions Reduction Credit Banking (1/19/12) states that ERC certificate applications for reductions shall be submitted within 180 days after the emission reduction occurs. The ERC application was received on 12/22/15. The engines ceased operation in December of 2015. Therefore, the application was submitted in a timely fashion.

#### VII. Recommendation

Issue the ERC Certificates in the amount posted in the table below and on the Draft ERC Certificates in Appendix A.

Summary of ERC Amounts (lb)				
	NO <sub>X</sub>	PM <sub>10</sub>	CO	
ERC Number	S-4659-2	S-4659-4	S-4659-3	
1 <sup>st</sup> Quarter	72	328	949	
2 <sup>nd</sup> Quarter	68	306	885	
3 <sup>rd</sup> Quarter	74	337	975	
4 <sup>th</sup> Quarter	72	324	935	
Total Per Year	286	1,295	3,744	

#### **List of Appendixes**

- A. Draft Emission Reduction Credit Certificates
- B. Surrendered PTO
- C. NSO and Historical Fuel Use Data
- D. Engine Source Test Results

# Appendix A Draft ERC Certificates

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308

## **Emission Reduction Credit Certificate**

ISSUED TO:

CHEVRON USA INC LOST HILLS GP

**ISSUED DATE:** 

<DRAFT>

**LOCATION OF** 

**LOST HILLS GAS PLANT** 

**REDUCTION:** 

LOST HILLS, CA

#### For NOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
72 lbs	68 lbs	74 lbs	72 lbs

#### **Method Of Reduction**

[ ] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

1 Other

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director/APCO

Arnaud Marjollet, Director of Permit Services

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308

# **Emission Reduction Credit Certificate**

ISSUED TO:

CHEVRON USA INC LOST HILLS GP

ISSUED DATE:

<DRAFT>

**LOCATION OF** 

LOST HILLS GAS PLANT

REDUCTION:

LOST HILLS, CA

#### For CO Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
949 lbs	885 lbs	975 lbs	935 lbs

#### **Method Of Reduction**

[ ] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

[ ] Other

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director/APCO

Arnaud Marjollet, Director of Permit Services

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308

## **Emission Reduction Credit Certificate**

ISSUED TO:

CHEVRON USA INC LOST HILLS GP

**ISSUED DATE:** 

<DRAFT>

**LOCATION OF** 

LOST HILLS GAS PLANT

REDUCTION:

LOST HILLS, CA

#### For PM10 Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
328 lbs	306 lbs	337 lbs	324 lbs

#### Portion of above PM10 Reductions that is PM2.5:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
100.0%	100.0%	100.0%	100.0%
328 lbs	306 lbs	337 lbs	324 lbs

#### Method Of Reduction

[ ] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

[ ] Other

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director/APCO

Arnaud Marjollet, Director of Permit Services

Appendix B
Surrendered PTOs

**PERMIT UNIT:** S-55-13-11

**EXPIRATION DATE: 08/31/2016** 

SECTION: SW03 TOWNSHIP: 27S RANGE: 21E

**EQUIPMENT DESCRIPTION:** 

GAS COMPRESSION OPERATION INCLUDING ONE 1680 HP WAUKESHA MODEL 7044GSI NATURAL GAS-FIRED IC ENGINE WITH DCL INDUSTRIES MODEL 2-DC76-14 3-WAY CATALYST, AND A AIR/FUEL RATIO CONTROLLER DRIVING A THREE-STAGE GAS COMPRESSOR:

#### PERMIT UNIT REQUIREMENTS

- 1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201]
- 2. The engine shall be equipped with a turbocharger and with an intercooler, [District Rule 2201]
- 3. This IC engine shall be fired on Public Utility Commission (PUC) quality natural gas with a sulfur content not exceeding 1.0 grains/100 scf. [District Rules 2201, 4801]
- 4. Compressor shall be reciprocating type only and shall be in wet gas service only. [District Rules 2201, 4001]
- 5. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
- 6. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.0 lb VOC per day. [District Rule 2201]
- 7. VOC emission rate from all compression operations shall not exceed 0.66 lb/hr from fugitive sources. [District NSR Rule]
- 8. Emissions from the IC engine when operating under load shall not exceed any of the following limits: 11 ppmv-NOx @ 15% O2, 30 ppmv-VOC @ 15% O2, 270 ppmv-CO @ 15% O2, 0.00285 lb-SOx/MMBtu, or 10 lb-PM10/MMscf, [District Rules 2201, 4702]
- 9. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. Source testing emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx. [District Rules 4702]
- 10. Compliance demonstration (source testing) shall be by District witnessed or authorized by District personnel. [District Rule 1081]
- 11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
- 12. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
- 13. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
- 14. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: CHEVRON USA INC LOST HILLS GP Location: LOST HILLS GAS PLANT, LOST HILLS, CA 8-55-13-11: Feb 24 2016 1:08PM - TORID

- 15. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702]
- 16. If either the NOx or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1-hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702]
- 17. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702]
- 18. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702]
- 19. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified in the Inspection and Maintenance (I & M) plan submitted to the District [District Rule 4702]
- 20. The permittee shall update the I & M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I & M plan and must submit an updated I & M plan to the APCO no later than 14 days after the change for approval. The date and time of the change to the I & M plan shall be recorded in the engine's operating log. For modifications, the revised I & M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I & M plan at any time. [District Rule 4702]
- 21. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4702]
- 22. The following test methods shall be used: NOx (ppmv) EPA Method 7E or ARB Method 100, CO (ppmv) EPA Method 10 or ARB Method 100, stack gas oxygen EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) EPA Method 25 or EPA Method 18 referenced as methane, fuel gas sulfur content ASTM D 3246 or double GC for total sulfur content, and EPA Method 21 for fugitive components. [District Rule 1081]
- 23. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801]
- 24. Sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or double GC for H2S and mercaptans. [District Rule 1081]
- 25. Sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate,

Facility Name: CHEVRON USA INC LOST HILLS GP Location: LOST HILLS GAS PLANT, LOST HILLS, CA 8-46-13-11: Feb 24 2018 1,09PM - 10RIO

- 26. Permittee shall maintain an engine operating log, on a monthly basis, which includes the following information; total hours of operation, type and quantity of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance with Rule 4702. [District Rules 1070]
- 27. All records required by this permit shall be maintained for a period of five years and shall be made readily available for District inspection upon request. [District Rule 4702]

SECTION: SW03 TOWNSHIP: 27S RANGE: 21E

#### **EQUIPMENT DESCRIPTION:**

GAS COMPRESSION OPERATION INCLUDING ONE 1680 HP WAUKESHA MODEL 7044GSI NATURAL GAS-FIRED IC ENGINE WITH DCL INDUSTRIES MODEL 2-DC76-14 3-WAY CATALYST, AND AN AIR/FUEL RATIO CONTROLLER DRIVING A THREE-STAGE GAS COMPRESSOR:

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- 3. This IC engine shall be fired on Public Utility Commission (PUC) quality natural gas with a sulfur content not exceeding 1.0 grains/100 scf. [District Rules 2201, 4801]
- 4. Compressor shall be reciprocating type only and shall be in wet gas service only. [District Rules 2201, 4001]
- 5. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702]
- 6. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.0 lb VOC per day. [District Rule 2201]
- 7. VOC emission rate from all compression operations shall not exceed 0.66 lb/hr from fugitive sources. [District 2201 Rule]
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- 12. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: CHEVRON USA INC LOST HILLS GP Location: LOST HILLS GAS PLANT, LOST HILLS, CA 8-55-14-11 Feb 24 2016 1,06PM - TORIO

- 15. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702]
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- 20. The permittee shall update the I & M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I & M plan and must submit an updated I & M plan to the APCO no later than 14 days after the change for approval. The date and time of the change to the I & M plan shall be recorded in the engine's operating log. For modifications, the revised I & M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I & M plan at any time. [District Rule 4702]
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- 23. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801]
- 24. Sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or double GC for H2S and mercaptans. [District Rule 1081]
- 25. Sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2201]

Facility Name: CHEVRON USA INC LOST HILLS GP Location: LOST HILLS GAS PLANT, LOST HILLS, CA 8-55-14-11: Feb 24 2016 1:00PM - TORIO

- 26. Permittee shall maintain an engine operating log, on a monthly basis, which includes the following information; total hours of operation, type and quantity of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance with Rule 4702. [District Rule 1070]
- 27. All records required by this permit shall be maintained for a period of five years and shall be made readily available for District inspection upon request. [District Rule 4702]

