MAR 04 2011

Spencer Hammond
Chevron USA, Inc
PO Box 1392
Bakersfield, CA 93301

Re: Notice of Preliminary Decision - Title V Permit Renewal
District Facility # S-55
Project # S-1091192

Dear Mr. Hammond:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Chevron USA, Inc for its gas plant in the Western Gas Stationary Source in Kern County, California.

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 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. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

[Signature]

David Warner
Director of Permit Services

Attachments
C: Thom Maslowski, Permit Services Engineer
MAR 04 2011

Gerardo C. Rios, Chief
Permits Office (AIR-3)
U.S. EPA - Region IX
75 Hawthorne St.
San Francisco, CA 94105

Re: Notice of Preliminary Decision – Title V Permit Renewal
District Facility # S-55
Project # S-1091192

Dear Mr. Rios:

Enclosed for your review and comment is the District’s analysis of the application to renew the Federally Mandated Operating Permit for Chevron USA, Inc for its gas plant in the Western Gas Stationary Source in Kern County, California.

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 45-day 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. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner
Director of Permit Services

Attachments
C: Thom Maslowski, Permit Services Engineer

Seyed 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 93728-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-362-5500 FAX: 661-392-5585

www.valleyair.org www.healthyairliving.com
MAR 04 2011

Mike Tollstrup, Chief
Project Assessment Branch
Air Resources Board
P O Box 2815
Sacramento, CA 95812-2815

Re: Notice of Preliminary Decision - Title V Permit Renewal
District Facility # S-55
Project # S-1091192

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District’s analysis of the application to
renew the Federally Mandated Operating Permit for Chevron USA, Inc for its gas plant
in the Western Gas Stationary Source in Kern County, California.

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 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. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner
Director of Permit Services

Attachments
C: Thom Maslowski, Permit Services Engineer
NOTICE OF PRELIMINARY DECISION
FOR THE PROPOSED RENEWAL OF
THE FEDERALLY MANDATED OPERATING PERMIT

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed renewal of the Federally Mandated Operating Permit to Chevron USA, Inc for its gas plant in the Western Gas Stationary Source in Kern County, California.

The District's analysis of the legal and factual basis for this proposed action, project #S-1091192, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed renewal of the Federally Mandated Operating permit. If requested by the public, the District will hold a public hearing regarding issuance of this renewed permit. For additional information, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900. Written comments on the proposed renewed permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CALIFORNIA 93726-0244.
SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT

Title V Permit Renewal Evaluation
Chevron USA, Inc
S-55

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A. DRAFT RENEWED TITLE V OPERATING PERMIT
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C. DETAILED FACILITY LIST
D. CURRENT DISTRICT RULE SIP COMPARISONS
TITLE V PERMIT RENEWAL EVALUATION
Gas Plant

Engineer: Thom Maslowski
Date: August 4, 2010

Facility Number: S-0055
Facility Name: Chevron USA, Inc
Mailing Address: P O Box 1392
Bakersfield, CA 93301

Contact Name: Spencer B Hammond
Phone: (661) 654-7788

Responsible Official: Christopher E Stevens
Title: Area Manager WCC

Project #: S-1091192
Deemed Complete: March 6, 2009

I. PROPOSAL

Chevron USA, Inc was issued a Title V permit on July 31, 2004. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

The purpose of this evaluation is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

II. FACILITY LOCATION

Chevron USA, Inc is located at the Lost Hills Gas Plant in the Western Gas Stationary Source in Kern County, CA.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is included as Attachment C.
IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is not proposing to use any model general permit templates as a part of this Title V renewal project.

V. SCOPE OF EPA AND PUBLIC REVIEW

The applicant is not requesting any model general permit templates. Therefore, all federally enforceable conditions in this current Title V permit will be subject to EPA and public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2020, Exemptions  
  (amended September 17, 1998 ⇒ amended December 20, 2007)

- District Rule 2201, New and Modified Stationary Source Review Rule  
  (amended September 21, 2006 ⇒ amended December 18, 2008)

- District Rule 4101, Visible Emissions  
  (amended December 17, 1992 ⇒ amended February 17, 2005)

- District Rule 4311, Flares (adopted June 20, 2002 ⇒ Amended June 18, 2009)

- District Rule 4601, Architectural Coatings  
  (amended October 31, 2001 ⇒ amended December 17, 2009)

- District Rule 4702, Internal Combustion Engines – Phase 2  
  (adopted August 21, 2003 ⇒ amended January 18, 2007)

- District Rule 8011, General Requirements  

- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities  

- District Rule 8031, Bulk Materials  
• District Rule 8041, Carryout and Trackout
  *(adopted November 15, 2001 ⇒ amended August 19, 2004)*

• District Rule 8051, Open Areas
  *(adopted November 15, 2001 ⇒ amended August 19, 2004)*

• District Rule 8061, Paved and Unpaved Roads
  *(adopted November 15, 2001 ⇒ amended August 19, 2004)*

• District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas
  *(adopted November 15, 2001 ⇒ amended September 16, 2004)*


**B. Rules Removed**

• District Rule 4403, Components Serving Light Crude Oil or Gases at Light Crude Oil and Gas Production Facilities and Components at Natural Gas Processing Facilities *(amended April 20, 2005)*

  This rule's requirements were no longer applicable after April 20, 2006 and were replaced by District Rule 4409.

• District Rule 4701, Internal Combustion Engines
  *(amended August 21, 2003)*

• District Rules 8020, 8030, and 8060, Fugitive Dust (PM<sub>10</sub>) Emissions
  *(amended April 25, 1996)*

  These rules were removed on November 15, 2001 and were replaced by District Rules 8021, 8031, and 8061.

**C. Rules Added**

• District Rule 4409, Components at Light Crude Oil Production Facilities, Natural Gas Production Facilities and Natural Gas Processing Facilities *(adopted April 20, 2005)*

• 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

**D. Rules Not Updated**

• District Rule 1080, Stack Monitoring *(amended December 17, 1992)*
• District Rule 1081, Source Sampling (amended December 16, 1993)

• District Rule 1100, Equipment Breakdown (Non-SIP replacement for Kern County Rule 111) (amended December 17, 1992)

• District Rule 2010, Permits Required (amended December 17, 1992)

• District Rule 2031, Transfer of Permits (amended December 17, 1992)

• District Rule 2080, Conditional Approval (amended December 17, 1992)

• District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)

• District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)

• District Rule 4301, Fuel Burning Equipment (amended December 17, 1992)

• District Rule 4408, Glycol Dehydration Systems (amended December 19, 2002)

• District Rule 4801, Sulfur Compounds (Non-SIP replacement for Kern County Rule 108.1) (amended December 17, 1992)

• 40 CFR Part 61, Subpart M, National Emissions Standards for Asbestos

• 40 CFR Part 64, Compliance Assurance Monitoring (CAM)

• 40 CFR Part 82, Subpart F, Stratospheric Ozone

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility’s Title V permit are designated as “Federally Enforceable Through Title V Permit”.

For this facility, the following are not federally enforceable and will not be discussed in further detail:

A. Rules Adopted

None
B. Rules Not Updated

- District Rule 4102, *Nuisance (amended December 17, 1992)*

For this facility, condition 36 of the facility-wide requirements S-55-0-2 is based on the rule listed above and are not Federally Enforceable through Title V.

- District Rule 4406, *Sulfur Compounds From Oil-Field Steam Generators – Kern County (amended December 17, 1992)*

VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review the updated federally enforceable requirements; therefore, this compliance section will only address rules that have been updated or added since the issuance of the initial Title V permit.

A. District Rule 2020 – Exemptions

District Rule 2020 lists equipment which are specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions.

Condition 4 of permit unit -0-2 ensures compliance.

B. District Rule 2201 – New and Modified Stationary Source Review Rule

District Rule 2201 has been amended since this facility’s initial Title V permit was issued. This Title V permit renewal does not constitute a modification per section 3.26, defined as an action including at least one of the following items:

1) Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.

2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.

3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.

4) Addition of any new emissions unit which is subject to District permitting requirements.

5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.
Therefore, the updated requirements of this rule are not applicable to the permits being renewed as a part of this project.

C. District Rule 2520 – Federally Mandated Operating Permits

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

D. District Rule 4101 – Visible Emissions

District Rule 4101 has been submitted to the EPA to replace SIP approved Rule 401 (all counties of the SJVUAPCD). EPA made a preliminary determination that District Rule 4101 is “more stringent” than the county versions previously referenced, per correspondence dated August 20, 1996.

Section 5.0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart; or is of such opacity as to obscure an observer’s view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101. Condition 22 of the facility-wide requirements of S-55-0-2 ensures compliance.

E. District Rule 4311 – Flares

The purpose of this rule is to limit the emissions of volatile organic compounds (VOC), oxides of nitrogen (NOx), and sulfur oxides (SOx) from the operation of flares. This rule applies to all facilities operating flares.

Current District Rule 4311 (amended 6/18/09) has not been SIP approved. Attachment D contains the streamlining of the SIP approved District Rule 4311 (6/20/02) to the current District Rule 4311 to show the current rule is as stringent if not more than the SIP approved version.

Section 5.1 states that flares that are permitted to operate only during an emergency are not subject to the requirements of Sections 5.6 and 5.7.

Since the flare in unit S-55-11 is only used as an emergency flare, it will not be subject to the requirements of these sections.

Section 5.2 requires that a flame be present at all times when combustible gases are vented through the flare.
Section 5.3 requires that the outlet shall be equipped with an automatic ignition system, or, shall be operated with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares.

Section 5.4 requires that except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated.

Section 5.5 requires that flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging.

Section 5.6 requires that open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. The requirements of this section do not apply to Coanda effect flares.

The flare, unit S-55-11 is an emergency flare, and therefore exempt from this requirement.

Section 5.7 requires ground-level enclosed flares to meet the emission standards listed in the table below.

<table>
<thead>
<tr>
<th>Ground Level Enclosed Flare Emission Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Flare and Heat Release Rate in MMBtu/hr</td>
</tr>
<tr>
<td>Without Steam-assist</td>
</tr>
<tr>
<td>&lt; 10 MMBtu</td>
</tr>
<tr>
<td>10 – 100 MMBtu</td>
</tr>
<tr>
<td>&gt; 100 MMBtu</td>
</tr>
</tbody>
</table>

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this requirement.

