	NORTHERN	REGION
	CENTRAL RE	ERC/PUBLIC NOTICE CHECK LIST
\boxtimes	SOUTHERN F	
REQ	ST. COMPL.	FROJECT #8. <u>5-1120775</u>
<u>√</u>		ERC TRANSFER OF PREVIOUSLY BANKED CREDITS ERC PRELIMINARY PUBLIC NOTICE ERC FINAL PUBLIC NOTICE
Da	ite Comple	eted <u>October 29</u> /By <u>Allan Phillips</u>
√_		Newspaper Notice Emailed to Clerical (Check box and tab to generate Notice)
<u>√</u>	_	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 (based on Major Source, Major Modification, Title V Minor Mod, Title V Significant Mod, Initial Title V, Title V renewal, or ATC with COC)
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	_	Enter Correct Date, Print All Documents from File and Obtain Directors Signature
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<u>√</u>	_	Email PRELIMINARY Public Notice package to EPA and CARB
√	<u>~</u>	Email PRELIMINARY Public Notice package to "webmaster"
1		Send <i>PRELIMINARY</i> Public Notice package to: <u>Steve</u> Davidson
_		Other Special Instructions (please specify):
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Song SAN JOAQUIN VALLEY AIR POLL CONTROL DIST 1990 E. GETTYSBURG AVE. FRESNO, CA 93726

CNS 2568990

COPY OF NOTICE

Notice Type:

GPN GOVT PUBLIC NOTICE

Ad Description

Prelim ERC, S-1120775, Chevron, 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):

12/19/2013

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 (ssuance of Green House Gas Emission Reduction Credits to Chevron USA, Inc. for the shut down and removal of four Solar gas turbines (S-1131-1970, '-973, '-1073, and '-974), at Kem River oil field. The quantity of ERCs proposed for banking is 70,813 metric tons per year.

metric tons per year.

The analysis of the regulatory basis for this proposed action, Project #S-1120775, is available for public inspection at http://www.valleyair.org/notices/public notices/public no

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From:

Song Thao

Sent:

Monday, December 16, 2013 1:54 PM

To:

Gerardo Rios (SJV_T5_Permits@epa.gov.); Mike Tollstrup (mtollstr@arb.ca.gov)
Preliminary ERC Public Notice for Chevron USA Inc. Facility S-1131 Project S-1120775

Subject:

Prelim S-1120775.PDF; Newspaper.PDF

Importance:

Attachments:

High

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Green House Gas Emission Reduction Credits to Chevron USA, Inc. for the shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at Kern River oil field. The quantity of ERCs proposed for banking is 70,813 metric tons per year.

From:

Microsoft Outlook

To: Sent: Mike Tollstrup (mtollstr@arb.ca.gov) Monday, December 16, 2013 1:55 PM

Subject:

Relayed: Preliminary ERC Public Notice for Chevron USA Inc. Facility S-1131 Project

S-1120775

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

Mike Tollstrup (mtollstr@arb.ca.gov) (mtollstr@arb.ca.gov)

Subject: Preliminary ERC Public Notice for Chevron USA Inc. Facility S-1131 Project S-1120775

From: Mail Delivery System <MAILER-DAEMON@mintra12.rtp.epa.gov>

To: SJV_T5_Permits@epamail.epa.gov
Sent: Monday, December 16, 2013 1:55 PM

Subject: Expanded: Preliminary ERC Public Notice for Chevron USA Inc. Facility S-1131 Project

S-1120775

Your message has been delivered to the following groups:

SJV T5 Permits@epamail.epa.gov

Subject: Preliminary ERC Public Notice for Chevron USA Inc. Facility S-1131 Project S-1120775

From:

Song Thao

Sent:

Monday, December 16, 2013 1:56 PM

To:

WebMaster

Subject:

valleyair.org update: Preliminary ERC Public Notice for Chevron USA Inc. Facility S-1131

Project S-1120775

Attachments:

Prelim S-1120775.PDF; Newspaper.PDF; Aviso.PDF

December 16, 2013 (Facility S-1131 Project S-1120775) NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Green House Gas Emission Reduction Credits to Chevron USA, Inc. for the shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at Kern River oil field. The quantity of ERCs proposed for banking is 70,813 metric tons per year. The comment period ends on January 21, 2014.

Newspaper Notice

Aviso

Public Notice Package

From:

Song Thao

Sent:

Monday, December 16, 2013 5:20 PM

To:

All Region (Notices_of_Permitting_Actions-All_Regions@lists.valleyair.org); South

(Notices_of_Permitting_Actions-Southern_Region@lists.valleyair.org)

Subject:

Public Notice on Permitting Action S-1120775

The District has posted a new permitting public notice. The public notice can be viewed on our website at: http://www.valleyair.org/notices/Docs/2013/12-16-13_(S-1120775)/Newspaper.pdf

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

Thank you.

From:

Song Thao

Sent:

Monday, December 16, 2013 5:21 PM

To:

All Spanish (Avisos_Sobre_Acciones_de_Permisos-Todos@lists02.valleyair.org)

Subject:

Aviso Publico Sobre Acciones de Permisos S-1120775

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/2013/12-16-13 (S-1120775)/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

AVISO DE DECISIÓN PRELIMINAR PARA LA PROPUESTA OTORGACIÓN DE CERTIFICADOS DE CRÉDITOS 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 Créditos de Reducción de Emisiones (ERC, por sus siglas en inglés) a Chevron USA, Inc. para la clausura de cuatro tubinas de gas marca Solar (S-1131-970, -973, -974 -1073), en los campos de petróleo Kern River. La cantidad de ERCs propuestas para almacenar es 70,813 toneladas metricas de CO2e/año.

El análisis de la base regulatoria para esta acción propuesta, Proyecto #S-1120775, 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 (559) 230-6000. Comentarios por escrito acerca de este propuesto permiso inicial deben de ser sometidos antes del 21 de Enero del 2014 a DAVID WARNER, 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 Green House Gas Emission Reduction Credits to Chevron USA, Inc. for the shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at Kern River oil field. The quantity of ERCs proposed for banking is 70,813 metric tons per year.

The analysis of the regulatory basis for this proposed action, Project #S-1120775, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. Written comments on this project must be submitted by January 21, 2014 to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, .





DEC 1 6 2013

Jason H Donchin Chevron USA, Inc. PO Box 1392 Bakersfield, CA 93302

Re:

Preliminary Decision - Emission Reduction Credits

Project Number: S-1120775

Dear Mr. Donchin:

Enclosed for your review and comment is the District's analysis of Chevron USA, Inc.'s application for Green House Gas Emission Reduction Credits (ERCs) resulting from the shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at Kern River oil field. The quantity of ERCs proposed for banking is 70,813 metric tons per year.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day public comment period which begins on the date of publication of the public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Steve Davidson of Permit Services at (661) 392-5618.

Sincerely,

David Warner

Director of Permit Services

DW:SDD/st

Enclosures

CC:

Mike Tollstrup, CARB (w/ enclosure) via email

CC:

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

Seyed Sadredin

Executive Director/Air Pollution Control Officer

EMISSION REDUCTION CREDIT BANKING APPLICATION REVIEW

Facility Name:

Chevron USA, Inc.

Mailing Address:

PO Box 1392

Bakersfield, CA 93302

Contact Name:

Jason H. Donchin

Telephone:

(661) 654-7144

Facility:

S-1131

Permit Numbers:

S-1131-970, '-973, '-974, and '-1079

ERC Certificate Numbers: S-4113-24 & S-4114-24

Project Number:

S-1120775

Date Received:

March 14, 2012

Date Complete:

September 24, 2012

Engineer:

Steve Davidson

Date:

October 29, 2013

Lead Engineer:

Allan Phillips, Supervising AQE

I. **SUMMARY:**

The primary business of this facility is crude oil and gas production. Chevron USA, Inc. has permanently shut down, removed, and surrendered the Permit to Operate (PTO) for four Solar gas turbines (S-1131-970, '-973, '-974, and '-1079) in October 2010. The facility had submitted an application to bank the emission reduction credits (ERCs) for the actual emission reductions (AER) of the criteria pollutants on November 30, 2010 (ERC Project S-1105004).

Subsequently, the facility has submitted this application to bank the Greenhouse Gas (GHG) AER that also resulted from the shut down of the turbines. See the surrendered PTOs in Appendix A.

Selection of Geographical Boundary for Determining Permanence of the GHG Emission Reduction

Rule 2301 contains several eligibility criteria for emission reduction credit banking, including that the emission reduction must be permanent. When determining the geographical boundary in which the emission reduction is determined to be permanent, the applicant may consider how the GHG ERC may likely be used.

Please note that the while Rule 2301 allows facilities to receive ERCs for GHG emission reductions, the District does not have any requirements on the use of GHG ERCs. However, it is anticipated that the likely uses of such GHG ERCs would be their future retirement as GHG mitigation in the California Environmental Quality Act (CEQA) process.

Pursuant to CEQA, lead agencies must consider the environmental impact of GHG emissions from a project and may require that such GHG emissions be mitigated. In evaluating various mitigation techniques, including the retirement of GHG ERCs, the lead agency must determine if the proposed mitigation technique adequately mitigates the projects GHG emission increase.

When a lead agency determines if the retirement of a particular GHG ERC provides adequate GHG mitigation for a project, the lead agency may choose to consider the location where the GHG ERC was generated and the geographical boundary used to determine the permanence of the emission reduction. In making this determination, the lead agency may conclude that the retirement of a particular GHG ERC would provide adequate mitigation for projects within that same geographical boundary. Again, that determination will be made be the lead agency for any particular project.

For this application, the facility has selected California as the geographical boundary for which the emission reduction is permanent. Chevron has provided a graph showing the decline in California Oil Production from 1995 to 2012. Additionally, Chevron is an entity covered by California CAP and Trade (AB32), AB 32 requires California to return to 1990 levels of greenhouse gas emissions by 2020. Therefore, Chevron will have to mitigate a 15% reduction in greenhouse gas emissions compared to the 'business-as-usual' scenario in 2020. This information validates California as the geographical boundary selection for a permanent GHG emission reduction.

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

		ERC (lb)
ERC#		Metric Tons per Year
S-4113-24	CO₂e	36,937 metric tons/year
S-4114-24	CO₂e	33,851 metric tons/year

II. APPLICABLE RULES:

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

III. LOCATION OF REDUCTION:

The four Solar gas turbines are located in the Kern River Oilfield within Chevron's Kern County Heavy Oil Central stationary source.

ERC: S-4113-24

S-1131-970: A Fee lease #1, Section 25, Township 28S, Range 27E S-1131-973: A Fee lease #2, Section 25, Township 28S, Range 27E

ERC: S-4114-24

S-1131-974: C Fee lease #2, Section 30, Township 28S, Range 27E S-1131-1079: C Fee lease #1, Section 30, Township 28S, Range 27E

IV. METHOD OF GENERATING EMISSION REDUCTIONS:

The emission reductions are being generated by removing four natural gas fired Solar gas turbines.

Equipment Shut down:

PTO	Equipment
S-1131-970	COGENERATION UNIT #1 (NORTH UNIT) SOLAR CENTAUR TYPE H, 52.4 MMBTU/HR GAS FIRED TURBINE ENGINE, 3.725 MW, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - LEASE FEE A
S-1131-973	COGENERATION UNIT #1 (WEST) SOLAR CENTAUR TYPE H, 52.4 MM BTU/HR GAS FIRED TURBINE ENGINE, 3.725 MW, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - FEE A
S-1131-974	COGENERATION UNIT #2 (EAST): SOLAR CENTAUR TYPE H, 52.4 MMBTU/HR GAS FIRED TURBINE ENGINE, 3.725 MV, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - LEASE FEE C
S-1131-1079	COGENERATION UNIT #1 (FEE C LEASE - WEST UNIT) SOLAR CENTAUR 50-T5901S, 48.7 MMBTU/HR GAS FIRED DOE CERAMIC GTE, 4.1 MW, WITH LUBE OIL MIST ELIMINATOR, UNFIRED HEAT RECOVERY STEAM GENERATOR, AND CONTINUOUS MONITORING SYSTEM

V. CALCULATIONS:

A. Assumptions and Emission Factors

Assumptions

The actual emissions will be calculated annually in the baseline period. The Historical Actual Emissions (HAE) will be calculated using actual fuel use data and accepted emissions factors.

The applicant provided monthly fuel use data for the subject engines from the second quarter 2008 through the first quarter 2010.

- Units of GHG AER is metric tons of CO₂e per year, rounded to the nearest metric ton
- 1,000 kg = 1 metric ton
- 1 therm of Natural Gas = 100 scf
- The final CO₂e emission factor from the combustion of natural gas includes GHG emissions of CO₂, CH₄ and N₂O, where the total emission factor includes the summation of each of the compounds multiplied by their Global Warming Potential (GWP)
- The emission factors are from the District's Spreadsheet: ARB GHG Emission Factors

Emission Factors (EF)

The CO₂e equivalent emission factor is from the District's Spreadsheet "ARB – Greenhouse Gas Emissions factors and is listed below.

 $EF_{CO2e} = 52.9199 \text{ KG/MMBtu}$

 $EF_{CO2e} = 52.9199 \text{ KG/MMBtu x (1 metric ton/ 1000 kg)}$

EF_{CO2e} = 0.0529 metric tons/MMBtu

B. Baseline Period Determination

Pursuant to Rule 2301 section 4.5.4, the Baseline Period is the following:

The consecutive 24 month period immediately prior to the date the emission reduction occurred, or another consecutive 24 month period in the 60 months prior to the date the emission reduction occurred.

The original ERC Banking Project S-1131, 1105004 specified the baseline period. Since the District has already established this as the correct baseline period for the criteria pollutant emission reductions that have already been evaluated and issued, the same baseline period is used for this evaluation.

The Baseline Period is listed below:

Baseline Periods			
Lease	Permit Unit	Dates	
A Fee lease	S-1131-970	September 2006 – August 2008	
(S25, T28S, R27E)	S-1131-973		
C Fee lease	S-1131-974	July 2006 Juno 2008	
(S30, T28S, R27E)	S-1131-1079	July 2006 – June 2008	

C. Baseline Data

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

Baseline Fuel Usage		
Permit Annual Fuel Use (Therms)		
S-1131-970	342,792	
S-1131-973	355,435	
S-1131-974	398,601	
S-1131-1079	241,308	

D. Historical Actual Emissions (HAE)

The HAE from the fuel use is determined by multiplying the annual fuel-use by the emission factor presented above.

Example Equation

Permit S-1131-970 (Annual):

CO2e = [(CO2e EF) x (Heat Input)]

 $CO2e = [(0.0529 \text{ Metric Tons/MMbtu}) \times (342,792 \text{ MMbtu/year}) = 18,134 \text{ Metric Tons/year}]$

Annual Emissi	Annual Emissions: Lease A Fee lease, Permit Units S-1131-970 & '-973				
Permit Unit	EF _{CO2e} (Metric Tons/MMBtu)	Energy Input (MMBtu/yr)	CO _{2e} (Metric Tons/yr)		
S-1131-970	0.0529	342,792	18,134		
S-1131-973	0.0529	355,435	18,803		
Total		·	36,937		

Annual Emissions: Lease C Fee lease, Permit Units S-1131-974 & '-1079				
Permit Unit	EF _{CO2e} (Metric Tons/MMBtu)	Energy Input (MMBtu/yr)	CO _{2e} (Metric Tons/yr)	
S-1131-974	0.0529	398,601	21,086	
S-1131-1079	0.0529	241,308	12,765	
Total			33.851	

E. Post Project Potential to Emit (PE2)

As discussed above, the subject equipment has been permanently shut down and the PTOs were surrendered. No other equipment has taken the place of the turbines as a source of steam in the Kern River oilfield. Therefore the PE2 is 0.

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.

ERCs eligible for banking = HAE - PE2

ERC Certificate S-4113-24: Lease A Fee lease, Permit Units S-1131-970 & '-973			
HAE (metric ton/year)	PE2 (metric ton/year)	CO _{2e} eligible for banking (metric ton/year)	
36,937	0	36,937	

ERC Certificate S-4114-24: Lease C Fee lease, Permit Units S-1131- 974 & '-1079			
HAE (metric ton/year)	PE2 (metric ton/year)	CO _{2e} eligible for banking (metric ton/year)	
33,851	0	33,851	

VI. COMPLIANCE:

Per District Rule Section 4.5, the following criteria must be met in order to deem such reductions eligible for banking:

4.5.1 The greenhouse gas emission reduction must have actually occurred on or after January 1, 2005, except as allowed in specific CARB approved GHG emission reduction project protocols.

The emission reductions occurred when the PTO was surrendered on March 8, 2011. As the emission reduction occurred after 1/1/05, this criteria has been satisfied.

4.5.2 The greenhouse gas emission reductions must have occurred within the San Joaquin Valley Unified Air Pollution Control District.

The emissions occurred at Kern River Oilfield within Chevron's Kern County Heavy Oil Central stationary source. Since this location is within the District, this criteria has been satisfied.

4.5.3 The greenhouse gas emission reductions are real, surplus, permanent, quantifiable, and enforceable, except as provided in Section 4.5.5.

Real:

The GHG emission reductions were generated by the shutdown of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974). The real emissions were calculated from actual historic fuel-use data and recognized emission factors. The Solar gas turbines have been removed from service. Therefore, the emission reductions are real.

Surplus:

The facility is subject to the CARB cap and trade regulation; however, the reductions occurred prior January 1, 2012; therefore, the emission reductions satisfy the surplus requirement in Section 4.5.3.1.

The facility is subject to the CARB cap and trade regulation; however, the reductions occurred prior to the baseline period of cap and trade. Therefore, the emission reductions satisfy the surplus requirement in Section 4.5.3.2.

The emission reductions are not the result of an action taken by the permittee to comply with any requirement. The emission reductions are surplus and additional of all requirements. Therefore, the emission reductions satisfy the surplus requirement in section 4.5.3.4.

The Certificates will be identified according to Section 6.15.3 below.

Permanent:

The gas turbines have been shut down, removed, and the PTOs have been surrendered.

When determining the geographical boundary in which the emission reduction is determined to be permanent, the applicant may consider how the GHG ERC may likely be used.

Please note that the while Rule 2301 allows facilities to receive ERCs for GHG emission reductions, the District does not have any requirements on the use of GHG ERCs. However, it is anticipated that the likely uses of such GHG ERCs would be their future retirement as GHG mitigation in the CEQA process.

Pursuant to CEQA, lead agencies must consider the environmental impact of GHG emissions from a project and may require that such GHG emissions be mitigated. In evaluating various mitigation techniques, including the retirement of GHG ERCs, the lead agency must determine if the proposed mitigation technique adequately mitigates the projects GHG emission increase.

When a lead agency determines if the retirement of a particular GHG ERC provides adequate GHG mitigation for a project, the lead agency may choose to consider the location where the GHG ERC was generated and the geographical boundary used to determine the permanence of the emission reduction. Then in making this determination, the lead agency may conclude that the retirement of a particular GHG ERC would provide adequate mitigation for projects within that same geographical boundary. Again, that determination will be made by the lead agency for a particular project.

Chevron has selected California as the geographical boundary for which the emission reduction is permanent. Chevron has provided information verifying that the total oil production in the state of California has been in decline since 1985 (see graph in Appendix C). Additionally, Chevron is subject to the California Cap-and-Trade regulation which requires Chevron to reduce or mitigate a permanent reduction in GHG emissions. The combination of the decline in oil production in California and the reductions required by California's Cap-and-Trade regulation verify that the reductions are permanent within California. The geographical boundary for the ERCs will be the State of California and the ERC will include the following identifier:

"Shutdown of the gas turbines are verified as permanent within the State of California"

Quantifiable:

The actual emissions were calculated from historic fuel-use records and accepted emission factors. Therefore, the emission reductions are quantifiable and have been quantified.

Enforceable:

The gas turbines have been shut down and the PTO has been surrendered to the District. Operation of the equipment without a valid permit would subject the permittee to enforcement action. Therefore, the emission reductions are enforceable.

4.5.4 Greenhouse gas emission reductions are calculated as the difference between the historic annual average greenhouse gas emissions (as CO2E) calculated using the consecutive 24 month period immediately prior to the date the emission reduction occurred, or another consecutive 24 month period in the 60 months prior to the date the emission reduction occurred if determined by the APCO as being more representative of normal operations, and the potential greenhouse gas emissions (as CO2E) after the project is complete, except as provided in section 4.5.5.

The GHG emission reductions were calculated according to the baseline period identified above. Since this is a permanent shutdown of the steam turbines, with none of the load being shifted to other units in California, there is no post-project potential to emit GHG.

4.5.5 Greenhouse gas emission reductions proposed to be quantified using CARB approved emission reduction project protocols shall be calculated in accordance with the applicable protocol.

Since the GHG emission reductions are not subject to an applicable CARB-approved emission reduction project protocol, this section is not applicable.

4.5.6 Emission reduction credits shall be made enforceable through permit conditions. If the District, pursuant to state laws, is prohibited from permitting the emission unit, the source creating the greenhouse gas emission reduction shall execute a legal binding contract with the District which ensures that the emission reductions will be generated in accordance with the provisions of this rule, and shall continue for the reasonably

The steam turbines held a legal District operating permit. That permit has been surrendered to the District. Since the operation of the steam turbines would require a new Authority to Construct, as discussed above the emission reduction is enforceable.

Section 5 identifies ERC Certificate application procedures.

Section 5.5.2 requires, for emission reductions occurring prior to 1/19/12, applications for ERCs must be submitted by 7/19/12.

The original greenhouse gas ERC application was submitted on 11/30/10 as part of project S1105004, therefore the application is timely.

Section 6.15 specifies the registration requirements for GHG ERCs.

Section 6.15.13 requires, the emission reductions are surplus and additional of all requirements pursuant to Section 4.5.3.4. Therefore the ERC certificate shall include the following notation:

"This emission reduction is surplus and additional to all applicable regulatory requirements."

Compliance with Rule 2301 has been demonstrated and no adjustments are required under this Rule.