# Appendix C NSO and Historical Fuel Use Data

# Normal Source Operation K5 and K6

Month			Total
	MSCF	Blu/scf	MMBlu
Dec-05		1,020	
Jan-06	11,745	1,020	11,980
Feb-06 Mar-06	11,101	1,020	11,323
Apr-06	11,988	1,020	12,228
May-06	11,125 12,052	1,020 1,020	11,348 12,293
Jun-06	11,015	1,020	11,235
Jul-06	8,665	1,020	8,838
Aug-06	12,746	1,020	13,001
Sep-06	12,559	1,020	12,810
Oct-06	12,594	1,020	12,846
Nov-06	13,391	1,020	13,659
Dec-06	10,509	1,020	10,719
Jan-07 .	11,658	1,020	11,891
Feb-07	11,745	1,020	11,980
Mar-07	12,173	1,020	12,416
Apr-07	10,055	1,020	10,256
May-07 Jun-07	7,761	1,020	7,916
Jul-07	10,279 12,445	1,020 1,020	10,485
Aug-07	13,108	1,020	12,694 13,370
Sep-07	12,203	1,020	12,447
Oct-07	11,332	1,020	11,559
Nov-07	12,558	1,020	12,809
Dec-07	11,785	1,020	12,021
Jan-08	12,687	1,020	12,941
Feb-08	12,754	1,020	13,009
Mar-08	10,642	1,020	10,855
Apr-08	11,434	1,020	11,663
May-08	11,045	1,020	11,266
Jun-08	11,071	1,020	11,292
Jul-08 Aug-08	11,777	1,020	12,013
0 - 00	11,012 9, <b>917</b>	1,020	11,232
Sep-08   Oct-08	11,245	1,020 1,020	10,115 11,470
Nov-08	11,119	1,020	11,341
Dec-08	11,683	1,020	11,917
Jan-09	15,049	1,020	15,350
Feb-09	11,246	1,020	11,471
Mar-09	15,125	1,020	15,428
Apr-09	13,874	1,020	14,151
May-09	15,220	1,020	15,524
Jun-09	10,234	1,020	10,439
Jul-09	14,069	1,020	14,350
Aug-09	14,505	1,020	14,795
Sep-09 Oct-09	14,413 13,963	1,020	14,701
Nov-09	13,963	1,020 1,020	14,242
Dec-09	9,899	1,020	13,856 10,097
Jan-10	12,506	1,020	12,756
Feb-10	11,893	1,020	12,131
Mar-10	13,100	1,020	13,362
Apr-10	12,705	1,020	12,959
May-10	13,453	1,020	13,722
Jun-10	12,646	1,020	12,899
Jul-10	12,647	1,020	12,900
Aug-10	12,864	1,020	13,121
Sep-10	12,980	1,020	13,240
Oct-10	12,737	1,020	12,992
Nov-10	12,448	1,020	12,697
Dec-10	13,208	1,020	13,472

Jan-11	13,515	1,020	13,785
Feb-11	12,264	1,020	12,509
Mar-11	13,177	1,020	13,441
Apr-11	12,707	1,020	12,961
May-11	12,951	1,020	13,210
Jun-11	13,042	1,020	13,303
Jul-11	12,888	1,020	13,146
Aug-11	10,732	1,020	10,947
Sep-11	11,013	1,020	11,233
Oct-11	11,017	1,020	11,237
Nov-11	7,372	1,020	7,519
Dec-11	10,306	1,020	10,512
Jan-12	12,600	1,020	12,852
Feb-12	11,359	1,020	11,586
Mar-12	10,787	1,020	11,003
Apr-12	9,380	1,020	9,568
May-12	12,990	1,020	13,250
Jun-12	13,143	1,020	13,406
Jul-12	13,703	1,020	13,977
Aug-12	13,735	1,020	14,010
Sep-12	14,456	1,020	14,745
Oct-12	14,142	1,020	14,425
Nov-12	12,508	1,020	12,758
Dec-12	7,031	1,020	7,172
Jan-13	12,672	1,020	12,925
Feb-13	10,644	1,020	10,857
Mar-13	13,492	1,020	13,762
Apr-13	12,050	1,020	12,291
May-13	12,592	1,020	12,844
Jun-13	6,566	1,020	6,697
Jul-13	5,911	1,020	6,029
Aug-13	12,213	1,020	12,457
Sep-13	13,449	1,020	13,718
Oct-13	13,090	1,020	13,352
Nov-13	13,418	1,020	13,687
Dec-13	13,534	1,020	13,805
Jan-14	14,060	1,020	14,341
Feb-14	12,737	1,020	12,991
Mar-14	13,736	1,020	14,011
Apr-14	13,256	1,020	13,521
May-14	4,516	1,020	4,606
Jun-14	7,179	1,020	7,322
Jul-14	11,343	1,020	11,570
Aug-14	13,345	1,020	13,612
Sep-14	12,974	1,020	19,263
Oct-14	13,907	1,020	14,185
Nov-14	12,651	1,020	12,904
Dec-14	11,456	1,020	11,685
Jan-15	7,509	1,020	7,659
Feb-15	0	1,020	0
Mar-15	0	1,020	0
Apr-15	12,539	1,020	12,790
May-15	15,162	1,020	15,465
Jun-15	13,236	1,020	13,501
Jul-15	11,301	1,020	11,527
Aug-15	10,666	1,020	10,879
Sep-15	12,611	1,020	12,863
Oct-15	11,565	1,020	11,796
Nov-15	10,506	1,020	10,717
Dec-15		1,020	

#### Historical Actual Emissions (HAE)

MSCF Bit/scl MMBtu  13,208 1,020 13,472 13,515 1,020 13,785 12,284 1,020 12,509	NSO
13,515 1,020 13,785 12,284 1,020 12,509	
13,515 1,020 13,785 12,284 1,020 12,509	
12,264 1,020 12,509	
13,177 1,020 13,441	
12,707 1,020 12,981 12,951 1,020 13,210	
13,042 1,020 13,303 12,686 1,020 13,146	
10,732 1,020 10,947	
11,013 1,020 11,233	
11,017 1,020 11,237	
7,372 1,020 7,519	
10,306 1,020 10,512	
12,600 1,020 12,852	
11,359 1,020 11,586	
10,787 1,020 11,003	
9,380 1,020 9,588	
12,990 1,020 13,250	
13,143 1,020 13,406	
13,703 1,020 13,977	
13,735 1,020 14,010	
14,458 1,020 14,745	
14,142 1,020 14,425	
12,508 1,020 12,758 452	
7,031 1,020 7,172 190	
12,672 1,020 12,925 154	
10,844 1,020 10,857 85	
13 492 1 020 13 762 86	
12,050 1,020 12,281 71	
12,592 1,020 12,844 55	
6,566 1,020 6,697 220	
5,911 1,020 6,029 518	
12,213 1,020 12,457 454	
13,449 1,020 13,718 350	
13,090 1,020 13,352 262	
13,418 1,020 13,687 5 74	
13,534 1,020 13,805 132 83	
14,060 1,020 14,341 184 88	
12,737 1,020 12,991 253 112	
13,736 1,020 14,011 378 127	
13,258 1,020 13,521 543 143	
4,516 1,020 4,606 183 96	
7,179 1,020 7,322 71 282	
11,343 1,020 11,570 171 300	
13,345 1,020 13,612 188 232	
12,974 1,020 13,233 251 176	
13,907 1,020 14,185 261 94	
12,661 1,020 12,904 258 55	99
11,456 1,020 11,685 68 88	9
7,509 1,020 7,659 286 57	36
0 1,020 0 739 378	82
0 1,020 0 1,332 684	09
12,539 1,020 12,790 1,291 595	62
15,162 1,020 15,485 1,192 533	66
13,236 1,020 13,501 898 530	327
11,301 1,020 11,527 669 598	607
10,666 1,020 10,879 735 685	810
12,611 1,020 12,863 770 738	503
11,565 1,020 11,796 836 811	559
10,506 1,020 10,717 959 887	593

# Appendix D

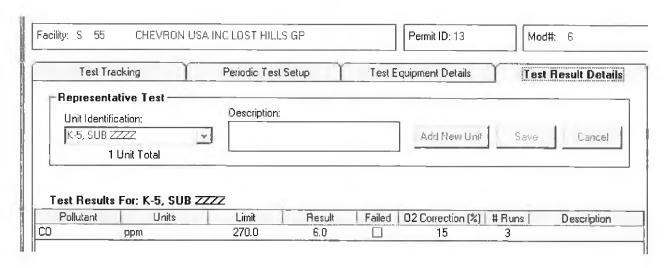
**Engine Source Test Results** 

#### S-55-13

#### 12/15/10

Facility: S 55	CHEVRON USA	INC LOST HILLS	GP		Permit ID: 13	Mod	<b>#</b> : 5
Test Tra	cking	Periodic Test Setup		Test Equipment Details		Test Result Detail	
Payresente Unit Identific CAHN GP I	cation:	Description:			Add New Unit	Save	Cangal
Tast Dassiles	E CAUN CD K	_					
	For: CAHN GP K-		Besult	Failed	N2 Correction (%)	tt Brins	Description
Pollutant	Units	5 Limit 70.0	Result 6.0	Failed	02 Correction (%)	# Runs	Description
Pollutant		Limit		Failed		# Runs   3 3	Description
	Units ppm	Limit 70.0	6.0	Failed		3	Description

#### 10/11/13



## S-55-13

### 12/31/14

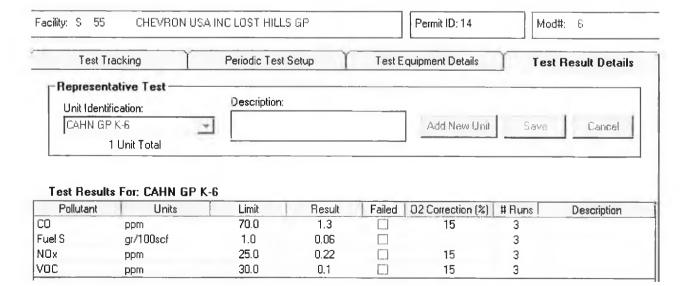
Test Tr	acking	F	Periodic Test :	Setup T	Test E	quipment Details	Test	Result Details
Represent	ative Test —		_					
Unit Identil	fication:		Description:			1		
CAHN GF	° K-5	*				Add New Unit	Save	Carrost
· .	1 Unit Total	-						
Test Result	s For: CAHN G	P K-5	Limit	Result	Failed	02 Correction (%)	# Runs l	Description
Pollutant	s For: CAHN G	P K-5	Limit 70.0	Result 44.0	Failed	02 Correction (%)     15	#Runs	Description
Pollutant O	s For: CAHN G	P K-5			Failed			Description
Pollutant O uel S	s For: CAHN G Units	P K-5	70.0	44.0	Failed			Description
	s For: CAHN G Units ppm gr/100scf	1	70.0 1.0	44.0 0.06	Failed	15	3	Description