Section 5.8 requires that effective on and after July 1, 2011, flaring is prohibited unless it is consistent with an approved flare minimization plan (FMP), pursuant to Section 6.5, and all commitments listed in that plan have been met. This standard shall not apply if the APCO determines that the flaring is caused by an
emergency as defined by Section 3.7 and is necessary to prevent an accident, hazard or release of vent gas directly to the atmosphere.

Section 5.9 discusses the petroleum refinery SO2 performance targets. Since this facility is not a petroleum refinery, this section is not applicable.

Compliance with the requirements in Section 5.0 of this rule is demonstrated with the permit conditions 10 – 13 for S-55-11.

Section 6.1 states that the following records shall be maintained, retained on-site for a minimum of five years, and made available to the APCO, ARB, and EPA upon request:

- Copy of the compliance determination conducted pursuant to Section 6.4.1.
- Copy of the source testing result conducted pursuant to Section 6.4.2.
- For flares used during an emergency, record of the duration of flare operation, amount of gas burned, and the nature of the emergency situation.
- Operators claiming an exemption pursuant to Section 4.3 shall record annual throughput, material usage, or other information necessary to demonstrate an exemption under that section.
- Effective on and after July 1, 2011, a copy of the approved flare minimization plan pursuant to Section 6.5.
- Effective on and after July 1, 2012, where applicable, a copy of annual reports submitted to the APCO pursuant to Section 6.2.
- Effective on and after July 1, 2011, where applicable, monitoring data collected pursuant to Sections 5.10, 6.6, 6.7, 6.8, 6.9, and 6.10.

Compliance with the recordkeeping requirements of this rule is demonstrated with the permit conditions 14 – 16 for S-55-11.

Section 6.2.1 states for unplanned flaring events that effective on and after July 1, 2011, the operator of a flare subject to flare minimization plans pursuant to Section 5.8 of this rule shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, which ever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time.

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this requirement.

Section 6.2.2 states for reportable flaring events that effective on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare
minimization plans pursuant to Section 5.8 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the twelve month period of the previous year. The report shall include, but is not limited to all of the following:

- The results of an investigation to determine the primary cause and contributing factors of the flaring event;
- Any prevention measures considered or implemented to prevent recurrence together with a justification for rejecting any measures that were considered but not implemented;
- If appropriate, an explanation of why the flaring was an emergency and necessary to prevent accident, hazard or release of vent gas to the atmosphere, or where, due to a regulatory mandate to vent a flare, it cannot be recovered, treated and used as a fuel gas at the facility; and
- The date, time and duration of the flaring event.

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this requirement.

Section 6.2.3 states that effective on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare monitoring requirements pursuant to Sections 5.10, 6.6, 6.7, 6.8, 6.9, and 6.10, as appropriate, shall submit an annual report to the APCO within 30 days following the end of each 12 month period. The report shall include the following:

- The total volumetric flow of vent gas in standard cubic feet for each day.
- Hydrogen sulfide content, methane content, and hydrocarbon content of vent gas composition pursuant to Section 6.6.
- If vent gas composition is monitored by a continuous analyzer or analyzers pursuant to Section 5.11, average total hydrocarbon content by volume, average methane content by volume, and depending upon the analytical method used pursuant to Section 6.3.4, total reduced sulfur content by volume or hydrogen sulfide content by volume of vent gas flared for each hour of the month.
- If the flow monitor used pursuant to Section 5.10 measures molecular weight, the average molecular weight for each hour of each month.
- For any pilot and purge gas used, the type of gas used, the volumetric flow for each day and for each month, and the means used to determine flow.
- Flare monitoring system downtime periods, including dates and times.
• For each day and for each month provide calculated sulfur dioxide emissions.
• A flow verification report for each flare subject to this rule. The flow verification report shall include flow verification testing pursuant to Section 6.3.5.

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this requirement.

Section 6.3.1 states that VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources". The VOC concentration in ppmv shall be converted to pounds per million Btu (lb/MMBtu) by using the following equation:

\[
\text{VOC in lb/MMBtu} = \frac{(\text{ppmv dry}) \times (F, \text{ dscf / MMBtu})}{(1.135 \times 10^6) \times (20.9 - \% \text{ O}_2)}
\]

Where: \( F = \) As determined by EPA Method 19

Section 6.3.2 requires that NOx emissions in pounds per million BTU shall be determined by using EPA Method 19.

Section 6.3.3 requires that NOx and O\(_2\) concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100.

Section 6.3.4 states that effective on and after July 1, 2011 operators subject to vent gas composition monitoring requirements pursuant to Section 6.6 shall use the following test methods as appropriate, or by an alternative method approved by the APCO, ARB and EPA:

• Total hydrocarbon content and methane content of vent gas shall be determined using ASTM Method D 1945-96, ASTM Method UOP 539-97, EPA Method 18, or EPA Method 25A or 25B,
• If vent gas composition is monitored with a continuous analyzer employing gas chromatography the minimum sampling frequency shall be one sample every 30 minutes.
• If vent gas composition is monitored using continuous analyzers not employing gas chromatography, the total reduced sulfur content of vent gas shall be determined by using EPA Method D4468-85.

Section 6.3.5 states that for purposes of the flow verification report required by Section 6.2.3.8, vent gas flow shall be determined using one or more of the following methods, or by any alternative method approved by the APCO, ARB, and EPA:

• EPA Methods 1 and 2;
• A verification method recommended by the manufacturer of the flow monitoring equipment installed pursuant to Section 5.10.
• Tracer gas dilution or velocity.
• Other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter.

Compliance with the test method requirements in this rule is demonstrated with permit conditions 17-21 from S-55-11.

Section 6.4.1 states that upon request, the operator of flares that are subject to Section 5.6 shall make available, to the APCO, the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5).

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this section.

Section 6.4.2 states that the operator of ground-level enclosed flares shall conduct source testing at least once every 12 months to demonstrate compliance with Section 5.7. The operator shall submit a copy of the testing protocol to the APCO at least 30 days in advance of the scheduled testing. The operator shall submit the source test results not later than 45 days after completion of the source testing.

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this section.

Sections 6.5.1 states that by July 1, 2010, the operator of a petroleum refinery flare or any flare that has a flaring capacity of greater than or equal to 5.0 MMBtu per hour shall submit a flare minimization plan (FMP) to the APCO for approval. The FMP shall include, but not be limited to:

• A description and technical specifications for each flare and associated knock-out pots, surge drums, water seals and flare gas recovery systems.
• Detailed process flow diagrams of all upstream equipment and process units venting to each flare, identifying the type and location of all control equipment.

• A description of equipment, processes, or procedures the operator plans to install or implement to eliminate or minimize flaring and planned date of installation or implementation.

• An evaluation of prevention measures to reduce flaring that has occurred or may by expected to occur during planned major maintenance activities, including startup and shutdown.

• An evaluation of preventative measures to reduce flaring that may be expected to occur due to issues of gas quantity and quality. The evaluation shall include an audit of the vent gas recovery capacity of each flare system, the storage capacity available for excess vent gases, and the scrubbing capacity available for vent gases including any limitations associated with scrubbing vent gases for use as a fuel; and shall determine the feasibility of reducing flaring through the recovery, treatment and use of the gas or other means.

• An evaluation of preventative measures to reduce flaring caused by the recurrent failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. The evaluation shall determine the adequacy of existing maintenance schedules and protocols for such equipment. For purposes of this section, a failure is recurrent if it occurs more than twice during any five year period as a result of the same cause as identified in accordance with Section 6.2.2.

• Any other information requested by the APCO as necessary for determination of compliance with applicable provisions of this rule.

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this section.

Section 6.5.2 states that every five years after the initial FMP submittal, the operator shall submit an updated FMP for each flare to the APCO for approval. The current FMP shall remain in effect until the updated FMP is approved by the APCO. If the operator fails to submit an updated FMP as required by this section, the existing FMP shall no longer be considered an approved plan.

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this section.

Section 6.5.3 states that an updated FMP shall be submitted by the operator pursuant to Section 6.5 addressing new or modified equipment, prior to installing the equipment. Updated FMP submittals are only required if:
• The equipment change would require an Authority To Construct (ATC) and would impact the emissions for the flare, and
• The ATC is deemed complete after June 18, 2009, and
• The modification is not solely the removal or decommissioning of equipment that is listed in the FMP and has no associated increase in flare emissions.

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this section.

Section 6.5.4 states that when submitting the initial FMP, or updated FMP, the operator shall designate as confidential any information claimed to be exempt from public disclosure under the California Public Records Act, Government Code Section 6250 et seq. If a document is submitted that contains information designated confidential, the operator shall provide a justification for this designation and shall submit a separate copy of the document with the information designated confidential redacted.

The flare in unit S-55-11 is an emergency flare, and therefore exempt from this section.

Section 6.6 states that effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor vent gas composition using one of the five methods pursuant to Section 6.6.1 through Section 6.6.5 as appropriate.

Section 6.7 states that effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor the volumetric flows of purge and pilot gases with flow measuring devices or other parameters as specified on the Permit to Operate so that volumetric flows of pilot and purge gas may be calculated based on pilot design and the parameters monitored.

Section 6.8 states that effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour with a water seal shall monitor and record the water level and pressure of the water seal that services each flare daily or as specified on the Permit to Operate.

Section 6.9 states that effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall comply with the following, as applicable:
6.9.1 Periods of flare monitoring system inoperation greater than 24 continuous hours shall be reported by the following working day, followed by notification of resumption of monitoring. Periods of inoperation of monitoring equipment shall not exceed 14 days per any 18-consecutive-month period. Periods of flare monitoring system inoperation do not include the periods when the system feeding the flare is not operating.

6.9.2 During periods of inoperation of continuous analyzers or autosamplers installed pursuant to Section 6.6, operators responsible for monitoring shall take one sample within 30 minutes of the commencement of flaring, from the flare header or from an alternate location at which samples are representative of vent gas composition and have samples analyzed pursuant to Section 6.3.4. During periods of inoperation of flow monitors required by Section 5.10, flow shall be calculated using good engineering practices.