VII. RECOMMENDATION:

After public notice, comments and review, issue ERCs to Chevron USA in the amounts shown below:

ERC S-4113-24, Lease A Fee lease, Permit Units S-1131-970 & '-973:

GHG ERCs				
ERC Certificate	Pollutant	Amount		
S-4113-24	CO₂e	36,937 metric tons/year		

ERC S-3604, Lease C Fee lease, Permit Units S-1131-974 & '-1079:

GHG ERCs			
ERC Certificate	Pollutant	Amount	
S-4114-24	CO₂e	33,851 metric tons/year	

Appendix A

Permits S-1131-970, '-973, '-974 , and '-1079

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1131-970-9

EXPIRATION DATE: 02/28/2006

SECTION: 25 TOWNSHIP: 28S RANGE: 27E

EQUIPMENT DESCRIPTION:

COGENERATION UNIT #1 (NORTH UNIT) SOLAR CENTAUR TYPE H, 52.4 MMBTU/HR GAS FIRED TURBINE ENGINE, 3.725 MW, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR LEASE FEE A

PERMIT UNIT REQUIREMENTS

- Units shall be fired exclusively on PUC-regulated or FERG-regulated natural gas which has a sulfur content less than
 or equal to 0.017% by weight, [40 CFR 60.333(a) & (b);60.332(a); Kern County Rule 407] Federally Enforceable
 Through Title V Permit
- Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the
 point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V
 Permit
- 3. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Kern County Rule 108.1] Federally Enforceable Through Title V Permit
- 4. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
- 5. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas, the 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. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
- 6. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
- Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O2) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
- 8. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry), [40 CFR 60.332(a), (b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
- 9. If the turbine is fired on PUC-regulated or FERC-regulated natural gas, then maintain on file copies of natural gas bills or other relevant records, [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Pormit
- 10. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4] Federally Enforceable Through Title V Permit

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 Location: HEAVY OF CENTRAL, KERN COUNTY, CA 5-17-47-9 (So 15 203 11 444 - MARCOD

- 11. Permittee shall install, operate and maintain in calibration a predictive emissions monitoring system which continuously measures and records the water-to-fuel ratio and which correlates the water-to-fuel ratio with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c). [40 CFR 60.334] Federally Enforceable Through Title V Permit
- 12. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.3] Federally Enforceable Through Title V Permit
- Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [40 CFR 60.334 and District Rule 4703, 6.2.1] Federally Enforceable Through Title V Permit
- 14. Operator shall submit a semiannual report listing any dally period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)] Federally Enforceable Through Title V Permit
- 15. Permittee shall submit an excess NSPS emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form to the APCO semiannually, except when more frequent reporting is specifically required by an applicable subpart. All reports shall be postmarked by the 30th day of each calendar half (or quarter, as appropriate), [40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
- 16. Except during periods of startup/shutdown, any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NOx emissions limit required by NSPS shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
- 17. Gas turbine engine shall be equipped with continuously recording fuel gas flowrate monitor. [District NSR Rule] Federally Enforceable Through Title V Permit
- 18. Gas turbine engine shall be equipped with water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
- 19. Gas turbine engine water injection rate shall be maintained such that water to fuel ratio is no less than that amount determined necessary to ensure emission limits compliance. [District NSR Rule] Federally Enforceable Through Title V Permit.
- 20. Gas turbine engine shall be equipped with continuously recording water injection rate monitor accurate to within +/5%. [District NSR Rule] Federally Enforceable Through Title V Permit
- Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart A 60.2, shall not exceed a time period of
 two hours and two hours, respectively, per occurrence. [District Rule 4703] Federally Enforceable Through Title V
 Permit
- 22. Except during periods of startup/shutdown, If water injection system is inoperative, gas turbine engine shall be shut down. [40 CFR 60.8(c), District NSR Rule] Federally Enforceable Through Title V Permit
- 23. Waste heat recovery steam generator exhaust shall be equipped with permanent provisions to allow collection of gas sample consistent with EPA test methods. [District Rule 1081] Federally Enforceable Through Title V Permit
- 24. All steam produced by this source operation shall be used only in existing TEOR operation(s) served by existing vapor control system(s). [District NSR Rule] Federally Enforceable Through Title V Permit
- 25. All wells producing from strats steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401] Federally Enforceable Through Title V Permit
- 26. Emissions increases from new wells in zone steamed by this equipment shall be controlled and mitigated as required by District NSR Rule and District Rule 4401 (amended 1/15/98). [District NSR Rule] Federally Enforceable Through Title V Permit

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

Permit Unit.Requirements for S-1131-970-9 (continued)

Page 3 of 3

- 27. Source testing shall be conducted for at least three levels of operating range of water to fuel ratio to demonstrate previously established ratio correlation with NOx emissions remains valid. [District NSR Rule and District Rule 1081] Federally Enforceable Through Title V Permit
- 28. Compliance with nitrogen oxide, and CO emission limits shall be demonstrated by District-witnessed sample collection by independent testing laboratory within 60 days of permit anniversary date. [District Rule 1081] Federally Enforceable Through Title V Permit
- 29. Source test results and fuel test data shall be submitted within 60 days after sample collection with water to fuel injection ratio, on mass basis, determined at time of stack gas sampling. [District Rule 1081] Féderally Enforceable Through Title V Permit
- Permittee shall keep accurate daily records of turbine water to fuel injection ratio and such records shall be made readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
- 31. Gas turbine engine shall be equipped with continuously recording oxides of nitrogen and oxygen monitors. NOx monitoring system requirement may be substituted or replaced upon documentation that H2O/fuel ratio correlates well with NOx emission rate. [District NSR Rule] Federally Enforceable Through Title V Permit
- 32. Permittee shall submit compliance testing plan to the District within 60 days prior to permit anniversary date. [District Rule 1081] Federally Enforceable Through Title V Permit
- 33. Except during periods of startup/shutdown, emission rates for this unit shall not exceed any of the following: PM-10: 0.015 lb/MMBTU, SOx (as SO2): 0.0031 lb/MMBTU, NOx (as NO2): 0.129 lb/MMBTU or VOC: 0.010 lb/MMBTU. [District NSR Rule and 4703] Pederally Enforceable Through Title V Permit
- 34. Except during periods of thermal stabilization or reduced load, CO emissions rate shall not exceed 65.0 ppmv @ 15% O2. [District NSR Rule] Federally Enforceable Through Title V Permit
- 35. Except during periods of thermal stabilization or reduced loads, NOx emission rate shall not exceed 35 ppmv at 15% O2 on a 3 hour rolling average basis. [District Rule 4703, 5.1.2 and 7.2.1]
- 36. Emission rates for this unit shall not exceed any of the following: PM-10: 18.9 lb/day, SOx (as SO2): 3.9 lb/day, NOx (as NO2): 162.2 lb/day, VOC: 12.6 lb/day, or CO: 183.6 lb/day [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SJVUAPCD Rule 4703, 6.2.2; 40 CFR 60.332(a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335(a), (b), (c), and (c). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kem County Rule 407; 40 CFR 60.332(c), (d); 60.334(b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1131-973-9

EXPIRATION DATE: 02/28/2006

SECTION: NE6 TOWNSHIP: 298 RANGE: 28E

EQUIPMENT DESCRIPTION:

COGENERATION UNIT #1 (WEST) SOLAR CENTAUR TYPE H, 52.4 MM BTU/HR GAS FIRED TURBINE ENGINE, 3.725 MW, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - LEASE FEE B

PERMIT UNIT REQUIREMENTS

- Units shall be fired exclusively on PUC-regulated or FBRC-regulated natural gas which has a sulfur content less than
 or equal to 0.017% by weight. [40 CFR 60.333(a) & (b);60.332(a); Kern County Rule 407] Federally Enforceable
 Through Title V Permit
- Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the
 point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V
 Permit
- 3. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Kern County Rule 108.1] Federally Enforceable Through Title V Permit
- 4. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
- 5. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas, the 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. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
- 6. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
- 7. Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O2) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4]
- 8. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332(a), (b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
- 9. If the turbine is fired on PUC-regulated or FERC-regulated natural gas, then maintain on file copies of natural gas bills or other relevant records. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 10. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4] Federally Enforceable Through Title V Permit
- 11. Permittee shall install, operate and maintain in calibration a predictive emissions monitoring system which continuously measures and records the water-to-fuel ratio and which correlates the water-to-fuel ratio with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c), [40 CFR 60.334] Federally Enforceable Through Title V Permit

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 Location: HEAVY CIL CENTRAL, KERN COLINTY, CA 8-111-6774; 80p 13 5000 10 10-00-1-000000

- 12. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.3] Federally Enforceable Through Title V Permit
- Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [40 CFR 60,334 and District Rule 4703, 6.2.1] Federally Enforceable Through Title V Permit
- 14. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(e)(2)]
- 15. Permittee shall submit an excess NSPS emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form to the APCO semiannually, except when more frequent reporting is specifically required by an applicable subpart. All reports shall be postmarked by the 30th day of each calendar half (or quarter, as appropriate). [40 CPR 60.7(c)] Federally Enforceable Through Title V Permit.
- 16. Except during periods of startup/shutdown, any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NOx emissions limit required by NSPS shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
- 17. Gas turbine engine shall be equipped with continuously recording fuel gas flowrate monitor. [District NSR Rule] Federally Enforceable Through Title V Permit
- 18. Gas turbine engine shall be equipped with water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
- 19. Gas turbine engine water injection rate shall be maintained such that water to fuel ratio is no less than that amount determined necessary to ensure emission limits compliance. [District NSR Rule] Federally Enforceable Through Title V Permit
- 20. Gas turbine engine shall be equipped with continuously recording water injection rate monitor accurate to within +/5%. [District NSR Rule] Federally Enforceable Through Title V Permit
- Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart A 60.2, shall not exceed a time period of
 two hours and two hours, respectively, per occurrence. [District Rule 4703] Federally Enforceable Through Title V
 Permit
- 22. Except during periods of startup/shutdown, if water injection system is inoperative, gas turbine engine shall be shut down. [40 CFR 60.8(c), District NSR Rule] Federally Enforceable Through Title V Permit
- 23. Waste heat recovery steam generator exhaust shall be equipped with permanent provisions to allow collection of gas sample consistent with EPA test methods. [District Rule 1081] Federally Enforceable Through Title V Permit.
- 24. All steam produced by this source operation shall be used only in existing TEOR operation(s) served by existing vapor control system(s). [District NSR Rule] Federally Enforceable Through Title V Permit
- 25. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells, [District Rule 4401] Federally Enforceable Through Title V Permit
- 26. Emissions increases from new wells in zone steamed by this equipment shall be controlled and mitigated as required by District NSR Rule and District Rule 4401 (amended 1/15/98). [District NSR Rule] Federally Enforceable Through Title V Permit
- 27. Source testing shall be conducted for at least three levels of operating range of water to fuel ratio to demonstrate previously established ratio correlation with NOx emissions remains valid. [District NSR Rule and District Rule 1081] Federally Enforceable Through Title V Permit
- 28. Compliance with nitrogen oxide, and CO emission limits shall be demonstrated by District-witnessed sample collection by independent testing laboratory within 60 days of permit anniversary date. [District Rule 1081] Federally. Enforceable Through Title V Permit

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

Facility Name: CKEYRON USA INC Location: HEAVY OIL CENTRAL, KERN COUNTY, CA 4 1114174 : \$4 11 200 to 1644 - WARROWS

Permit Unit Requirements for S-1131-973-9 (continued)

Page 3 of 3

- 29. Source test results and fuel test data shall be submitted within 60 days after sample collection with water to fuel injection ratio, on mass basis, determined at time of stack gas sampling. [District Rule 1081] Federally Enforceable Through Title V Permit
- 30. Permittee shall keep accurate daily records of turbine water to fuel injection ratio and such records shall be made readily available for District inspection upon request. [District NSR Rule]
- 31. Gas turbine engine shall be equipped with continuously recording oxides of nitrogen and oxygen monitors. NOx monitoring system requirement may be substituted or replaced upon documentation that H2O/fuel ratio correlates well with NOx emission rate. [District NSR Rule] Pederally Enforceable Through Title V Permit
- 32. Permittee shall submit compliance testing plan to the District within 60 days prior to permit anniversary date. [District Rule 1081] Federally Enforceable Through Title V Permit
- 33. Except during periods of startup/shutdown, emission rates for this unit shall not exceed any of the following: PM-10: 0.015 lb/MMBTU, SOx (as SO2): 0.0031 lb/MMBTU, NOx (as NO2): 0.129 lb/MMBTU or VOC: 0.010 lb/MMBTU. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- Except during periods of thermal stabilization or reduced load, CO emissions rate shall not exceed 65.0 ppmv @ 15%
 O2. [District:NSR Rule] Federally Enforceable Through Title V Permit
- .35. Except during periods of thermal stabilization or reduced loads, NOx emission rate shall not exceed 35 ppmv at 15% O2 on a 3 hour rolling average basis. [District Rule 4703, 5.1.2 and 7.2.1]
- 36. Emission rates for this unit shall not exceed any of the following: PM-10: 18.9 lb/day, SOx (as SO2): 3.9 lb/day, NOx (as NO2): 162.2 lb/day, VOC: 12.6 lb/day, or CO: 183.6 lb/day [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SIVUAPCD Rule 4703, 6.2.2; 40 CFR 60.332(a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rule 407; 40 CFR 60.332(c), (d); 60.334(b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: 8-1131-974-8

EXPIRATION DATE: 02/28/2008

SECTION: NE30 TOWNSHIP: 28S RANGE: 28E

EQUIPMENT DESCRIPTION:

COGENERATION UNIT #2 (EAST): SOLAR CENTAUR TYPE H, 52.4 MMBTU/HR GAS FIRED TURBINE ENGINE, 3.725 MV, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - LEASE FEE C

PERMIT UNIT REQUIREMENTS

- Units shall be fired exclusively on PUC-regulated or FERC-regulated natural gas which has a sulfur content less than
 or equal to 0.017% by weight. [40 CFR 60.333(a) & (b);60.332(a); Kern County Rule 407] Federally Enforceable
 Through Title V Permit
- Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the
 point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V
 Permit
- Operator shall not exceed a NOx emission rate of 35 ppmvd @ 15% O2, excluding thermal stabilization and reduced load periods. [40 CFR 60.332(a)(1) & 60.332(a)(2) and District Rule 4703, 5.1.2] Federally Enforceable Through Title V Permit.
- 4. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Kern County Rule 108.1] Federally Enforceable Through Title V Permit
- '5. If the turbine is not fired on PUC-regulated or PERC-regulated natural gas then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
- 6. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas, the 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. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
- 7. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
- 8. Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O2) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
- 9. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332(s), (b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
- 10. If the turbine is fired on PUC-regulated or FERC-regulated natural gas, then maintain on file copies of natural gas bills or other relevant records. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 11. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4] Federally Enforceable Through Title V Permit

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 Location: HEAVY OIL CENTRAL KERN COUNTY, CA 6-13-47-4-1-2-3-1-13-47

- 12. Permittee shall install, operate and maintain in calibration a predictive emissions monitoring system which continuously measures and records the water-to-fuel ratio and which correlates the water-to-fuel ratio with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c). [40 CFR 60.334] Federally Enforceable Through Title V Permit
- 13. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.3] Federally Enforceable Through Title V Permit
- Permittee shall install, operate and maintain in calibration a system which continuously measures and records clapsed time of turbine operation. [40 CFR 60.334 and District Rule 4703, 6.2.1] Federally Enforceable Through Title V Permit
- 15. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)] Federally Enforceable Through Title V Permit
- 16. Permittee shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form to the APCO semiannually, except when more frequent reporting is specifically required by an applicable subpart. All reports shall be postmarked by the 30th day of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
- 17. Except during periods of startup/shutdown, any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(e)] Federally Enforceable Through Title V Permit
- 18. Gas turbine engine shall be equipped with continuously recording fuel gas flowrate monitor. [District NSR Rule] Federally Enforceable Through Title V Permit
- 19. Gas turbine engine shall be equipped with water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
- Gas turbine engine water injection rate shall be maintained such that water to fuel ratio is no less than that amount
 determined necessary to ensure emission limits compliance. [District NSR Rule] Federally Enforceable Through Title
 V Permit
- 21. Gas turbine engine shall be equipped with continuously recording water injection rate monitor accurate to within +/ 5%. [District NSR Rule] Federally Enforceable Through Title V Permit
- Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart A 60.2, shall not exceed a time period of
 two hours and two hours, respectively, per occurrence. [District Rule 4703] Federally Enforceable Through Title V
 Permit
- 23. Except during periods of startup/shutdown, if water injection system is inoperative, gas turbine engine shall be shut down. [40 CFR 60.8(c), District NSR Rule] Federally Enforcesble Through Title V Permit
- 24. Waste heat recovery steam generator exhaust shall be equipped with permanent provisions to allow collection of gas sample consistent with EPA test methods. [District Rule 1081] Federally Enforceable Through Title V Permit
- 25. All steam produced by this source operation shall be used only in existing TEOR operation(s) served by existing vapor control system(s). [District NSR Rule] Federally Enforceable Through Title V Permit
- 26. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401] Federally Enforceable Through Title V Permit
- Emissions increases from new wells in zone steamed by this equipment shall be controlled and mitigated as required
 by District NSR Rule and District Rule 4401 (amended 1/15/98). [District NSR Rule] Federally Enforceable Through
 Title V Permit

- 28. Source testing shall be conducted for at least three levels of operating range of water to fuel ratio to demonstrate previously established ratio correlation with NOx emissions remains valid. [District NSR Rule and 1081] Federally Enforceable Through Title V Permit
- 29. Compliance with nitrogen oxide, and CO emission limits shall be demonstrated by District-witnessed sample collection by Independent testing laboratory annually within 60 days of permit anniversary date. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 30. Source test results and fuel test data shall be submitted within 60 days after sample collection with water to fuel injection ratio, on mass basis, determined at time of stack gas sampling, [District Rule 1081] Federally Enforceable Through Title V Permit
- Permittee shall keep accurate daily records of turbine water to fuel injection ratio and such records shall be made readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
- 32. Gas turbine engine shall be equipped with continuously recording oxides of nitrogen and oxygen monitors. NOx monitoring system requirement may be substituted or replaced upon documentation that H2O/fuel ratio correlates well with NOx emission rate. [District NSR Rule] Federally Enforceable Through Title V Permit
- 33. Permittee shall submit compliance testing plan to the District within 60 days prior to permit anniversary date. [District Rule 1081] Federally Enforceable Through Title V Permit
- 34. Except during periods of startup/shutdown, emission rates for this unit shall not exceed any of the following: PM-10: 0.015 lb/MMBTU, SOx (as SO2): 0.0031 lb/MMBTU, NOx (as NO2): 35 ppmv @ 15% O2, VOC: 0.010 lb/MMBTU, or CO: 57.0 ppmv @ 15% O2. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 35. Emission rates for this unit shall not exceed any of the following: PM-10: 18.9 lb/day, SOx (as SO2): 3.9 lb/day, NOx (as NO2): 163.4 lb/day, VOC: 12.6 lb/day, or CO: 162.2 lb/day [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 36. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SJVUAPCD Rule 4703, 6.2.2; 40 CFR 60.332(a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rule 407; 40 CFR 60.332(o), (d); 60.334(b), and (o)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1131-1079-8

EXPIRATION DATE: 02/28/2006

SECTION: NE6 TOWNSHIP: 298 RANGE: 28E

EQUIPMENT DESCRIPTION:

COGENERATION UNIT #1 (FEE C LEASE - WEST UNIT) SOLAR CENTAUR 50-T5901S, 48.7 MMBTU/HR GAS FIRED DOE CERAMIC GTE, 4.1 MW, WITH LUBE OIL MIST ELIMINATOR, UNFIRED HEAT RECOVERY STEAM GENERATOR, AND CONTINUOUS MONITORING SYSTEM.

PERMIT UNIT REQUIREMENTS

- Gas turbine shall be fired exclusively with PUC or FERC regulated natural gas or natural gas documented to be of comparable quality. [District Rule 2201] Federally Enforceable Through Title V Permit
- 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]
 Pederally Enforceable Through Title V Permit.
- Gas turbine engine shall be equipped with continuously recording fuel gas flowrate monitor. [District Rule 2201] . Federally Enforceable Through Title V Permit
- 4. Heat recovery steam generator exhaust stack shall be equipped with permanent provisions to allow collection of gas sample consistent with EPA test methods. [District Rule 1081] Federally Enforceable Through Title V Permit:
- 5. Emission rates shall not exceed any of the following: PM-10: 0.015 ib/MMBTU, SOx (as SO2): 0.003 ib/MMBTU, NOx (as NO2): 25 ppmv @ 15% O2, VOC: 0.016 ib/MMBTU, or CO: 33 ppmv @ 15% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
- Emissions shall not exceed either of the following NSPS Subpart GG limits (1 hour standard): NOx (as NO2): 171
 ppmvd @ 15% O2, or SOx (as SO2): 150 ppmvd @ 15% O2. [District Rule 4001] Federally Enforceable Through
 Title V Permit
- 7. Permittee shall satisfy all applicable requirements of District Rule 4001, New Source Performance Standards Subpart GG and notification and reporting requirements. [District Rule 4001] Federally Enforceable Through Title V Permit
- Compliance source testing for NOx, CO and demonstrated percent efficiency shall be conducted within 60 days of
 initial startup, and not less than once every 12 months for each mode of operation (standard operation and each
 experimental mode of operation). [District Rule 4703] Federally Enforceable Through Title V Permit
- Compliance source testing shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
- 10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District 1081] Federally Enforceable Through Title V Permit
- 11. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
- 12. Compliance with SOx emission limits shall be demonstrated by fuel gas sulfur content analysis at the time of NOx testing. Sulfur testing is not required for PUC or FERC regulated natural gas. [District Rule 1081] Federally Enforceable Through Title V Permit

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

Fadily Name: CHEVRON USA. INC. Location: HEAVY DIL CENTRAL, KERN COUNTY, CA

- 13. The following test methods shall be used: NOx (ppmv) EPA Method 7E or EPA Method 20, CO (ppmv) EPA Method 10 or 10B, stack gas oxygen EPA Methods 3, 3A or 20, and fuel gas sulfur content ASTM D3246 or double GC for H2S and mercaptans. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 14. Permittee shall maintain onsite for a period of at least five years accurate daily records of Predictive Emissions Monitoring System (PEMS) gas turbine engine exhaust NOx concentrations and such records shall be made readily available for District inspection upon request. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 15. Permittee's written request for approval of experimental components and operating conditions shall include at minimum the following information: components to be installed and conditions for operation, expected duration of operation, and description of, and justification for, expected emissions and maximum heat input rate. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 16. Permittee's request for approval of experimental components and operating conditions shall be submitted to the District at least 30 days prior to the initial planned installation date. The permittee shall also notify the District at least 15 days prior to the initial actual installation of the experimental components or start of operating conditions. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 17. Permittee shall notify the District, in writing, of turbine operating mode (standard or experimental) no later than 48 hours after changing mode of operation. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit.
- Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the
 point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V
 Permit
- Operator shall not exceed a NOx emission rate of: A. (If Rating <10 MW) 42 ppmvd @ 15% O2, excluding the thermal stabilization periods or reduced load periods. [40 CFR 60.332(a)(1) & 60.332(a)(2); District Rule 4703,5.1.1]
 Federally Enforceable Through Title V Permit
- Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [Kem County Rule 108.1; District Rule 1081] Federally Enforceable Through Title V Permit
- 21. The HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, OR ASTM 1945. [40 CFR. 60.332(a),(b)] Federally Enforceable Through Title V Permit
- 22. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332(a),(b) and District Rule 4703, 5.1] Pederally Enforceable Through Title V Permit
- 23. The operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703, 5.1.1. [40 CFR 60.332(a),(b) and 4703, 5.1.1] Federally Enforceable Through Title V Permit
- 24. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. Operation during periods of malfunction shall not constitute representative conditions for the purpose of determining compliance with emission limits based on 40 CFR 60.8 [40 CFR 60.8(o)] Federally Enforceable Through Title V Permit
- 25. If the turbine is fired on PUC or FERC-regulated natural gas or natural gas documented to be of comparable quality, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 26. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and 4703, 6.2.4] Pederally Enforceable Through Title V Permit
- 27. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)] Federally Enforceable Through Title V Permit

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

Permit Unit Requirements for S-1131-1079-6 (continued)

Page 3 of 3

28. Permittee shall maintain onsite for a period of at least five years accurate records of daily fuel consumption, daily fuel sulfur content, and daily fuel nitrogen content and shall make such records readily available for District inspection upon request. Daily monitoring of fuel sulfur and nitrogen contents is not required for PUC or FERC regulated natural gas. [District Rules 4001 and 2201] Federally Enforceable Through Title V Permit

Appendix B

Fuel Use Records

	A Fee #1 S-1131-970		A Fee #2 S-1131-973			C Fee #2 S-1131-97			C Fee #1 S-1131-1079			
		нну			нн∨						нну	
	(btu/s			(btu/s			нну			(btu/sc		
Month .	Mscf	cf)	MMBtu	Mscf	cf)	MMBtu	Mscf	(btu/scf)	MMBtu	Mscf	n	MMBtu

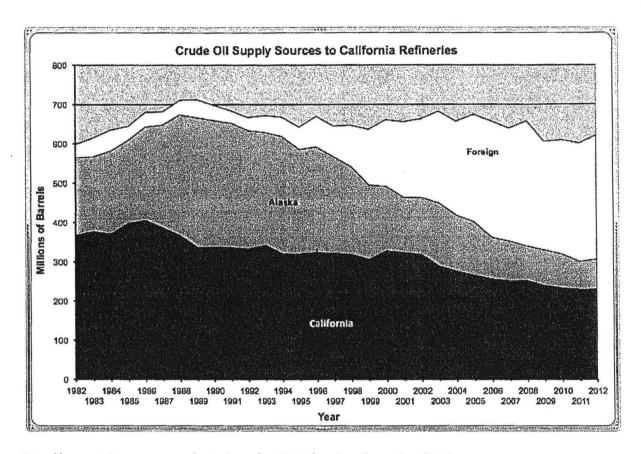
Kern River Fee Cogen Operational Data

	A Fee #1 S-1131-970			A Fee #2 S-1131-973			C Fee #2 S-1131-974			C Fee #1			
										S-1131-1079			
Month	Mscf	HHV	MMBtu	Mscf	нну	MMBtu	Mscf	нну	MMBtu	Mscf	нну	MMBtu	
Oct-05	3,137	1.042	3,269	3,077	1,042	3,206	32,271	1,051	33,917	32,433	1,051	34,087	
Nov-05	0	1050	0	0	1050	0	16,934	1,053	17,832	26,210	1,053	27,599	
Dec-05	0	1062	0	0	1062	0	33,820	1,053	35,612	0	1,053	0	
Jan-06	3,410	1,047	3,570	4,498	1,047	4,709	0	1.053	0	0	1053	0	
Feb-06	30,205	1,054	31,836	31,322	1,054	33,013	29,224	1.054	30,802	29,293	1.054	30,875	
Mar-06	28,721	1,050	30,157	30,302	1,050	31,817	29,528	1,050	31,004	29,860	1,050	31,353	
` Apr-06	26,070	1,046	27,269	27,291	1,046	28,546	27,045	1,046	28,289	26,771	1,046	28,002	
May-06	26,070	1,045	27,243	34,170	1,045	35,708	33,281	1,045	34,779	31,263	1,045	32,670	
Jun-06	31,873	1,047	33,371	32,527	1,047	34,056	32,520	1,047	34,048	32,068	1,047	33,575	
Jul-06	30,728	1.052	32,326	31,705	1,052	33,354	32,607	1,052	34,303	31,633	1,052	33,278	
Aug-06	32,875	1,053	34,617	33,988	1,053	35,789	33,072	1,053	34,825	32,977	1,053	34,725	
Sep-06	31,313	1.052	32,941	32,365	1,052	34,048	32,041	1,052	33,707	31,708	1,052	33,357	
Oct-06	32,877	1,051	34,554	33,730	1,051	35,450	32,271	1,051	33,917	32,433	1,051	34,087	
Nov-05	18,053	1,053	19,010	25,820	1,053	27,188	16,934	1,053	17,832	26,210	1,053	27,599	
Dec-06	21,216	1,053	22,340	11,682	1,053	12,301	33,820	1,053	35,612	0 8	1,053	0	
Jan-07	30,302	1,051	31,847	7,100	1,051	7,462	29,326	1,051	30,822		1,053	0	
Feb-07	29,731	1,054	31,336	30,916	1,054	32,585	30,345	1,054	31,984	1,865	1,051	1,960	
Mar-07	31,080	1,040	32,323	32,740	1,040	34,050	33,266	1,040	34,597	26,356	1,040	27,410	
Apr-07	28,359	1,045	29,635	33,124	1,045	34,615	31,864	1,045	33,298	34,116	1,045	35,651	
May-07	33,077	1,045	34,565	34,298	1,045	35,841	33,588	1,045	35,099	35,184	1,045	36,767	
Jun-07	25,250	1,043	26,336	30,918	1,043	32,247	31,125	1,043	32,463	31,279	1,043	32,624	
Jul-07	30,825	1,045	32,212	34,251	1,045	35,792	33,766	1,045	35,285	32,875	1,045	34,354	
Aug-07	32,795	1,049	34,402	33,938	1.049	35,601	33,926	1.049	35,588	33,543	1,049	35,187	
Sep-07	31,519	1.046	32,969	32,809	1.046	34,318	32,253	1,046	33,737		1,046	31,972	
Oct-07	32,994	1,048	34,578	34,395	1,048	36,046	34,315	1,048	35,962	17,108	1,048	17,929	
Nov-07	31,831	1,051	33,454	33,269	1.051	34,966	33,407	1.051	35,111		1,051	97	
Dec-07	7,682	1,053	8,089	25,576	1,053	26,932	30,506	1,053	32,123	568	1,053	598	
Jan-08	29,802	1,051	31,322	32,372	1,051	34,023	30,573	1,051	32,132	1,871	1,051	1,966	
Feb-08	29,972	1,044	31,291	29,368	1,044	30,660	31,119	1,044	32,488	87	1,044	91	
Mar-08	32,445	1,040	33,743	33,618	1,040	34,963	33,424	1,040	34,761	6,664	1,040	6,931	
M91-00	32,445	1,040	33,743	33,018	1,040	34,903	33,424	1,040	34,/61	0,004	1.040	0,331	