### S-55-14

12/15/10

acility: 8 55	CHEVRON USA	INC LOST HILLS	5 GP		Permit ID: 14	Mo	d#: 5 
Test Ti	racking Y	Periodic Test	Setup	Test E	quipment Details	Tes	t Result Details
Represent	fication:	Description:			Add New Unit	Save	Cancel
	1 Unit Total						
Test Result	s For: CAHN GP K-I						
Test Result Poliutant	-	Limit	Result	Failed	02 Correction (%)		Description
Test Result Pollutant	s For: CAHN GP K-I		Result	Failed	02 Correction (%)	# Auns	Description
Test Result Pollutant	s For: CAHN GP K-I Units	Limit		Failed	A		Description
Test Result	s For: CAHN GP K-1 Units	Limit 70.0	11.1	Failed	A		Description

1/10/13



## S-55-14

### 1/11/13

acility: S 55	CHEVRON US	A INC LOST HILLS	6 GP		Permit ID: 14	Mo	d#: 6 
Test Track	king	Periodic Test	Setup	Test E	quipment Details	Tes	t Result Details
Unit Identifica	tion:	Description:			Add New Unit	Save	Cancel
Test Results F	or: K-6, SUB Z	ZZZ	Result	Failed	02 Correction (%)	# Runs	Description
0	ppm	270.0	8.0		15	3	Description

## PROJECT ROUTING FORM

FACILITY NAME:	ACILITY NAME: Chevron USA Inc Lost Hills Gp							
FACILITY ID:	S-55	PRO	PROJECT NUMBER: S-1154368					
PERMIT #'s:								
DATE RECEIVED:	December 2	22, 2015						
PRELIMINARY	REVIEW	ENGR	DATE	SUPR	DATE			
A. Application Deemed	Incomplete							
Second Information	Letter							
B. Application Deemed	Complete	DA	1/19/16	Q	1/20/16			
C. Application Pending	Denial			-0				
D. Application Denied								
		31						
ENGINEERING	EVALUATION			INITIAL	DATE			
E. Engineering Evaluation								
Project triggering Fe     [ ] Yes AND Inf     ] No (not Fed Manual Control of the control o	ormation entered	ification: into database (AirNet)			10/31/16			
increase exceeds 2	30 metric tons/ye	rposes AND the project ( ar: in database (AirNet)	GHG emissions	DBU	2/24/15			
F. Supervising Engineer				RWIC	11/4/16			
Direct Convert [ G. Compliance Division	Yes [ ] No Approval [ ]	Not Required			11/1/10			
H. Applicant's Review of	f Draft Authority to	o Construct Completed	N/A					
[ ] 3-day Review [ ] 10-day Review [< ] No Review Re	V		. ,,,,					
I. Permit Services Region	onal Manager Ap	proval		cf	11/8/16			
DIRECTOR RE	VIEW [ ] Not	Required		INITIAL	DATE			
J. Preliminary Approval	to Director							
K. Final Approval to Dire	ector							

From:

David Torii

Sent:

Monday, April 3, 2017 6:37 AM

To:

**OA-PublicNotices** 

Subject:

ERC Banking Project 1154368, S-55

Attachments:

Torii 1154368final-public\_notice\_erc\_no\_comments\_(OC\_8-4-14).doc

OA Group,

Attached are documents requiring Director signature. Please let me know if you have questions.

Thanks

David Torii
Permit Services Division
San Joaquin Valley Air Pollution Control District
34946 Flyover Court
Bakersfield, CA 93308-9725
661-392-5620
Fax 661-392-5585



Make one change for clean air!

From:

David Torii

Sent:

Thursday, December 15, 2016 6:53 AM

To:

Misa Velasco

Subject:

RE: ERC Banking Project 1154368, S-55

Hi Misa,

I just wanted to touch bases with you regarding what became of this public notice.

### Thanks

David Torii Permit Services Division San Joaquin Valley Air Pollution Control District 34946 Flyover Court Bakersfield, CA 93308-9725 661-392-5620 Fax 661-392-5585



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From: Misa Velasco

Sent: Tuesday, November 15, 2016 2:56 PM

To: David Torii; OA-PublicNotices

Subject: RE: ERC Banking Project 1154368, S-55

Hi David,

Your request has been received and will be processed.

Thank you!!

Artemiza Velasco Senior Office Assistant San Joaquin Valley Air Pollution Control District 559-230-6009



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Service Teamwork Attitude Respect

From: David Torii

Sent: Tuesday, November 15, 2016 1:39 PM

To: OA-PublicNotices

Subject: ERC Banking Project 1154368, S-55

OA Group,

Attached are documents requiring Director signature. Please let me know if you have questions.

### Thanks

David Torii, P.E.
Permit Services Division
San Joaquin Valley Air Pollution Control District
34946 Flyover Court
Bakersfield, CA 93308-9725
661-392-5620
Fax 661-392-5585



Males and above for all an air

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From:

David Torii

Sent:

Thursday, October 27, 2016 12:32 PM

To:

'LanceEricksen '

Subject:

1154368, S-4659 ERC Banking Amounts

Lance,

As requested during our phone conversation this AM, below are the bankable emissions for the above project.

Please let me know if you have questions.

Thanks

David Torii Permit Services Division San Joaquin Valley Air Pollution Control District 34946 Flyover Court Bakersfield, CA 93308-9725 661-392-5620 Fax 661-392-5585

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Criteria Emissions Eligible for Banking (lb. /qtr.)					
	NOx	PM10	CO		
1st Quarter	72	328	949		
2nd Quarter	67	306	885		
3rd Quarter	74	337	975		
4th Quarter	71	324	935		

From:

Beck, Daniel L. <beckdl@chevron.com>

Sent:

Wednesday, August 10, 2016 9:08 AM

To:

David Torii

Cc:

Ericksen, Lance; Ockert, Todd J

Subject:

ERC Banking Project S-1154368

David – I received word from the Lost Hills field that the two engines will not be re-started and will be removed. A permit cancellation letter should be sent to the APCD in the next couple of weeks.

I know the last communication between you and Lance was to put the project on hold until the issue of permanent cancellation could be resolved. Please deem it resolved and the project can be processed. Also, please let me know if you need anything from me.

**Thanks** 

### Daniel L. Beck, P.E.

HES Advisor – Air Permitting Health, Environment and Safety San Joaquin Valley Business Unit

### **Chevron North America Exploration and Production**

9525 Camino Media, C1047 Bakersfield, CA 93311 Office: 661 654 7141

Cell: 661 282 6157

e-mail: beckdl@chevron.com

From: Ericksen, Lance <Lance.Ericksen@chevron.com>

**Sent:** Thursday, March 31, 2016 11:24 AM

To: David Torii

**Subject:** Banking Project for Lost Hills Engines K-5 and K-6 - Project S-1154368

These engines have been shutdown since the first of the year. Chevron is currently evaluating future need for IC engines at the compression station. This evaluation may take several more months. Please put the banking project for these engines on hold until we have completed our review.

Thank you for your assistance.

Lance Ericksen
Health, Environment, and Safety Specialist/Engineer

Chevron North America Exploration and Production Company San Joaquin Valley Business Unit (SJVBU)

9525 Camino Media (C-1035) Bakersfield, CA 93311 Office: (661) 654-7145 Fax: (661) 654-7606

Lance.Ericksen@chevron.com

CONFIDENTIALITY NOTICE: This message may contain confidential information that is legally privileged and is intended only for the use of the parties to whom it is addressed. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or use of any information in this message is strictly prohibited. If you have received this message in error, please notify me at (661) 654-7145 or reply by e-mail. Thank you.

### **TELEPHONE/MEETING CONVERSATION**

Date: 3/7/16

Time:

With: Lance Ericksen

Title: Applicant

**Telephone Number**: 661-654-7145

Company: CUSA Facility ID: S-55

Project No.: 1154368

APCD Representative: David Torii

Subject:

Title: AQE

### **SUMMARY OF CONVERSATION:**

DT: Can you explain what changes at/to the gas plant have occurred that make it possible to shut down the two IC engine-powered compressors?

LE: The facility's electric-powered compressors will take over the workload of the IC engine-powered compressors. No increase in the flare's usage is expected.

We may replace engines S-55-13 and '14 in the future since it is cheaper for us to operate natural gas-fired IC engines than electric motors.

We will surrender the S-55-13 and '14 PTOs before issuance of the ERCs but prefer to keep them in the event it is decided to replace the engines with replacement IC engines that may be able to enjoy some NSR benefits.

From:

David Torii

Sent:

Monday, March 7, 2016 12:56 PM

To:

Leonard Scandura

Subject:

Translation Request 1154368, S-55

Attachments:

1154368prelim-public\_notice\_erc\_(OC\_9-10-14).doc

Leonard,

Attached is a public notice requiring translation into Spanish.

### **Thanks**

David Torii
Permit Services Division
San Joaquin Valley Air Pollution Control District
34946 Flyover Court
Bakersfield, CA 93308-9725
661-392-5620
Fax 661-392-5585

■ 🔁 🗸 🕶 HEALTHY AIR LIVING

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From:

David Torii

Sent:

Monday, February 29, 2016 1:15 PM

To:

'Ericksen, Lance'

Subject:

RE: ERC Banking Project 1154368, S-55

Lance.