6.9.3 Maintain and calibrate all required monitors and recording devices in accordance with the applicable manufacturer’s specifications. In order to claim that a manufacturer’s specification is not applicable, the person responsible for emissions must have, and follow, a written maintenance policy that was developed for the device in question. The written policy must explain and justify the difference between the written procedure and the manufacturer’s procedure.

6.9.4 All in-line continuous analyzer and flow monitoring data must be continuously recorded by an electronic data acquisition system capable of one-minute averages. Flow monitoring data shall be recorded as one-minute averages.

Section 6.10 applies to petroleum refinery flares. The flare at this facility are petroleum refinery flares; therefore the requirements of this section do not apply.

Compliance with the monitoring requirements in this rule is demonstrated with permit conditions 22-28.

Section 7.0 establishes the compliance schedule requirements for existing and new flares. Permit unit S-55-11 is an existing flare and is operating in compliance with the requirements of this rule. Therefore, no further discussion is required.
F. District Rule 4409 – Components at Light Crude Oil Production Facilities, Natural Gas Production Facilities and Natural Gas Processing Facilities

The purpose of this rule is to limit VOC emissions from leaking components at light crude oil production facilities, natural gas production facilities, and natural gas processing facilities.

Section 3.20 specifies the following emissions levels as a leak:

<table>
<thead>
<tr>
<th>Type of Component</th>
<th>Major Gas Leak (ppmv methane)</th>
<th>Minor Gas Leak Components in Liquid Service (ppmv as methane)</th>
<th>Minor Gas Leak Components in Gas/Vapor Service (ppmv as methane)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valves</td>
<td>&gt; 10,000</td>
<td>1,000 to 10,000</td>
<td>2,000 to 10,000</td>
</tr>
<tr>
<td>Threaded Connections</td>
<td>&gt; 10,000</td>
<td>1,000 to 10,000</td>
<td>2,000 to 10,000</td>
</tr>
<tr>
<td>Flanges</td>
<td>&gt; 10,000</td>
<td>1,000 to 10,000</td>
<td>2,000 to 10,000</td>
</tr>
<tr>
<td>Pipes</td>
<td>&gt; 10,000</td>
<td>1,000 to 10,000</td>
<td>2,000 to 10,000</td>
</tr>
<tr>
<td>Pumps</td>
<td>&gt; 10,000</td>
<td>1,000 to 10,000</td>
<td>2,000 to 10,000</td>
</tr>
<tr>
<td>Compressors</td>
<td>&gt; 10,000</td>
<td>1,000 to 10,000</td>
<td>2,000 to 10,000</td>
</tr>
<tr>
<td>Pressure Relief Devices (PRDs)</td>
<td>&gt; 10,000</td>
<td>200 to 10,000</td>
<td>400 to 10,000</td>
</tr>
<tr>
<td>Polished Rod Stuffing Boxes</td>
<td>&gt; 10,000</td>
<td>1,000 to 10,000</td>
<td>1,000 to 10,000</td>
</tr>
<tr>
<td>Other Components not listed above</td>
<td>&gt; 10,000</td>
<td>1,000 to 10,000</td>
<td>2,000 to 10,000</td>
</tr>
</tbody>
</table>

Section 5.1.1 requires that an operator shall not use any component that leaks in excess of the applicable leak standards of this rule, or that is found to be in violation of the provisions specified in Section 5.1.3. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this rule.

Section 5.1.2 requires that each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere.
Section 5.1.3.1.1 specifies that the operator shall be in violation of this rule if any District inspection demonstrates that one or more of the conditions in Section 5.1.4 exist at the facility.

Section 5.1.3.1.2 goes on to specify that notwithstanding the provision of Section 5.1.3.1.1, minor gas leaks from polished rod stuffing boxes (PRSB) found during any District inspection shall not be counted toward determination of compliance with this rule provided the operator repairs, replaces, or removes leaking PRSB from VOC service as soon as practicable but not later than the time frame specified in this rule.

Section 5.1.3.2.1 specifies that except for annual operator inspections described in Section 5.1.3.2.3, any operator inspection that demonstrates one or more of the conditions in Section 5.1.4 exist at the facility shall not constitute a violation of this rule if the leaking components are repaired as soon as practicable but not later than the time frame specified in this rule. Such components shall not be counted towards determination of compliance with the provisions of Section 5.1.4.

Section 5.1.3.2.2 specifies that leaking components detected during operator inspection pursuant Section 5.1.3.2.1 that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Section 5.1.4.

Section 5.1.3.2.3 specifies that any operator inspection conducted annually for a component type (including operator annual inspections pursuant to Section 5.2.6, 5.2.7, 5.2.8, or 5.2.9) that demonstrates one or more of the conditions in Section 5.1.4 exist at the facility shall constitute a violation of this rule regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this rule.

Section 5.1.4 specifies that for the purpose of this rule, a component shall be considered leaking if one or more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 exist at the facility.

Section 5.1.4.1 specifies that a component shall be considered leaking if an open-ended line or a valve located at the end of the line that is not sealed with a blind flange, plug, cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended lines. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere.
Section 5.1.4.2 specifies that a component shall be considered leaking with a major liquid leak (defined as a visible mist or a continuous flow of liquid that is not seal lubricant).

Section 5.1.4.3 specifies that a component shall be considered to have a gas leak if emissions are greater than 50,000 ppmv as methane.

Section 5.1.4.4 specifies that a component shall be considered leaking if a component has a leak described in Sections 5.1.4.4.1 through 5.1.4.4.3 and numbering in excess of the maximum allowable number or percent specified in the following Table.

<table>
<thead>
<tr>
<th>Component</th>
<th>Maximum Number of Leaks for 200 or Fewer Components Inspected</th>
<th>Maximum Percent or Number of Leaks for more than 200 Components Inspected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valves</td>
<td>1</td>
<td>0.5% of number inspected</td>
</tr>
<tr>
<td>Threaded Connections</td>
<td>1</td>
<td>0.5% of number inspected</td>
</tr>
<tr>
<td>Flanges</td>
<td>1</td>
<td>0.5% of number inspected</td>
</tr>
<tr>
<td>Pumps</td>
<td>2</td>
<td>1.0% of number inspected</td>
</tr>
<tr>
<td>Compressors</td>
<td>1</td>
<td>1 leak</td>
</tr>
<tr>
<td>PRDs</td>
<td>1</td>
<td>1 leak</td>
</tr>
<tr>
<td>Polished Rod Stuffing Boxes</td>
<td>4</td>
<td>2% of number inspected</td>
</tr>
<tr>
<td>Other Components not listed above</td>
<td>1</td>
<td>1 leak</td>
</tr>
<tr>
<td>Pipes at Light Crude Oil or Gas Production Facilities</td>
<td>Maximum Number of Leaks for 200 or fewer production wells inspected</td>
<td>Maximum Number of Leaks for more than 200 production wells inspected</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>1% of number inspected</td>
</tr>
</tbody>
</table>

Section 5.2.1 requires that for manned light oil production facilities, gas production facilities, and gas processing facilities, an operator shall audiovisually (by hearing and by sight) inspect for leaks all accessible operating pumps, compressors, pressure relief valves (should say PRDs instead of PRVs) in service at least once every 24 hours except when operators do not report to the facility for that given 24 hours.

Section 5.2.2 requires that for unmanned light oil production facilities, gas production facilities, or gas processing facilities, the operator shall audiovisually inspect for leaks all accessible operating pumps, compressors, PRDs in service at least once per calendar week.
Section 5.2.3 requires that any audio-visual inspection of all accessible operating pumps, compressors, and PRDs performed by an operator that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected using the test method specified in Section 6.3.1 not later than 24 hours after conducting the audio-visual inspection. If a leak is found, the leak shall be repaired as soon as practicable but not later than the time frame specified in Table 3 of this rule.

Section 5.2.4 requires that notwithstanding the requirements of Sections 5.2.1, 5.2.2, and 5.2.3, the operator shall inspect all components using the test method specified in Section 6.3.1 at least once every calendar quarter, except for inaccessible components, unsafe-to-monitor components, or pipes. Inaccessible components and unsafe-to-monitor components shall be inspected in accordance with the provisions of Sections 5.2.6 and 5.2.7, respectively. Pipes shall be inspected in accordance with the provisions of Section 5.2.8.

Section 5.2.5 requires that the operator shall inspect, immediately after placing into service, all new, replaced, or repaired fittings, flanges, and threaded connections using the test method specified in Section 6.3.1.

Section 5.2.6 requires that the operator shall inspect all inaccessible components at least once every 12 months using the test method specified in Section 6.3.1.

Section 5.2.7 requires that the operator shall inspect all unsafe-to-monitor components during each turnaround using the test method specified in Section 6.3.1.

Section 5.2.8 requires that the operator shall visually inspect all pipes for leaks at least once every 12 months.

Section 5.2.8.1 requires that any visual inspection of pipes that indicates a leak that cannot be immediately repaired to meet the leak standards of this rule shall be inspected using the test method specified in Section 6.3.1 within 24 hours after detecting the leak. If a leak is found, the leak shall be repaired as soon as practicable but not later than the time frame specified in Table 3 of this rule.

Section 5.2.8.2 requires that the operator may conduct the annual pipe inspection required by Section 5.2.8 in conjunction with the annual pipe inspection required by the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention
and Response: Non-Transportation-Related Onshore and Offshore Facilities). Records of annual pipe inspection required by DOGGR or SPCC may be used to document the inspection required by Section 5.2.8. The operator shall maintain the records of such inspections at the facilities. The records shall be made available to the APCO, ARB, and EPA upon request.