Apr-10 May-10 Jun-10	31,570 33,975 19,874	1,032 1,033 1,037	32,580 35,096 20,609	28,852 32,746 19,659	1,032 1,033 1,037	29,775 33,827 20,386	31,099 33,695	1,032 1,033 1,037	32,094 34,807	0	1032 1033	0	
Mar-10 Apr-10	32,885 31,570	1,036 1,032	31,866 34,069 32,580	30,458 33,072 28,852	1,031 1,036 1,032	31,402 34,263 29,775	29,239 33,221 31,099	1,031 1,036 1,032	30,145 34,417 32,094	0	1031 1036 1032	0 0	
Jan-10 Feb-10	33,733 30,908	1,031 1,031	34,779	32,687	1,031	33,700	21,470	1,031	22,136	0	1031	0	1
Nov-09 Dec-09	32,876 30,667	1,031	33,895 31,587	32,022 29,039	1,031 1,030	33,015 29,910	30,255 25,168	1,031 1,030	31,193 25,923	0	1031 1030	0	
Oct-09	34,762	1,036	36,013	33,796	1,036	35,013	29,594	1,036	30,659	0	1036	0	
Aug-09 Sep-09	20,939 32,338	976 1,038	20,436 33,567	29,768 31,859	976 1,038	29,054 33,070	30,088 21,676	966 1,038	29,065 22,500	0	966 1038	0	
Jul-09	41,859	919	38,468	41,524	919	38,161	27,239	938	25,550	0	938	0	1
May-09 Jun-09	0	1,037 958	0	0 13,773	1,037 958	0 13,195	11,482 4,298	1,037 1,035	11,907 4,448	0	1037 1035	0	
Apr-09	0	1,036	0	0	1,036	0	0	1,036	ō	0	1036	0	
Feb-09 Mar-09	17,396 3,760	1,042	18,127 3,888	16,581 1,183	1,042 1,034	17,277 1,223	0	1,042 1,034	0	0	1042 1034	0	1
Jan-09	0	1,040	0	0	1,040	0	0	1,040	0	0	1040	0	1
Dec-08	0	1,047	0	0	1,047	0	0	1,047	0	0	1,051	0	1
Nov-08	0	1,037	0	0	1,035	0	0	1,036	0	0	1,036 1,037	0	
Sep-08 Oct-08	0	1,044	0	0	1,044	0	0	1,044	0	0	1,044	0	
Aug-08	0	1,047	0	0	NOW.		0	1,048	0	0	1,047	0	
30-lut	17,555	1,047	18,380	15,712	1,047	16,450	0	1.048	0	0	1,047	o	1
S0-nut	31,321	1,048	32,824	33,394	1,048	34,997	24,507	1,048	25,683	0	1,048	0	-
May-08	31,911 32,618	1,048	33,443 33,988	32,899 34,408	1,048 1,042	34,478 35,853	31,861 32,740	1,048	33,390 34,115	20,844 586	1,048 1,042	21,845 611	1

· A-1

Appendix C Oil Production Graph



http://energyalmanac.ca.gov/petroleum/statistics/crude_oil_receipts.html

Appendix D

Baseline Period Determination

· · · · · · · · · · · · · · · · · · ·					, . 		
Fee A	•			24 month	36 month	48 month	
	S-1131-970	S-1131-973		block	block	block	
	MMBtu	MMBtu	Total MMBtu	averages *	averages *	averåges *	80 monti
1999	443,172	457,105	800,277	,			
2000-2005	2,302,782	2,381,462	4,684,224				
Oct -05 *	3,268	3,208	8,475	* shown separ	ately as these n	nonths are part	
Nov - 05 *	•	•	•	of the precedi	ng 5 year period	l, but fuel use	
Dec - 05 *	•	-	-	Included in 20	00-2005 total		
Jan-08	3,570	4,709	8,280]			
Feb-08	31,838	33,013	64,849				
Mar-06	30,157	31,817	61,974				
Apr-06	27,268	28,546	55,816		·		
May-08	27,243	35,708	62,951	This pre	ceding 24 mo	าเก	
Jun-08	33,371	34,056	67,427		as an average		
Jul-06	32,326	33,354	65,680		fuel use close		•
Aug-06	34, 6 17	35,789	70,407		storic monthly	}	
Sep-08	32,941	34,048	66,989	fuel use	.	}	
Oct-06	34,554	35,450	70,004]		.	
Nov-08	19,010	27,188	46,198		re, the 24 mon		
Dec-06	22,340	12,301	34,842		Sep 2006 - Aug		
Jan-07	31,847	7,482	39,310		ost closely nt normal sour		
Feb-07	31,336	32,585	63,922		nt normal sour on. As such, th		
Mar-07	32,323	34,050	66,373		period is Sep		
Apr-07	29,635	34,615	64,250		lug 2008.		
May-07	34,585	35,841	70,407				
Jun-07	28,338	32,247	58,583		ľ		
Jul-07	32,212	35,792	88,004	1	}		
Aug-07	34,402	35,601	70,003	1	- 1		
Sep-07	32,989	34,318	87,287	59,207	1 /		
Oct-07	34,578	38,046	70,624	59,726	1 /		
Nov-07	33,454	34,968	68,420	60,104	11.		
Dec-07	8,089	26,932	35,021	59,059	1 /		
Jan-08	31,322	34,023	65,345	61,437	17		
Feb-08	31,291	30,860	61,951	81,316	11		
Mar-08	33,743	34,963	68,706	61,597	11		
Apr-08	33,443	34,478	67,921	82,101	11		
May-08	33,988	35,853	69,841	62,388]}		
Jun-08	32,824	34,997	67,821	62,404]/	•	
Jul-08	18,360	16,450	34,831	61,119	L .		
Aug-08	•	•	•	58,185		_	
Sep-08	•	•	<u>-</u>	55,394	58,177		
Oct-08	•	•	•	52,477	54,525		
Nov-08	•	•	•	50,552	52,967]	
Dec-08	•	•	•	49,109	51,495		
Jan-09	•	•	•	47,471	51,265		

^{*} block averages are for periods (24, 45, 48, 60 month) preceding the date indicated. Block averages are for periods that begin no earlier than Oct 2005, i.e. 5 years before the date the shutdown occurred.

Fee A	S-1131-970 MMBtu	S-1131-973 MMBtu	Total MMBtu	24 month block averages *	36 month block averages *	48 month block averages *	60 month *
Feb-09	18,127	17,277	35,404	46,283	50,447		
Mar-09	3,888	1,223	5,111	43,730	48,868		
Apr-09	•	-	•	41,053	47,318		
May-09	-	-	•	38,120	45,569		
Jun-09		13,195	13,195	36,228	44,062		
Jul-09	38,468	38,161	76,629	36,588	44,367		
Aug-09	20,436	29,054	49,490	35,733	43,786		
Sep-09	33,567	33,070	66,636	35,706	43,776	46,673	
Oct-09	36,013	35,013	71,026	35,723	43,804	47,203	
Nov-09	33,895	33,015	66,910	35,660	44,379	47,622	
Dec-09	31,587	29,910	61,497	36,763	45,125	47,911	
Jan-10	34,779	33,700	68,479	36,894	45,936	49,165	
Feb-10	31,866	31,402	63,268	36,949	45,918	49,132	
Mar-10	34,069	34,263	68,331	36,933	45,972	49,265	
Apr-10	32,580	29,775	62,356	36,701	45,919	49,401	
May-10	35,096	33,827	68,923	36,663	45,878	49,525	
Jun-10	20,609	20,386	40,996	35,545	45,390	48,975	
Jul-10]	•	34,094	43,501	47,606	
Aug-10	•	•	•	34,094	41,556	46,140	
Sep-10	•	<u> </u>		34,094	, 39,687	44,744	
Oct-10	•	-		34,094	37,725	43,286	46,070

Average monthly fuel use over 142 months of data provided Normal source operation (NSO) 58,145

^{*} block averages are for periods (24, 46, 48, 60 month) preceding the date indicated. Block averages are for periods that begin no earlier than Oct 2005, i.e. 5 years before the date the shutdown occured.

Fee C				I			
	0.4464.554						
	S-1131-974 MMBtu	S-1131-1079 MMBtu	Total Lease MMBtu	24 month block averages *	38 month block averages *	48 month block averages *	80 month *
Jan - Dec	MINIDE	IVIIVIDIU	IVIVIDIU	74010800	Tranafee	- A OI WHES	L 30 monut
1999	477,962	480,187	938,129				
2000-2005	2,340,058	· · · · · · · · · · · · · · · · · · ·	4,648,251				
Oct -05 *	33,917	34,087	68,004	shown separ	rately as these me	onths are part	
Nov - 05 *	17,832	27,599	45,431	•	ng 5 year period,	· ·	
Dec - 05 *	35,612	-	35,812	included in 20	- • .		
Jan-06	•		•]			
Feb-06	30,802	30,875	61,877				
Mar-06	31,004	31,353	82,357	4 1	This period has		•
Apr-06	28,289	28,002	56,292	4 }	verage monthly		
May-06	34,779	32,670	67,448	A 1	losest to the his		
Jun-06	34,048	33,575	67,624	4 }	monthly fuel use).	
Jul-08	34,303	33,278	67,580	1 <u> </u>	*hau-fa 4		
Aug-06	34,825	34,725	89,550		Therefore, the 2		
Sep-08	33,707	33,357	67,064	l la	months period S Aug 2008 most (
Oct-08	33,917	34,087	68,004		epresent norma		
Nov-08	17,832	27,599	45,431	l lo	operation. As su		
Dec-08	35,612	0	35,612	1	paseline period		
Jan-07	30,822	0	30,822	2	2006 - Aug 2008		
Feb-07	31,984	1,960	33,944	1			
Mar-07	34,597	27,410	62,007	u ; ·		l	
Apr-07	33,298	35,651	88,949	u i			
May-07	35,099	36,767	71,887	4 i			
Jun-07	32,463	32,824	65,087	a ;			
Jul-07	35,285	34,354	69,640	8 1	Manual Inc. of the Control of the Co		
Aug-07	35,588	35,187	70,775		7		
Sep-07	33,737	31,972	65,709		⊣ ≀		
Oct-07	35,982	17,929	53,891 35,307	0	≓		
Nov-07 Dec-07	35,111	97 508	35,207		- 1)		
Jan-08	32,123 32,132	598 1.968	32,721		4/		
Feb-08	32,132	1,968· 91	34,099 32,579		4/		
. Mar-08	34,781	6,931	41,692		- -1		
Apr-08	33,390	21,845	55,235		-1		
May-08	34,115	611	34,728		4		
Jun-08	25,683	0	25,683	——————————————————————————————————————	*		
Jul-08	0	0	20,000				
Aug-08	0	0	0		-		•
Sep-08	0	0	0				
Oct-08	0	0	0				
Nov-08	0	0	0			•	
Dec-08	0	0 .	. 0			; ,	
Jan-09	0	0	0				
						S	

^{*} block averages are for periods (24, 46, 48, 60 month) preceding the date indicated. Block averages are for periods that begin no earlier than Oct 2005, i.e. 5 years before the date the shutdown occured.

Fee C			_				
	S-1131-974 MMBtu	S-1131-1079 MMBtu	Total Lease MMBtu	24 month block averages	36 month block averages *	48 month block averages *	60 month * `
Feb-09	0	0	0	34,161	41,433		
Mar-09	0	0	0	31,577	39,701	}	
Apr-09	0	0	0	28,705	38,137]	
May-09	11,907	0	11,907	26,206	36,595]	•
Jun-0 9	4,448	0	4,448	23,680	34,840]	
Jul-09	25,550	0	25,550	21,843	33,672]	
Aug-09	29,065	0	29,065	20,105	32,548		
Sep-09	22,500	0	22,500	18,304	31,310	37,412	
Oct-09	30,659	0	30,659	17,336	30,272	36,634	
Nov-09	31,193	0	31,193	17,169	29,877	36,338	
Dec-09	25,923	0	25,923	16,886	29,608	36,136	
Jan-10	22,136	0	22,136	16,387	29,366	36,597	
Feb-10	30,145	0	30,145	16,286	29,261	35,940	
Mar-10	34,417	0	34,417	15,983	28,495	35,358	
Apr-10	32,094	0	32,094	15,019	27,471	34,854	
May-10	34,807	0	34,807	15,022	26,441	34,174	
Jur-10	20,759	0	20,759	14,817	25,210	33,197	
Jul-10	0	0	0	14,817	23,276	31,769	
Aug-10	0	0	0	14,617	21,310	30,341	
Sep-10			0	14,817	19,484	28,943	
Oct-10			0	14,817	17,987	27,527	33,165

Average monthly fuel use over 142 months of data provided Normal source operation (NSO)

52,783

^{*} block averages are for periods (24, 46, 48, 60 month) preceding the date indicated. Block averages are for periods that begin no earlier than Oct 2005, i.e. 5 years before the date the shutdown occured.

Appendix E

Draft ERCs

San Joaquin Valley Air Pollution Control District

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

Emission Reduction Credit Certificate

ISSUED TO:

CHEVRON USA INC

ISSUED DATE:

<DRAFT>

LOCATION OF REDUCTION:

HEAVY OIL CENTRAL KERN COUNTY, CA

SECTION: 25 TOWNSHIP: 28S RANGE: 27E

For CO2E Reduction In The Amount Of:

36937 metric tons / year

LJ	Conditions Attached
Meth	od Of Reduction
[]	Shutdown of Entire Stationary Source
	Shutdown of Emissions Units
[]	Other

Shut down of two (S-1131-970 & '-973) Solar gas turbines verified as permanent within the State of California

Emission Reduction Qualification Criteria

This emission reduction is surplus and additional to all applicable greenhouse emission reduction regulatory requirements.

Seyed Sadredin, Executive Director APCO

David Warner, Director of Permit Services

San Joaquin Valley Air Pollution Control District

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

Emission Reduction Credit Certificate

ISSUED TO:

CHEVRON USA INC

ISSUED DATE:

<DRAFT>

LOCATION OF REDUCTION:

HEAVY OIL CENTRAL KERN COUNTY, CA

SECTION: 25 TOWNSHIP: 28S RANGE: 27E

For CO2E Reduction In The Amount Of:

33851 metric tons / year

L	1 Conditions Attached
Me	thod Of Reduction
[]	Shutdown of Entire Stationary Source
[X	Shutdown of Emissions Units
[]	Other

anditions Attached

Shut down of two (S-1131-974 & '-1073) Solar gas turbines verified as permanent within the State of California

Emission Reduction Qualification Criteria

This emission reduction is surplus and additional to all applicable greenhouse emission reduction regulatory requirements.

Seyed Sadredin, Executive Director/APCO

David Warner, Director of Permit Services

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 Green House Gas Emission Reduction Credits to Chevron USA, Inc. for the shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at Kern River oil field. The quantity of ERCs proposed for banking is 70,813 metric tons per year.

The analysis of the regulatory basis for this proposed action, Project #S-1120775, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. Written comments on this project must be submitted by January 21, 2014 to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 34946 FLYOVER COURT, BAKERSFIELD, CA 93308.

AVISO DE DECISIÓN PRELIMINAR PARA LA PROPUESTA OTORGACIÓN DE CERTIFICADOS DE CRÉDITOS 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 Créditos de Reducción de Emisiones (ERC, por sus siglas en inglés) a Chevron USA, Inc. para la clausura de cuatro tubinas de gas marca Solar (S-1131-970, -973, -974 -1073), en los campos de petróleo Kern River. La cantidad de ERCs propuestas para almacenar es 70,813 toneladas metricas de CO2e/año.

El análisis de la base regulatoria para esta acción propuesta, Proyecto #S-1120775, 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 (559) 230-6000. Comentarios por escrito acerca de este propuesto permiso inicial deben de ser sometidos antes del 21 de Enero del 2014 a DAVID WARNER, 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 Green House Gas Emission Reduction Credits to Chevron USA, Inc. for the shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at Kern River oil field. The quantity of ERCs proposed for banking is 70,813 metric tons per year.

The analysis of the regulatory basis for this proposed action, Project #S-1120775, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. Written comments on this project must be submitted by January 21, 2014 to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, .

PROOF OF PUBLICATION

The BAKERSFIELD CALIFORNIAN P. O. BOX 440 **BAKERSFIELD, CA 93302**

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JAN 0 2 2013

STATE OF CALIFORNIA COUNTY OF KERN

I AM A CITIZEN OF THE UNITED STATES AND A RESIDENT OF THE COUNTY AFORESAID: I AM OVER THE AGE OF EIGHTEEN YEARS, AND NOT A PARTY TO OR INTERESTED IN THE ABOVE ENTITLED MATTER. I AM THE ASSISTANT PRINCIPAL CLERK OF THE PRINTER OF THE BAKERSFIELD CALIFORNIAN, A NEWSPAPER OF GENERAL CIRCULATION. PRINTED AND PUBLISHED DAILY IN THE CITY OF BAKERSFIELD COUNTY OF KERN,

AND WHICH NEWSPAPER HAS BEEN ADJUDGED A NEWSPAPER OF GENERAL CIRCULATION BY THE SUPERIOR COURT OF THE COUNTY OF KERN, STATE OF CALIFORNIA. UNDER DATE OF FEBRUARY 5, 1952, CASE NUMBER 57610; THAT THE NOTICE, OF WHICH THE ANNEXED IS A PRINTED COPY, HAS BEEN PUBLISHED IN EACH REGULAR AND ENTIRE ISSUE OF SAID NEWSPAPER AND NOT IN ANY SUPPLEMENT THEREOF ON THE FOLLOWING DATES, TO WIT: 12/19/13

(

ALL IN YEAR 2013

I CERTIFY (OR DECLARE) UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.

Montaya

DATED AT BAKERSFIELD CALIFORNIA

Printed on 12/19/2013 at 9:26:05AM

Solicitor I.D.:

0

Permits Services

First Text

SJVAPCD

NOTICE OF PRELIMINARY DECISION FOR THE P

Ad Number 13381274

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 Control District solicits public comment on the public comment on the proposed issuance of Green House Gas Emission Reduction Credits to Chevron USA, Inc. for the shut down and removal of four Solar gas turbines (S-1131-970, -973, -1073, and -974), at Kern River oil field. The quantity of ERCs proposed for banking is 70,813 metric tons per year.

The analysis of the regulatory basis for this proposed action. Project proposed action. Project ms. 112075. is available for public inspection at http://www.valleyair.org/notices/public_notices.idx.ht m and the District office at the address below. Written comments on this project must be submitted by January 21, 2014 to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT. 34946 FLYOVER COURT. BAKERSFIELD, CA 93308. The analysis of the 9330B. CNS-2568990#

DECEMBER 19, 2013 (13381274)







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Song/SD

PNERC

5-1131

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	Chevron USA, Inc.
щ	PO Box 1392
7013	Straet, / or POB Bakersfield, CA 93302
	PS.Form 3800, August 2006 See Reverse for Instructions

PUBLIC NOTICE CHECK LIST

PROJECT #: <u>S-1131</u> PROJECT #: <u>S-1120775</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:
√ √ √	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> Pub Date:
1	Mail FINAL Notice Letter to Applicant by Certified Mail including the following attachments: √ Original ERC Certificates √ Newspaper Notice
¥ = 1	Email <i>FINAL</i> Public Notice package to EPA 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:
√	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 NN/AE or FPNP Name/address:none
<u>√</u>	Send FINAL Public Notice package to EDMS Assign Mailing Date Other Special Instructions (please specify):
Date Comple	eted [DATE COMPLETED] /By Steve Davidson
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CNS 2589618

COPY OF NOTICE

Notice Type: GPN GOVT PUBLIC NOTICE

Ad Description Final ERC, S-1120775, Chevron, 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):

02/19/2014

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 shut down and removal of four Solar gas turbines (S-1131-970, 973, -1073, and 974), at the Kern River oilfield. The quantity of ERCs to be issued is 70,788 metric tons of CO2e per year.

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

decision on this project.

The application review for project #S-1120775 is available for public inspection http://www.vailleyair.org/no tices/public notices idx.ht m, the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 34946 FLYOVER COURT, AKERSFIELD, CA 93308, and at any other District office. For additional information, please contact the District at (661) 392-5500. 2/19/14 CNS-2589618# THE BAKERSFIELD CALIFORNIAN

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From: Song Thao

Sent: Friday, February 14, 2014 2:15 PM

To:Gerardo Rios (SJV_T5_Permits@epa.gov.); Mike Tollstrup (mtollstr@arb.ca.gov)Subject:Final ERC Public Notice for Chevron USA, Inc. Facility S-1131 Project S-1120775

Attachments: Final ERC S-1120775.PDF; Newspaper.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 shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at the Kern River oilfield. The quantity of ERCs to be issued is 70,788 metric tons of CO2e per year.

From: Mail Delivery System <MAILER-DAEMON@mintra12.rtp.epa.gov>

To:SJV_T5_Permits@epamail.epa.govSent:Friday, February 14, 2014 2:15 PM

Subject: Expanded: Final ERC Public Notice for Chevron USA, Inc. Facility S-1131 Project

S-1120775

Your message has been delivered to the following groups:

SJV T5 Permits@epamail.epa.gov

Subject: Final ERC Public Notice for Chevron USA, Inc. Facility S-1131 Project S-1120775

From: Microsoft Outlook

To: Mike Tollstrup (mtollstr@arb.ca.gov)
Sent: Friday, February 14, 2014 2:15 PM

Subject: Relayed: Final ERC Public Notice for Chevron USA, Inc. Facility S-1131 Project S-1120775

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

Mike Tollstrup (mtollstr@arb.ca.gov) (mtollstr@arb.ca.gov)

Subject: Final ERC Public Notice for Chevron USA, Inc. Facility S-1131 Project S-1120775

From:

Song Thao

Sent: Friday, February 14, 2014 2:16 PM

To: WebTeam

Subject: valleyair.org update: Final ERC Public Notice for Chevron USA, Inc. Facility S-1131

Project S-1120775

Attachments: Final ERC S-1120775.PDF; Newspaper.PDF; Aviso.PDF

February 14, 2014 (Facility S-1131 Project S-1120775) 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 shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at the Kern River oilfield. The quantity of ERCs to be issued is 70,788 metric tons of CO2e per year.

Newspaper Notice

<u>Aviso</u>

Public Notice Package

From: Song Thao

Sent: Tuesday, February 18, 2014 11:54 AM

To: All Region (Notices_of_Permitting_Actions-All_Regions@lists.valleyair.org); South

(Notices_of_Permitting_Actions-Southern_Region@lists.valleyair.org)

Subject: Public Notice on Permitting Action S-1120775

The District has posted a new permitting public notice. The public notice can be viewed on our website at: http://www.valleyair.org/notices/Docs/2014/02-14-14_(S-1120775)/Newspaper.pdf

For a list of public notices and public notice packages, please visit our website at: http://www.valleyair.org/notices/public notices_idx.htm#PermittingandEmissionReductionCreditCertificateNotices

Thank you.