Also, can you explain what changes at/to the gas plant have occurred that make it possible to shut down the two IC engine-powered compressors.

Thanks

David Torii
Permit Services Division
San Joaquin Valley Air Pollution Control District
34946 Flyover Court
Bakersfield, CA 93308-9725
661-392-5620
Fax 661-392-5585



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From: Ericksen, Lance [mailto:Lance.Ericksen@chevron.com]

Sent: Wednesday, February 10, 2016 7:29 AM

To: David Torii

Subject: RE: ERC Banking Project 1154368, S-55

I haven't had time to go over this in detail hopefully I can look at it Friday.

Thanks for your patience.

From: David Torii [mailto:David.Torii@valleyair.orq]

Sent: Tuesday, February 09, 2016 9:22 AM

To: Ericksen, Lance

Subject: [\*\*EXTERNAL\*\*] RE: ERC Banking Project 1154368, S-55

Lance,

Have you made a decision regarding the below email?

Thanks

David Torii Permit Services Division San Joaquin Valley Air Pollution Control District 34946 Flyover Court Bakersfield, CA 93308-9725 661-392-5620 Fax 661-392-5585



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From: David Torii

1.

Sent: Thursday, January 28, 2016 7:55 AM

To: LanceEricksen

Subject: ERC Banking Project 1154368, S-55

Lance.

Attached is the NOx and CO source test data I used to calculate the AER for the ERC banking application for the shutdown of two S-55 engines. Plear let me know if you have objections.

### **Thanks**

David Torii Permit Services Division San Joaquin Valley Air Pollution Control District 34946 Flyover Court Bakersfield, CA 93308-9725 661-392-5620 Fax 661-392-5585



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JAN 2 0 2016

Gregory Pritchett Chevron USA Inc Lost Hills Gp PO Box 1392 Bakersfield, CA 93302

Re: Notice of Receipt of Complete Application - Emission Reduction Credits

**Banking** 

Facility Number: S-55

Project Number: S-1154368

Dear Mr. Pritchett:

The District has completed a preliminary review of your application for Emission Reduction Credits (ERCs) Banking resulting from the shutdown of two IC engine/compressors at the Lost Hills Gas Plant, Lost Hills.

Based on this preliminary review, the application appears to be complete. However, during processing of your application, the District may request additional information to clarify, correct, or otherwise supplement, the information on file.

Pursuant to District Rule 3060, your application may be subject to an hourly Engineering Evaluation Fee. If the applicable fees exceed the submitted application filing fee, the District will notify you at the conclusion of our review.

Thank you for your cooperation. Should you have any questions, please contact Mr. David Torii at (661) 392-5620.

Sincerely,

Arnaud Marjollet

**Director of Permit Services** 

Leonard Scandura, P.E. Permit Services Manager

AM: dbt

Seyed Sadredin

Executive Director/Air Pollution Control Officer



RECEIVED Manager - Health, Environment, and Safety
DEC 2 2 2015

SJVAPCD Southern Region San Joaquin Valley SBU Chevron North America Exploration and Production P.O. Box 1392 Bakersfield, CA 93302 Tel 661 654 7038 Fax 661 654 7133 mbje@chevron.com

December 22, 2015

Mr. Leonard Scandura Permit Services Manager San Joaquin Valley APCD 34946 Flyover Court Bakersfield, CA 93308

RE: Emission Reduction Credit Banking Application Shutdown of Lost Hills Engines K5 and K6

Dear Mr. Scandura:

Chevron U.S.A. Inc. (CUSA) has shutdown Lost Hills Engines K5 and K6 (S-55-13 and '14). CUSA is therefore requesting to bank the emission reductions. Additional details are included with the attached proposal, which is available in electronic format upon request. Enclosed please find the necessary application form and a \$832.00 check for application filing fee.

If you have any questions or require additional information please contact Mr. Lance Ericksen of my staff, at either (661) 654-7145.

Sincerely,

regory E. Pritchett

# San Joaquin Valley Air Pollution Control District

DEC 2 2 2015

## **Application for**

[X] EMISSION REDUCTION CREDIT (ERC)

[ ] CONSOLIDATION OF ERC CERTIFICATES Southern Region

1. ERC 7	O BE ISSUED TO: Chevro	n U.S.A. Inc.					Facility ID: S-55 (if known)
2. MAILING	ADDRESS: Street/P.O. Box: City:	P.O. Box 1392 Bakersfiled		State:	CA	Zip Code: 9330	)2
Street: Los	NOF REDUCTION: Hills Oilfield Hills Gas Production Fa  TOWNSHIP 27				4. DATE	E OF REDUCT	TION: December 2015
5. PERMIT N	O(S): C-2885-57				EXISTING	G ERC NO(S):	
[X ] SI	ION: Shutdown of A Fee a	TROFIT [	] PROCESS CHA	NGE	[ ]	OTHER	
7. REQUESTI	CD ERCs: (In pounds per caler	dar quarter except CO2e)	)		+		•
	VOC	NOx	CO	PM <sub>10</sub>		SOx	Other
1 <sup>st</sup> Q	tr	172	1971	1151			
2 <sup>nd</sup> (	tr	190	1838	1270			
3 <sup>rd</sup> Q		208	2023 1941	1163			
CO <sub>2</sub>		metric ton/yr			1		
8. SIGNATOR	E OF APPLICANT:			PRINT TITI Health Env		PLICANT: t, and Safety	
9. TYPE OR P	RINT NAME OF APPLICAN	T:			DATE:		TELEPHONE NO:
Gregory E	. Pritchett						
FOR APCD USE (	ONLY:		CHEV	PON A	JA E	(PLORAT	TON PROD CO
	DATE STAMP	FILING FEE RECEIVED: \$_			C	大# Z	24311898
		DATE PAID: /	2/22 S-11543	368 546	OT PTS/ FIX	S-5	5
		I ROJECT NO.: _		FAC	LIII ID.	•	

# ERC APPLICATION EVALUATION

Project #:

Engineer: Date:

Facility Name:

Chevron USA, Inc. P.O. Box 1392

Mailing Address:

Bakersfield, CA 93302

Contact Person: Telephone:

Lance Ericksen (661) 654-7145

Date Application Received: Date Deemed Complete:

### I. Summary:

Chevron USA, Inc. (CUSA) proposes to bank emission reduction credits from the shutdown of Lost Hills Engines K5 and K6 permitted as S-55-13 and S-5-14.

CUSA requests emission reduction credit (ERC) certificates for the following emissions:

lb/qtr	NOx	CO	PM10
Bankable Q1	172	1971	1151
Bankable Q2	190	1838	1270
Bankable Q3	174	2023	1163
Bankable Q4	208	1941	1389

### II. Applicable Rules:

Rule 2201 New and Modified Source Review Rule 2301 Emission Reduction Credit Banking

### III. Location of Reduction:

The engine location is:

Sec 3 T27S R21E Lost Hills Gas Processing Facility

### IV. Method of Generating Reduction:

The natural gas fueled engines were removed from service in December 2015 and are scheduled for removal.

### V. ERC Calculations:

### A. Assumptions and Emission Factors

Emission reductions were calculated using measured and recorded heat input values and actual source test results for the engines. Recorded fuel use (MCF or thousand cubic foot) and calculated heat input (MMBtu or million British thermal unit), are tabulated and presented in Appendix A.

Emission factors for NOx and CO are based on source tests for the engines. Source test summary pages from certified source tests performed for the engine, within the 5 year baseline period, are included in Appendix B. The engines were equipped with non-selective catalytic reduction and were in compliance with Table 2 Section 1.d. of Rule 4702.

The emission factor for PM10 is based on AP-42 section 3.2 Natural Gas-fired Reciprocating Engines. Excerpts from AP-42 are included in Appendix C.

### B. Baseline Period Determination and Data

CUSA requests a baseline period of the two-year period most representative of normal source operation (NSO) for the engine. To determine NSO operating records were reviewed for the period January 2006 through November 2015. The annual average heat input the engines was determined for the period of engine operation and compared to the two-year, three-year and four-year annual average operation on a month-by-month basis for the engines. The period with the smallest difference compared with NSO was selected as the baseline. Details of NSO and baseline period are included in Appendix A.

### C. Historical Actual Emissions

Historical Actual Emission (HAE) calculations were performed for each calendar quarter of the baseline period. HAEs for the engine are presented in Appendix A.

### D. Actual Emissions Reductions

Actual Emission Reductions (AER) are calculated pursuant to Rule 2201, Section 4.12:

AER = HAE - PE2.

For this project, PE2 is zero, therefore, AER = HAE

AER is included in Appendix A and summarized in the following table:

lb/qtr	NOx	CO	PM10
Q1	191	2190	1279
Q2	211	2042	1411
Q3	193	2248	1292
Q4	231	2157	1543

### E. Air Quality Improvement Deduction

In accordance with District Rule 2201, Section 4.12.1, AER shall be discounted by 10% prior-to banking, known as the Air Quality Improvement Deduction (AQID). AQID is summarized in the following table:

lb/qtr	NOx	CO	PM10
AQID Q1	19	219	128
AQUID Q2	21	204	141
AQUID Q3	19	225	129
AQUID Q4	23	216	154

### F. Increased in Permitted Emissions (IPE)

The engines have been shutdown. An IPE is not associated with this project.