Section 5.2.9 requires that notwithstanding the requirement of Section 5.2.4, the operator may apply for a written approval from the APCO to change the inspection frequency from quarterly to annually for a component type, or an operator who is already on an annual inspection frequency on or before (rule adoption date) may apply for a written approval from the APCO to continue conducting annual inspections for a component type, provided the operator meets all the criteria specified in Sections 5.2.9.1 through 5.2.9.3. This approval shall apply to accessible component types specifically designated by the APCO, except pumps, compressors, and PRDs which shall continue to be inspected on a quarterly basis. Sections 5.2.9.1 through 5.2.9.3 specify the following requirements:

1) The operator was not in violation of any provision of Sections 5.1 during five consecutive quarterly inspections for that component type.
2) The operator did not receive a Notice of Violation from the APCO during the previous 12 months violating any provisions of this rule for that component type.
3) The written request shall include pertinent documentation to demonstrate that the operator has successfully met the requirements of Sections 5.2.9.1 and 5.2.9.2.
4) The annual inspection frequency approved by the APCO pursuant to Section 5.2.9 shall revert to quarterly inspection frequency for a component type if either one of the following occurs:
5) The operator inspection or District inspection demonstrates that a violation of the provisions of Sections 5.1, 5.2, or 5.3 exists for that component type; or
6) The APCO issued a Notice of Violation for violating any of the provisions of this rule during the annual inspection period for that component type.

Section 5.2.10 requires that the annual inspection frequency approved by the APCO pursuant to Section 5.2.9 shall revert to quarterly inspection frequency for a component type if either one of the following occurs:

1) The operator inspection or District inspection demonstrates that a violation of the provisions of Sections 5.1, 5.2, or 5.3 exists for that component type; or
2) The APCO issued a Notice of Violation for violating any of the provisions of this rule during the annual inspection period for that component type.
Section 5.2.11 requires that when the inspection frequency changes from annual to quarterly inspections pursuant to Section 5.2.10, the operator shall notify the APCO in writing within five (5) calendar days after changing the inspection frequency. The written notification shall include the reason(s) and date of change to quarterly inspection frequency.

Section 5.2.12 requires that the operator shall initially inspect a PRD that releases to the atmosphere using the test method specified in Section 6.3.1 as soon as practicable but not later than 24 hours after the time of the release. The operator shall reinspect the PRD using the test method specified in Section 6.3.1 not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the release and is leak-free (is leak free should not be in this statement). If the PRD is found to be leaking at either inspection, the PRD leak shall be treated as if the leak was found during quarterly operator inspections.

Section 5.2.13 requires that except for PRDs subject to the requirements of Section 5.2.12, a component shall be inspected not later than 15 calendar days after repairing the leak or replacing the component using the test method specified in Section 6.3.1.

Section 5.2.14 requires that a District inspection in no way fulfills any of the mandatory inspection requirements that are placed upon operators and cannot be used or counted as an inspection required of an operator. Any attempt by an operator to count such District inspections as part of the mandatory operator's inspections is considered a willful circumvention of the rule and is a violation of this rule.

Section 5.3.1 requires that upon detection of a leaking component, the operator shall affix to that component a weatherproof readily visible tag. The tag shall meet the following requirements:

1. The tag shall remain affixed to the component until all the conditions specified in Sections 5.3.2.1 through 5.3.2.3 have been met.
2. The leaking component has been repaired or replaced; and
3. The component has been re-inspected using the test method in Section 6.3.1; and
4. The component is found to be in compliance with the rule requirements.

The tag shall include the following information:

1) Date and time of leak detection.
2) Date and time of leak measurement.
3) For gaseous leaks, indicate the leak concentration in ppmv.
4) For liquid leaks, indicate whether it is a major liquid or a minor liquid leak.
5) For essential components, unsafe-to-monitor components, or critical components, so indicate on the tag.

Section 5.3.4 requires that an operator shall minimize all component leaks immediately to the extent possible, but not later than one (1) hour after detection of leaks in order to stop or reduce leakage to the atmosphere.

Section 5.3.5 requires that if the leak has been minimized but the leak still exceeds the applicable leak standards of this rule, an operator shall comply with at least one of the requirement of Sections 5.3.5.3, 5.3.5.4 or 5.3.5.5 as soon as practicable but not later than the time period specified in Table 3.

1) The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the repair period specified in Table 3.
2) The start of the repair period shall be the time of the initial leak detection.
3) Repair or replace the leaking component; or
4) Vent the leaking component to a closed vent system as defined in Section 3.0.
5) Remove the leaking component from operation.

<table>
<thead>
<tr>
<th>Type of Leak</th>
<th>Repair Period in Calendar Days</th>
<th>Extended Repair Period in Calendar Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor Gas Leak</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Major Gas Leak greater than 10,000 ppmv but equal to or less than 50,000 ppmv</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Major Gas Leak greater than 50,000 ppmv</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Minor Liquid Leak</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Major Liquid Leak</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Section 5.3.5 further states that for each calendar quarter, the operator may be allowed to extend the repair period as specified in Table 3, for a total number of leaking components, not to exceed 0.05% of the number of components inspected, by type, rounded upward to the nearest integer where required.

Section 5.3.6 requires that if the leaking component is an essential component or a critical component and which cannot be immediately shut down for repairs, the operator shall:

1) Minimize the leak within one hour after detection of leaks; and
2) If the leak has been minimized, but the leak still exceeds the applicable leak standards of this rule, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process.
unit turnaround, but in no case later than one year from the date of the original leak detection, whichever comes earlier.

Section 5.3.7 requires that for any component that has incurred five repair actions for major gas leaks or major liquid leaks, or combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall comply with at least one of the requirements specified in Sections 5.3.7.1, 5.3.7.2, 5.3.7.3, or 5.3.7.4 by the applicable deadlines specified in Sections 5.3.7.5 and 5.3.7.6. If the original leaking component is replaced with a new like-in-kind component before incurring five repair actions for major leaks within 12-consecutive months, the repair count shall start over for the new component. An entire compressor or pump need not be replaced provided the compressor part(s) or pump part(s) that have incurred five repair actions as described in Section 5.3.7 are brought into compliance with at least one of the requirements of Sections 5.3.7.1 through 5.3.7.6.

1) Replace or retrofit the component with the control technology specified in Table 4. Notify the APCO in writing prior to replacing or retrofitting the component; or
2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment, as determined in accordance with Rule 2201 (New and Modified Stationary Source Review Rule), and as approved by the APCO in writing; or
3) Vent the component to an APCO-approved closed-vent system as defined in Section 3.0; or
4) Remove the component from operation.
5) For any component that is accessible, is not unsafe-to-monitor, is not an essential component, is not a critical component, the operator shall comply with the requirement of Section 5.3.7.1, Section 5.3.7.2, Section 5.3.7.3, or Section 5.3.7.4 as soon as practicable but not later than twelve (12) months after the date of detection of the fifth major leak within a continuous 12-month period as indicated in Section 5.3.7.
6) For any inaccessible component, unsafe-to-monitor component, essential component, or critical component, the operator shall comply with the requirement of Section 5.3.7.1, Section 5.3.7.2, Section 5.3.7.3 or Section 5.3.7.4 as soon as practicable but not later than the next turnaround or not later than two (2) years after the date of detection of the fifth major leak within a continuous 12-month period as indicated in Section 5.3.7, whichever comes earlier.
<table>
<thead>
<tr>
<th>Component Type</th>
<th>Control/Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressors</td>
<td>Replace existing seal with dual mechanical seal, oil film seal, gas seal, or face-type seal</td>
</tr>
<tr>
<td>Pumps</td>
<td>Replace with seal-less pump or replace with dual mechanical seal</td>
</tr>
<tr>
<td>PRDs</td>
<td>Replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc</td>
</tr>
<tr>
<td>Valves</td>
<td>Replace with sealed bellows valve, or graphite or teflon chevron seal rings in a live-loaded packing gland</td>
</tr>
<tr>
<td>Threaded Connections</td>
<td>Weld connections or replace threaded connections with flanges</td>
</tr>
<tr>
<td>Sampling Connections</td>
<td>Replace with closed-loop sampling system</td>
</tr>
</tbody>
</table>

Section 5.4.1 requires that all major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the APCO that enables an operator or the APCO to locate each individual component. The operator shall replace tags or labels that become missing or unreadable as soon as practicable but not later than 24 hours after discovery.

Section 6.1.1 requires that by October 20, 2005, an operator whose existing components are either subject to this rule or whose existing components are exempt pursuant to Section 4.2 of this rule on or before April 20, 2005 shall submit an Operator Management Plan (OMP) for approval by the APCO.

Section 6.1.2 requires that the operator shall keep a copy of the APCO-approved Operator Management Plan at the facility and make it available to the APCO, ARB, and US EPA upon request.

Section 6.1.3 requires that the operator shall describe in the Operator Management Plan all components subject to this rule and all components that are exempt pursuant to Section 4.2 of this rule. The Plan shall contain a description of the procedures that the operator will use to comply with the requirements of this rule.

Section 6.1.4 requires that by January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to an existing Operator Management Plan.

Section 6.2.1 requires that the operator shall maintain an inspection log containing, at a minimum, all of the following information:
1) Total number of components inspected, and total number and percentage of leaking components found by component types.
2) Location, type, name or description of each leaking component and description of any unit where the leaking component is found.
3) Date of leak detection and method of leak detection.
4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak.
5) Date of repair, replacement, or removal from operation of leaking components.
6) Identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier.
7) Methods used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier.
8) After the component is repaired or is replaced, the date of re-inspection and the leak concentration in ppmv.
9) Inspector's name, business mailing address, and business telephone number.
10) The facility operator responsible for the inspection and repair program shall sign and date the inspection log certifying the accuracy of the information recorded in the log.

Section 6.2.2 requires that records of leaks detected during quarterly or annual operator inspection, and each subsequent repair and re-inspection, shall be submitted to the APCO, ARB, and US EPA upon request.

Section 6.2.3 requires that records of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components, including a copy of current calibration gas certification from the vendor of said calibration gas cylinder, the date of calibration, concentration of calibration gas, instrument reading of calibration gas before adjustment, instrument reading of calibration gas after adjustment, calibration gas expiration date, and calibration gas cylinder pressure at the time of calibration.

Section 6.2.4 requires that copies of all records required by Section 6.2 of this rule shall be retained for a minimum of five (5) years after the date of an entry, and the records shall be made available to the APCO, ARB, and US EPA upon request.