From: Song Thao

Sent: Tuesday, February 18, 2014 11:54 AM

To: All Spanish (Avisos_Sobre_Acciones_de_Permisos-Todos@lists02.valleyair.org)

Subject: Aviso Publico Sobre Acciones de Permisos S-1120775

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/2014/02-14-14 (S-1120775)/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

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 la clausura de cuatro tubinas de gas marca Solar (S-1131-970, -973, -974, y -1073), en los campos de petróleo Kern River. La cantidad de ERCs que serán otorgadas es 70,788 toneladas metricas de CO2e/año.

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

La revisión de la solicitud del Proyecto #S-1120775 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 shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at the Kern River oilfield. The quantity of ERCs to be issued is 70,788 metric tons of CO2e per year.

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

The application review for Project #S-1120775 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.





FEB 1 4 2014

Certified Mail

Jason H Donchin Chevron USA, Inc. PO Box 1392 Bakersfield, CA 93302

Notice of Final Action – Emission Reduction Credits RE:

> Facility Number: S-1131 **Project Number: S-1120775**

Dear Mr. Donchin:

The Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Chevron USA, Inc. for emission reductions generated by the shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at the Kern River oilfield. The quantity of ERCs to be issued is 70,788 metric tons of CO2e per year.

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 December 19, 2013. The District's analysis of the proposal was also sent to CARB and US EPA Region IX on December 16, 2013. No comments were received following the District's preliminary decision on this project.

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

Sincerely.

DaVid Warner

Director of Permit Services

DW:SDD/st

Enclosures

Mike Tollstrup, CARB (w/enclosure) via email CC: Gerardo C. Rios, EPA (w/enclosure) via email CC:

> Seyed Sadredin Executive Director/Air Pollution Control Officer

Southern Region





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

Emission Reduction Credit Certificate S-4113-24

ISSUED TO:

CHEVRON USA INC

ISSUED DATE:

February 13, 2014

LOCATION OF

HEAVY OIL CENTRAL

REDUCTION:

KERN COUNTY, CA

SECTION: 25 TOWNSHIP: 28S RANGE: 27E

For CO2E Reduction In The Amount Of:

36937 metric tons / year

[] Conditions Attached	d	:h	ac	Atta	ons	iti	ond	C	1	ſ
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Method Of Reduction

[] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

[] Other

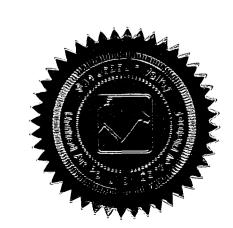
Shut down of two (S-1131-970 & '-973) Solar gas turbines verified as permanent within the State of California

Emission Reduction Qualification Criteria

This emission reduction is surplus and additional to all applicable regulatory requirements.

Seved Sadredin, Executive Director / APCO

David Warner, Director of Permit Services







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

Emission Reduction Credit Certificate S-4114-24

ISSUED TO:

CHEVRON USA INC

ISSUED DATE:

February 13, 2014

LOCATION OF

HEAVY OIL CENTRAL

REDUCTION:

KERN COUNTY, CA

SECTION: 25 TOWNSHIP: 28S RANGE: 27E

For CO2E Reduction In The Amount Of:

33851 metric tons / year

Conditions Attail	ach	าed
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Method Of Reduction

[] Shutdown of Entire Stationary Source

[X] Shutdown of Emissions Units

[] Other

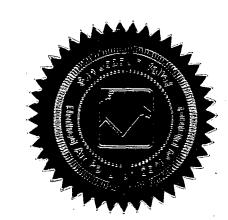
Shut down of two (S-1131-974 & '-1073) Solar gas turbines verified as permanent within the State of California

Emission Reduction Qualification Criteria

This emission reduction is surplus and additional to all applicable regulatory requirements.

Seved Sadredin, Executive Director / APCO

Qavid Warner, Director of Permit Services



Bakersfield Californian

Newspaper notice for publication in Bakersfield Californian and for posting on valleyair.org

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 shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at the Kern River oilfield. The quantity of ERCs to be issued is 70,788 metric tons of CO2e per year.

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

The application review for Project #S-1120775 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.

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 la clausura de cuatro tubinas de gas marca Solar (S-1131-970, -973, -974, y -1073), en los campos de petróleo Kern River. La cantidad de ERCs que serán otorgadas es 70,788 toneladas metricas de CO2e/año.

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

La revisión de la solicitud del Proyecto #S-1120775 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 shut down and removal of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974), at the Kern River oilfield. The quantity of ERCs to be issued is 70,788 metric tons of CO2e per year.

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

The application review for Project #S-1120775 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.

PROOF OF PUBLICATION

The BAKERSFIELD CALIFORNIAN P. O. BOX 440 **BAKERSFIELD, CA 93302**

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MAR 18 2014

STATE OF CALIFORNIA COUNTY OF KERN

I AM A CITIZEN OF THE UNITED STATES AND A RESIDENT OF THE COUNTY AFORESAID: I AM OVER THE AGE OF EIGHTEEN YEARS, AND NOT A PARTY TO OR INTERESTED IN THE ABOVE ENTITLED MATTER. I AM THE ASSISTANT PRINCIPAL CLERK OF THE PRINTER OF THE BAKERSFIELD CALIFORNIAN, A NEWSPAPER OF GENERAL CIRCULATION. PRINTED AND PUBLISHED DAILY IN THE CITY OF BAKERSFIELD COUNTY OF KERN.

AND WHICH NEWSPAPER HAS BEEN ADJUDGED A NEWSPAPER OF GENERAL CIRCULATION BY THE SUPERIOR COURT OF THE COUNTY OF KERN, STATE OF CALIFORNIA, UNDER DATE OF FEBRUARY 5, 1952, CASE NUMBER 57610: THAT THE NOTICE, OF WHICH THE ANNEXED IS A PRINTED COPY, HAS BEEN PUBLISHED IN EACH REGULAR AND ENTIRE ISSUE OF SAID NEWSPAPER AND NOT IN ANY SUPPLEMENT THEREOF ON THE FOLLOWING DATES, TO WIT:

ALL IN YEAR 2014

I CERTIFY (OR DECLARE) UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.

DATED AT BAKERSFIELD CALIFORNIA

Printed on 2/19/2014 at 8:44:40AM

Solicitor I.D.:

0

SJVUAPCD

First Text

NOTICE OF FINAL ACTION FOR THE ISSUANCE

Ad Number 13438831

NOTICE OF FINAL ACTION FOR THE ISSUANCE OF EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has lessed Emission Reduction Credits (EECs) to Chevron USA, Inc. (ERCs) to Chevron USA, Inc. for emission reductions generated by the shut down and removal of thus Solar gas turbines (S-1131-970, -973, -1073, and -974), at the Kern River oilfield. The quantity of ERCs to be Issued is 70,788 metric turns of CO2e per year.

5-1131

No comments were received following the District's preliminary decision on this project. The application review for Project #\$ 1120775 is available for public inspection at inspection at http://www.valleystr.org/no tices/public_notices_ldz.ht m, the SAN IOAQUIN VALLEY UNIFIED AIR POLILITION CONTRO!. DISTRICT_3946 FI.YOVER COURT.
RAKERSFIELD, CA 93308, and at my other District office. For additional information, ulease contact information, please contact the District at (66 l) 392-5500. 2/19/14 CNS-2589618#



PROJECT ROUTING FORM

FACILITY NAME:	Chevron USA II	nc				
FACILITY ID:	S-1131	F	PROJE	ECT NUMBER:	S-1120775	
PERMIT #'s:						·
DATE RECEIVED:	March 14, 2012	!		_		
PRELIMINARY I	REVIEW	ENGR	2	DATE	SUPR	DATE
A. Application Deemed I	ncomplete	501)		4-16-12	cs	Maliz
Second Information	Letter	500	,	5-10-13	CS-	5/20/13
B. Application Deemed C	Complete	Son		9-24-13	AP	9-24-13
C. Application Pending D	Penial					
D. Application Denied						
ENGINEERING	EVALUATION				INITIAL	DATE
E. Engineering Evaluatio	·	·				
 Project triggering Fed Yes AND Info No (not Fed M) 	rmation entered into		et)	·	514	10-29-13
 District is Lead Agen increase exceeds 23 Yes AND Info Not Required 				G emissions	,	
F. Supervising Engineer	Approval				\mathcal{A}	10-31-13
G. Compliance Division A	Approval [i/] Not F	Required				
H. Applicant's Review of	Draft Authority to Co	nstruct Comple	ted			
[] 3-day Review [] 10-day Review [] No Review Red						
I. Permit Services Regio	nal Manager Approv	al			N	12/13/13
DIRECTOR REV	/IEW [] Not Req	juired			INITIAL	DATE
J. Preliminary Approval to	Director					
K. Final Approval to Direc	ctor					



Gregory E. PritchaettManager – Health,
Environment and Safety

San Joaquin Valley BU Chevron North America Exploration and Production P.O. Box 1392 Bakersfield, CA 93302

September 12, 2013

Mr. Leonard Scandura San Joaquin Valley APCD 34946 Flyover Court Bakersfield, CA 93308 RECEIVED

SEP 1 3 2013

SJVAPCD Southern Region

RE: Supplement to Additional Information for Banking Application Project 2-1120775

Dear Mr. Scandura:

This letter a follow-up to Chevron U.S.A. Inc (CUSA) letter of August 22, 2013 responding to the District's request for additional information dated May 20, 2013 for the above referenced project to bank greenhouse gas emissions from the shutdown of four gas turbine engines (GTEs) located at the A and C Fee leases.

Chevron U.S.A. Inc's (CUSA's) previous letter provided information as to the geographic boundaries of the emission reductions for CUSA and stated that the reduction would be permanent for the State of California. This letter addresses the issue of permanence of oil production reductions in general for the State of California and how combustion emissions are not expected to increase without mitigation.

1. Oil Production In California Is Declining:

California oil field production has declined over the past thirty years and is approximately half of the amount produced in the 1980's. There have been no significant new oil discoveries in California during that time and the decline is expected to continue. Documentation of the decline is included as Attachment A.

2. Greenhouse Gas Emissions Will Not Increase Statewide:

CUSA and other companies with significant oil production are subject to the California Capand-Trade regulation for greenhouse gases. The regulation sets a declining cap on allowed emissions while employing market mechanisms to achieve emission reductions. In the capand-trade program, a limit, or cap is put on the amount of pollutants (i.e., GHGs) that can be emitted. The cap is implemented by creating allowances in a number equal to the cumulative emissions from all the covered sectors. These allowances may be auctioned, distributed for free, or allocated by some combination thereof. Sources in the capped sectors must report their emissions and must surrender allowances to match those emissions in accordance with the schedule in the regulation to achieve the reduced 2020 cap. Should oil production GHG emissions increase GHG allocations representing reductions from other covered sectors must be purchased and surrendered. Additional information on the Cap-and-Trade program is included as Attachment B.

Additional Information Banking Application Project S-1120775 September 12, 2013

Please telephone Lance Ericksen at (661) 654-7145 if you have any questions or require additional clarification.

Sincerely,

Gregory E. Pritchaett

Manager - Health, Environment and Safety

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SEP 1 3 2013

SJVAPCD Southern Region

Attachments

Additional Information Banking Application Project S-1120775 September 12, 2013

Attachment A California Oil Production



GLOSSARY . FAQS . OVERVIEW **ANALYSIS & PROJECTIONS** DATA View History: O Monthly

Annual Download Data (XLS File) California Field Production of Crude Oil ≡ Thousand Barrels 500,000 400,000 300.000 -200.000 100,000 2005 2010 - Californía Field Production of Crude Oil eia Source: U.S. Energy Information Administration California Field Production of Crude Oil (Thousand Barrels) Decade

374,161

293,090

248.170

381,621

286,060

240,206

394,002

278,977

229,350

378,059

282,409

223,449

364,608

285,172

218,525

354,730

283,627

214,544

331,174

273.017

207.094

Release Date: 3/15/2013 Next Release Date: 9/27/2013

320,868

271.132

201,385

365.370

319,497

260,663

193,691

373,176

305,488

257,898

196,324

Next Helease Date: 9/2//20

Referring Pages:

1980's

1990's

2000's

2010's

■ Crude Oil Production

^{- =} No Data Reported; -- = Not Applicable; NA = Not Available; W = Withheld to avoid disclosure of individual company data.

1

Attachment B

Cap and Trade Program

Reference www.arb.ca.gov/cc.capandtrade/guidance/chapter1.pdf

CHAPTER 1: HOW DOES THE CAP-AND-TRADE PROGRAM WORK?

1.1 What is the Cap-and-Trade Program?

The Cap-and-Trade Program will reduce greenhouse gas (GHG) emissions from major sources (covered entities) by setting a firm cap on statewide GHG emissions while employing market mechanisms to cost-effectively achieve the emission-reduction goals. The statewide cap for GHG emissions from major sources, which is measured in metric tons of carbon dioxide equivalent (MTCO₂e), will commence in 2013 and decline over time, achieving GHG emission reductions throughout the program's duration. Each covered entity will be required to surrender one permit to emit (the majority of which will be allowances, entities are also allowed to use a limited number of ARB offset credits) for each ton of GHG emissions they emit. Some covered entities will be allocated some allowances and will be able to buy additional allowances at auction, purchase allowances from others, or purchase offset credits.

1.2 What is the Mandatory Reporting of Greenhouse Gas Emissions Regulation?

The Cap-and-Trade Program is relies on data collected through the Mandatory Reporting of Greenhouse Gas Emissions Regulation (MRR) to identify major sources of greenhouse gas emissions in California. The MRR was originally adopted in 2007 and was updated in 2011 to meet the needs of the Cap-and-Trade Program. The MRR requires facilities, fuel, and carbon dioxide (CO₂) suppliers—as well as electric power entities—to report their annual GHG emissions in 2009 and every year thereafter. A detailed description of the reporting Regulation can be found in the Mandatory Reporting Guidance Document available at http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm.

1.3 What are the Basic Components of the Cap-and-Trade Program?

1.3.1. What Is an Allowance?

An allowance is a tradable permit to emit one metric ton of a carbon dioxide equivalent greenhouse gas emission. The total number of allowances provided by ARB each year will be equivalent to the annual allowance budget specified in the Regulation. Each allowance will have a unique serial number.

1.3.2. What Is an Offset Credit?

An offset credit is equivalent to a GHG reduction or GHG removal enhancement of one metric ton of CO₂e. The GHG reduction or GHG removal enhancement must be real, additional, quantifiable, permanent, verifiable, and enforceable and may only be issued to offset projects using approved Compliance Offset Protocols. ARB offset credits, along with allowances, are frequently referred to as "compliance instruments" since they are used by entities to comply with the program. However, a covered entity may only meet up to 8 percent of its compliance obligation using ARB offset credits. More information on the requirements for offset credits, approved Compliance Offset Protocols, and offset projects can be found in Chapter 6.

1.3.3 What Is a Compliance Period?

A compliance period is the time frame during which the compliance obligation is calculated. The years 2013 and 2014 are known as the "first compliance period," and the years 2015–2017 are known as the "second compliance period." The third compliance period is from 2018–2020. At the end of each compliance period each facility will be required to turn in compliance instruments, including allowances and a limited number of ARB offset credits, equivalent to their total GHG emissions throughout the compliance period.

1.4 Who Will Have to Comply with the Cap-and-Trade Program?

Starting in 2012, major GHG-emitting sources, such as electricity generation (including imports), and large stationary sources (e.g., refineries, cement production facilities, oil and gas production facilities, glass manufacturing facilities, and food processing plants) that emit more than 25,000 MTCO₂e per year will have to comply with the Cap-and-Trade Program. The program expands in 2015 to include fuel distributors (natural gas and propane fuel providers and transportation fuel providers) to address emissions from transportation fuels, and from combustion of other fossil fuels not directly covered at large sources in the program's initial phase. Additional information, including a preliminary list of the covered entities, can be found in Chapter 2 and at http://www.arb.ca.gov/cc/capandtrade/covered entities list.pdf.

1.5 How Do I Determine if My Company Needs to Comply with Cap-and-Trade Program?

Most facilities within the specified sectors mentioned above that emit GHGs will have to comply with the Cap-and-Trade Program and/or the Mandatory Reporting Regulation. Some facilities will be required to report their annual emissions but not have to surrender compliance instruments. This is determined by the type of energy or industrial sector and the facility's annual GHG emissions. For example, most industries that emit 10,000 or greater metric tons of CO₂e are required to report their GHGs whereas, the subset of industrial facilities with annual emissions equal to or greater than 25,000 metric tons of CO₂e are required to comply with the Cap-and-Trade Program. To determine if your facility is subject to both or either regulation, please refer to the detailed description in Chapter 2.

1.5.1 What Does My Company Have to Do in Order to Comply with the Cap-and-Trade Regulation?

To comply with the Cap-and-Trade Regulation, each facility must register with ARB, report its annual GHG emissions, create the necessary accounts, designate an account authorized representative, and surrender compliance instruments by the established deadlines. Facilities are also required to retain their records for 10 years. A more detailed explanation of each of these requirements is located in Chapter 3.

1.6 What Is a Compliance Obligation, and How Does My Company Determine How Many Allowances and ARB Offset Credits We Need to Surrender?

A company's *compliance obligation* is equivalent to the quantity of allowances or a limited number of ARB offset credits a facility is required to surrender to ARB by a specified deadline in order to comply with the Cap-and-Trade Program. Each facility's compliance obligation will be determined by the quantity of reported and verified GHGs emissions. ARB will directly allocate a proportion of allowances to qualified facilities subject to the program. Each facility will be responsible for acquiring the remaining allowances or limited number of offset credits to comply with the program. Chapter 3 describes how to estimate the quantity of allowances your facility will be freely allocated. A discussion of how to acquire allowances and offset credits can be found in Chapter 5.

1.7 What Are the Deadlines for Each Action Required by My Company?

Table 1.1 summarizes the major compliance requirements for covered entities. Please refer to the subsequent chapters in this document and the Regulation for additional details.

Table1.1. Main Compliance Deadlines for Covered Entities								
Event	Description	Regulation Location	Occurrence					
Reporting and Verification								
MRR reporting deadline for most entities	Deadline to submit GHG reports to ARB using the online mandatory reporting tool. Applies to all stationary sources that are not electric power entities.	95103 (e)	April 10 of each year					
MRR reporting deadline for electric power entities	Deadline to submit GHG reports to ARB using the online mandatory reporting tool. Applies to all electric power entities.	95103 (e)	June 1 of each year					
MRR verification deadline	Deadline of verification statement to be received by ARB from verification body.	95103 (f)	September 1 of each year					

Deadline for Offset Verification Statements	Deadline of offset verification statements to be received by ARB.	95977 (d)	Within nine months after the conclusion of the Reporting Period for which offset verification services were performed.
Opt-in Covered Entities Reporting Deadline	Deadline for opt-in covered entities to submit GHG reports to ARB using the online mandatory reporting tool.		 In 2012, the recommended deadline was June 1, 2012. For years 2013 and subsequent, the recommended deadline is April 10.
	Program Registr	ation	
Program registration deadline for covered entities	Deadline to register for the Cap-and-Trade Program for covered entities	95830 (d)(1)(B)	January 31, 2012
Registration deadlines for new entrants	Deadline to register for the Cap-and-Trade Program for facilities that became covered entities	95830 (d)(1)(A)	Within 30 calendar days of the reporting deadline contained in the MRR if the entity is not a covered entity as of January 1, 2013.
Request to Opt Into Program	Opt-in covered entities must submit a request to opt into program by requesting a user ID through the Compliance Instrument Tracking System Service (CITSS).	95830 (d)(2)	 In 2012, opt-in covered entities should make their request by November 30, 2012. For 2013 and subsequent years, opt-in covered entities should make their request by March 1.
	Allocation		
Allocation to utilities for the next calendar year	Distribution of free allowances into utilities' holding account for the following calendar year emissions. For example, on July 15, 2012, allowances will	95870 (d)	September 14, 2012; November 1 of 2013 to 2019.

	be distributed for the 2013 calendar year.		
Allocation to industry for the next calendar year	Distribution of free allowances into industrial facilities' holding account for the following calendar year emissions. For example, on November 1, 2012, allowances will be distributed for the 2013 calendar year.	95870 (e)	November 1 of 2012 to 2019
POU (Publically Owned Utility) Compliance/Holding Accounts	POUs must inform ARB of the share of their allowances that should be placed in compliance versus holding accounts	95892 (b)(2)	September 1 of 2012 to 2019
	Auction		
Auction Registration	Registration deadline for Auctions	95912 (c)(2)	Registration deadline for an auction occurs 30 days prior to the auction.
Auction	Auction of compliance allowances	95910 (a)	In 2012, single auction on November 14. Starting 2013, four auctions will occur each year on the twelfth business day, or first business day thereafter, of the second month of each quarter. For example, 2013 auctions will be held February 19, May 16, August 16, and November 19.

	[m] - 4 ' -	05040	Tt - 1 - 10 - 4
Deadline for	Electric utilities can	95910	The deadline to
allowances to be	consign allowances to	(d)(4)	consign allowances to
consigned to auction	be sold in the auctions.		the auction occurs 10
	These allowances must		days prior to the
	be consigned ahead of		auction in 2012, and
	time.		75 days prior to the
			auction in 2013 and
	Calard Danas Alle		thereafter.
	Sale of Reserve Allo	wances	
Sale of Allowances	In addition to the	95913	Sale of allowances
from the Allowance	auction, allowances are	(c)(3)	through the allowance
Price Containment	sold from the allowance		price containment
Reserve	price containment		reserve occurs 6
	reserve at three		weeks after the
	reserve price tiers,		standard allowance
	starting at \$40, \$45,		auction. Bids must be
	and \$50 per allowance		submitted 2 weeks
:	in 2013. Only covered		prior to sale of
	entities and opt-in		allowances.
	covered entities may		
	participate in this sale.		
	Surrender		
Compliance	Allowances must be	95856 (d)	Annual surrender of
Instrument Surrender	surrendered annually to	93630 (u)	compliance
Deadline; (A) —	ARB in the amount		instruments occurs on
Annual Surrender, (T)	according to a facility's		Nov. 1 of the calendar
— Triennial Surrender	compliance obligation,		year following a year
Meilliai Sufferiuei	determined by the		of reported emissions.
	facility's emissions. The		For example the
	annual compliance		surrender of
	obligation is 30 percent		instruments for 2013
	of the reported		will occur Nov. 1,
	emissions of the		2014. Triennial
	previous year. The		surrender occurs the
	triennial compliance		calendar year
	•	1	Calcillar year
	obligation is the sum of		following the end of a
	obligation is the sum of the reported emissions		following the end of a
	the reported emissions		compliance period.
	the reported emissions during a compliance		compliance period. Compliance periods
	the reported emissions during a compliance obligation minus the		compliance period. Compliance periods are 2013–2014,
	the reported emissions during a compliance obligation minus the instruments		compliance period. Compliance periods are 2013–2014, 2015–2017, and
	the reported emissions during a compliance obligation minus the instruments surrendered as part of		compliance period. Compliance periods are 2013–2014, 2015–2017, and 2018–2020. Thus,
	the reported emissions during a compliance obligation minus the instruments surrendered as part of the annual compliance		compliance period. Compliance periods are 2013–2014, 2015–2017, and 2018–2020. Thus, triennial surrender will
	the reported emissions during a compliance obligation minus the instruments surrendered as part of		compliance period. Compliance periods are 2013–2014, 2015–2017, and 2018–2020. Thus,

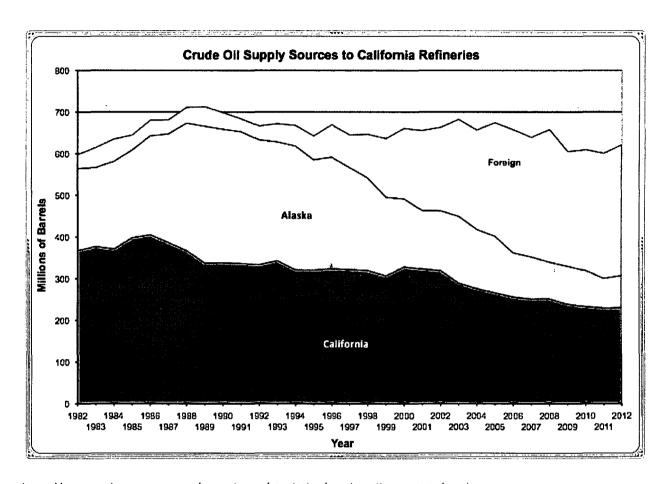
1.8 What Happens if My Company Cannot Meet a Deadline?

Facilities that do not adhere to the Cap-and-Trade Program requirements will be subject to stringent penalties. The Health and Safety Code allows ARB to determine the appropriate enforcement mechanism based on the specific circumstances for a rule violation.

1.9 How Do I Create an Offset Project?

There are stringent requirements for developing offset projects that may generate ARB offset credits used for compliance. Currently, there are four Compliance Offset Protocols that are approved and may be used to develop offset projects under the Capand-Trade Program. They are urban forestry, forestry, livestock digesters, and destruction of ozone-depleting substances.