### G. Bankable Emissions Reductions

Bankable emission reductions are summarized in the following table:

lb/qtr	NOx	СО	PM10
Bankable Q1	172	1971	1151
Bankable Q2	190	1838	1270
Bankable Q3	174	2023	1163
Bankable Q4	208	1941	1941

### VI. Compliance:

### A. Real

Emission reductions have been calculated based on actual heat input to the engines and certified source test results for the baseline period. Therefore, the reductions are real.

### B. Enforceable

The engines have been removed from service, no further emissions will occur without submittal of a new permit application, subject to the requirements of Rule 2201. Therefore, the reductions are enforceable.

1

### C. Quantifiable

Emissions from the engines have been calculated based on actual heat input measurements and certified source test results. Therefore, the reductions are quantifiable.

### D. Permanent

The engines have been removed from service, no further emissions from the engines will occur without submittal of a new permit application, subject to the requirements of Rule 2201. CUSA does not operate any other IC engines at the Lost Hills Gas Compression Source. Therefore, the reductions are permanent.

### E. Surplus

Emission credits for NO2 are consistent with the most stringent applicable level in Rule 4702. No other emission reductions in this application were mandated by existing rules or are contained in any existing or proposed agreement, nor used to offset onsite increases in potential to emit.

Actual emissions were below permit limits, below applicable Rule requirements. Therefore, the reductions are surplus.

### F. Was application timely?

The engines were removed in December 2015 the Permits to Operate will be surrendered once the engines are removed. This application was filed in a timely manner.

### VII. Recommendation:

Issue Emission Reduction Credits be issued as indicated above.

# APPENDIX A DATA TABLES

# Normal Source Operation K5 and K6

Month	[		Total
	MSCF	Btu/scf	MMBtu
Dec-05	44.745	1,020	44.000
Jan-06	11,745	1,020	11,980
Feb-06 Mar-06	11,101 11,988	1,020 1,020	11,323 12,228
Apr-06	11,125	1,020	11,348
May-06	12,052	1,020	12,293
Jun-06	11,015	1,020	11,235
Jul-06	8,665	1,020	8,838
Aug-06	12,746	1,020	13,001
Sep-06	12,559	1,020	12,810
Oct-06	12,594	1,020	12,846
Nov-06	13,391	1,020	13,659
Dec-06 Jan-07	10,509 11,658	1,020 1,020	10,719 11,891
Feb-07	11,745	1,020	11,980
Mar-07	12,173	1,020	12,416
Apr-07	10,055	1,020	10,256
May-07	7,761	1,020	7,916
Jun-07	10,279	1,020	10,485
Jul-07	12,445	1,020	12,694
Aug-07	13,108	1,020	13,370
Sep-07	12,203	1,020	12,447
Oct-07 Nov-07	11,332	1,020	11,559 12,809
Dec-07	12,558 11,785	1,020 1,020	12,009
Jan-08	12,687	1,020	12,941
Feb-08	12,754	1,020	13,009
Mar-08	10,642	1,020	10,855
Apr-08	11,434	1,020	11,663
May-08	11,045	1,020	11,266
Jun-08	11,071	1,020	11,292
Jul-08	11,777	1,020	12,013
Aug-08	11,012	1,020	11,232
Sep-08   Oct-08	9,917	1,020 1,020	10,115
Nov-08	11,245 11,119	1,020	11,470 11,341
Dec-08	11,683	1,020	11,917
Jan-09	15,049	1,020	15,350
Feb-09	11,246	1,020	11,471
Mar-09	15,125	1,020	15,428
Apr-09	13,874	1,020	14,151
May-09	15,220	1,020	15,524
Jun-09	10,234	1,020	10,439
Jul-09 Aug-09	14,069	1,020	14,350
Sep-09	14,505 14,413	1,020 1,020	14,795 14,701
Oct-09	13,963	1,020	14,242
Nov-09	13,584	1,020	13,856
Dec-09	9,899	1,020	10,097
Jan-10	12,506	1,020	12,756
Feb-10	11,893	1,020	12,131
Mar-10	13,100	1,020	13,362
Apr-10	12,705	1,020	12,959
May-10	13,453	1,020	13,722
Jun-10 Jul-10	12,646 12,647	1,020	12,899
Aug-10	12,647 12,864	1,020 1,020	12,900 13,121
Sep-10	12,980	1,020	13,240
Oct-10	12,737	1,020	12,992
Nov-10	12,448	1,020	12,697
Dec-10	13,208	1,020	13,472
	•	•	. ' '

Jan-11	13,515	1,020	13,785
Feb-11			12,509
	12,264	1,020	
Mar-11	13,177	1,020	13,441
Apr-11	12,707	1,020	12,961
May-11	12,951	1,020	13,210
Jun-11	13,042	1,020	13,303
		-	
Jul-11	12,888	1,020	13,146
Aug-11	10,732	1,020	10,947
Sep-11	11,013	1,020	11,233
Oct-11	11,017	1,020	11,237
Nov-11	7,372	1,020	7,519
Dec-11	10,306	1,020	10,512
Jan-12	12,600	1,020	12,852
Feb-12	11,359	1,020	11,586
Mar-12	10,787	1,020	11,003
Apr-12	9,380	1,020	9,568
May-12	12,990	1,020	13,250
Jun-12	13,143	1,020	13,406
Jul-12	13,703	1,020	13,977
Aug-12	13,735	1,020	14,010
Sep-12	14,456	1,020	14,745
Oct-12	14,142	1,020	14,425
Nov-12	12,508	1,020	12,758
Dec-12	7,031	1,020	7,172
Jan-13	12,672	1,020	12,925
Feb-13	10,644	1,020	10,857
Mar-13			
	13,492	1,020	13,762
Apr-13	12,050	1,020	12,291
May-13	12,592	1,020	12,844
Jun-13	6,566	1,020	6,697
Jul-13	5,911	1,020	6,029
Aug-13	12,213	1,020	12,457
Sep-13	13,449	1,020	13,718
Oct-13	13,090	1,020	13,352
Nov-13	13,418	1,020	13,687
Dec-13	13,534	1,020	13,805
Jan-14	14,060	1,020	14,341
Feb-14	12,737	1,020	12,991
Mar-14	13,736	1,020	14,011
Apr-14	13,256	1,020	13,521
May-14	4,516	1,020	4,606
Jun-14	7,179	1,020	7,322
Jul-14	11,343	1,020	11,570
Aug-14	13,345	1,020	13,612
Sep-14	12,974	1,020	13,233
Oct-14	13,907	1,020	14,185
Nov-14	12,651	1,020	12,904
Dec-14	11,456	1,020	11,685
Jan-15	7,509	1,020	7,659
Feb-15	0	1,020	0
Mar-15	0	1,020	0
Apr-15	12,539	1,020	12,790
		*	
May-15	15,162	1,020	15,465
Jun-15	13,236	1,020	13,501
Jul-15	11,301	1,020	11,527
Aug-15	10,666	1,020	10,879
Sep-15			-
•	12,611	1,020	12,863
Oct-15	11,565	1,020	11,796
Nov-15	10,506	1,020	10,717
Dec-15		1,020	

### Historical Actual Emissions (HAE)

Month	C-2885-57	C-2885-57	Total	24 Month Block Differences vs NSO	36 Month Block Differences vs NSO	48 Month Block Differences vs NSO	PM10 EF*	PM10 lb	Month
	MSCF	Btw/scf	MMBtu				*AP-42		
Dec-10	13,208	1,020	13,472						Dec-10
Jan-11	13,515	1,020	13,785						Jan-11
Feb-11	12,264	1,020	12,509						Feb-11
Mar-11	13,177	1,020	13,441						Mar-11
Apr-11	12,707	1,020	12,961						Apr-11
May-11	12,951	1,020	13,210						May-11
Jun-11	13,042	1,020	13,303						Jun-11
Jul-11	12,888	1,020	13,146						Jul-11
Aug-11	10,732	1,020	10,947						Aug-11
Sep-11	11,013	1,020	11,233						Sep-11
Oct-11	11,017	1,020	11,237						Oct-11
Nov-11	7,372	1,020	7,519						Nov-11
Dec-11	10,306	1,020	10,512				0.01941	204	Dec-11
Jan-12	12,600	1,020	12,852				0.01941	204	Jan-12
Feb-12	11,359	1,020	11,586				0.01941	249	Feb-12
Mar-12	10,787	1,020	11,003	i			0.01941	225	Mar-12
Apr-12	9,380	1,020	9,568				0.01941	214	Apr-12
May-12	12,990	1,020	13,250				0.01941	186	May-12
Jun-12	13,143	1,020	13,406				0.01941	257	Jun-12
Jul-12	13,703	1,020	13,977				0.01941	260	Jul-12
Aug-12	13,735	1,020	14,010				0.01941	271	
Sep-12	14,456	1,020	14,745				0.01941	272	Aug-12
Oct-12	14,142	1,020	14,425				0.01941		Sep-12
Nov-12	12,508	1,020	12,758	452				286	Oct-12
Dec-12	7,031	1,020	7,172	190			0.01941	280	Nov-12
Jan-13	12,672	1,020	12,925	154			0.01941 0.01941	248	Dec-12
Feb-13	10,644							139	Jan-13
Mar-13	13,492	1,020	10,857	99			0.01941	251	Feb-13
Apr-13			13,762				0.01941	211	Mar-13
	12,050	1,020	12,291	71			0.01941	267	Apr-13
May-13	12,592	1,020	12,844	55			0.01941	239	May-13
Jun-13	6,566	1,020	6,697	220			0.01941	249	Jun-13
Jul-13	5,911	1,020	6,029	516			0.01941	130	Jul-13
Aug-13	12,213	1,020	12,457	454			0.01941	117	Aug-13
Sep-13	13,449	1,020	13,718	350			0.01941	242	Sep-13
Oct-13	13,090	1,020	13,352	262	24	1	0.01941	266	Oct-13
Nov-13	13,418	1,020	13,687	5	74	1	0.01941	259	Nov-13
Dec-13	13,534	1,020	13,805	132	83	Į			Dec-13
Jan-14	14,060	1,020	14,341	194	98	1			Jan-14
Feb-14	12,737	1,020	12,991	253	112				Feb-14
Mar-14	13,736	1,020	14,011	378	127				Mar-14
Apr-14	13,256	1,020	13,521	543	143				Apr-14
May-14	4,516	1,020	4,606	183	96				May-14
Jun-14	7,179	1,020	7,322	71	262				Jun-14
Jul-14	11,343	1,020	11.570	171	306				Jul-14
Aug-14	13,345	1,020	13,612	188	232				Aug-14
Sep-14	12,974	1,020	13,233	251	176				Sep-14
Oct-14	13,907	1,020	14,185	261	94				Oct-14
Nov-14	12,651	1.020	12,904	255	55	99			Nov-14
Dec-14	11,456	1,020	11,685	66	88	9			Dec-14
Jan-15	7.509	1,020	7,659	286	57	36			Jan-15
Feb-15	0	1,020	0	738	378	82			Feb-15
Mar-15	0	1,020	0	1,312	684	99			Mar-15
Apr-15	12,539	1,020	12,790	1,291	595	62			Apr-15
May-15	15,162	1,020	15,465	1.182	533	66			May-15
Jun-15	13,236	1,020	13,501	898	530	327			Jun-15
Jul-15	11,301	1.020	11,527	669	598	607			Jul-15
Aug-15	10,666	1,020	10,879	735	685	610			Aug-15
Sep-15	12,611	1,020	12,863	770	738	563			Sep-15
Oct-15	11,565	1,020	11,796	835	811	559			Oct-15
Nov-15	10,506	1.020	10,717	959	867	593			Nov-15