Equivalent test methods other than specified in Sections 6.3.1 through 6.3.8 may be used provided such test methods have received prior approval from the EPA, ARB, and APCO.
Section 6.3.1 requires that measurements of gaseous leak concentrations shall be conducted according to US EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in US EPA Method 21 or the manufacturer's instruction, as appropriate, not more than 30 days prior to its use. The operator shall record the calibration date of the instrument.

Section 6.3.2 requires that the VOC content by weight percent (wt.% ) shall be determined using American Society of Testing and Materials (ASTM) D1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids.

Section 6.3.3 requires that the percent by volume liquid evaporated at 150 °C shall be determined using ASTM Method D 86-82.

Section 6.3.4 requires that the TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D 323-94 (Test Method for Vapor Pressure for Petroleum Products), and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures in Appendix A, which is an excerpt from the oil and gas section of “California Air Resources Boards (ARB) Technical Guidance Document to the Criteria and Guidelines Regulation for AB 2588”, dated August 1989.


Section 6.3.6 requires that the control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by US EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case US EPA Method 25a may be used. US EPA Method 18 may be used in lieu of US EPA Method 25 or US EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported.
Section 6.3.7 requires that halogenated exempt compounds shall be analyzed by US EPA Method 18 or ARB Method 422 “Determination of Volatile Organic Compounds in Emissions from Stationary Sources”.

Conditions 37 through 91 of the requirements for the revised facility wide permit S-55-0-2 will assure compliance with the requirements of this rule.

G. District Rule 4601 – Architectural Coatings

This rule limits the emissions of VOC’s from architectural coatings. It requires limiting the application of any architectural coating to no more than what is listed in the Table of Standards (Section 5.0). This rule further specifies labeling requirements, coatings thinning recommendations, and storage requirements. Conditions 23, 24, and 25 of permit unit -0-2 ensures compliance.

The current rule differs significantly from the previously SIP approved 9/17/97 version.
The tables outlining the VOC content of different specialty coatings has been largely replaced with the Table of Standards in Section 5.0.

Conditions 23-26 of the requirements for this revised facility wide permit S-55-0-2 will assure compliance with the requirements of this rule.

H. District Rule 4702 – Internal Combustion Engines – Phase 2

Some of the engines for this facility have the same operating permits and can therefore be bundled together to show compliance with this section. The following bundles will be used through the remainder of this rule discussion:

Engine Bundle A

S-55-13-6 & -15-6

The purpose of this rule is to limit the emissions of nitrogen oxides (NOx), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines. Except as provided in Section 4.0, the provisions of this rule apply to any internal combustion engine, rated greater than 50 bhp, that requires a Permit to Operate (PTO).

All of the District Rule 4702 requirements on the existing permits have been removed and updated in accordance with the latest rule amendments and have been included as discussed below.
Pursuant to Section 4.2, except for the requirements of Sections 5.7 and 6.2.3, the requirements of this rule shall not apply to an internal combustion engine that meets the following condition:

- An emergency standby engine as defined in Section 3.0 of this rule, and provided that it is operated with a nonresettable elapsed operating time meter. In lieu of a nonresettable time meter, the owner of an emergency engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO. The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions.

The emergency standby IC engines involved with this project units S-55-10-3 and S-55-12-3 meet the definition of "Emergency Standby Engines" and will only have to meet the requirements of Sections 5.7 and 6.2.3 of this Rule. Compliance is demonstrated by conditions 8, 9, 10 & 12 of -10-3 and conditions 9, 10 & 12 of -12-3.

Section 5.1 requires that the owner of an internal combustion engine shall not operate it in such a manner that results in NO\textsubscript{x}, CO or VOC emissions exceeding the limits in the Engine Emission Limits table, or the percent reduction in emissions, for the appropriate engine type, according to the compliance schedule listed in Section 7.0.

Condition 8 of engine bundle A shows compliance with this section.

Section 5.2 requires that all continuous emission monitoring systems (CEMS) emissions measurements shall be averaged over a period of 15 consecutive minutes. Any 15-consecutive minute block average CEMS measurement exceeding the applicable emission limits of this rule shall constitute a violation of this rule. The internal combustion engines at this facility do not have a CEMS installed; therefore this section of the rule is not applicable.

Section 5.3 requires that if the percent emission reduction method is used to comply with the NO\textsubscript{x} emissions limits specified in Section 5.1, the percent emission reductions should be calculated as follows:

- For engines with external control devices that are not operated in combination with a second emission control device or technique, percent reduction shall be calculated using emission samples taken at the inlet and outlet of the control device.

- For engines without external control devices and for engines with an external device in combination with a second emission control device or technique, percent reduction shall be based on source test results.
for the uncontrolled engine and the engine after the control device or technique has been employed. In this situation, the engine's typical operating parameters, loading, and duty cycle shall be documented and repeated at each successive source test to ensure that the engine is meeting the percent reduction limit. When representative source sampling prior to the application of an emissions control technology or technique is not available, the APCO may approve the use of a manufacturer's uncontrolled emissions information or source sampling from a similar, uncontrolled engine.

The emission limits on engine bundle A already account for the percent reduction compared to an uncontrolled engine. Therefore, by demonstrating compliance with the emission limit on the permit, Chevron will also be demonstrating compliance with the percent reduction required by the rule. Therefore, conditions to ensure continued compliance are not required no further discussion is required.

Section 5.4 requires an owner of an internal combustion engine that uses percent emission reduction to comply with the NOx emission limits of Section 5.1 shall provide an accessible inlet and outlet on the external control device or the engine as appropriate for taking emission samples as approved by the APCO. As discussed above, Chevron is not required to demonstrate compliance with a percent reduction limit by taking sample before and after an external control device. Therefore, the requirements of this section are not applicable and no further discussion is required.

Section 5.5 requires that that all gasoline-fired, spark-ignited internal combustion engines shall be fired on California Reformulated Gasoline. The engines associated with this project are all natural gas fired internal combustion engines. Therefore, the requirements of this section are not applicable and no further discussion is required.

Section 5.6 specifies the monitoring requirements for spark-ignited internal combustion engines not operated as a part of an agricultural facility. The majority of the engines operated by this facility are spark-ignited internal combustion engines. This facility does not perform any agricultural operation(s) at this location. Therefore, the requirements of this section apply to the engines operated at this facility.

Section 5.6.1 required that, for each engine with a rated brake horsepower of 1,000 hp or greater and which is permitted to operate more than 2,000 hours per calendar year, or with an external emission control device, shall either install, operate, and maintain continuous monitoring equipment for NOx, CO, and oxygen, as identified in Rule 1080 (Stack Monitoring), or install, operate, and maintain APCO-approved alternate monitoring. The monitoring system may be a continuous emissions monitoring system (CEMS), a parametric
emissions monitoring system (PEMS), or an alternative monitoring system approved by the APCO. APCO-approved alternate monitoring shall consist of one or more of the following:

- Periodic NO\textsubscript{x} and CO emission concentrations,
- Engine exhaust oxygen concentration,
- Air-to-fuel ratio,
- Flow rate of reducing agents added to engine exhaust,
- Catalyst inlet and exhaust temperature,
- Catalyst inlet and exhaust oxygen concentration,
- Other operational characteristics.

Conditions 15-18 of engine bundle A show compliance with this section.

Section 5.6.2 states that for each engine not subject to Section 5.6.1, monitor operations characteristics recommended by the engine manufacturer or emission control system supplier, and approved by the APCO. This facility is proposing to operate all of their internal combustion engines in compliance with the requirements of Section 5.6.1. Therefore, the requirements of this section do not apply and no further discussion is required.

Section 5.6.3 requires that for each engine with an alternative monitoring system, submit to, and receive approval form the APCO, adequate verification of the alternative monitoring system's acceptability. The applicant has already submitted and been approved to perform periodic monitoring of the NO\textsubscript{x}, CO and O\textsubscript{2} concentrations at least once per month from each internal combustion engine. Therefore, the applicant has already complied with the requirements of this section and no further discussion is required.

Sections 5.6.4 and 5.6.5 discuss the requirements for engines operating with APCO approved CEMS. The applicant does not use CEMS on any of their engines. Therefore, the requirements of these sections are not applicable and no further discussion is required.

Section 5.6.6 requires that for each engine, install and operate a nonresettable elapsed operating time meter. In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and is allowed by Permit-to-Operate. The owner of the engine shall properly maintain and operate the meter or alternative device in accordance with the manufacturer's instructions.

Condition 5 of engine bundle A shows compliance with this section:

Section 5.6.7 requires that for each engine, the permittee shall implement the Inspection and Monitoring (I&M) plan submitted to and approved by the
APCO pursuant to Section 6.5. The applicant has already submitted an I&M plan to the District and has been approved. Therefore, the applicant has satisfied the requirements of this section and no further discussion is required.

Section 5.6.8 requires that for each engine, collect data through the I&M plan in a form approved by the APCO. The applicant has submitted an I&M program and the implementation of this plan will be explained in detail in the section that covers Section 6.5 of this Rule.

Section 5.6.9 requires that each engine, use a portable NO\textsubscript{x} analyzer to take NO\textsubscript{x} emission readings to verify compliance with the emission requirements of Section 5.1 or Section 8.0 during each calendar quarter in which a source test is not performed. All emission readings shall be taken with the engine operating either at conditions representative of normal operations or conditions specified in the Permit-to-Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. All NO\textsubscript{x} emissions readings shall be reported to the APCO in a manner approved by the APCO. NO\textsubscript{x} emission readings taken pursuant to this section shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive minute sample reading or by taking at least five (5) readings evenly spaced out over the 15 consecutive-minute period.

Periodically monitoring the NO\textsubscript{x} emission concentrations to comply with Section 5.6.1 also satisfies the requirements of this section. Therefore, the conditions specified in Section 5.6.1 above will ensure continued compliance with the requirements of this section and no further discussion is required.

Section 5.6.10 states that the APCO shall not approve an alternative monitoring system unless it is documented that continued operation within ranges of specified emissions-related performance indicators or operational characteristics provides a reasonable assurance of compliance with applicable emission limits. The operator shall source test over the proposed range of surrogate parameters to demonstrate compliance with the applicable emission standards.