We strongly recommend that each party interested in developing an offset project review the qualification criteria outlined in Chapter 6 of this document and speak with ARB or an approved Offset Project Registry.



http://energyalmanac.ca.gov/petroleum/statistics/crude_oil_receipts.html



Jason H. Donchin Manager – Health, Environment, and Safety San Joaquin Valley BU Chevron North America Exploration and Production P.O. Box 1392 Bakersfield, CA 93302

RECEIVED

AUG 2 2 2013

SJVAPCD Southern Region

August 22, 2013

Mr. Leornard Scandura San Joaquin Valley APCD 34946 Flyover Court Bakersfield, CA 93308

RE: Response to Request for Additional Information Banking Application Project 2-1120775

Dear Mr. Scandura:

This letter is in response to the District's request for additional information dated May 20, 2013 for the above referenced project to bank greenhouse gas emissions from the shutdown of four gas turbine engines (GTEs) located at the A and C Fee leases.

Chevron U.S.A. Inc. (CUSA) does not believe that District Rules 2201 and 2301 require permanence be demonstrated beyond the boundaries of the emission unit. The qualification for banking from the shutdown of each turbine was demonstrated with the original submission and in CUSA's letter of June 12, 2012. A copy of of the June 12, 2012 letter is included as Attachment 1.

However, in order to move forward with this application CUSA is providing the following to responses to your letter of May 20, 2013.

The Chevron's response to the information requested is as follows:

1. Specify the geographical boundary:

The geographical location of two GTEs was the A Fee lease in the Kern River Oilfield and the C Fee lease in the Kern River oilfield. The Kern River oilfield is located northeast of Bakersfield in Kern County. A map is attached showing the location and of the A Fee and C Fee leases is included as Attachment 2.

2. Provide and explanation of how the emission reduction is not shifted to other equipment or processes.

CUSA operated the GTEs at the A Fee and C Fee leases. The banking project proposed to bank credits for the two A Fee GTEs during common baseline period most representative of normal operation and for the two C Fee GTEs during a slightly different period most representative of their operation. The permits for all four GTEs have been surrendered and the GTEs have been removed. CUSA does not hold any permits for GTEs on the A Fee or C Fee leases. Any new equipment necessary to generate steam will be subject to NSR and PSD programs.

In addition historical data shows that there was no increase in fuel use from the steam equipment in the stationary source due to the Fee A and Fee C reduction in steam. This information is included as Attachment 3.



Jason H. Donchin Manager – Health, Environment, and Safety San Joaquin Valley BU
Chevron North America
Exploration and Production Courtnern Region
P.O. Box 1392

Bakersfield, CA 93302

June 12, 2012

Mr. Leornard Scandura San Joaquin Valley APCD 34946 Flyover Court Bakersfield, CA 93308

RE: Response to Notice of Incomplete CO2E Banking Applications Projects S-1120775 and S-1120776 and Comments on Project S-1111565

Dear Mr. Scandura:

This letter is in response to the District Notices of Incomplete Applications dated April 19, 2012 for the above referenced projects.

The additional information requested asks Chevron U.S.A. Inc. (CUSA) to quantify CO2E increases that may occur elsewhere as a result of the reduction in combustion emission from the shutdown of specific emissions units. CUSA does not believe that the requested information is necessary to bank these CO2E emission reductions for the following reasons:

- 1. The CO2E reductions meet the requirements of real, enforceable, quantifiable, surplus and permanent as required for greenhouse banking under Rule 2301 for the emissions units units.
- Rule 2301 does not govern the use of emission reduction credits. Limitations or adjustments to
 greenhouse gases emissions need not be imposed at the time of banking. Qualification for
 use can only be determined under the program that uses the credits.
- 3. Emissions increases of CO2E that may occur elsewhere are adequately addressed by other regulatory requirements.

Supporting information for each response is attached.

After you have reviewed our response we would be pleased to meet with you to discuss how we may best proceed with the proposed projects.

If you have any questions or require additional information, please telephone John Gruber at (661) 654-7144, or Lance Ericksen at (661) 654-7145.

Sincerely,

Manager - Health, Environment and Safety

CC: Steve Davidson, David Torii, Steve Roeder

Response to Notice of Incomplete Banking Applications Project C-1120775 August 22, 2013

Based on the above information and information previously submitted CUSA believes the District the may establish the State of California as their geographical boundary.

After you have reviewed our response we would be pleased to meet with you to discuss any questions you may have.

Please telephone Lance Ericksen at (661) 654-7145 if you require additional clarification.

Sincerely,

ason H. Donchin

Manager - Health, Environment and Safety

Response to Notice of Incomplete Banking Applications Projects C-1120775 and S-1120776 June 12, 2012

Information requested:

Project S-1120775 - Bank CO2E from the shutdown of four gas turbine engines

Please provide documentation that the emissions form electrical and thermal energy produced by the turbines are permanent, i.e. electrical and thermal energy is not being replaced by any new or existing equipment.

Project S-1120776 - Bank CO2E from the shutdown of three IC engines

Please submit information needed to calculate CO2E emissions from the power plant that supplies power to the electric motors that now power the compressors.

CUSA Response 1

The CO2E reductions meet the requirements of real, enforceable, quantifiable, surplus and permanent as required for greenhouse banking under Rule 2301 for the emissions units.

Section 3.8 of Rule 2301 defines Emission Reduction Credits (ERCs) as: reduction of actual emissions of affected pollutants or greenhouse gas emission from **emissions unit** recognized by the District as available for use as tradeoffs, offsets, CEQA mitigation or other purposes, in accordance with the requirements of this rule. To be eligible for certification as ERCs, emissions reductions must be real, surplus, permanent, quantifiable and enforceable. All emission reductions meeting these requirements meeting these requirements may be certified as ERCs.

Section 3.1 of Rule 2301 defines Actual Emission Reduction: as defined in Rule 2201

Rule 2201 section 3.2 defines Actual Emission Reduction (AER) as the decrease of actual emission, compared to the Baseline Period, from an emissions unit and selected for use as emission offsets or ERC banking.

Rule 2201 section 3.1 defines Actual Emissions: emissions having occurred from a source, based on source test or monitoring data, actual fuel consumption, and process data. Used in this context source refers to the source operation (Rule 1020 3.46) i.e. the emissions unit (Rule 2201 3.17). Elsewhere source may refer to the Stationary Source (Rule 2201 3.39) all equipment owned by a company at a specific location. It would appear the rule does not extend beyond company specific equipment.

Section 4.5.4 of Rule 2301 states: Greenhouse gas emission reductions are calculated as the difference between the historic annual average greenhouse gas emissions (as CO2E) calculated using the consecutive 24 month period immediately prior to the date of the emission reduction occurred, or another 24 month period in the 60 months prior to the date the emission reduction occurred if determined by the APCO as more representative of normal operations, and the potential greenhouse gas emissions (as CO2E) after the project is complete...

Information supplied with the banking applications including actual fuel consumption for each gas turbine and each IC engine quantified the actual emissions of CO2E from each emissions unit. The permits for the gas turbines and engines have been surrendered and the equipment has been removed or is in the process of being removed. The **emissions units** (the identifiable operation that emit CO2E) no longer have any potential greenhouse gas emissions therefore, for the **emissions units**, the reduction in actual CO2E emissions as quantified by Rule 2301 Section 4.5.4 meet the qualifications for banking under Rule 2301 and can be banked as presented in the application.

Response to Notice of Incomplete Banking Applications Projects C-1120775 and S-1120776 June 12, 2012

CUSA Response 2

Rule 2301 does not govern the use of emission reduction credits. Limitations or adjustments to greenhouse gas emissions need not be imposed at the time of banking. Qualification for use can only be determined under the program that uses the credits.

Section 1.2.1 of Rule 2301 for greenhouse gasses states the purpose is to "Provide an administrative mechanism for sources to bank voluntary greenhouse gas emission reductions for later use".

Rule 2301 Section 7.5 states that the rule does not define or mandate any uses of banked greenhouse gas emission reductions.

Based on the above references Rule 2301 is administrative and does not govern the use of greenhouse gas emission reductions. The rule presumes other regulations are or will be developed to address the use of banked greenhouse gas credits. To discount a portion of the reductions based on assumed increases elsewhere by equipment that may or may not be under control of Chevron's control goes beyond the administrative scope of the banking rule. At the time banked CO2E credits are proposed for use the amount of available credits would need to be determined under the applicable program. It is premature, and inconsistent with Rule 2301, to attempt to make this determination at the time of banking.

CUSA Response 3

Emissions increases of CO2E that may occur elsewhere are adequately addressed by other regulatory requirements.

On October 20, 2011 the California Air Resources Board approved the Cap-and-Trade regulation for greenhouse gases. The regulation sets a declining cap on allowed emissions while employing market mechanisms to achieve emission reductions. An overall 2020 targeted limit of 334.2 million metric tons (MMT) of carbon dioxide equivalent (CO2e) on GHG emissions from most of the California economy – the "capped sectors" – is established by the cap-and-trade program. In the cap-and-trade program, a limit, or cap is put on the amount of pollutants (i.e., GHGs) that can be emitted. The cap is implemented by creating allowances in a number equal to the cumulative emissions from all the covered sectors. Each allowance provides a limited authorization to emit one metric ton (MT) of CO2e. These allowances may be auctioned, distributed for free, or allocated by some combination thereof. Sources in the capped sectors must report their emissions and must surrender allowances to match those emissions in accordance with the schedule in the regulation to achieve the 2020 cap.

Capped sectors include oil, gas production and electrical generation and most other large industrial operations. Any increases in greenhouse gas emissions that would occur elsewhere as a result of the shutdown of the emissions units in these projects must be accommodated under the Cap-and-Trade regulation to achieve the overall 2020 cap. It is therefore, not necessary to quantify increases in greenhouse gas emissions that may occur elsewhere due to the shutdown of these emissions units. The Cap-and-Trade regulation provides an adequate mechanism to address any potential increase.

Summary

The information supplied with the banking applications for these projects is sufficient to demonstrate that the greenhouse gas emission reductions are real, surplus, permanent, quantifiable and enforceable actual emission reductions for the emissions units. Imposing limits on greenhouse reductions based on subjective assumptions about increases elsewhere is not required by Rule 2301, and can only be determined by programs that use greenhouse gas credits. In any case emission increases in greenhouse gases are adequately addressed by the California Cap-and-Trade regulation. Increases that might occur must be accommodated under Cap-and-Trade to achieve the fixed 2020 cap.

Attachment 2: Historical NOx Emissions and Fuel Use from steam generators/turbines at S-1127 and S-1131

NOx								
		2005	2006	<u>2007</u>	2008	2009	<u>2010</u>	<u> 2011</u>
<u>Facility</u>								
S-1127		30.75	30.34	26.25	28.77	24.48	23.49	23.35
S-1131		110.34	143.45	146.63	135.26	64.12	49.76	16.78
Total		141.09	173.79	172.88	164.03	88.60	73.25	40.13
Fuel	[mmcf]	<u>2005</u>	<u>2006</u>	<u>2007</u>	2008	<u>2009</u>	<u>2010</u>	<u> 2011</u>
Facility		2003	<u>2000</u>	<u>2007</u>	2000	2003	2010	2011
S-1127		5237.11	5015.33	3871.22	3911.45	3681.65	3684.86	3540.13
S-1131		4232.48	6496.02	6447.84	6400.62	3854.54	4265.13	3225.11
Total		9469.59	11511.35	10319.06	10312.07	7536.19	7949.99	6765.24





MAY 2-0 2013

Jason H. Donchin Chevron USA P O Box 1392 Bakersfield, CA 93302

RE: Application for greenhouse gas Emission Reduction Credits Project Number: S-1120775

Dear Mr. Donchin:

On June 13, 2012, the District received your Emission Reduction Credit application to bank greenhouse gas emission (GHG) emission reductions that occurred as a result of CO2e emission reduction credits associated with the shutdown of four gas turbine engines at the A-Fee and C fee leases. We have determined that the following information is necessary to allow us to continue to process your application:

- 1. Please, specify the geographic boundary in which the GHG emission reduction project is permanent.
- Provide an explanation/justification of how the GHG emission reduction is permanent (i.e. not shifted to other equipment or processes) within the boundary of the emission reduction project.

Please submit the requested information within 90 days. Thank you for your cooperation in this matter. Should you have any questions, please telephone Steve Davidson at (661) 392-5618.

Sincerely,

David Warner

Director of Permit Services

Leonard Scandura, P.E. Permit Services Manager

DW:sdd

Seved Sadredin

Executive Director/Air Pollution Control Officer

Northern Region

4800 Enterprise Way Modesto, CA 95356-8718

Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)

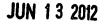
1990 E. Gettysburg Avenue Fresno, CA 93726-0244

Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region

34946 Flyover Court Bakersfield, CA 93308-9725

Tel: 661-392-5500 FAX: 661-392-5585





Jason H. Donchin Manager – Health, Environment, and Safety San Joaquin Valley Suthern Region Chevron North America Exploration and Production P.O. Box 1392 Bakersfield, CA 93302

June 12, 2012

Mr. Leornard Scandura San Joaquin Valley APCD 34946 Flyover Court Bakersfield, CA 93308

RE: Response to Notice of Incomplete CO2E Banking Applications Projects S-1120775 and S-1120776 and Comments on Project S-1111565

Dear Mr. Scandura:

This letter is in response to the District Notices of Incomplete Applications dated April 19, 2012 for the above referenced projects.

The additional information requested asks Chevron U.S.A. Inc. (CUSA) to quantify CO2E increases that may occur elsewhere as a result of the reduction in combustion emission from the shutdown of specific emissions units. CUSA does not believe that the requested information is necessary to bank these CO2E emission reductions for the following reasons:

- 1. The CO2E reductions meet the requirements of real, enforceable, quantifiable, surplus and permanent as required for greenhouse banking under Rule 2301 for the emissions units units.
- 2. Rule 2301 does not govern the use of emission reduction credits. Limitations or adjustments to greenhouse gases emissions need not be imposed at the time of banking. Qualification for use can only be determined under the program that uses the credits.
- Emissions increases of CO2E that may occur elsewhere are adequately addressed by other regulatory requirements.

Supporting information for each response is attached.

After you have reviewed our response we would be pleased to meet with you to discuss how we may best proceed with the proposed projects.

If you have any questions or require additional information, please telephone John Gruber at (661) 654-7144, or Lance Ericksen at (661) 654-7145.

Sincerely.

Jason H. Donchin ✓ Manager – Health, Environment and Safety

CC: Steve Davidson, David Torii, Steve Roeder

Response to Notice of Incomplete Banking Applications Projects C-1120775 and S-1120776 June 12, 2012

Information requested:

Project S-1120775 - Bank CO2E from the shutdown of four gas turbine engines

Please provide documentation that the emissions form electrical and thermal energy produced by the turbines are permanent, i.e. electrical and thermal energy is not being replaced by any new or existing equipment.

Project S-1120776 - Bank CO2E from the shutdown of three IC engines

Please submit information needed to calculate CO2E emissions from the power plant that supplies power to the electric motors that now power the compressors.

CUSA Response 1

The CO2E reductions meet the requirements of real, enforceable, quantifiable, surplus and permanent as required for greenhouse banking under Rule 2301 for the emissions units.

Section 3.8 of Rule 2301 defines Emission Reduction Credits (ERCs) as: reduction of actual emissions of affected pollutants or greenhouse gas emission from **emissions unit** recognized by the District as available for use as tradeoffs, offsets, CEQA mitigation or other purposes, in accordance with the requirements of this rule. To be eligible for certification as ERCs, emissions reductions must be real, surplus, permanent, quantifiable and enforceable. All emission reductions meeting these requirements meeting these requirements may be certified as ERCs.

Section 3.1 of Rule 2301 defines Actual Emission Reduction; as defined in Rule 2201

Rule 2201 section 3.2 defines Actual Emission Reduction (AER) as the decrease of actual emission, compared to the Baseline Period, from an **emissions unit** and selected for use as emission offsets or ERC banking.

Rule 2201 section 3.1 defines Actual Emissions: emissions having occurred from a source, based on source test or monitoring data, actual fuel consumption, and process data. Used in this context source refers to the source operation (Rule 1020 3.46) i.e. the emissions unit (Rule 2201 3.17). Elsewhere source may refer to the Stationary Source (Rule 2201 3.39) all equipment owned by a company at a specific location. It would appear the rule does not extend beyond company specific equipment.

Section 4.5.4 of Rule 2301 states: Greenhouse gas emission reductions are calculated as the difference between the historic annual average greenhouse gas emissions (as CO2E) calculated using the consecutive 24 month period immediately prior to the date of the emission reduction occurred, or another 24 month period in the 60 months prior to the date the emission reduction occurred if determined by the APCO as more representative of normal operations, and the potential greenhouse gas emissions (as CO2E) after the project is complete.

Information supplied with the banking applications including actual fuel consumption for each gas turbine and each IC engine quantified the actual emissions of CO2E from each emissions unit. The permits for the gas turbines and engines have been surrendered and the equipment has been removed or is in the process of being removed. The **emissions units** (the identifiable operation that emit CO2E) no longer have any potential greenhouse gas emissions therefore, for the **emissions units**, the reduction in actual CO2E emissions as quantified by Rule 2301 Section 4.5.4 meet the qualifications for banking under Rule 2301 and can be banked as presented in the application.

Response to Notice of Incomplete Banking Applications Projects C-1120775 and S-1120776 June 12, 2012

CUSA Response 2

Rule 2301 does not govern the use of emission reduction credits. Limitations or adjustments to greenhouse gas emissions need not be imposed at the time of banking. Qualification for use can only be determined under the program that uses the credits.

Section 1.2.1 of Rule 2301 for greenhouse gasses states the purpose is to "Provide an administrative mechanism for sources to bank voluntary greenhouse gas emission reductions for later use".

Rule 2301 Section 7.5 states that the rule does not define or mandate any uses of banked greenhouse gas emission reductions.

Based on the above references Rule 2301 is administrative and does not govern the use of greenhouse gas emission reductions. The rule presumes other regulations are or will be developed to address the use of banked greenhouse gas credits. To discount a portion of the reductions based on assumed increases elsewhere by equipment that may or may not be under control of Chevron's control goes beyond the administrative scope of the banking rule. At the time banked CO2E credits are proposed for use the amount of available credits would need to be determined under the applicable program. It is premature, and inconsistent with Rule 2301, to attempt to make this determination at the time of banking.

CUSA Response 3

Emissions increases of CO2E that may occur elsewhere are adequately addressed by other regulatory requirements.

On October 20, 2011 the California Air Resources Board approved the Cap-and-Trade regulation for greenhouse gases. The regulation sets a declining cap on allowed emissions while employing market mechanisms to achieve emission reductions. An overall 2020 targeted limit of 334.2 million metric tons (MMT) of carbon dioxide equivalent (CO2e) on GHG emissions from most of the California economy – the "capped sectors" – is established by the cap-and-trade program. In the cap-and-trade program, a limit, or *cap* is put on the amount of pollutants (i.e., GHGs) that can be emitted. The cap is implemented by creating allowances in a number equal to the cumulative emissions from all the covered sectors. Each allowance provides a limited authorization to emit one metric ton (MT) of CO2e. These allowances may be auctioned, distributed for free, or allocated by some combination thereof. Sources in the capped sectors must report their emissions and must surrender allowances to match those emissions in accordance with the schedule in the regulation to achieve the 2020 cap.

Capped sectors include oil, gas production and electrical generation and most other large industrial operations. Any increases in greenhouse gas emissions that would occur elsewhere as a result of the shutdown of the emissions units in these projects must be accommodated under the Cap-and-Trade regulation to achieve the overall 2020 cap. It is therefore, not necessary to quantify increases in greenhouse gas emissions that may occur elsewhere due to the shutdown of these emissions units. The Cap-and-Trade regulation provides an adequate mechanism to address any potential increase.

Summary

The information supplied with the banking applications for these projects is sufficient to demonstrate that the greenhouse gas emission reductions are real, surplus, permanent, quantifiable and enforceable actual emission reductions for the emissions units. Imposing limits on greenhouse reductions based on subjective assumptions about increases elsewhere is not required by Rule 2301, and can only be determined by programs that use greenhouse gas credits. In any case emission increases in greenhouse gases are adequately addressed by the California Cap-and-Trade regulation. Increases that might occur must be accommodated under Cap-and-Trade to achieve the fixed 2020 cap.





APR 19 2012

Jason H. Donchin P O Box 1392 Bakersfield, CA 93302

Re:

Notice of Incomplete Application

Project Number: S-1120775

Dear Mr. Donchin:

The District has received your Permit To Operate application for CO2e emission reduction credits associated with the shutdown of four gas turbine engines, at the A Fee and C fee leases. Based on our preliminary review, the application has been determined to be incomplete. The following information is required prior to further processing:

 Please provide documentation that the emissions from the electrical and thermal energy produced by the turbines are permanent, i.e. electrical and thermal energy is not being replaced by any new or existing equipment.

In response, please refer to the above project number, and send to the attention of Mr. Steve Davidson.

Please submit the requested information within 30 days. The District will not be able to process your application until this information is received.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Steve Davidson at (661) 392-5618.

Sincerely,

David Warner

Director of Permit Services

eonard Scandura, P.E. Permit Services Manager

DW:sdd



Jason H. Donchin Manager – Health, Environment, and Safety San Joaquin Valley SBU Chevron North America Exploration and Production P.O. Box 1392 Bakersfield, CA 93302

March 12, 2012

Leonard Scandura
San Joaquin Valley APCD
34946 Flyover Court
Bakersfield, California 93308

MAR 14 2012

SJVAPCD
Southern Region

RE: Application for CO2E Emission Reduction Credit Banking Certificate

Dear Mr. Scandura:

Chevron U.S.A. Inc. (CUSA) shutdown the Kern River A Fee and C Fee gas turbines (Permits S-1131-970, -973, -974 and -1079) in June of 2010. Pursuant to District Rule 2301 – Emission Reduction Credit Banking as amended January 19, 2012 CUSA is submitting this application for CO2E Banking Certificates. 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 \$759.00 check for application filing fee.

If you have any questions, please contact John Gruber at phone number (661) 654-7144, or Mr. Lance Ericksen, our HES Business Partner, at phone number (661) 654-7145.

on Sason Donchin

Sincerely.

Jason H. Donchin

Health, Environment and Safety Manager

JG/LE

San Joaquin Valley Air Pollution Control District/MAR 14 2012

Application for

SJVAPCD Southern Region

[X] EMISSION REDUCTION CREDIT (ERC)

[] CONSOLIDATION OF ERC CERTIFICATES

1.	ERC TO BE ISSUED TO: Chevron U.S	S.A. Inc.	· .	· · · · · · · · · · · · · · · · · · ·		=	Facility ID: S-1131 (if known)
2.		O. Box 1392 kersfiled			Stale:	CA Zip Code: 933	302
3.	LOCATION OF REDUCTION: Street: A Fee and C Fee City: Kern River Oilfield					4. DATE OF REDUC	CTION: June 2010
	SECTION 25/30 TOWNSHIP 28S	RANGE	27E				· .
5.	PERMIT NO(S): S-1131-970, '973, '974, '1079			EX	CISTING ERC	C NO(S):	
6.	METHOD RESULTING IN EMISSION REDU	CTION:		"			
	[X] SHUTDOWN [] RETRO	FIT	[] PR	OCESS CHA	NGE	[]OTHER	
	DESCRIPTION: Shutdown of A Fee and C	Fee Gas Tu	ırbines				
(Us	e additional sheets if necessary)						
7.	REQUESTED ERCs: (In pounds per calendar q	uarter except	CO ₂ e)				
	Voc	NOx		CO	PM ₁₀	SOx	Other
	1 st Qtr			<u> </u>			
	2 rd Qtr 3 rd Qtr		-				
	4 th Qtr						
	CO ₂ e 73,751	netric ton/yr					
8.	SIGNATURE OF APPLICANT:		•	TYPE OR	PRINT TITL	E OF APPLICANT:	
_	flut fuler for Sasan	Dones	kin	Manager	Health Env	ironment, and Safe	ty
9.	TYPE OR PRINT NAME OF APPLICANT:					DATE:	TELEPHONE NO:
	Jason H. Donchin					3-12-202	
FOR	APCD USE ONLY:					CHEU	m
	DATE STAMP	FILING FE RECEIVED	E 5 75	9-,			# 24671 228
		DATE PAII	D: P1	n 3/12/	12		
						ILITY ID.: 5-11	31

Initial ERC App

IV. Method of Generating Reduction:

The natural gas fueled turbines have been shutdown and the permits surrendered.

V. ERC Calculations:

Greenhouse Gas Emission reductions are banked in accordance with Section 4.5 of Rule 2301. Section 4.5.3 requires the greenhouse gas emission reductions be real, surplus, permanent, quantifiable and enforceable.

A. Assumptions and Emission Factors

Emission reductions of CO2E have been calculated using measured and recorded heat input values for the turbines. Fuel use is tabulated and presented in Appendix A.