 NSO Average MMBtu/Mont
 12,000

 December 2011 to November 2013
 MMBtu/Month
 11,995

Period

			PM10
Quarter	MMSCF	MMBtu	lb/qtr
First	71,554	72,985	1,279
Second	66,721	68.056	1,411
Third	73,467	74,936	1,292
Fourth	70,495	71,906	1,543

### Historical Actual Emissions (HAE)

Month			Total	24 Month Block Differences vs NSO	36 Month Block Differences vs NSO	48 Month Block Differences vs NSO	NOx EF*	CO EF*	NOx lb	СО ІЬ	Month
	MSCF	Btu/scf	MMBtu				*Average Sou	rce Tests			
) a a 40	10 000	1.000	40 470								
Dec-10	13,208	1,020	13,472	1							Dec-1
lan-11	13,515	1,020	13,785								Jan-1
eb-11	12,264	1,020	12,509								Feb-1
/lar-11	13,177	1,020	13,441	1							Mar-1
Apr-11	12,707	1,020	12,961	1							Apr-11
fay-11	12,951	1,020	13,210	1							May-1
lun-11	13,042	1,020	13,303								Jun-1
Jul-11	12,888	1,020	13,146								Jul-11
lug-11	10,732	1,020	10.947								Aug-1
Sep-11	11,013	1,020									
			11,233								Sep-1
Oct-11	11,017	1,020	11,237								Oct-1
lov-11	7,372	1,020	7,519								Nov-1
ec-11	10,306	1,020	10,512				0.0029	0.03	30	315	Dec-1
an-12	12,600	1,020	12,852				0.0029	0.03	30	386	Jan-1
eb-12	11,359	1,020	11,586				0.0029	0.03	37	348	Feb-1
Aar-12	10,787	1,020	11,003				0.0029	0.03	34	330	Mar-1
Apr-12	9,380	1,020	9,568				0.0029	0.03	32	287	Apr-1
1ay-12	12,990	1,020	13.250								
							0.0029	0.03	28	398	May-1
un-12	13,143	1,020	13,406				0.0029	0.03	38	402	Jun-1
Jul-12	13,703	1,020	13,977				0.0029	0.03	39	419	Jul-1
ug-12	13,735	1,020	14,010				0.0029	0.03	41	420	Aug-1
ep-12	14,456	1,020	14,745				0.0029	0.03	41	442	Sep-1
Oct-12	14,142	1,020	14,425				0.0029	0.03	43	433	Oct-1
lov-12	12,508	1,020	12,758	452			0.0029	0.03	42	383	Nov-1
ec-12	7,031	1,020	7,172	190			0.0029	0.03	37	215	
an-13	12,672	1,020	12,925	154							Dec-1
							0.0029	0.03	21	388	Jan-1
eb-13	10.644	1,020	10,857	85			0.0029	0.03	37	326	Feb-1
far-13	13,492	1,020	13,762	99			0.0029	0.03	31	413	Mar-1
pr-13	12,050	1,020	12,291	71			0.0029	0.03	40	369	Apr-1
lay-13	12,592	1,020	12,844	55			0.0029	0.03	36	385	May-1
un-13	6,566	1,020	6,697	220			0.0029	0.03	37	201	Jun-1
lul-13	5,911	1,020	6,029	516			0.0029	- 0.03	19	181	Jul-13
ug-13	12,213	1,020	12,457	454			0.0029	0.03	17	374	
ep-13	13,449	1,020	13,718	350							Aug-1
Oct-13					9		0.0029	0.03	36	412	Sep-1
	13,090	1,020	13,352	262	-	1	0.0029	0.03	40	401	Oct-1
lov-13	13,418	1,020	13,687	5	74		0.0029	0.03	39	411	Nov-1
ec-13	13,534	1,020	13,805	132	83						Dec-1
an-14	14,060	1,020	14,341	194	98						Jan-1
eb-14	12,737	1,020	12,991	253	112						Feb-1
lar-14	13,736	1,020	14,011	378	127						Mar-1
pr-14	13,256	1,020	13,521	543	143						Apr-1
lay-14	4,516	1,020	4,606	183	96						
un-14											May-1
	7,179	1,020	7,322	71	262						Jun-1
ul-14	11,343	1,020	11,570	171	306						Jul-14
ug-14	13,345	1,020	13,612	188	232						Aug-1
ep-14	12,974	1,020	13,233	251	176						Sep-1
ct-14	13,907	1,020	14,185	261	94						Oct-1
ov-14	12,651	1,020	12,904	255	55	99					Nov-1
ec-14	11,456	1,020	11,685	66	88	9					Dec-1
an-15	7,509	1,020	7,659	286	57	36					
eb-15	0	1,020	0	738							Jan-1
lar-15	0				378	82					Feb-1
		1,020	0	1,312	684	99					Mar-1
pr-15	12,539	1,020	12,790	1,291	595	62					Apr-15
ay-15	15,162	1,020	15,465	1,182	533	66			2		May-1
un-15	13,236	1,020	13,501	898	530	327					Jun-1
ul-15	11,301	1,020	11,527	669	598	607					Jul-15
ug-15	10,666	1,020	10,879	735	685	610					Aug-1
ep-15	12,611	1,020	12,863	770	738	563					
ct-15	11.565	1,020	11,796	835							Sep-1
ov-15	10,506	1,020	10,717	030	811	559					Oct-1

NSO Average MMBtu/Mont 12,000
December 2011 to November 2013
MMBtu/Month 11,995

Period

Quarter	MMSCF	MMBtu
First	71,554	72,985
Second	66,721	68,056
Third	73,467	74,936
Fourth	70,495	71,906

NOx	CO
lb/qtr	lb/qtr
191	2,190
211	2,042
193	2,248
231	2,157

# APPENDIX B SOURCE TESTS

### Source Test Results K5 and K6

		Results in PPM at 15% U2				
Summary	K5 NOx	K6 NOx	K5 CO	к6 со		
2013	0.78	0.22	3.1	1.3		
2014		0.2		7		
2015	2		44			
Average NOx both en	0.8					
Average CO both engi	13.9					
Average NOx lb/MM I	3tu		0.0029			
Average CO lb/MMBt	u		0.003			



Tim Braly Compliance Team Health, Environmental & Safety
Chevron North America
Exploration and Production Co.
P.O. Box 1392
Bakersfield, CA 93302
Tel 661-654-7787
Fax 661-654-7133
tdpx@chevron.com

**Hand Delivered** 

February 26, 2015

Mr. Greg LaFore Senior Air Quality Inspector San Joaquin Valley APCD 34946 Flyover Court Bakersfield, CA 93308

Re: IC Engine Compliance Test Results

Dear Mr. LaFore:

Listed below are the results of the annual compliance tests conducted on January 15, 2015 for Chevron's IC Engine in Lost Hills. Test results and emission limits are summarized in the table below and in Project Report #104-8942B.

SJVAPCD PTO	Chevron I.D.	Compliance Test Results				
Number	Number	NO <sub>X</sub> ppm @ 15%	CO ppm @ 15%	Sulfur lb-SOx/MMBtu	VOC ppm @ 15%	
S-55-13-8	K-5	2	44	<0.17	0.0	
Emission Samp	oling Limits	11	70	.00285	30	

Please contact me at (661) 654-7485 if you have any questions.