Chevron is not proposing an alternative monitoring system for any of its internal combustion engines. Therefore, the requirements of Section 5.6.10 are not applicable and no further discussion is required.

Section 5.6.11 specifies that each engine subject to the requirements of Section 8.0, install and operate a nonresettable fuel meter. The engines operated by this facility are not subject to the requirements of Section 8.0. Therefore, the requirements of this section are not applicable and no further discussion is required.
Section 5.7 specifies the monitoring requirements for spark-ignited internal combustion engines operated at agricultural facilities, compression-ignited internal combustion engines, and emergency internal combustion engines. None of the engines at this facility meet these categories therefore they are not subject to this subpart.

Section 5.8 specifies the requirements for obtaining stationary equipment registration for engines used in agricultural operations. The engines operated at this facility are all currently required to maintain Permits to Operate. Therefore, the requirements of this section are not applicable and no further discussion is required.

Sections 6.1.1 and 6.1.2 require that the owner of an engine subject to the requirements of this rule shall submit to the APCO an emission control plan of all actions to be taken to satisfy the emission requirements of Section 5.1 and the compliance schedules of Section 7.0. Such emission control plan shall contain a list with the following for each permitted engine:

- Permit-to-Operate number
- Engine manufacturer
- Model designation
- Rated brake horsepower
- Type of fuel and type of ignition
- Combustion type: rich-burn or lean-burn
- Total hours of operation in the previous one-year period, including typical daily operating schedule
- Fuel consumption (cubic feet for gas or gallons for liquid) for the previous one-year period
- Stack modifications to facilitate continuous in-stack monitoring and to facilitate source testing
- Type of control to be applied, including in-stack monitoring specifications
- Applicable emission limits
- Documentation showing existing emissions of NO\textsubscript{x}, VOC, and CO, and
- Date that the engine will be in full compliance with Rule 4702.

Section 6.1.3 requires that the emission control plan shall identify the type of emission control device or technique to be applied to each engine and a construction/removal schedule, or shall provide support documentation sufficient to demonstrate that the engine is in compliance with the emission requirements of this rule.

The applicant has already submitted all the required information to comply with Sections 6.1.1, 6.1.2 and 6.1.3 of this rule. Therefore, the requirements
of this section have already been satisfied and no further discussion is required.

Section 6.2.1 requires that except for engines subject to Section 4.0, the owner of an engine subject to the requirements of this rule shall maintain an engine operating log to demonstrate compliance with this rule. This information shall be retained for a period of at least five years, shall be readily available, and be made available to the APCO upon request. The engine operating log shall include, on a monthly basis, the following information:

- Total hours of operation,
- Type of fuel used,
- Maintenance or modifications performed,
- Monitoring data,
- Compliance source test results, and
- Any other information necessary to demonstrate compliance with this rule.

Section 6.2.2 also requires that data collected in accordance with Sections 5.6 and 5.7 shall be maintained for at least five years, shall be readily available, and made available to the ACPO upon request.

Conditions 32 and 33 of engine bundle A show compliance with this section.

Section 6.3.2 requires that the owner of an engine subject to the emission limits in Section 5.1 or the requirements of Section 8.2, shall demonstrate compliance with applicable limits, ppmv or percent reduction, by the applicable date specified in Section 7.6 and at least once every 24 months thereafter, in accordance with the test methods in Section 6.4.

Section 6.3.3 states that emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit-to-Operate. For emissions source testing performed pursuant to Section 6.3.1 for the purpose of determining compliance with an applicable standard or numerical limitation, the arithmetic average of three (3) 30-consecutive-minute test runs shall apply. If two (2) of three (3) runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC shall be reported as methane. NOx, CO, and VOC concentrations shall be reported in ppmv, corrected to 15 percent oxygen. For engines that comply with a percent reduction limit in Table 1, the percent reduction of NOx emissions shall also be reported.

Condition 9 of engine bundle A shows compliance with this section.
Section 6.3.4 states that in addition to other information, the source test protocol shall describe which critical parameters will be measured and how the appropriate range for these parameters shall be established. The range for these parameters shall be incorporated into the I&M plan. OEHI is required to submit a source test protocol prior to each source test which describes the critical parameters and how they will be measured in accordance with District Rule 1081. In addition, OEHI is also required to notify the District upon any change in their I&M plan. Therefore, as long as Aera is in continued compliance with the requirements of the District Rule 1081 and the I&M requirements of Rule 4702, they will be in compliance with the requirements of this section and no further discussion is required.

Section 6.3.5 states that engines that are limited by Permit-to-Operate or Stationary Equipment Registration condition to be fueled exclusively with PUC quality natural gas shall not be subject to the biennial source test requirements of Section 6.3.2 for VOC emissions. All of the engines operated at this facility are required to fire on PUC quality natural gas. The applicant has proposed to source test each of the engines at this facility at least once every 24 months for VOC emissions. Therefore, the biennial source testing requirement of Section 6.3.2 for VOC emissions will be included on each of the permits. See the Section 6.3.2 discussion above for the conditions that will be included on the permits to ensure compliance with this requirement.

Section 6.4 specifies the source test methods that should be used to demonstrate compliance with the requirements of Section 5.0. The following test procedures or any other method approved by EPA and the APCO shall be used:

- Oxides of nitrogen – EPA Method 7E, or ARB Method 100.
- Carbon monoxide – EPA Method 10, or ARB Method 100.
- Stack gas oxygen – EPA Method 3 or 3A, or ARB Method 100.
- Volatile organic compounds – EPA Method 25A or 25B, or ARB Method 100.
- Operating horsepower determination – any method approved by the APCO and EPA.

Condition 22 of engine bundle A shows compliance with this section:

Section 6.5 specifies that the owner of an engine subject to the requirements of Section 5.1 or the requirements of Section 8.0 shall submit to the APCO for approval, an Inspection and Maintenance (I&M) Plan to the APCO for approval. Aera has previously submitted their I&M Plan to the District for approval along with their Rule 4702 ATC application package. Therefore, the requirements of this section have been satisfied.
Conditions 19 and 20 of engine bundle A show compliance with this section.

Section 7.0 specifies the compliance schedules for different engine types that are subject to the requirements of this rule. In accordance with Section 7.6, Aera is required to be operating the engines in full compliance with this rule as follows:

<table>
<thead>
<tr>
<th>Quantity of Spark-Ignited Engines to be in Compliance at a Stationary Source</th>
<th>Compliance Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. 25% or more of the total number of spark-ignited engines at a stationary source on June 1, 2005</td>
<td>6/1/05</td>
</tr>
<tr>
<td>b. 62.5% or more of the total number of spark-ignited engines at a stationary source on June 1, 2006</td>
<td>6/1/06</td>
</tr>
<tr>
<td>c. 100% of the total number of spark-ignited engines at a stationary source on June 1, 2007</td>
<td>6/1/07</td>
</tr>
</tbody>
</table>

Condition 34 of engine bundle A show compliance with this section.

I. **District Rule 8011 – General Requirements**

The purpose of Regulation VIII (Fugitive PM$_{10}$ Prohibitions) is to reduce ambient concentrations of fine particulate matter (PM$_{10}$) by requiring actions to prevent, reduce or mitigate anthropogenic fugitive dust emissions. The Rules contained in this Regulation have been developed pursuant to United States Environmental Protection Agency guidance for Serious PM$_{10}$ Nonattainment Areas. These rules are applicable to specified anthropogenic fugitive dust sources. Fugitive dust contains PM$_{10}$ and particles larger than PM$_{10}$. Controlling fugitive dust missions when visible emissions are detected will not prevent all PM$_{10}$ emissions, but will substantially reduce PM$_{10}$ emissions.

The provisions of this rule are applicable to specified outdoor fugitive dust sources. The definitions, exemptions, requirements, administrative requirements, recordkeeping requirements, and test methods set forth in this rule are applicable to all Rules under Regulation VIII (Fugitive PM$_{10}$ Prohibitions) of the Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District.

Conditions 93 through 98 of the facility-wide requirements S-55-0-2 will ensure compliance with these requirements.

J. **District Rule 8021 – Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities**

The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities.
This rule applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on site, and travel on access roads to and from the site. This rule also applies to the construction of new landfill disposal sites or modification to existing landfill disposal sites prior to commencement of landfitting activities.

Section 5.0 requires that no person shall perform any construction, demolition, excavation, extraction, or other earthmoving activities unless the appropriate requirements in sections 5.1 and 5.2 are sufficiently implemented to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

Condition 93 of the facility-wide requirements S-55-0-2 will ensure compliance with these requirements.

K. **District Rule 8031 – Bulk Materials**

The purpose of this rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials.

This rule applies to the outdoor handling, storage, and transport of any bulk material.

Section 5.0 requires that no person shall perform any outdoor handling, storage, and transport of bulk materials unless the appropriate requirements in Table 8031-1 of this rule are sufficiently implemented to limit VDE to 20% opacity or to comply with the conditions for a stabilized surface as defined in Rule 8011. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

Condition 94 of the facility-wide requirements S-55-0-2 will ensure compliance with these requirements.

L. **District Rule 8041 – Carryout and Trackout**

The purpose of this rule is to limit fugitive dust emissions from carryout and trackout.

This rule applies to all sites that are subject to Rules 8021 (Construction, Demolition, Excavation, Extraction, and other Earthmoving Activities), 8031 (Bulk Materials), and 8071 (Unpaved Vehicle and Equipment Traffic Areas) where carryout or trackout has occurred or may occur.

Section 5.0 requires that an owner/operator shall sufficiently prevent or cleanup carryout and trackout as specified in sections 5.1 through 5.8. In
addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII. The use of blower devices, or dry rotary brushes or brooms, for removal of carryout and trackout on public roads is expressly prohibited. The removal of carryout and trackout from paved public roads does not exempt an owner/operator from obtaining state or local agency permits which may be required for the cleanup of mud and dirt on paved public roads.

Condition 95 of the facility-wide requirements S-55-0-2 will ensure compliance with these requirements.

M. District Rule 8051 – Open Areas

The purpose of this rule is to limit fugitive dust emissions from open areas.