Emissions factors from the California Air Resources Board Regulation for the Mandatory Reporting of Greenhouse Gas Emissions, Appendix A, are used to quantify CO2E. The emissions factors are as shown below:

Carbon Dioxide - Natural Gas Combustion - 53.02 Kg CO₂/MMBtu
Methane – Natural Gas Combustion - 0.9 g CH₄/MMBtu, 0.0009 Kg CH₄/MMBtu
Nitrous Oxide – Natural Gas Combustion – 0.1 g N₂O/MMBtu. 0.0001 Kg N₂O/MMBtu

Rule 2301 Table 1 Conversion factors are used to convert Methane and Nitrous Oxide emissions to CO2E. The conversion factors are as shown below:

Carbon Dioxide 1 Metric Ton CO2E per CO2 Metric Ton Methane 21 Metric Ton CO2E per CH4 Metric Ton Nitrous Oxide 310 Metric Ton CO2E per N₂O Metric Ton

B. Historic Annual Average Period Determination

The emission reductions occurred at the end of June 2010 the last month in which the A Fee and C Fee turbines operated. CUSA requests the 24-month period used to determine historic annual average emissions be the 24 months more representative of normal operation for the turbines at each location within the 60 months prior to the date the emission reduction occurred. To determine the period representative of more normal operation, operating records were reviewed for the period January 1999 through June 2010. The annual average heat input for the turbines at each location was determined for the 11.5-year period and compared to the two-year annual average operation on a month-by-month basis for the turbines at each location. The period with the smallest difference within the 60 months preceding, the date the reduction occurred compared with normal operation was selected as the 24-month period used to determine historic annual average emissions. Details of the source operations and historic annual 24- month period are included in Appendix A.

C. Greenhouse Gas Emission Reductions

Section 4.5.4 of Rule 2301 states the that greenhouse gas emission reductions are calculated as the difference between the historic annual average greenhouse gas emissions (as CO2E) and the potential greenhouse gas emission (as CO2E) after the project is complete.

Because the greenhouse gas emission reductions are the result of discontinuing the operation of the turbines, the potential greenhouse gas emissions after the project is completed are zero. The greenhouse gas emission reductions therefore equal the historic annual average greenhouse gas emissions (as CO2E).

Annual average greenhouse gas emissions are calculated using the following formula:

Annual Average GHG Emissions =
$$\frac{Ef \ Kg}{MMBtu} x \frac{MMBtu}{24 \ months} x \frac{24 \ months}{2 \ years} x \frac{1 \ metric \ ton}{1000 \ Kg}$$

Annual average greenhouse gas emissions are converted to CO2E using the conversions factors in Rule 2301 Table 1 as shown in section V.A. using the following formula:

Annual CO2E Emissions = Annual Average GHG Emissions x Conversion Factor

From Appendix A:

A Fee 1,466,858 MMBtu during 24 Months August 2006 to July 2008 C Fee 1,312,536 MMBtu during 24 Months May 2006 to April 2008

A Fee Annual Average GHG Emissions:

$$Carbon\ Dioxide = \frac{53.02\ Kg}{MMBtu}\ x\ \frac{1,466,858\ MMBtu}{24\ months}\ x\ \frac{24\ months}{2\ years}\ x\ \frac{1\ metric\ ton}{1000\ Kg}$$

= 38,886 metric tons Carbon Dioxide/year

$$Methane = \frac{.0009 \, Kg}{MMBtu} \, x \, \frac{1,466,858 \, MMBtu}{24 \, months} \, x \, \frac{24 \, months}{2 \, years} \, x \, \frac{1 \, metric \, ton}{1000 \, Kg}$$

= 0.66 metric tons Methane/year

$$Nitrous\ Oxide = \frac{.0001\ Kg}{MMBtu}\ x\ \frac{1,466,858\ MMBtu}{24\ months}\ x\ \frac{24\ months}{2\ years}\ x\ \frac{1\ metric\ ton}{1000\ Kg}$$

= 0.07 metric tons Nitrous Oxide/year

C Fee Annual Average GHG Emissions:

Carbon Dioxide =
$$\frac{53.02 \, Kg}{MMBtu} \times \frac{1,312,536 \, MMBtu}{24 \, months} \times \frac{24 \, months}{2 \, years} \times \frac{1 \, metric \, ton}{1000 \, Kg}$$

= 34,795 metric tons Carbon Dioxide/year

$$Methane = \frac{.0009 \ Kg}{MMBtu} \ x \ \frac{1,312,536 \ MMBtu}{24 \ months} \ x \ \frac{24 \ months}{2 \ years} \ x \ \frac{1 \ metric \ ton}{1000 \ Kg}$$

= 0.59 metric tons Methane/year

$$Nitrous\ Oxide = \frac{.0001\ Kg}{MMBtu}\ x\ \frac{1,312,536\ MMBtu}{24\ months}\ x\ \frac{24\ months}{2\ years}\ x\ \frac{1\ metric\ ton}{1000\ Kg}$$

= 0.07 metric tons Nitrous Oxide/year

A Fee Annual Average CO2E:

Annual CO2E Emisisons Carbon Dioxide = 38,886 metric tons x 1

= 38,886 metric tons CO2E/year

Annual CO2E Emisisons Methane = 0.66 metric tons x 21

= 14 metric tons CO2E/year

Annual CO2E Emisisons Nitrous Oxide = 0.07 metric tons x 310

= 22 metric tons CO2E/year

Total A Fee CO2E = 38,886 + 14 + 22 = 38,922 metric tons/year

C Fee Annual Average CO2E:

Annual CO2E Emisisons Carbon Dioxide = 34.795 metric tons x 1

= 34,795 metric tons CO2E/year

Annual CO2E Emisisons Methane = 0.59 metric tons x 21

= 12 metric tons CO2E/year

Annual CO2E Emisisons Nitrous Oxide = 0.07 metric tons x 310

= 22 metric tons CO2E/year

Total A Fee CO2E = 34,795 + 12 + 22 = 34,829 metric tons/year

Total Greenhouse Gas Emission Reductions As CO2E

Total CO2E Emission Reductions = 38,922 + 34,829 metric tons/year

= 73,751 metric tons/year

VI. Compliance:

A. Real

Emission reductions have been calculated based on actual heat input to the turbines and recognized emission factors and conversion factors. Therefore, the reductions are real.

B. Enforceable

The turbines have been removed from service and the permits have been surrendered. Therefore, the requested ERCs are enforceable.

C. Quantifiable

Emission reductions have been calculated based on actual heat input to the turbines and recognized emission factors and conversion factors. Therefore, the reductions are quantifiable.

D. Permanent

The turbines have been removed from service and the permits have been surrendered. Therefore, the requested ERCs are permanent.

E. Surplus

Rule 2301 Section 4.5.3.1 states:

Greenhouse gas emission reductions that occur at a facility subject to the CARB greenhouse cap and trade regulation on or after January 1, 2012 are not surplus.

These reductions occurred prior to January 1, 2012.

Rule 2301 Section 4.5.3.2 states:

Greenhouse gas emission reductions that occur as a result of law, rule, or regulation that required the greenhouse gas emission reduction are not surplus.

These reductions are not required by any law, rule or regulation that required the greenhouse gas emission reduction.

Therefore, the greenhouse gas emissions requested for ERC banking are surplus.

F. Was application timely?

The turbines ceased operation at the end of June 2010. Pursuant to Rule 2301 section 5.5.2 for reductions covered under section 4.5.1 (greenhouse gas reductions that occurred on or after January 1, 2005) applications shall be filed by July 19, 2012. This application was filed in a timely manner.

VII. Registration of ERC Certificates:

Rule 2301 Section 6.15 requires greenhouse gas emission reductions certificates include a notation that indicates how the emission reductions were quantified.

The shutdown of the turbines was not required by any regulatory requirement therefore, the certificates shall include a notation pursuant to Section 6.15.3:

This emission reduction is surplus and additional to all applicable regulatory requirements.

VIII. Recommendation:

CUSA recommends that Emission Reduction Credits be issued as indicated above.

APPENDIX A DATA TABLES

Historical Annual Average GHG Emissions A Fee

				24 Month
		•		Block
				Differences
	S-1131-970	S-1131-973	Total	vs Average
	MMBtu	MMBtu	MMBtu	
1999	443,172	457,105	900,277	Ì
2000-05	2,302,762	2,381,462	4,684,224	l
Oct-05*	3,269	3,206	6,475	*shown seperately as
Nov-05*	0	0	0	these months
Dec-05*	0 3,570	0 4.709	0 8,280	are part of the
Jan-06 Feb-06	31,836	33,013	64.849	preceding 5 year period, but
Mar-06	30,157	31,817	61,974	fuel use
Apr-06	27,269	28,546	55,616	included in the
May-06	27,243	35,708	62,951	2000-2005 total
Jun-06	33,371	34,056	67,427	}
Jul-06	32,326	33,354	65,660	
Aug-06	34,617	35,769	70,407	
Sep-06	32,941	34,048	66,989	
Oct-06	34,554	35,450 27,188	70,004	
Nov-06 Dec-06	19,010 22,340	27,188 12.301	46,198 34,642	
Jan-07	31,847	7,462	39,310	
Feb-07	31,336	32,585	63,922	
Mar-07	32,323	34,050	66,373	
Apr-07	29,635	34,615	64,250	
May-07	34,565	35,841	70,407	
Jun-07	26,336	32,247	58,583	i
Jul-07	32,212	35,792	66,004	
Aug-07	34,402	35,601	70,003	
Sep-07	32,969	34,318	67,287	52,076
Oct-07 Nov-07	34,578 33,454	36,046 34,966	70,624 68,420	54,749 57,600
Dec-07	8,089	26,932	35,021	59,059
Jan-08	31,322	34,023	65,345	61,437
Feb-06	31,291	30,660	61,951	61,316
Mar-08	33,743	34,963	68,706	61,597
Apr-08	33,443	34,478	67,921	62,101
May-08	33,988	35,853	69,841	62,388
Jun-08	32,824	34,997	67,621	62,404
Jul-06	18,380	16,450	34,631 0	61,119
Aug-08 Sep-08	0	0	0	58,185 55,394
Oct-06	ő	ŏ	ő	52,477
Nov-06	Ö	ŏ	Ŏ	50,552
Dec-08	o	0	Ō	49,109
Jan-09	0	0	0	47,471
Feb-09	16,127	17,277	35,404	46,263
Mar-09	3,888	1,223	5,111	43,730
Apr-09	١٠٥	0	0	41,053
May-09 Jun-09	0	0 13,195	13,195	38,120 36,228
Jul-09	38,468	38,161	76,629	36,588
Aug-09	20,436	29,054	49,490	35,733
Sep-09	33,567	33,070	66,636	35,706
Oct-09	36,013	35,013	71,026	35,723
Nov-09	33,895	33,015	66,910	35,660
Dec-09	31,587	29,910	61,497	36,763
Jan-10	34,779	33,700	68,479	36,894
Feb-10	31,866	31,402	63,266	36,949
Mar-10	34,069	34,263	68,331 62,356	36,933
Apr-10	32,580 35,096	29,775 33,827	62,356 68,923	36,701 36,663
May-10 Jun-10	35,096 20,609	33,827 20,386	40,996	35,545
Juli 10	Average	20,000	59,630	- 55,545
	····		55,000	

The period August 2006 - July 2008 has an average monthly fuel use closest to the average source operation. As such ithe baseline period is September 2006 - August 2008.

The total MMBtu for August 2006 - July 2006 is: 1,466,856

Historical Annual Average GHG Emissions C Fee

		-		1
				24 month
				Block
				Differences
Month	S-1131-974	S-1131-1079	Total	vs Average
4000	MMBtu	MMBtu	MMBtu	
1999 2000-05	477,962 2,340,058	460,167 2,308,193	938,129 4,648,251	
Oct-05*	33,917	34,087	68,004	*shown
Nov-05*	17,832	27,599	45,431	seperately as
Dec-05*	35,612	0	35,612	these months are part of the
Jan-06	0	0	0	preceding 5
Feb-06	30,802	30,875	61,677	year period, but fuel use
Mar-06 Apr-06	31,004 28,289	31,353 28,002	62,357 56,292	included in the
May-06	34,779	32,670	67,448	2000-2005 total
Jun-06	34,048	33,575	67,624	
Jul-06	34,303	33,278	67,580	
Aug-06	34,825	34,725	69,550	1
Sep-06	33,707	33,357	67,064	
Oct-06	33,917 17,932	34,087 27 500	68,004 45,431	ĺ
Nov-06 Dec-06	17,832 35,612	27,599 0	45,431 35,612	ĺ
Jan-07	30,822	Ö	30,822]
Feb-07	31,984	1,960	33,944	1
Mar-07	34,597	27,410	62,007	
Apr-07	33,298	35,651	68,949	
May-07	35,099	36,767	71,867	
Jun-07	32,463	32,624	65,087	
Jul-07 Aug-07	35,285 35,588	34,354 35,187	69,640 70,775	ļ.
Sep-07	33,737	31,972	65,709	56,520
Oct-07	35,962	17,929	53,891	55,932
Nov-07	35,111	97	35,207	55,506
Dec-07	32,123	598	32,721	55,386
Jan-08	32,132	1,966	34,099	56,807
Feb-08	32,488	91	32,579	55,594
Mar-08 Apr-08	34,761 33,390	6,931 21,845	41,692 55,235	54,733 54,689
<u> Арг-</u> 08 Мау-08	34,115	611	34,726	53,326
Jun-08	25,683	0	25,683	51,578
Jul-08	o	0	0	48,762
Aug-08	0	0	0	45,864
Sep-08	0	0	0	43,070
Oct-08	0	0	0	40,236
Nov-08 Dec-08	0	0	0	38,344 36,860
Jan-09	0	0	0	35,575
Feb-09	ŏ	ŏ	ŏ	34,161
Mar-09	Ō	0	Ō	31,577
Apr-09	0	0	0	28,705
May-09	11,907	0	11,907	28,206
Jun-09	4,448 25,550	0	4,448 25 550	23,680 21,843
Jul-09 Aug-09	25,550 29,065	0	25,550 29,065	20,105
Sep-09	22,500	ŏ	22,500	18,304
Oct-09	30,659	ō	30,659	17,336
Nov-09	31,193	0	31,193	17,169
Dec-09	25,923	0	25,923	16,886
Jan-10	22,136	0	22,136	16,387
Feb-10 Mar-10	30,145 34,417	0	30,145 34,417	16,286 15,983
Apr-10	34,417 32,094	0	32,094	15,963
May-10	34,807	ŏ	34,807	15,022
Jun-10	20,759	ō	20,759	14,817
	Average		54,313	

The period May 2006 - April 2008 has an average monthly fuel use closest to the Average source operation. As such the historic annual greenhouse gas emissions are based on April 2006 - May 2008.

The total MMBtu for May 2006 - April 2008 is: 1,312,536





SEP 2 4 2013

Jason H. Donchin Chevron USA Inc P O Box 1392 Bakersfield, CA 93302

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

Banking

Project Number: S-1120775

Dear Mr. Donchin:

The District has completed a preliminary review of your application for CO_{2e} Emission Reduction Credits (ERCs) Banking resulting from resulting from the shutdown of four gas turbine engines S-1131-970-0, '-973, '-974, and '-1179 at the A Fee and C fee leases.

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. Steve Davidson at (661) 392-5618.

Sincerely,

David Warner

Director of Permit Services

Leonard Scandura, P.E. Permit Services Manager

DW: sdd

Seyed Sadredin

Executive Director/Air Pollution Control Officer

EMISSION REDUCTION CREDIT BANKING APPLICATION REVIEW

Facility Name:

Chevron USA, Inc.

Mailing Address:

PO Box 1392

Bakersfield, CA 93302

Contact Name:

Jason H. Donchin

Telephone:

(661) 654-7144

Facility:

S-1131

Permit Numbers:

S-1131-970, '-973, '-974, and '-1079

ERC Certificate Numbers: S-4113-24 & S-4114-24

Project Number:

S-1120775

Date Received:

March 14, 2012

Date Complete:

September 24, 2012

Engineer:

Steve Davidson

Date:

October 29, 2013

Lead Engineer:

Allan Phillips, Supervising AQE

I. SUMMARY:

The primary business of this facility is crude oil and gas production. Chevron USA, Inc. has permanently shut down, removed, and surrendered the Permit to Operate (PTO) for four Solar gas turbines (S-1131-970, '-973, '-974, and '-1079) in October 2010. The facility had submitted an application to bank the emission reduction credits (ERCs) for the actual emission reductions (AER) of the criteria pollutants on November 30, 2010 (ERC Project S-1105004).

Subsequently, the facility has submitted this application to bank the Greenhouse Gas (GHG) AER that also resulted from the shut down of the turbines. See the surrendered PTOs in Appendix A.

Selection of Geographical Boundary for Determining Permanence of the GHG Emission Reduction

Rule 2301 contains several eligibility criteria for emission reduction credit banking, including that the emission reduction must be permanent. When determining the geographical boundary in which the emission reduction is determined to be permanent, the applicant may consider how the GHG ERC may likely be used.

Please note that the while Rule 2301 allows facilities to receive ERCs for GHG emission reductions, the District does not have any requirements on the use of GHG ERCs. However, it is anticipated that the likely uses of such GHG ERCs would be their future retirement as GHG mitigation in the California Environmental Quality Act (CEQA) process.

Pursuant to CEQA, lead agencies must consider the environmental impact of GHG emissions from a project and may require that such GHG emissions be mitigated. In evaluating various mitigation techniques, including the retirement of GHG ERCs, the lead agency must determine if the proposed mitigation technique adequately mitigates the projects GHG emission increase.

When a lead agency determines if the retirement of a particular GHG ERC provides adequate GHG mitigation for a project, the lead agency may choose to consider the location where the GHG ERC was generated and the geographical boundary used to determine the permanence of the emission reduction. In making this determination, the lead agency may conclude that the retirement of a particular GHG ERC would provide adequate mitigation for projects within that same geographical boundary. Again, that determination will be made be the lead agency for any particular project.

For this application, the facility has selected California as the geographical boundary for which the emission reduction is permanent. Chevron has provided a graph showing the decline in California Oil Production from 1995 to 2012. Additionally, Chevron is an entity covered by California CAP and Trade (AB32), AB 32 requires California to return to 1990 levels of greenhouse gas emissions by 2020. Therefore, Chevron will have to mitigate a 15% reduction in greenhouse gas emissions compared to the 'business-as-usual' scenario in 2020. This information validates California as the geographical boundary selection for a permanent GHG emission reduction.

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

		ERC (lb)
ERC#		Metric Tons per Year
S-4113-24	CO₂e	36,937 metric tons/year
S-4114-24	CO₂e	33,851 metric tons/year

II. APPLICABLE RULES:

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

III. LOCATION OF REDUCTION:

The four Solar gas turbines are located in the Kern River Oilfield within Chevron's Kern County Heavy Oil Central stationary source.

ERC: S-4113-24

S-1131-970: A Fee lease #1, Section 25, Township 28S, Range 27E S-1131-973: A Fee lease #2, Section 25, Township 28S, Range 27E

ERC: S-4114-24

S-1131-974: C Fee lease #2, Section 30, Township 28S, Range 27E S-1131-1079: C Fee lease #1, Section 30, Township 28S, Range 27E

IV. METHOD OF GENERATING EMISSION REDUCTIONS:

The emission reductions are being generated by removing four natural gas fired Solar gas turbines.

Equipment Shut down:

PTO	Equipment
S-1131-970	COGENERATION UNIT #1 (NORTH UNIT) SOLAR CENTAUR TYPE H, 52.4 MMBTU/HR GAS FIRED TURBINE ENGINE, 3.725 MW, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - LEASE FEE A
S-1131-973	COGENERATION UNIT #1 (WEST) SOLAR CENTAUR TYPE H, 52.4 MM BTU/HR GAS FIRED TURBINE ENGINE, 3.725 MW, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - FEE A
S-1131-974	COGENERATION UNIT #2 (EAST): SOLAR CENTAUR TYPE H, 52.4 MMBTU/HR GAS FIRED TURBINE ENGINE, 3.725 MV, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - LEASE FEE C
S-1131-1079	COGENERATION UNIT #1 (FEE C LEASE - WEST UNIT) SOLAR CENTAUR 50-T5901S, 48.7 MMBTU/HR GAS FIRED DOE CERAMIC GTE, 4.1 MW, WITH LUBE OIL MIST ELIMINATOR, UNFIRED HEAT RECOVERY STEAM GENERATOR, AND CONTINUOUS MONITORING SYSTEM

V. CALCULATIONS:

A. Assumptions and Emission Factors

Assumptions

The actual emissions will be calculated annually in the baseline period. The Historical Actual Emissions (HAE) will be calculated using actual fuel use data and accepted emissions factors.

The applicant provided monthly fuel use data for the subject engines from the second quarter 2008 through the first quarter 2010.

- Units of GHG AER is metric tons of CO₂e per year, rounded to the nearest metric ton
- 1,000 kg = 1 metric ton
- 1 therm of Natural Gas = 100 scf
- The final CO₂e emission factor from the combustion of natural gas includes GHG emissions of CO₂, CH₄ and N₂O, where the total emission factor includes the summation of each of the compounds multiplied by their Global Warming Potential (GWP)
- The emission factors are from the District's Spreadsheet: ARB GHG Emission Factors

Emission Factors (EF)

The CO₂e equivalent emission factor is from the District's Spreadsheet "ARB – Greenhouse Gas Emissions factors and is listed below.

 $EF_{CO2e} = 52.9199 \text{ KG/MMBtu}$

 $EF_{CO2e} = 52.9199 \text{ KG/MMBtu x (1 metric ton/ 1000 kg)}$

EF_{CO2e} = 0.0529 metric tons/MMBtu

B. Baseline Period Determination

Pursuant to Rule 2301 section 4.5.4, the Baseline Period is the following:

The consecutive 24 month period immediately prior to the date the emission reduction occurred, or another consecutive 24 month period in the 60 months prior to the date the emission reduction occurred.

The original ERC Banking Project S-1131, 1105004 specified the baseline period. Since the District has already established this as the correct baseline period for the criteria pollutant emission reductions that have already been evaluated and issued, the same baseline period is used for this evaluation.

The Baseline Period is listed below:

	Baseline F	Periods			
Lease	Permit Unit	Dates			
A Fee lease	S-1131-970	Cambanah an 2000 August 2000			
(S25, T28S, R27E)	S-1131-973	September 2006 – August 2008			
C Fee lease	S-1131-974	July 2006 June 2009			
(S30, T28S, R27E)	S-1131-1079	July 2006 – June 2008			

C. Baseline Data

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

Ba	Baseline Fuel Usage							
Permit	Annual Fuel Use (Therms)							
S-1131-970	342,792							
S-1131-973	355,435							
S-1131-974	398,601							
S-1131-1079	241,308							

D. Historical Actual Emissions (HAE)

The HAE from the fuel use is determined by multiplying the annual fuel-use by the emission factor presented above.

Example Equation

Permit S-1131-970 (Annual):

CO2e = [(CO2e EF) x (Heat Input)]

 $CO2e = [(0.0529 \text{ Metric Tons/MMbtu}) \times (342,792 \text{ MMbtu/year}) = 18,134 \text{ Metric Tons/year}]$

Annual Emission	ons: Lease A Fee lea	se, Permit Units S-11	31-970 & '-973
Permit Unit	EF _{CO2e} (Metric Tons/MMBtu)	Energy Input (MMBtu/yr)	CO _{2e} (Metric Tons/yr)
S-1131-970	0.0529	342,792	18,134
S-1131-973	0.0529	355,435	18,803
Total			36,937

Annual Emission	ons: Lease C Fee leas	se, Permit Units S-11	31-974 & '-1079
Permit Unit	EF _{CO2e} (Metric Tons/MMBtu)	Energy Input (MMBtu/yr)	CO _{2e} (Metric Tons/yr)
S-1131-974	0.0529	398,601	21,086
S-1131-1079	0.0529	241,308	12,765
Total			33.851

E. Post Project Potential to Emit (PE2)

As discussed above, the subject equipment has been permanently shut down and the PTOs were surrendered. No other equipment has taken the place of the turbines as a source of steam in the Kern River oilfield. Therefore the PE2 is 0.

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.

ERCs eligible for banking = HAE - PE2

ERC Certificate S-	4113-24: Lease A Fe 970 & '-973	e lease, Permit Units S-1131-
HAE (metric ton/year)	PE2 (metric ton/year)	CO _{2e} eligible for banking (metric ton/year)
36,937	0	36,937

ERC Certificate S	4114-24: Lease C Fe 974 & '-107	ee lease, Permit Units S-1131- '9
HAE (metric ton/year)	PE2 (metric ton/year)	CO _{2e} eligible for banking (metric ton/year)
33,851	0	33,851

VI. COMPLIANCE:

Per District Rule Section 4.5, the following criteria must be met in order to deem such reductions eligible for banking:

4.5.1 The greenhouse gas emission reduction must have actually occurred on or after January 1, 2005, except as allowed in specific CARB approved GHG emission reduction project protocols.

The emission reductions occurred when the PTO was surrendered on March 8, 2011. As the emission reduction occurred after 1/1/05, this criteria has been satisfied.

4.5.2 The greenhouse gas emission reductions must have occurred within the San Joaquin Valley Unified Air Pollution Control District.