Sincerely,

Glenn Slitor

Compliance Team

Glen Sliter



Tim Braly Compliance Team Health, Environmental & Safety
Chevron North America
Exploration and Production Co. P.O. Box 1392
Bakersfield, CA 93302
Tel 661-654-7787
Fax 661-654-7133
tdpx@chevron.com

Hand Delivered

January 22, 2015

Mr. Greg LaFore Senior Air Quality Inspector San Joaquin Valley APCD 34946 Flyover Court Bakersfield, CA 93308

Re: IC Engine Compliance Test Results

Dear Mr. LaFore:

Listed below are the results of the annual compliance tests conducted on December 17, 2014 for Chevron's IC Engine in Lost Hills. Test results and emission limits are summarized in the table below and in Project Report #104-8942A.

SJVAPCD PTO	Chevron I.D.	Compliance Test Results			
Number	Number	NO <sub>X</sub> ppm @ 15%	CO ppm @ 15%	Sulfur lb/MMscf	VOC ppm @ 15%
S-55-14-6	K-6	0.2	7	< 0.17	0.0
Emission Samp	oling Limits	25	70	0.6	30

Please contact me at (661) 654-7485 if you have any questions.

Sincerely,

Glenn Slitor Compliance Team



Tim Braly Compliance Team Health, Environmental & Safety
Chevron North America
Exploration and Production Co. P.O. Box 1392
Bakersfield, CA 93302
Tel 661-654-7787
Fax 661-654-7133
tdpx@chevron.com

February 26, 2013

Mr. Greg LaFore Senior Air Quality Inspector San Joaquin Valley APCD 34946 Flyover Court Bakersfield, CA 93308 FedEx Delivery Confirmation # 7946 1476 7016

Re: IC Engine Compliance Test Results

Dear Mr. Lafore:

Listed below are the results of the annual compliance tests conducted on January 9<sup>th</sup> & 10<sup>th</sup>, 2013 for Chevron's IC Engines in Lost Hills. Test results and emission limits are summarized in the table below and in Project Report #104-8091.

SJVAPCD PTO	Chevron I.D.	Compliance Test Results			
Number	Number	NO <sub>X</sub> ppm @ 15%	CO ppm @ 15%	Sulfur lb/MMscf	VOC ppm @ 15%
S-55-13-6	K-5	0.78	3.1	< 0.1661	0.1
S-55-14-6	K-6	0.22	1.3	< 0.1661	0.1
Emission Sam	pling Limits	25	70	0.6	30

Please contact me at (661) 654-7787 if you have any questions.

Sincerely.

Tim Braly

Compliance Team

# APPENDIX C PM Emission Factor

### 3.2 Natural Gas-fired Reciprocating Engines

### 3.2.1 General 1-3

Most natural gas-fired reciprocating engines are used in the natural gas industry at pipeline compressor and storage stations and at gas processing plants. These engines are used to provide mechanical shaft power for compressors and pumps. At pipeline compressor stations, engines are used to help move natural gas from station to station. At storage facilities, they are used to help inject the natural gas into high pressure natural gas storage fields. At processing plants, these engines are used to transmit fuel within a facility and for process compression needs (e.g., refrigeration cycles). The size of these engines ranges from 50 brake horsepower (bhp) to 11,000 bhp. In addition, some engines in service are 50 - 60 years old and consequently have significant differences in design compared to newer engines, resulting in differences in emissions and the ability to be retrofitted with new parts or controls.

At pipeline compressor stations, reciprocating engines are used to power reciprocating compressors that move compressed natural gas (500 - 2000 psig) in a pipeline. These stations are spaced approximately 50 to 100 miles apart along a pipeline that stretches from a gas supply area to the market area. The reciprocating compressors raise the discharge pressure of the gas in the pipeline to overcome the effect of frictional losses in the pipeline upstream of the station, in order to maintain the required suction pressure at the next station downstream or at various downstream delivery points. The volume of gas flowing and the amount of subsequent frictional losses in a pipeline are heavily dependent on the market conditions that vary with weather and industrial activity, causing wide pressure variations. The number of engines operating at a station, the speed of an individual engine, and the amount of individual engine horsepower (load) needed to compress the natural gas is dependent on the pressure of the compressed gas received by the station, the desired discharge pressure of the gas, and the amount of gas flowing in the pipeline. Reciprocating compressors have a wider operating bandwidth than centrifugal compressors, providing increased flexibility in varying flow conditions. Centrifugal compressors powered by natural gas turbines are also used in some stations and are discussed in another section of this document.

A compressor in storage service pumps gas from a low-pressure storage field (500 - 800 psig) to a higher pressure transmission pipeline (700 - 1000 psig) and/or pumps gas from a low-pressure transmission line (500 - 800 psig) to a higher pressure storage field (800 - 2000 psig).

Storage reciprocating compressors must be flexible enough to allow operation across a wide band of suction and discharge pressures and volume variations. The compressor must be able to compress at high compression ratios with low volumes and compress at low compression ratios with high volumes. These conditions require varying speeds and load (horsepower) conditions for the reciprocating engine powering the reciprocating compressor.

Reciprocating compressors are used at processing plants for process compression needs (e.g. refrigeration cycles). The volume of gas compressed varies, but the pressure needed for the process is more constant than the other two cases mentioned above.

### 3.2.2 Process Description 1-3

Natural gas-fired reciprocating engines are separated into three design classes: 2-cycle (stroke) lean-burn, 4-stroke lean-burn, and 4-stroke rich-burn. Two-stroke engines complete the power cycle in a

Table 3.2-3. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE RICH-BURN ENGINES<sup>a</sup> (SCC 2-02-002-53)

Pollutant	Emission Factor (lb/MMBtu) <sup>b</sup> (fuel input)	Emission Factor Rating
Criteria Pollutants and Greenhou	<u> </u>	
NO <sub>x</sub> c 90 - 105% Load	2.21 E+00	A
NO <sub>x</sub> <sup>c</sup> <90% Load	2.27 E+00	С
CO <sup>c</sup> 90 - 105% Load	3.72 E+00	A
CO <sup>c</sup> <90% Load	3.51 E+00	С
CO2d	1.10 E+02	A
SO <sub>2</sub> <sup>e</sup>	5.88 E-04	Α
TOC <sup>f</sup>	3.58 E-01	С
Methane <sup>g</sup>	2.30 E-01	С
VOCh	2.96 E-02	С
PM10 (filterable) <sup>i,j</sup>	9.50 E <sub>2</sub> 03	E
PM2.5 (filterable) <sup>j</sup>	9.50 E-03	E
PM Condensable <sup>k</sup>	9.91 E <u>=03</u> 7	E
Trace Organic Compounds		
1,1,2,2-Tetrachloroethane	2.53 E-05	С
1,1,2-Trichloroethane	<1.53 E-05	E
1,1-Dichloroethane	<1.13 E-05	E
1,2-Dichloroethane	. <1.13 E-05	Е
1,2-Dichloropropane	<1.30 E-05	Е
1,3-Butadiene	6.63 E-04	D
1,3-Dichloropropene	<1.27 E-05	Е
Acetaldehyde <sup>l,m</sup>	2.79 E-03	C <sup>'</sup>
Acrolein <sup>l,m</sup>	2.63 E-03	С
Benzene	1.58 E-03	В
Butyr/isobutyraldehyde	4.86 E-05	D
Carbon Tetrachloride <sup>l</sup>	<1.77 E-05	E

9.51 ×10 19.41 ×10

## PUBLIC NOTICE CHECK LIST

PROJECT #: <u>S-55</u> PROJECT #: <u>S-1154368</u>

REQST. COMPL.	ERC FINAL PUBLIC NOTICE Newspaper Notice Emailed to Clerical (Check box and tab to generate Notice) Send email to "OA-PublicNotices" containing the following: SUBJECT: facility name, facility id#, project #, type of notice (prelim/final) BODY: project description and why it is being noticed (Emission Reduction Credit banking)
ENCLOSED	DOCUMENTS REQUIRE:
<ul><li>√</li><li>√</li><li>√</li></ul>	Enter Correct Date, Print All Documents from File and Obtain Director's Signature and District Seal Embossed on ERC Certificates Email <i>FINAL</i> Newspaper Notice for Publication in <u>Bakersfield Californian</u>
<b>₹</b> _	Pub Date: 4 11 Mail FINAL Notice Letter to Applicant by Certified Mail including the following attachments:
√	<ul> <li>✓ Original ERC Certificates</li> <li>✓ Newspaper Notice</li> <li>Email FINAL Public Notice package to EPA</li> </ul>
√ _ √ _ √ _	Email <i>FINAL</i> Public Notice package to CARB Email <i>FINAL</i> Newspaper Notice, Aviso en Español and Public Notice package to "webmaster"
√	After posted on website, send email with weblink of Newspaper notice, Aviso en Español, and full public notice package to:  √ specific [C, S, or N] region and District wide permitting notification list serves (both English and Spanish list serves)  √ facility specific distribution list, (AQE – enter email address from PAS
,	facility details notifications tab, if none enter NONE below): none.
<u> </u>	Mail the newspaper notice and aviso en español (NN/AE), or full public notice package (FPNP) to the persons on facility specific distribution list, as follows (entered by AQE, if none, enter NONE below): NN/AE orFPNP Name/address:none
<u>√</u> _	☐NN/AE or ☐FPNP Name/address:none Send FINAL Public Notice package to EDMS Assign Mailing Date Other Special Instructions (please specify):

Date Completed [DATE COMPLETED] /By David Torii

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### **COPY OF NOTICE**

**GPN GOVT PUBLIC NOTICE** Notice Type:

ERC Final Public Notice for Chevron USA, Inc., Project Ad Description

#S-1154368, Bakersfield

To the right is a copy of the notice you sent to us for publication in the THE BAKERSFIELD CALIFORNIAN. Please read this notice carefully and call us with any corrections. The Proof of Publication will be filed with the County Clerk, if required, and mailed to you after the last date below. Publication date(s) for this notice is (are):

04/11/2017

The charge(s) for this order is as follows. An invoice will be sent after the last date of publication. If you prepaid this order in full, you will not receive an invoice.