The emissions occurred at Kern River Oilfield within Chevron's Kern County Heavy Oil Central stationary source. Since this location is within the District, this criteria has been satisfied.

4.5.3 The greenhouse gas emission reductions are real, surplus, permanent, quantifiable, and enforceable, except as provided in Section 4.5.5.

Real:

The GHG emission reductions were generated by the shutdown of four Solar gas turbines (S-1131-970, '-973, '-1073, and '-974). The real emissions were calculated from actual historic fuel-use data and recognized emission factors. The Solar gas turbines have been removed from service. Therefore, the emission reductions are real.

Surplus:

The facility is subject to the CARB cap and trade regulation; however, the reductions occurred prior January 1, 2012; therefore, the emission reductions satisfy the surplus requirement in Section 4.5.3.1.

The facility is subject to the CARB cap and trade regulation; however, the reductions occurred prior to the baseline period of cap and trade. Therefore, the emission reductions satisfy the surplus requirement in Section 4.5.3.2.

The emission reductions are not the result of an action taken by the permittee to comply with any requirement. The emission reductions are surplus and additional of all requirements. Therefore, the emission reductions satisfy the surplus requirement in section 4.5.3.4.

The Certificates will be identified according to Section 6.15.3 below.

Permanent:

The gas turbines have been shut down, removed, and the PTOs have been surrendered.

When determining the geographical boundary in which the emission reduction is determined to be permanent, the applicant may consider how the GHG ERC may likely be used.

Please note that the while Rule 2301 allows facilities to receive ERCs for GHG emission reductions, the District does not have any requirements on the use of GHG ERCs. However, it is anticipated that the likely uses of such GHG ERCs would be their future retirement as GHG mitigation in the CEQA process.

Pursuant to CEQA, lead agencies must consider the environmental impact of GHG emissions from a project and may require that such GHG emissions be mitigated. In evaluating various mitigation techniques, including the retirement of GHG ERCs, the lead agency must determine if the proposed mitigation technique adequately mitigates the projects GHG emission increase.

When a lead agency determines if the retirement of a particular GHG ERC provides adequate GHG mitigation for a project, the lead agency may choose to consider the location where the GHG ERC was generated and the geographical boundary used to determine the permanence of the emission reduction. Then in making this determination, the lead agency may conclude that the retirement of a particular GHG ERC would provide adequate mitigation for projects within that same geographical boundary. Again, that determination will be made by the lead agency for a particular project.

Chevron has selected California as the geographical boundary for which the emission reduction is permanent. Chevron has provided information verifying that the total oil production in the state of California has been in decline since 1985 (see graph in Appendix C). Additionally, Chevron is subject to the California Cap-and-Trade regulation which requires Chevron to reduce or mitigate a permanent reduction in GHG emissions. The combination of the decline in oil production in California and the reductions required by California's Cap-and-Trade regulation verify that the reductions are permanent within California. The geographical boundary for the ERCs will be the State of California and the ERC will include the following identifier:

"Shutdown of the gas turbines are verified as permanent within the State of California"

Quantifiable:

The actual emissions were calculated from historic fuel-use records and accepted emission factors. Therefore, the emission reductions are quantifiable and have been quantified.

Enforceable:

The gas turbines have been shut down and the PTO has been surrendered to the District. Operation of the equipment without a valid permit would subject the permittee to enforcement action. Therefore, the emission reductions are enforceable.

4.5.4 Greenhouse gas emission reductions are calculated as the difference between the historic annual average greenhouse gas emissions (as CO2E) calculated using the consecutive 24 month period immediately prior to the date the emission reduction occurred, or another consecutive 24 month period in the 60 months prior to the date the emission reduction occurred if determined by the APCO as being more representative of normal operations, and the potential greenhouse gas emissions (as CO2E) after the project is complete, except as provided in section 4.5.5.

The GHG emission reductions were calculated according to the baseline period identified above. Since this is a permanent shutdown of the steam turbines, with none of the load being shifted to other units in California, there is no post-project potential to emit GHG.

4.5.5 Greenhouse gas emission reductions proposed to be quantified using CARB approved emission reduction project protocols shall be calculated in accordance with the applicable protocol.

Since the GHG emission reductions are not subject to an applicable CARB-approved emission reduction project protocol, this section is not applicable.

4.5.6 Emission reduction credits shall be made enforceable through permit conditions. If the District, pursuant to state laws, is prohibited from permitting the emission unit, the source creating the greenhouse gas emission reduction shall execute a legal binding contract with the District which ensures that the emission reductions will be generated in accordance with the provisions of this rule, and shall continue for the reasonably

The steam turbines held a legal District operating permit. That permit has been surrendered to the District. Since the operation of the steam turbines would require a new Authority to Construct, as discussed above the emission reduction is enforceable.

Section 5 identifies ERC Certificate application procedures.

Section 5.5.2 requires, for emission reductions occurring prior to 1/19/12, applications for ERCs must be submitted by 7/19/12.

The original greenhouse gas ERC application was submitted on 11/30/10 as part of project S1105004, therefore the application is timely.

Section 6.15 specifies the registration requirements for GHG ERCs.

Section 6.15.13 requires, the emission reductions are surplus and additional of all requirements pursuant to Section 4.5.3.4. Therefore the ERC certificate shall include the following notation:

"This emission reduction is surplus and additional to all applicable regulatory requirements."

Compliance with Rule 2301 has been demonstrated and no adjustments are required under this Rule.

VII. RECOMMENDATION:

After public notice, comments and review, issue ERCs to Chevron USA in the amounts shown below:

ERC S-4113-24, Lease A Fee lease, Permit Units S-1131-970 & '-973:

	GHG EI	RCs
ERC Certificate	Pollutant	Amount
S-4113-24	CO₂e	36,937 metric tons/year

ERC S-3604, Lease C Fee lease, Permit Units S-1131-974 & '-1079:

	GHG EI	RCs
ERC Certificate	Pollutant	Amount
S-4114-24	CO₂e	33,851 metric tons/year

Appendix A

Permits S-1131-970, '-973, '-974 , and '-1079

PERMIT UNIT: S-1131-970-9

EXPIRATION DATE: 02/28/2006

SECTION: 25 TOWNSHIP: 28S RANGE: 27E

EQUIPMENT DESCRIPTION:

COGENERATION UNIT #1 (NORTH UNIT) SOLAR CENTAUR TYPE H, 52.4 MMBTU/HR GAS FIRED TURBINE ENGINE, 3.725 MW, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - LEASE FEE A

PERMIT UNIT REQUIREMENTS

- Units shall be fired exclusively on PUC-regulated or FERC-regulated natural gas which has a sulfur content less than or equal to 0.017% by weight. [40 CFR 60.333(a) & (b);60.332(a); Kern County Rule 407] Federally Enforceable Through Title V Permit
- Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the
 point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V
 Permit
- 3. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Kern County Rule 108.1] Federally Enforceable Through Title V Permit
- 4. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
- 5. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas, the 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. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
- 6. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
- 7. Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O2) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
- 8. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry), [40 CFR 60.332(a), (b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
- 9. If the turbine is fired on PUC-regulated or FERC-regulated natural gas, then maintain on file copies of natural gas bills or other relevant records. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 10. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4] Federally Enforceable Through Title V Permit

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
Location: HEAVY OIL CENTRAL, KERN COUNTY, CA
\$1171-970 9; See 15 2001 11 4444 - MPROOPP

- 11. Permittee shall install, operate and maintain in calibration a predictive emissions monitoring system which continuously measures and records the water-to-fuel ratio and which correlates the water-to-fuel ratio with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c). [40 CFR 60.334] Federally Enforceable Through Title V Permit
- 12. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.3] Federally Enforceable Through Title V Permit
- Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [40 CFR 60.334 and District Rule 4703, 6.2.1] Federally Enforceable Through Title V Permit
- 14. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)] Federally Enforceable Through Title V Permit
- 15. Permittee shall submit an excess NSPS emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form to the APCO semiannually, except when more frequent reporting is specifically required by an applicable subpart. All reports shall be postmarked by the 30th day of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
- 16. Except during periods of startup/shutdown, any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NOx emissions limit required by NSPS shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
- 17. Gas turbine engine shall be equipped with continuously recording fuel gas flowrate monitor. [District NSR Rule] Federally Enforceable Through Title V Permit
- 18. Gas turbine engine shall be equipped with water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
- 19. Gas turbine engine water injection rate shall be maintained such that water to fuel ratio is no less than that amount determined necessary to ensure emission limits compliance. [District NSR Rule] Federally Enforceable Through Title V Permit
- 20. Gas turbine engine shall be equipped with continuously recording water injection rate monitor accurate to within +/5%. [District NSR Rule] Federally Enforceable Through Title V Permit
- 21. Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart A 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [District Rule 4703] Federally Enforceable Through Title V Permit
- 22. Except during periods of startup/shutdown, if water injection system is inoperative, gas turbine engine shall be shut down. [40 CFR 60.8(c), District NSR Rule] Federally Enforceable Through Title V Permit
- 23. Waste heat recovery steam generator exhaust shall be equipped with permanent provisions to allow collection of gas sample consistent with EPA test methods. [District Rule 1081] Federally Enforceable Through Title V Permit
- 24. All steam produced by this source operation shall be used only in existing TEOR operation(s) served by existing vapor control system(s). [District NSR Rule] Federally Enforceable Through Title V Permit
- 25. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401] Federally Enforceable Through Title V Permit
- 26. Emissions increases from new wells in zone steamed by this equipment shall be controlled and mitigated as required by District NSR Rule and District Rule 4401 (amended 1/15/98). [District NSR Rule] Federally Enforceable Through Title V Permit

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

- 27. Source testing shall be conducted for at least three levels of operating range of water to fuel ratio to demonstrate previously established ratio correlation with NOx emissions remains valid. [District NSR Rule and District Rule 1081] Federally Enforceable Through Title V Permit
- 28. Compliance with nitrogen oxide, and CO emission limits shall be demonstrated by District-witnessed sample collection by independent testing laboratory within 60 days of permit anniversary date. [District Rule 1081] Federally Enforceable Through Title V Permit
- 29. Source test results and fuel test data shall be submitted within 60 days after sample collection with water to fuel injection ratio, on mass basis, determined at time of stack gas sampling. [District Rule 1081] Federally Enforceable Through Title V Permit
- 30. Permittee shall keep accurate daily records of turbine water to fuel injection ratio and such records shall be made readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
- 31. Gas turbine engine shall be equipped with continuously recording oxides of nitrogen and oxygen monitors. NOx monitoring system requirement may be substituted or replaced upon documentation that H2O/fuel ratio correlates well with NOx emission rate. [District NSR Rule] Federally Enforceable Through Title V Permit
- 32. Permittee shall submit compliance testing plan to the District within 60 days prior to permit anniversary date. [District Rule 1081] Federally Enforceable Through Title V Permit
- 33. Except during periods of startup/shutdown, emission rates for this unit shall not exceed any of the following: PM-10: 0.015 lb/MMBTU, SOx (as SO2): 0.0031 lb/MMBTU, NOx (as NO2): 0.129 lb/MMBTU or VOC: 0.010 lb/MMBTU. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 34. Except during periods of thermal stabilization or reduced load, CO emissions rate shall not exceed 65.0 ppmv @ 15% O2. [District NSR Rule] Federally Enforceable Through Title V Permit
- 35. Except during periods of thermal stabilization or reduced loads, NOx emission rate shall not exceed 35 ppmv at 15% O2 on a 3 hour rolling average basis. [District Rule 4703, 5.1.2 and 7.2.1]
- 36. Emission rates for this unit shall not exceed any of the following: PM-10: 18.9 lb/day, SOx (as SO2): 3.9 lb/day, NOx (as NO2): 162.2 lb/day, VOC: 12.6 lb/day, or CO: 183.6 lb/day [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SJVUAPCD Rule 4703, 6.2.2; 40 CFR 60.332(a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rule 407; 40 CFR 60.332(c), (d); 60.334(b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

Facility Name: CHEVRON USA INC Location: HEAVY OIL CENTRAL KERN COUNTY, CA

PERMIT UNIT: S-1131-973-9

EXPIRATION DATE: 02/28/2006

SECTION: NE6 TOWNSHIP: 29S RANGE: 28E

EQUIPMENT DESCRIPTION:

COGENERATION UNIT #1 (WEST) SOLAR CENTAUR TYPE H, 52.4 MM BTU/HR GAS FIRED TURBINE ENGINE, 3.725 MW, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - LEASE FEE B

PERMIT UNIT REQUIREMENTS

- Units shall be fired exclusively on PUC-regulated or FERC-regulated natural gas which has a sulfur content less than
 or equal to 0.017% by weight. [40 CFR 60.333(a) & (b);60.332(a); Kern County Rule 407] Federally Enforceable
 Through Title V Permit
- Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the
 point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V
 Permit
- 3. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Kern County Rule 108.1] Federally Enforceable Through Title V Permit
- 4. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
- 5. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas, the 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. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
- 6. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5) Federally Enforceable Through Title V Permit
- 7. Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O2) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4]
- 8. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332(a), (b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
- 9. If the turbine is fired on PUC-regulated or FERC-regulated natural gas, then maintain on file copies of natural gas bills or other relevant records. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 10. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4] Federally Enforceable Through Title V Permit
- 11. Permittee shall install, operate and maintain in calibration a predictive emissions monitoring system which continuously measures and records the water-to-fuel ratio and which correlates the water-to-fuel ratio with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c). [40 CFR 60.334] Federally Enforceable Through Title V Permit

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
Location: HEAVY OIL CENTRAL, KERN COUNTY, CA
\$1131-4774: 889 13 2003 10 1994 - MARACOMP

- 12. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.3] Federally Enforceable Through Title V Permit
- Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [40 CFR 60.334 and District Rule 4703, 6.2.1] Federally Enforceable Through Title V Permit
- 14. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)]
- 15. Permittee shall submit an excess NSPS emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form to the APCO semiannually, except when more frequent reporting is specifically required by an applicable subpart. All reports shall be postmarked by the 30th day of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
- 16. Except during periods of startup/shutdown, any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NOx emissions limit required by NSPS shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
- 17. Gas turbine engine shall be equipped with continuously recording fuel gas flowrate monitor. [District NSR Rule] Federally Enforceable Through Title V Permit
- 18. Gas turbine engine shall be equipped with water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
- 19. Gas turbine engine water injection rate shall be maintained such that water to fuel ratio is no less than that amount determined necessary to ensure emission limits compliance. [District NSR Rule] Federally Enforceable Through Title V Permit
- 20. Gas turbine engine shall be equipped with continuously recording water injection rate monitor accurate to within +/5%. [District NSR Rule] Federally Enforceable Through Title V Permit
- Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart A 60.2, shall not exceed a time period of
 two hours and two hours, respectively, per occurrence. [District Rule 4703] Federally Enforceable Through Title V
 Permit
- 22. Except during periods of startup/shutdown, if water injection system is inoperative, gas turbine engine shall be shut down. [40 CFR 60.8(c), District NSR Rule] Federally Enforceable Through Title V Permit
- 23. Waste heat recovery steam generator exhaust shall be equipped with permanent provisions to allow collection of gas sample consistent with EPA test methods. [District Rule 1081] Federally Enforceable Through Title V Permit
- 24. All steam produced by this source operation shall be used only in existing TEOR operation(s) served by existing vapor control system(s). [District NSR Rule] Federally Enforceable Through Title V Permit
- 25. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401] Federally Enforceable Through Title V Permit
- 26. Emissions increases from new wells in zone steamed by this equipment shall be controlled and mitigated as required by District NSR Rule and District Rule 4401 (amended 1/15/98). [District NSR Rule] Federally Enforceable Through Title V Permit
- 27. Source testing shall be conducted for at least three levels of operating range of water to fuel ratio to demonstrate previously established ratio correlation with NOx emissions remains valid. [District NSR Rule and District Rule 1081] Federally Enforceable Through Title V Permit
- 28. Compliance with nitrogen oxide, and CO emission limits shall be demonstrated by District-witnessed sample collection by independent testing laboratory within 60 days of permit anniversary date. [District Rule 1081] Federally. Enforceable Through Title V Permit

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 Location: HEAVY OIL CENTRAL, KERN COUNTY, CA 8-1/31-477-9: 8-4 1/3 2023 to 16.444- MARKECOMP

- 29. Source test results and fuel test data shall be submitted within 60 days after sample collection with water to fuel injection ratio, on mass basis, determined at time of stack gas sampling. [District Rule 1081] Federally Enforceable Through Title V Permit
- 30. Permittee shall keep accurate daily records of turbine water to fuel injection ratio and such records shall be made readily available for District inspection upon request. [District NSR Rule]
- 31. Gas turbine engine shall be equipped with continuously recording oxides of nitrogen and oxygen monitors. NOx monitoring system requirement may be substituted or replaced upon documentation that H2O/fuel ratio correlates well with NOx emission rate. [District NSR Rule] Federally Enforceable Through Title V Permit
- 32. Permittee shall submit compliance testing plan to the District within 60 days prior to permit anniversary date. [District Rule 1081] Federally Enforceable Through Title V Permit
- 33. Except during periods of startup/shutdown, emission rates for this unit shall not exceed any of the following: PM-10: 0.015 lb/MMBTU, SOx (as SO2): 0.0031 lb/MMBTU, NOx (as NO2): 0.129 lb/MMBTU or VOC: 0.010 lb/MMBTU. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- Except during periods of thermal stabilization or reduced load, CO emissions rate shall not exceed 65.0 ppmv @ 15%
 O2. [District NSR Rule] Federally Enforceable Through Title V Permit
- 35. Except during periods of thermal stabilization or reduced loads, NOx emission rate shall not exceed 35 ppmv at 15% Q2 on a 3 hour rolling average basis. [District Rule 4703, 5.1.2 and 7.2.1]
- 36. Emission rates for this unit shall not exceed any of the following: PM-10: 18.9 lb/day, SOx (as SO2): 3.9 lb/day, NOx (as NO2): 162.2 lb/day, VOC: 12.6 lb/day, or CO: 183.6 lb/day [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SIVUAPCD Rule 4703, 6.2.2; 40 CFR 60.332(a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 38. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rule 407; 40 CFR 60.332(c), (d); 60.334(b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

PERMIT UNIT: S-1131-974-8

EXPIRATION DATE: 02/28/2006

SECTION: NE30 TOWNSHIP: 28S RANGE: 28E

EQUIPMENT DESCRIPTION:

COGENERATION UNIT #2 (EAST): SOLAR CENTAUR TYPE H, 52.4 MMBTU/HR GAS FIRED TURBINE ENGINE, 3.725 MV, WITH WATER INJECTION AND STRUTHERS UNFIRED HEAT RECOVERY STEAM GENERATOR - LEASE FEE C

PERMIT UNIT REQUIREMENTS

- Units shall be fired exclusively on PUC-regulated or FERC-regulated natural gas which has a sulfur content less than
 or equal to 0.017% by weight. [40 CFR 60.333(a) & (b);60.332(a); Kern County Rule 407] Federally Enforceable
 Through Title V Permit
- Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the
 point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V
 Permit
- Operator shall not exceed a NOx emission rate of 35 ppmvd @ 15% O2, excluding thermal stabilization and reduced load periods. [40 CFR 60.332(a)(1) & 60.332(a)(2) and District Rule 4703, 5.1.2] Federally Enforceable Through Title V Permit
- 4. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Kern County Rule 108.1] Federally Enforceable Through Title V Permit
- 5. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
- 6. If the turbine is not fired on PUC-regulated or FERC-regulated natural gas, the 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. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit
- 7. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
- 8. Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O2) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
- 9. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332(a), (b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
- 10. If the turbine is fired on PUC-regulated or FERC-regulated natural gas, then maintain on file copies of natural gas bills or other relevant records. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 11. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4] Federally Enforceable Through Title V Permit

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

Feetily Name: CHEVRON USA INC
Location: HEAVY OIL CENTRAL, KERN COUNTY, CA
\$103/614; 498 200 2004-3400

- 12. Permittee shall install, operate and maintain in calibration a predictive emissions monitoring system which continuously measures and records the water-to-fuel ratio and which correlates the water-to-fuel ratio with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c). [40 CFR 60.334] Federally Enforceable Through Title V Permit
- 13. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.3] Federally Enforceable Through Title V Permit
- 14. Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [40 CFR 60.334 and District Rule 4703, 6.2.1] Federally Enforceable Through Title V Permit
- 15. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)] Federally Enforceable Through Title V Permit
- 16. Permittee shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form to the APCO semiannually, except when more frequent reporting is specifically required by an applicable subpart. All reports shall be postmarked by the 30th day of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
- 17. Except during periods of startup/shutdown, any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
- 18. Gas turbine engine shall be equipped with continuously recording fuel gas flowrate monitor. [District NSR Rule]
 Federally Enforceable Through Title V Permit
- 19. Gas turbine engine shall be equipped with water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
- 20. Gas turbine engine water injection rate shall be maintained such that water to fuel ratio is no less than that amount determined necessary to ensure emission limits compliance. [District NSR Rule] Federally Enforceable Through Title V Permit
- ·21. Gas turbine engine shall be equipped with continuously recording water injection rate monitor accurate to within +/5%. [District NSR Rule] Federally Enforceable Through Title V Permit
- Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart A 60.2, shall not exceed a time period of
 two hours and two hours, respectively, per occurrence. [District Rule 4703] Federally Enforceable Through Title V
 Permit
- 23. Except during periods of startup/shutdown, if water injection system is inoperative, gas turbine engine shall be shut down. [40 CFR 60.8(c), District NSR Rule] Federally Enforceable Through Title V Permit
- 24. Waste heat recovery steam generator exhaust shall be equipped with permanent provisions to allow collection of gas sample consistent with EPA test methods. [District Rule 1081] Federally Enforceable Through Title V Permit
- 25. All steam produced by this source operation shall be used only in existing TEOR operation(s) served by existing vapor control system(s). [District NSR Rule] Federally Enforceable Through Title V Permit
- 26. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401] Federally Enforceable Through Title V Permit
- 27. Emissions increases from new wells in zone steamed by this equipment shall be controlled and mitigated as required by District NSR Rule and District Rule 4401 (amended 1/15/98). [District NSR Rule] Federally Enforceable Through Title V Permit

- 28. Source testing shall be conducted for at least three levels of operating range of water to fuel ratio to demonstrate previously established ratio correlation with NOx emissions remains valid. [District NSR Rule and 1081] Federally Enforceable Through Title V Permit
- 29. Compliance with nitrogen oxide, and CO emission limits shall be demonstrated by District-witnessed sample collection by independent testing laboratory annually within 60 days of permit anniversary date. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 30. Source test results and fuel test data shall be submitted within 60 days after sample collection with water to fuel injection ratio, on mass basis, determined at time of stack gas sampling. [District Rule 1081] Federally Enforceable Through Title V Permit
- 31. Permittee shall keep accurate daily records of turbine water to fuel injection ratio and such records shall be made readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
- 32. Gas turbine engine shall be equipped with continuously recording oxides of nitrogen and oxygen monitors. NOx monitoring system requirement may be substituted or replaced upon documentation that H2O/fuel ratio correlates well with NOx emission rate, [District NSR Rule] Federally Enforceable Through Title V Permit
- 33. Permittee shall submit compliance testing plan to the District within 60 days prior to permit anniversary date. [District Rule 1081] Federally Enforceable Through Title V Permit
- 34. Except during periods of startup/shutdown, emission rates for this unit shall not exceed any of the following: PM-10: 0.015 lb/MMBTU, SOx (as SO2): 0.0031 lb/MMBTU, NOx (as NO2): 35 ppmv @ 15% O2, VOC: 0.010 lb/MMBTU, or CO: 57.0 ppmv @ 15% O2. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 35. Emission rates for this unit shall not exceed any of the following: PM-10: 18.9 lb/day, SOx (as SO2): 3.9 lb/day, NOx (as NO2): 163.4 lb/day, VOC: 12.6 lb/day, or CO: 162.2 lb/day [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 36. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SJVUAPCD Rule 4703, 6.2.2; 40 CFR 60.332(a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 37. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rule 407; 40 CFR 60.332(c), (d); 60.334(b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

PERMIT UNIT: S-1131-1079-6

EXPIRATION DATE: 02/28/2006

SECTION: NE6 TOWNSHIP: 29S RANGE; 28E

EQUIPMENT DESCRIPTION:

COGENERATION UNIT #1 (FEE C LEASE - WEST UNIT) SOLAR CENTAUR 50-T5901S, 48.7 MMBTU/HR GAS FIRED DOE CERAMIC GTE, 4.1 MW, WITH LUBE OIL MIST ELIMINATOR, UNFIRED HEAT RECOVERY STEAM GENERATOR, AND CONTINUOUS MONITORING SYSTEM.