CNS 2996821

NOTICE OF FINAL ACTION FOR THE ISSUANCE OF EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Chevron USA, Inc. for emission reductions generated by the shutdown of two IC engines, in Lost Hills. The quantity of ERCs to be issued is 571 Ib-NOx/yr, 2,573 Ib-PM10/yr and 7,487 Ib-CO/yr. NOTICE GIVEN IS HEREBY hat the Air

No comments were received following the District's preliminary decision on this project.

The application review for Project #S-1154368 is available for public inspection http://www.vallevair.org/no tices/public\_notices\_idx.ht m, the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT. COURT BAKERSFIELD, CA 93308, and at any other District office. For additional informatio please contact the District at (651) 392-5500. CNS-2996821#

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#### U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only 174 visit our Certified Mail Fee ŗ Extra Services & Fees (check box, add fee as appropriate) IJ, Return Receipt (hardcopy) Postmark Return Receipt (electronic) Here 0000 Certified Mail Restricted Del Adult Signature Required Adult Signature Restricted Delivery \$ 2070 Postage S Total **Gregory Pritchett** Chevron USA, Inc. Sent P.O. Box 1392 Stree Bakersfield, CA 93302 City, PS Form 3800, April 2015 PSN 7530-02-000-9047. See Reverse for Instructions

### **Diseree Gomez**

From: Diseree Gomez

Sent: Thursday, April 6, 2017 3:32 PM

To: 'Gerardo C. Rios - EPA (SJV\_T5\_Permits@epamail.epa.gov)'; 'Tung Le (ttle@arb.ca.gov)'

**Subject:** ERC Final Public Notice for Chevron USA, Inc., Facility # S-55, Project #S-1154368

**Attachments:** Final S-1154368.pdf; Newspaper, S-1154368.pdf

Importance: High

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Chevron USA, Inc. for emission reductions generated by the shutdown of two IC engines, in Lost Hills. The quantity of ERCs to be issued is 571 lb-NOx/yr, 2,573 lb-PM10/yr and 7,487 lb-CO/yr.

Thank You,

### **Diserce Gomez**

Office Assistant II
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave
Fresno, CA. 93726
559.230.6003
Diseree.Gomez@valleyair.org



Make one change for clean air!

### **Diseree Gomez**

From:

Microsoft Outlook

To:

'Gerardo C. Rios - EPA (SJV\_T5\_Permits@epamail.epa.gov)'

Sent:

Thursday, April 6, 2017 3:33 PM

Subject:

Relayed: ERC Final Public Notice for Chevron USA, Inc., Facility # S-55, Project

#S-1154368

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:

'Gerardo C. Rios - EPA (<u>SJV T5 Permits@epamail.epa.gov</u>)' (<u>SJV T5 Permits@epamail.epa.gov</u>) < <u>mailto:SJV T5 Permits@epamail.epa.gov</u>>

Subject: ERC Final Public Notice for Chevron USA, Inc., Facility # S-55, Project #S-1154368

### **Diseree Gomez**

From:

Diseree Gomez

Sent:

Thursday, April 6, 2017 3:36 PM

To:

WebTeam

Subject:

valleyair.org update: ERC Final Public Notice for Chevron USA, Inc., Facility # S-55,

Project #S-1154368

Attachments:

Final S-1154368.pdf; Newspaper, S-1154368.pdf; Aviso, S-1154368.pdf

April 6, 2017 (Facility S-55 Project S-1154368) NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Chevron USA, Inc. for emission reductions generated by the shutdown of two IC engines, in Lost Hills. The quantity of ERCs to be issued is 571 lb-NOx/yr, 2,573 lb-PM10/yr and 7,487 lb-CO/yr.

### **Newspaper Notice**

Aviso

### Public Notice Package

Thank You,

### **Diserce Gomez**

Office Assistant II
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave
Fresno, CA. 93726
559.230.6003
Diseree.Gomez@valleyair.org



# AVISO DE DECISIÓN FINAL PARA LA OTORGACIÓN DE CERTIFICADOS DE REDUCCIÓN DE EMISIONES

POR EL PRESENTE SE NOTIFICA que el Oficial para el Control de la Contaminación del Aire a otorgado Certificados de Reducción de Emisiones (ERCs, por sus siglas en inglés) a Chevron USA, Inc. por la reducción de emisiones generadas por el cierre de dos motores de combustión interna en Lost Hills. La cantidad de ERCs que serán otorgados son 571 lb-NOx/año, 2,573 lb-PM10/año y 7,487 lb-CO/año.

No se recibieron comentarios acerca de este proyecto despues del aviso de decisión preliminar del Distrito.

La revisión de la solicitud del Proyecto #S-1154368 está disponible para la inspección del público en http://www.valleyair.org/notices/public\_notices\_idx.htm, el DISTRITO PARA EL CONTROL DE LA CONTAMINACIÓN DEL AIRE DEL VALLE DE SAN JOAQUIN, 34946 FLYOVER COURT, BAKERSFIELD, CA 93308, y en cualquiera de las oficinas del Distrito. Para más información en Español, por favor comuníquese con el Distrito al (661) 392-5500.

# NOTICE OF FINAL ACTION FOR THE ISSUANCE OF EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Chevron USA, Inc. for emission reductions generated by the shutdown of two IC engines, in Lost Hills. The quantity of ERCs to be issued is 571 lb-NOx/yr, 2,573 lb-PM10/yr and 7,487 lb-CO/yr.

No comments were received following the District's preliminary decision on this project.

The application review for Project #S-1154368 is available for public inspection at http://www.valleyair.org/notices/public\_notices\_idx.htm, the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 34946 FLYOVER COURT, BAKERSFIELD, CA 93308, and at any other District office. For additional information, please contact the District at (661) 392-5500.





### APR 0 6 2017

**Gregory Pritchett** Chevron USA, Inc. PO Box 1392 Bakersfield, CA 93302

Notice of Final Action - Emission Reduction Credits

Facility Number: S-55

Project Number: S-1154368

Dear Mr. Pritchett:

The Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Chevron USA, Inc. for emission reductions generated by the shutdown of two IC engines, in Lost Hills. The quantity of ERCs to be issued is 571 lb-NOx/yr, 2,573 lb-PM10/yr and 7,487 lb-CO/yr.

Enclosed are the ERC Certificates and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue the ERC Certificates was published on 2/28/17. The District's analysis of the proposal was also sent to CARB and US EPA Region IX on 2/22/17. No comments were received following the District's preliminary decision on this project.

Seyed Sadredin

Executive Director/Air Pollution Control Officer

### Mr. Gregory Pritchett

Page 2

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Leonard Scandura at (661) 392-5500.

Sincerely,

Arnaud Marjollet

Director of Permit Services

AM:dbt

Enclosures

cc: Tung Le, CARB (w/enclosure) via email

cc: Gerardo C. Rios, EPA (w/enclosure) via email





Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308

# Emission Reduction Credit Certificate S-4659-2

**ISSUED TO:** 

CHEVRON USA INC LOST HILLS GP

**ISSUED DATE:** 

April 3, 2017

LOCATION OF

LOST HILLS GAS PLANT

REDUCTION:

LOST HILLS, CA

### For NOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
72 lbs	68 lbs	74 lbs	72 lbs

### **Method Of Reduction**

[ ] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

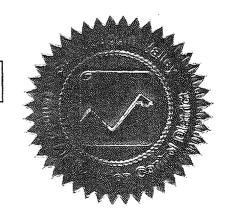
[ ] Other

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

Somme Albertler







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# Emission Reduction Credit Certificate S-4659-3

ISSUED TO:

CHEVRON USA INC LOST HILLS GP

ISSUED DATE:

April 3, 2017

LOCATION OF

LOST HILLS GAS PLANT

REDUCTION:

LOST HILLS, CA

### For CO Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
949 lbs	885 lbs	975 lbs	935 lbs

### **Method Of Reduction**

[ ] Shutdown of Entire Stationary Source

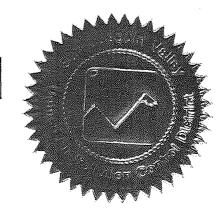
[X] Shutdown of Emissions Units

[ ] Other

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services







Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308

# Emission Reduction Credit Certificate S-4659-4

**ISSUED TO:** 

CHEVRON USA INC LOST HILLS GP

**ISSUED DATE:** 

April 3, 2017

**LOCATION OF** 

LOST HILLS GAS PLANT

REDUCTION:

LOST HILLS, CA

### For PM10 Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
328 lbs	306 lbs	337 lbs	324 lbs

### Portion of above PM10 Reductions that is PM2.5:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
100.0%	100.0%	100.0%	100.0%
328 lbs	306 lbs	337 lbs	324 lbs

### **Method Of Reduction**

[ ] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

[ ] Other

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

Arnaud Mayollu/
Arnaud Marjollet, Director of Permit Services