PERMIT UNIT REQUIREMENTS

- Gas turbine shall be fired exclusively with PUC or FERC regulated natural gas or natural gas documented to be of comparable quality. (District Rule 2201) Federally Enforceable Through Title V Permit
- 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]
 Federally Enforceable Through Title V Permit
- Gas turbine engine shall be equipped with continuously recording fuel gas flowrate monitor. [District Rule 2201]
 Federally Enforceable Through Title V Permit
- 4. Heat recovery steam generator exhaust stack shall be equipped with permanent provisions to allow collection of gas sample consistent with EPA test methods. [District Rule 1081] Federally Enforceable Through Title V Permit
- 5. Emission rates shall not exceed any of the following: PM-10: 0.015 lb/MMBTU, SOx (as SO2): 0.003 lb/MMBTU, NOx (as NO2): 25 ppmv @ 15% O2, VOC: 0.016 lb/MMBTU, or CO: 33 ppmv @ 15% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
- Emissions shall not exceed either of the following NSPS Subpart GG limits (1 hour standard): NOx (as NO2): 171
 ppmvd @ 15% O2, or SOx (as SO2): 150 ppmvd @ 15% O2. [District Rule 4001] Federally Enforceable Through
 Title V Permit
- 7. Permittee shall satisfy all applicable requirements of District Rule 4001, New Source Performance Standards Subpart GG and notification and reporting requirements. [District Rule 4001] Federally Enforceable Through Title V Permit
- 8. Compliance source testing for NOx, CO and demonstrated percent efficiency shall be conducted within 60 days of initial startup, and not less than once every 12 months for each mode of operation (standard operation and each experimental mode of operation). [District Rule 4703] Federally Enforceable Through Title V Permit
- 9. Compliance source testing shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
- 10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District 1081] Federally Enforceable Through Title V Permit
- 11. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
- 12. Compliance with SOx emission limits shall be demonstrated by fuel gas sulfur content analysis at the time of NOx testing. Sulfur testing is not required for PUC or FERC regulated natural gas. [District Rule 1081] Federally Enforceable Through Title V Permit

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 Location: HEAVY OIL CENTRAL, KERN COUNTY, CA

- 13. The following test methods shall be used: NOx (ppmv) EPA Method 7E or EPA Method 20, CO (ppmv) EPA Method 10 or 10B, stack gas oxygen EPA Methods 3, 3A or 20, and fuel gas sulfur content ASTM D3246 or double GC for H2S and mercaptans. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
- 14. Permittee shall maintain onsite for a period of at least five years accurate daily records of Predictive Emissions Monitoring System (PEMS) gas turbine engine exhaust NOx concentrations and such records shall be made readily available for District inspection upon request. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
- 15. Permittee's written request for approval of experimental components and operating conditions shall include at minimum the following information: components to be installed and conditions for operation, expected duration of operation, and description of, and justification for, expected emissions and maximum heat input rate. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 16. Permittee's request for approval of experimental components and operating conditions shall be submitted to the District at least 30 days prior to the initial planned installation date. The permittee shall also notify the District at least 15 days prior to the initial actual installation of the experimental components or start of operating conditions. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- 17. Permittee shall notify the District, in writing, of turbine operating mode (standard or experimental) no later than 48 hours after changing mode of operation. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
- Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the
 point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V
 Permit
- 19. Operator shall not exceed a NOx emission rate of: A. (If Rating <10 MW) 42 ppmvd @ 15% O2, excluding the thermal stabilization periods or reduced load periods. [40 CFR 60.332(a)(1) & 60.332(a)(2); District Rule 4703,5.1.1] Federally Enforceable Through Title V Permit
- 20. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [Kern County Rule 108.1; District Rule 1081] Federally Enforceable Through Title V Permit
- 21. The HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, OR ASTM 1945. [40 CFR 60.332(a),(b)] Federally Enforceable Through Title V Permit
- 22. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332(a),(b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
- 23. The operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703, 5.1.1. [40 CFR 60.332(a),(b) and 4703, 5.1.1] Federally Enforceable Through Title V Permit
- 24. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. Operation during periods of malfunction shall not constitute representative conditions for the purpose of determining compliance with emission limits based on 40 CFR 60.8 [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit
- 25. If the turbine is fired on PUC or FERC-regulated natural gas or natural gas documented to be of comparable quality, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
- 26. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(a),(b) and 4703, 6.2.4] Federally Enforceable Through Title V Permit
- 27. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(c)(2)] Federally Enforceable Through Title V Permit

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

Permit Unit Requirements for S-1131-1079-6 (continued)

Page 3 of 3

28. Permittee shall maintain onsite for a period of at least five years accurate records of daily fuel consumption, daily fuel sulfur content, and daily fuel nitrogen content and shall make such records readily available for District inspection upon request. Daily monitoring of fuel sulfur and nitrogen contents is not required for PUC or FERC regulated natural gas. [District Rules 4001 and 2201] Federally Enforceable Through Title V Permit

Appendix B

Fuel Use Records

Kern River Fee Cogen Operational Data

	A Fee #1 S-1131-970		A Fee #2 S-1131-97			C Fee #2 S-1131-974			C Fee #1 S-1131-1079			
		HHV (btu/s			HHV						нну	
Month	Mscf	cfl	MMBtu	Mscf	(btu/s cf)	MMBtu	Mscf	HHV (btu/scf)	MMBtu	Mscf	(btu/sc f)	MMBtu

Kern River Fee Cogen Operational Data

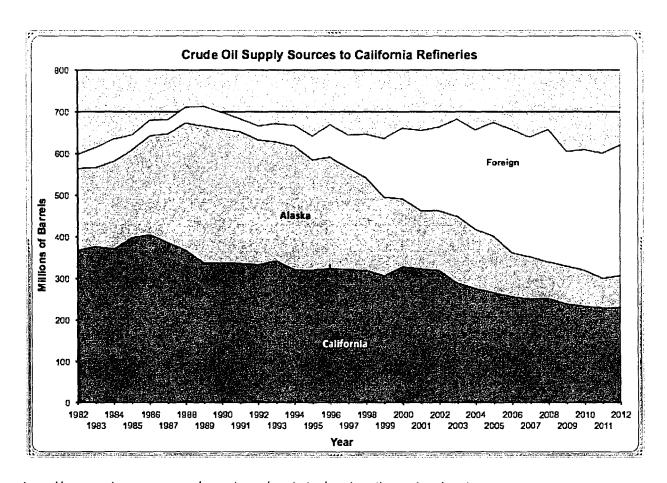
	1	A Fee#	1	1	A Fee #2		1	C Fee #2		C Fee	#1	
	S-1131-970			S-1131-973				S-1131-974		S-1131-1079		
Month	Mscf	ННУ	MM8tu_	Mscf	нну	MM8tu	Mscf	нн∨	MMBtu	Mscf HHV	MMBtu	
Oct-05	3,137	1,042	3,269	3,077	1,042	3,206	32,271	1,051	33,917	32,433 1,051	34,087	
Nov-05	0	1050	0	lo	1050	0	16,934	1,053	17,832	26,210 1,053	27,599	
Dec-05	0	1062	δ	0	1062	0	33,820	1.053	35,612	0 1,053	0	
Jan-06	3,410	1,047	3,570	4,498	1.047	4.709	0	1,053	0	0 1053	0	
Feb-06	30,205	1,054	31,836	31,322	1,054	33.013	29,224	1.054	30,802	29,293 1,054	30,875	
Mar-06	28,721	1,050	30,157	30,302	1.050	31,817	29,528	1,050	31,004	29,860 1,050	31,353	
Apr-06	26,070	1,046	27,269	27,291	1,046	28,546	27,045	1,046	28,289	26,771 1,046	28,002	
May-06	26,070	1,045	27,243	34,170	1,045	35,708	33,281	1,045	34,779	31,263 1,045	32,670	
Jun-06	31,873	1,047	33,371	32,527	1,047	34,056	32,520	1,047	34,048	32,068 1,047	33,575	
Jul-06	30,728	1.052	32,326	31,705	1,052	33,354	32,607	1,052	34,303	31,633 1,052	33,278	
Aug-06	32,875	1,053	34,617	33,988	1,053	35,789	33,072	1,053	34,825	32,977 1,053	34,725	
Sep-06	31,313	1,052	32,941	32,365	1,052	34,048	32,041	1,052	33,707	31,708 1,052	33,357	
Oct-06	32,877	1,051	34,554	33,730	1,051	35,450	32,271	1,051	33,917	32,433 1,051	34,087	
Nov-06	18,053	1,053	19,010	25,820	1,053	27,188	16,934	1.053	17,832	26,210 1,053	27,599	
Dec-06	21,216	1,053	22,340	11,682	1,053	12,301	33,820	1,053	35,612	0 1.053	0	
Jan-07	30,302	1,051	31,847	7,100	1,051	7,462	29,326	1,051	30,822	0 1,053	0	
Feb-07	29,731	1,054	31,336	30,916	1,054	32,585	30,345	1,054	31,984	1,865 1,051	1,960	
Mar-07	31,080	1,040	32,323	32,740	1,040	34,050	33,266	1,040	34,597	26,356 1,040	27,410	
Apr-07	28,359	1,045	29,635	33,124	1,045	34,615	31,864	1,045	33,298	34,116 1,045	35,651	
May-07	33,077	1,045	34,565	34,298	1,045	35,841	33,588	1,045	35,099	35,184 1,045	36,767	
Jun-07	25,250	1,043	26,336	30,918	1,043	32,247	31,125	1,043	32,463	31,279 1,043	32,624	
Jui-07	30,825	1,045	32,212	34,251	1,045	35,792	33,766	1,045	35,285	32,875 1,045	34,354	
Aug-07	32,795	1,049	34,402	33,938	1,049	35,601	33,926	1,049	35,588	33,543 1,049	35,187	
Sep-07	31,519	1,046	32,969	32,809	1,046	34,318	32,253	1.046	33,737	30,566 1,046	31,972	
Oct-07	32,994	1,048	34,578	34,395	1,048	36,046	34,315	1,048	35,962	17,108 1,048	17,929	
Nov-07	31,831	1,051	33,454	33,269	1,051	34,966	33,407	1,051	35,111	92 1,051	97	
Dec-07	7,682	1,053	8,089	25,576	1,053	26,932	30,506	1,053	32,123	568 1,053	598	
Jan-08	29,802	1,051	31,322	32,372	1,051	34,023	30,573	1,051	32,132	1,871 1,051	1,966	
Feb-08	29,972	1,044	31,291	29,368	1,044	30,660	31,119	1,044	32,488	87 1,044	91	
Mar-08	32,445	1,040	33,743	33,618	1,040	34,963	33,424	1,040	34,761	6,664 1,040	6,931	

Apr-08	31,911	1,048	33,443	32,899	1,048	34,478	31,861	1,048	33,390	20,844	1,048	21,845	l
May-08	32,618	1,042	33,988	34,408	1,042	35,853	32,740	1,042	34,115	586	1,042	611	ĺ
80-nut	31,321	1,048	32,824	33,394	1,048	34,997	24,507	1,048	25,683	0	1,048	0	l
80-lut	17,555	1,047	18,380	15,712	1,047	16,450	0	1.048	0	0	1,047	0	ĺ
Aug-08	0	1,047	0	0	S. C. FV		0	1,048	0	0	1,047	0	ĺ
Sep-08	0	1,044	0	0	1,044	0	0	1,044	0	0	1,044	0	l
Oct-08	0	1,036	0	0	1,036	0	0	1,036	0	0	1,036	0	i
Nov-08	0	1,037	0	0	1,037	0	0	1,037	0	0	1,037	0	ĺ
Dec-08	0	1,047	0	0	1,047	0	0	1,047	0	0	1,051	0	ĺ
Jan-09	0	1,040	0	0	1,040	0	0	1,040	0	٥	1040	O	ĺ
Feb-09	17,396	1,042	18,127	16,581	1,042	17,277	0	1,042	0	٥	1042	0	ĺ
Mar-09	3,760	1,034	3,888	1,183	1,034	1,223	0	1,034	0	0	1034	0	l
Apr-09	0	1,036	0	0	1,036	0	0	1,036	0	0	1036	0	ı
May-09	0	1,037	0	0	1,037	0	11,482	1,037	11,907	0	1037	0	ı
e0-nut	0	958	0	13,773	958	13,195	4,298	1,035	4,448	0	1035	0	
Jul-09	41,859	919	38,468	41,524	919	38,161	27,239	938	25,550	0	938	ο	ĺ
Aug-09	20,939	976	20,436	29,768	976	29,054	30,088	966	29,065	0	966	0	
Sep-09	32,338	1,038	33,567	31,859	1,038	33,070	21,676	1,038	22,500	0	1038	0	ĺ
Oct-09	34,762	1,036	36,013	33,796	1,036	35,013	29,594	1,036	30,659	0	1036	0	ĺ
Nov-09	32,876	1,031	33,895	32,022	1,031	33,015	30,255	1,031	31,193	٥	1031	0	ĺ
Dec- 0 9	30,667	1,030	31,587	29,039	1,030	29,910	25,168	1,030	25,923	0	1030	0	ĺ
Jan-10	33,733	1,031	34,779	32,687	1,031	33,700	21,470	1,031	22,136	0	1031	0	ĺ
Feb-10	30,908	1,031	31,866	30,458	1,031	31,402	29,239	1,031	30,145	0	1031	0	ĺ
Mar-10	32,885	1,036	34,069	33,072	1,036	34,263	33,221	1.036	34,417	0	1036	o	١
Apr-10	31,570	1,032	32,580	28,852	1,032	29,775	31,099	1,032	32,094	0	1032	0	ĺ
May-10	33,975	1,033	35 ,096	32,746	1,033	33,827	33,6 9 5	1,033	34,807	0	1033	0	ĺ
Jun-10	19,874	1,037	20,609	19,659	1,037	20,386	20,018	1,037	20,759	0	1037	0	1
Jul-10	0	1,037	0	0	1,037	0	0	1,037	0	0	1037	O	ĺ
Aug-10	0	1,035	0	0	1,037	0	0	1,037	0	0	1037	0	ĺ
Sep-10	0	1,036	0	}	1,037		1	1,037		ł	1037		İ
Oct-10	0	1,036	0	0	1,037		0	1,037		0	1037		ı
ļ													ĺ
60-Mo		_			1			1			ľ	·	
Avg MMBtu =		1,039			1,039			1,040			1,041		
		_		[•			•	l	

77.74

| From previous month

Appendix C Oil Production Graph



http://energyalmanac.ca.gov/petroleum/statistics/crude_oil_receipts.html

Appendix D Baseline Period Determination

Fee A				24 month	36 month	48 month	
	S-1131-970	S-1131-973		block	block	block	
	MMBtu	MMBtu	Total MMBtu	averages *	averages *	averages *	60 month *
1999	443,172	457,105	900,277			<u> </u>	'
2000-2005	2,302,762	2,381,462	4,684,224				
Oct -05 *	3,269	3,206	6,475	* shown separ	ately as these n	nonths are part	
Nov - 05 *	•	•	•	of the precedir	ng 5 year period	, but fuel use	
Dec - 05 *		-		included in 20	00-2005 total		
Jan-06	3,570	4,709	8,280				
Feb-06	31,836	33,013	64,849				
Mar-06	30,157	31,817	61,974				
Apr-06	27,269	28,546	55,816		•		
May-06	27,243	35,708	62,951	This pre	ceding 24 mor	nth	
Jun-06	33,371	34,056	67,427	period h	as an average		
Jul-06	32,326	33,354	65,680	monthly	fuel use close	st	
Aug-06	34,617	35,789	70,407	1	storic monthly		
Sep-06	32,941	34,048	66,989	fuel use			
Oct-06	34,554	35,450	70,004				
Nov-06	19,010	27,188	46,198	l	re, the 24 mon		
Dec-06	22,340	12,301	34,642	1	ep 2006 - Aug		
Jan-07	31,847	7,462	39,310	I - I	ost closely		
Feb-07	31,336	32,585	63,922		nt normal sour n. As such, th		
Mar-07	32,323	34,050	66,373		period is Sep		
Apr-07	29,635	34,615	64,250		ug 2008.		
May-07	34,565	35,841	70,407	12000	-ug 2000.		
Jun-07	26,336	32,247	58,583		- [
Jul-07	32,212	35,792	68,004				
Aug-07	34,402	35,601	70,003		1		
Sep-07	32,969	34,318	67,287	59,207			
Oct-07	34,578	36,046	70,624	59,726			
Nov-07	33,454	34,966	68,420	60,104	1		
Dec-07	8,089	26,932	35,021	59,059	1		
Jan-08	31,322	34,023	65,345	61,437	1		
Feb-08	31,291	30,660	61,951	61,316			
Mar-08	33,743	34,963	68,706	61,597	1		
Apr-08	33,443	34,478	67,921	62,101			
May-08	33,988	35,853	69,841	62,388	1		
Jun-08	32,824	34,997	67,821	62,404	1		
Jul-08	18,380	16,450	34,831	61,118	L .		
Aug-08	-	•	•	58,185)		
Sep-08	•		-	55,394	56,177		
Oct-08	-	•	•	52,477	54,525		
Nov-08	•	•	-	50,552	52,967		
Dec-08		•	-	49,109	51,495		
Jan-09	-	•	•	47,471	51,265		

^{*} block averages are for periods (24, 46, 48, 60 month) preceding the date indicated. Block averages are for periods that begin no earlier than Oct 2005, i.e. 5 years before the date the shutdown occured.

Fee A	S-1131-970 MMBtu	S-1131-973 MMBtu	Total MMBtu	24 month block averages *	36 month block averages *	48 month block averages *	60 month *
Feb-09	18,127	17,277	35,404	46,283	50,447		
Mar-09	3,888	1,223	5,111	43,730	48,868		
Apr-09	•	-	•	41,053	47,318		
May-09	-	-	-	38,120	45,569	'	
Jun-09	•	13,195	13,195	36,228	44,062		
Jul-09	38,468	38,161	76,629	36,588	44,367		
Aug-09	20,436	29,054	49,490	35,733	43,786		
Sep-09	33,567	33,070	66,636	35,706	43,776	46,673	
Oct-09	36,013	35,013	71,026	35,723	43,804	47,203	
Nov-09	33,895	33,015	66,910	35,660	44,379	47,622	
Dec-09	31,587	29,910	61,497	36,763	45,125	47,911	
Jan-10	34,779	33,700	68,479	36,894	45,936	49,165	
Feb-10	31,866	31,402	63,268	36,949	45,918	49,132	
Mar-10	34,069	34,263	68,331	36,933	45,972	49,265	
Apr-10	32,580	29,775	62,356	36,701	45,919	49,401	
May-10	35,096	33,827	68,923	36,663	45,878	49,525	
Jun-10	20,609	20,386	40,996	35,545	45,390	48,975	
Jul-10	•	-		34,094	43,501	47,606	
Aug-10	-	-	-	34,094	41,556	46,140	
Sep-10	•	-	•	34,094	, 39,687	44,744	
Oct-10	-	-	. •	34,094	37,725	43,286	46,070

Average monthly fuel use over 142 months of data provided Normal source operation (NSO) 58,145

^{*} block averages are for periods (24, 46, 48, 60 month) preceding the date indicated. Block averages are for periods that begin no earlier than Oct 2005, i.e. 5 years before the date the shutdown occured.

Fee C							
	S-1131-974 MMBtu	S-1131-1079 MMBtu	Total Lease MMBtu	24 month bloc averages *	k 36 month block averages *	48 month block averages *	60 month *
Jan - Dec							
1999	477,962	460,167	938,129				
2000-2005	2,340,058	2,308,193	4,648,251				
Oct -05 *	33,917	34,087	68,004	shown sepa	rately as these m	onths are part	
Nov - 05 *	17,832	27,599	45,431	of the precedi	ng 5 year period,	but fuel use	
Dec - 05 *	35,612	-	35,612	included in 20	00-2005 total		
Jan-06	-		-				
Feb-06	30,802	30,875	61,677				
Mar-06	31,004	31,353	62,357	[This period has	an	
Apr-06	28,289	28,002	56,292		average monthly		
May-06	34,779	32,670	67,448	1 :	closest to the his	i	
Jun-06	34,048	33,575	67,624	ļ	nonthly fuel use).	
Jul-06	34,303	33,278	67,580	1			
Aug-06	34,825	34,725	69,550		Therefore, the 2	,	
Sep-06	33,707	33,357	67,064		nonths period S		
Oct-06	33,917	34,087	68,004		Aug 2008 most		
Nov-06	17,832	27,599	45,431		epresent norma		
Dec-06	35,612	0	35,612		peration. As su		
Jan-07	30,822	0	30,822	1	paseline period 2006 - Aug 2008		
Feb-07	31,984	1,960	33,944		2006 - Aug 2006). 	
Mar-07	34,597	27,410	62,007				
Apr-07	33,298	35,651	68,949	1		İ	
May-07	35,099	36,767	71,867	į		ł	
Jun-07	32,463	32,624	65,087			1	
Jul-07	35,285	34,354	69,640			į	
Aug-07	35,588	35,187	70,775	\			
Sep-07	33,737	31,972	65,709	56,520	1/		
Oct-07	35,962	17,929	53,891	55,932	7 /		
Nov-07	35,111	97	35,207	55,506	7 /		
Dec-07	32,123	598	32,721	55,386	1/		
Jan-08	32,132	1,966	34,099	56,807	1/		
Feb-08	32,488	91	32,579	55,594	1		
Mar-08	34,761	6,931	41,692	54,733	7		
Apr-08	33,390	21,845	55,235	54.689	1		
May-08	34,115	611	34,726	53,326	D		
Jun-08	25,683	0	25,683	51,578	1		
Jul-08	0	0	0	48,762]		
Aug-08	0	0	0	45,864]		
Sep-08	0	0	0	43,070			
Oct-08	0	0	0	40,236	45,398		
Nov-08	0	0	0	38,344	44,136		
Dec-08	0	0	0	36,860			
Jan-09	0	0	ō	35,575			

^{*} block averages are for periods (24, 46, 48, 60 month) preceding the date indicated. Block averages are for periods that begin no earlier than Oct 2005, i.e. 5 years before the date the shutdown occured.

Fee C							
	S-1131-974	S-1131-1079	Total Lease	24 month block	36 month block	48 month block	
	MMBtu	MMBtu	MMBtu	averages *	averages *	averages *	60 month * `
Feb-09	0	0	0	34,161	41,433		
Mar-09	0	0	0	31,577	39,701		
Apr-09	0	0	0	28,705	38,137		
May-09	11,907	0	11,907	26,206	36,595		
Jun-09	4,448	0	4,448	23,680	34,840		
Jul-09	25,550	0	25,550	21,843	33,672		
Aug-09	29,065	0	29,065	20,105	32,548		
Sep-09	22,500	0	22,500	18,304	31,310	37,412	
Oct-09	30,659	0	30,659	17,336	30,272	36,634	
Nov-09	31,193	0	31,193	17,169	29,877	36,338	
Dec-09	25,923	0	25,923	16,886	29,608	36,136	
Jan-10	22,136	0	22,136	16,387	29,366	36,597	
Feb-10	30,145	0	30,145	16,286	29,261	35,940	
Mar-10	34,417	0	34,417	15,983	28,495	35,358	
Apr-10	32,094	0	32,094	15,019	27,471	34,854	
May-10	34,807	0	34,807	15,022	26,441	34,174	
Jun-10	20,759	0	20,759	14,817	25,210	33,197	
Jul-10	0	0	0	14,817	23,276	31,789	
Aug-10	0	0	0	14,817	21,310	30,341	
Sep-10			0	14,817	19,484	28,943	
Oct-10			0	14,817	17,987	27,527	33,165

Average monthly fuel use over 142 months of data provided Normal source operation (NSO) 52,783

^{*} block averages are for periods (24, 46, 48, 60 month) preceding the date indicated. Block averages are for periods that begin no earlier than Oct 2005, i.e. 5 years before the date the shutdown occured.

Appendix E

Draft ERCs

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

Emission Reduction Credit Certificate

ISSUED TO:

CHEVRON USA INC

ISSUED DATE:

<DRAFT>

LOCATION OF REDUCTION:

HEAVY OIL CENTRAL KERN COUNTY, CA

SECTION: 25 TOWNSHIP: 28S RANGE: 27E

For CO2E Reduction In The Amount Of:

36937 metric tons / year

[] Conditions Attached
Μe	ethod Of Reduction
]] Shutdown of Entire Stationary Source
[X	[] Shutdown of Emissions Units
[] Other

Shut down of two (S-1131-970 & '-973) Solar gas turbines verified as permanent within the State of California

Emission Reduction Qualification Criteria

This emission reduction is surplus and additional to all applicable greenhouse emission reduction regulatory requirements.

Seyed Sadredin, Executive Director/APCC

David Warner, Director of Permit Services

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

Emission Reduction Credit Certificate

ISSUED TO:

CHEVRON USA INC

ISSUED DATE:

<DRAFT>

LOCATION OF REDUCTION:

HEAVY OIL CENTRAL KERN COUNTY, CA

SECTION: 25 TOWNSHIP: 28S RANGE: 27E

For CO2E Reduction In The Amount Of:

33851 metric tons / year

[]	Conditions Attached
Meth	nod Of Reduction
[]	Shutdown of Entire Stationary Source
[X]	Shutdown of Emissions Units
[]	Other

Shut down of two (S-1131-974 & '-1073) Solar gas turbines verified as permanent within the State of California

Emission Reduction Qualification Criteria

This emission reduction is surplus and additional to all applicable greenhouse emission reduction regulatory requirements.

Seyed Sadredin, Executive Director/APCO

David Warner, Director of Permit Services