This rule applies to any open area having 3.0 acres or more of disturbed surface area, that has remained undeveloped, unoccupied, unused, or vacant for more than seven days.

Section 5.0 requires that whenever open areas are disturbed or vehicles are used in open areas, the owner/operator shall implement one or a combination of control measures indicated in Table 8051-1 to comply with the conditions of a stabilized surface at all times and to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

Condition 96 of the facility-wide requirements S-55-0-2 will ensure compliance with these requirements.

N. District Rule 8061 – Paved and Unpaved Roads

The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria.

This rule applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.

Condition 97 of the facility-wide requirements S-55-0-2 will ensure compliance with these requirements.

O. District Rule 8071 – Unpaved Vehicle/Equipment Traffic Area

The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas by implementing control measures and design criteria.
This rule applies to any unpaved vehicle/equipment traffic area of 1.0 acre or larger.

Condition 98 of the facility-wide requirements S-55-0-2 will ensure compliance with these requirements.

P. Subpart A – General Provisions

This section contains requirements for control devices used to comply with applicable subparts of 40 CFR parts 60 and 61. The requirements are placed here for administrative convenience and apply only to facilities covered by subparts referring to this section. Section 60.18 of this Subpart was amended December 22, 2008. The Section was amended to revise the section heading, revise paragraph (a), and by adding paragraphs (g), (h), and (i).

The flare unit, S-55-11-5 are subject to this Section. The revision to section and the revision to paragraph (a) will not affect the units in this project. In addition, flares are not subject to the requirements in paragraphs (g), (h), and (i). Therefore, the units in this project were not affected by the revisions to this Subpart.

Q. Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

§6585(b) states, "A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site."

§6585(c) states, "An area source of HAP emissions is a source that is not a major source."

The facility is not a major source as defined in §6585(b). Therefore, this facility is an area source of HAP emissions.
§6590(a) states, “An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.”

§6590(a)(1) defines the criteria for an existing stationary RICE as follows:

(i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.

(ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

This facility is an area source of HAP emissions. The engines at this facility have not commenced construction or reconstruction on or after June 12, 2006. Therefore, the engines at this facility meet the definition of an existing stationary RICE as defined in §6590(a)(1)(iii).

§6590(b)(3) states that the following engines do not have to meet the requirements of this subpart and of subpart A of this part:

- stationary RICE which is an existing spark ignition 4 stroke rich burn (4SRB) stationary RICE located at an area source,
- existing spark ignition 4SRB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source, an existing spark ignition 2 stroke lean burn (2SLB) stationary RICE,
- existing spark ignition 4 stroke lean burn (4SLB) stationary RICE,
- existing compression ignition (CI) stationary RICE,
- existing emergency stationary RICE,
- existing limited use stationary RICE, or
- existing stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis

The engines at this facility are existing spark ignition 4 stroke lean burn stationary engines or existing emergency stationary RICE. Therefore, the
engines do not have to meet the requirements of this subpart and of subpart A of this part. No further discussion is required.

R. 40 CFR Part 64, Compliance Assurance Monitoring (CAM)

To be subject to CAM for a particular pollutant, an emissions unit must meet all of the following criteria:

1) The unit must have an emission limit for the pollutant;

2) The unit must have add-on controls for the pollutant—Catalytic oxidizers, baghouses, and flue gas recirculation are examples of add-on controls. Integral controls such as staged combustion or the use of low sulfur fuel would not be considered add-on controls; and

3) The pre-control potential to emit for the unit must exceed major source thresholds.

a. 266 HP Gas Dehydration Facility (S-55-1-6)
   - This unit does not have an emissions limit for VOC (the only pollutant which would be emitted). Therefore, CAM is not required.

b. 8,000 HP Electric Gas Compression Operation (S-55-9-5)
   - This unit is not subject to CAM, since the only emissions limit on the permit is for fugitive VOC emissions, which are uncontrolled. Therefore, CAM is not required.

c. 440 HP Caterpillar Model 3406B Diesel-Fired Emergency IC Engine (S-55-10-3)
   - This unit does not include any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, CAM is not required.

d. 96 MMCFD Kaldair Flare (S-55-11-5)
   - This unit does not include any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, CAM is not required.

e. 182 HP Cummins Model 6-BTA5 Diesel-Fired Emergency IC Engine (S-55-12-3)
• This unit does not include any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, CAM is not required.

f. Gas Compression Operation including one 1680 HP Waukesha Model 7044GSI Natural Gas-Fired IC Engine (S-55-13-6)

• The pre-control potential to emit for this unit exceeds the major source threshold NO\textsubscript{X} (See calculations below). Therefore, CAM is required.

g. Gas Compression Operation including one 1680 HP Waukesha Model 7044GSI Natural Gas-Fired IC Engine (S-55-14-6)

• The pre-control potential to emit for this unit exceeds the major source threshold NO\textsubscript{X} (See calculations below). Therefore, CAM is required.

Uncontrolled Emission Calculations For -13-6 & -14-6

Engine rating = 1680 HP
Operating Schedule = 8760 hour/\text{year}
NO\textsubscript{X} Emission Factor = 2.27 lb/MMBtu (AP 42 Table 3.2-3)
1 \text{hp-hr} = 2542.5 \text{Btu} (AP 42 Appendix A-14)

Yearly NO\textsubscript{X} Emissions =
2.27 lb/(10^6 \text{Btu}) \times 2542.5 \text{Btu/}(\text{hp-hr}) \times 1680 \text{hp} \times 8760 \text{ hr} =
84,938 \text{ lb-NO}\textsubscript{X}/\text{year} = 42.5 \text{ ton-NO}\textsubscript{X}/\text{year}

CAM Requirements

40 CFR part 64.3 requires that the operator monitor one or more parameters that indicate the performance of the control device. For these IC engines the oxygen concentration of the exhaust gas will be monitored to ensure the emission control system is functioning properly.

40 CFR part 64.3 also requires that variability be considered in establishing data collection frequency. For most units, at least some data must be collected once every 24 hours. For units with potential to emit in excess of major source thresholds after the control device, data must generally be collected every 15 minutes. Since the these engines do not have a potential to emit after the control device in excess of the major source threshold, monitoring of the exhaust gas
oxygen concentration will be required on a daily basis during operation.

- Conditions 26-31 of the requirements for permit -13-6 assure compliance with this rule
- Conditions 26-31 of the requirements for permit -14-6 assure compliance with this rule

IX. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

The applicant is not requesting to use any model general permit templates for this Title V renewal project.

B. Requirements not Addressed by Model General Permit Templates

Chevron is not requesting any new permit shields within this Title V renewal project. In addition, Chevron is not requesting any changes to the existing permit shields already included in their Title V operating permit. Therefore, all of the existing permit shields will be maintained on the revised permit for this renewal project.

X. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

XI. ATTACHMENTS

A. Draft Renewed Title V Operating Permit
B. Existing Title V Operating Permit
C. Detailed Facility List
D. Current District Rule SIP Comparisons
ATTACHMENT A

Draft Renewed Title V Operating Permit
SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT

FACILITY: S-55-0-2

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit

2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit

3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit

4. Any person, building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020. [District Rules 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit

5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit

6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit

7. Every application for a permit required under Rule 2010 (12/17/92) (Permits Required) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit

8. The operator shall maintain records of required monitoring, where applicable, that include: 1) the date, place and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: CHEVRON USA INC. LOS HILLS GP
Location: LOS HILLS GAS PLANT; LOS HILLS, CA
FACILITY WIDE REQUIREMENTS 08/31/2009
10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit

11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520(6/15/95) [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit

12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit

13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit

14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit

15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit

16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit

17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit

18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit

19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit

20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit

21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (12/17/92), by using EPA method 9. If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.
23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (Amended 12/17/09) for use or sale within the District, unless exempted under section 4.0 of District Rule 4601. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit

24. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any specialty architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (Amended 12/17/09) for use or sale within the District, unless exempted under section 4.0 of District Rule 4601. [District Rule 4601, 5.2] Federally Enforceable Through Title V Permit

25. All VOC-containing materials for architectural coatings subject to Rule 4601 (Amended 12/17/09) shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained or repaired, unless exempted under section 4.0 of District Rule 4601. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit

26. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 (Amended 12/17/09) sections 6.1 and 6.3, unless exempted under section 4.0 of District Rule 4601. [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit

27. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1and 9.0] Federally Enforceable Through Title V Permit

28. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit

29. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit

30. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

31. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit

32. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 4.2] Federally Enforceable Through Title V Permit

33. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permit shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit

34. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 12.2] Federally Enforceable Through Title V Permit
35. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 12.2] Federally Enforceable Through Title V Permit

36. {118} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

37. {3321} The permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit

38. {3322} For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit

39. {3323} For pressure relief devices (PRDs); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit

40. {3324} For polished rod stuffing boxes (PRSBS); a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409, 5.1.1] Federally Enforceable Through Title V Permit

41. {3325} Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409, 5.1.2] Federally Enforceable Through Title V Permit

42. {3326} Minor gas leaks from PRSBS detected during any District inspection shall not be counted toward determination of compliance with this rule provided the permittee repairs, replaces, or removes leaking PRSBS from VOC service as soon as practicable but not later than seven calendar days. [District Rule 4409, 5.1.3.1.2] Federally Enforceable Through Title V Permit

43. {3327} Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409, 5.1.3.2.1 and 5.1.3.2.2] Federally Enforceable Through Title V Permit

44. {3328} Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409, 5.1.3.2.3] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.
45. {3329} An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409, 5.1.4.1] Federally Enforceable Through Title V Permit

46. {3330} A leak from a component is when there is a major liquid leak from the component. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. [District Rule 4409, 5.1.4.2] Federally Enforceable Through Title V Permit

47. {3331} A leak from a component is when gas emissions greater than 50,000 ppmv, as methane, leaks from the component. [District Rule 4409, 5.1.4.3] Federally Enforceable Through Title V Permit

48. {3332} A minor liquid leak from a component is when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit

49. {3333} When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit

50. {3334} When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit

51. {3335} When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit

52. {3336} When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit

53. {3337} When compressors, PRDs, or other components not specified in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak greater than 10,000 ppmv and less than or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit

54. {3338} When 200 or fewer PRSBs are inspected, a leak is when more than four have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 PRSBs are inspected, a leak is when more than 2.0 % (rounded up to the nearest whole number) of the PRSBs have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit
55. {3339} When 200 or fewer wells at light crude oil or gas production facilities are inspected, a leak from a pipe is when more than two or more pipes have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 wells at light crude oil or gas production facilities are inspected, a leak from a pipe is when more than 1.0% (rounded up to the nearest whole number) of the pipes have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit

56. {3340} When pipes at natural gas processing facilities are inspected, a leak from a pipe is when more than two have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409, 5.1.4.4] Federally Enforceable Through Title V Permit

57. {3341} For manned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio- visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409, 5.2.1] Federally Enforceable Through Title V Permit

58. {3342} For unmanned facilities all accessible operating pumps, compressors, and PRDs, in service, shall be audio- visually inspected for leaks at least once per calendar week. [District Rule 4409, 5.2.2] Federally Enforceable Through Title V Permit

59. {3343} All accessible operating pumps, compressors, and PRDs, in service, that are found to be leaking by audio- visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409, 5.2.3] Federally Enforceable Through Title V Permit

60. {3344} Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409, 5.2.4] Federally Enforceable Through Title V Permit

61. {3345} All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409, 5.2.5] Federally Enforceable Through Title V Permit

62. {3346} All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409, 5.2.6] Federally Enforceable Through Title V Permit

63. {3347} All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409, 5.2.7] Federally Enforceable Through Title V Permit

64. {3348} All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409, 5.2.8] Federally Enforceable Through Title V Permit

65. {3349} All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409, 5.2.8.1] Federally Enforceable Through Title V Permit

66. {3350} The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non-Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409, 5.2.8.2] Federally Enforceable Through Title V Permit
67. {3351} Except for pumps, compressors, and PRDs, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409, 5.2.9 and 5.2.10] Federally Enforceable Through Title V Permit

68. {3352} The permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409, 5.2.11] Federally Enforceable Through Title V Permit

69. {3353} A PRD that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the PRD for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the PRD is found to be leaking during either inspection, the PRD leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409, 5.2.12] Federally Enforceable Through Title V Permit

70. {3354} Except for PRDs, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409, 5.2.13] Federally Enforceable Through Title V Permit

71. {3355} District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409, 5.2.14] Federally Enforceable Through Title V Permit

72. {3356} The operator, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409, 5.3.1] Federally Enforceable Through Title V Permit

73. {3357} The operator shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409, 5.3.4 and 5.3.5] Federally Enforceable Through Title V Permit

74. {3358} The operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409, 5.3.4 and 5.3.5] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.
75. (3359) For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05% of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409, 5.3.5] Federally Enforceable Through Title V Permit

76. (3360) If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409, 5.3.6] Federally Enforceable Through Title V Permit

77. (3361) For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409, 5.3.7] Federally Enforceable Through Title V Permit

78. (3362) All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409, 5.4.1] Federally Enforceable Through Title V Permit

79. (3363) The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409, 6.1.2] Federally Enforceable Through Title V Permit

80. (3364) By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409, 6.1.4] Federally Enforceable Through Title V Permit
81. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409, 6.2.1] Federally Enforceable Through Title V Permit

82. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4409, 6.2.2] Federally Enforceable Through Title V Permit

83. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409, 6.2.3] Federally Enforceable Through Title V Permit

84. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rule 4409, 6.2.4] Federally Enforceable Through Title V Permit

85. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409, 6.3.1] Federally Enforceable Through Title V Permit

86. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409, 6.3.2] Federally Enforceable Through Title V Permit

87. The percent by volume liquid evaporated at 302 °F (150 °C) shall be determined using ASTM D-86. [District Rule 4409, 6.3.3] Federally Enforceable Through Title V Permit

88. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409, 6.3.4] Federally Enforceable Through Title V Permit

89. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409, 6.3.5] Federally Enforceable Through Title V Permit

90. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409, 6.3.6] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.
91. {3375} Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409, 6.3.7] Federally Enforceable Through Title V Permit

92. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit

93. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit

94. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit

95. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit

96. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit

97. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/04) or Rule 8011 (8/19/04). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

98. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/04) or Rule 8011 (8/19/04). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit

99. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin August 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

100. Facilities S-55, S-57, and S-2199 are the same stationary source for SJVAPCD permitting purposes. [District NSR Rule] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-55-1-6
SECTION: 03  TOWNSHIP: 27S  RANGE: 21E
EXPIRATION DATE: 09/30/2009

EQUIPMENT DESCRIPTION:
266 HP GAS DEHYDRATION FACILITY INCLUDING ONE 2,500 GALLON GLYCOL STORAGE TANK (T-600), VAPOR RECOVERY SYSTEM SERVING V-607, AND MISC FILTERS, CONTACTOR COLUMNS, SEPARATORS, HEAT EXCHANGERS, AND PUMPS

PERMIT UNIT REQUIREMENTS

1. The glycol dehydration system shall not be operated unless all vapors are directed to the vapor recovery system. [District Rule 4408, 5.1.1] Federally Enforceable Through Title V Permit

2. All vessels containing volatile organic compounds shall be vapor-tight and pressure relief devices shall vent to vapor recovery system. [District Rule NSR Rule] Federally Enforceable Through Title V Permit

3. The condensed hydrocarbon liquid stream from the glycol dehydration vent shall be stored and handled in a manner that will not cause or allow evaporation of VOC to the atmosphere. [District Rule 4408, 5.2] Federally Enforceable Through Title V Permit

4. A leak is defined as the dripping at a rate of more than three (3) drops per minute of liquid containing VOCs or a reading as methane in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter from the potential source in accordance with EPA Method 21. [District Rules 4403, 3.3.1 and 4408, 3.8.1] Federally Enforceable Through Title V Permit

5. All control systems shall be maintained in a leak-free condition as determined by EPA Method 21. [District Rule 4408, 5.3] Federally Enforceable Through Title V Permit

6. The operator shall maintain monthly records of the amount of gas dehydrated (MMSCF). [District Rule 4408, 6.1.1] Federally Enforceable Through Title V Permit

7. The operator of any glycol dehydration system shall maintain the following records: facility name and APCD permit number; description of any installed VOC control system; flow diagram of dehydrator and any VOC controls; and maintenance records of the VOC control system. [District Rule 4408, 6.1.2] Federally Enforceable Through Title V Permit

8. Copies of the inspection log shall be retained by the operator for a minimum of five years after the date of an entry and shall be made available upon request to District personnel. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

9. All records shall be retained for a period of at least five years and be made available to the District upon request. [District Rules 2520, 9.4.2 and 4408, 6.1.4] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: CHEVRON USA INC. LOST HILLS GP
Location: LOST HILLS GAS PLANT, LOST HILLS, CA
S-55-1-6  JUN 26 2010  7:38 AM -- MARLOWST
PERMIT UNIT: S-55-9-5

SECTION: SW03   TOWNSHIP: 27S   RANGE: 21E

EQUIPMENT DESCRIPTION:
8,000 HP ELECTRIC GAS COMPRESSION OPERATION INCLUDING SIX COOPER SUPERIOR COMPRESSORS
DRIVEN BY FOUR 2,000 HP ELECTRIC MOTORS, KNOCKOUT VESSELS, HEAT EXCHANGERS, PUMPS, AND
FILTERS

PERMIT UNIT REQUIREMENTS

1. Gas stream benzene content in equipment and components shall not exceed 0.07% by weight. [District NSR Rule]
   Federally Enforceable Through Title V Permit

2. Compressors shall be reciprocating type only. [District NSR Rule] Federally Enforceable Through Title V Permit

3. Open-ended valves shall be equipped with a blind cap flange, plug, second valve or other equivalent control measure.
   [District NSR Rule] Federally Enforceable Through Title V Permit

4. VOC emission rate from all compression operations shall not exceed 0.66 lb/hr from fugitive sources. [District NSR
   Rule] Federally Enforceable Through Title V Permit

5. Copies of the inspection log shall be retained by the operator for a minimum of five years after the date of an entry and
   shall be made available upon request to District personnel. [District Rule 2520, 9.4.2] Federally Enforceable Through
   Title V Permit

6. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon
   request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

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

1. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit

2. The engine shall be equipped with a turbocharger and an aftercooler. [District NSR Rule] Federally Enforceable Through Title V Permit

3. {2413} 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, 5.1] Federally Enforceable Through Title V Permit

4. {2414} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

5. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.7.4 and 17 CCR 93115] Federally Enforceable Through Title V Permit

6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 5.7.2] Federally Enforceable Through Title V Permit

7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit

8. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 4.2.1 and 17 CCR 93115] Federally Enforceable Through Title V Permit

9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702, 5.7.3] Federally Enforceable Through Title V Permit

10. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 5.7 and 2520, 9.4.2 and 17 CCR 93115] 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.
11. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

12. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-55-11-5
SECTION: 03 TOWNSHIP: 27S RANGE: 21E
EXPIRATION DATE: 06/30/2009
EQUIPMENT DESCRIPTION:
96 MMCFD KALDAIR FLARE INCLUDING 25 HP BLOWER, LIQUID KNOCKOUT TANK WITH PUMP, THREE ELECTRONIC GAS PILOTS, THREE KEP IGNITORS AND AN 85 FT STACK WITH WATER SEAL DRUM

PERMIT UNIT REQUIREMENTS

1. Gas line to flare shall be equipped with volumetric flow rate indicator. [District NSR Rule] Federally Enforceable Through Title V Permit

2. Flare shall operate with no emissions in excess of 5% opacity. [District NSR Rule and District Rule 4101, 5.1] Federally Enforceable Through Title V Permit

3. Natural gas shall be used as pilot fuel. [District NSR Rule] Federally Enforceable Through Title V Permit

4. Operation of the flare, for other than flare maintenance and testing purposes, breakdown (pursuant to Rule 1100), and emergency use, shall be limited to 1.4 MM cu. ft. of gas flared per day and 40 MM cu. ft. of gas flared per year. [District NSR Rule] Federally Enforceable Through Title V Permit

5. Emergency use shall be limited to transfer line shut-ins, non-voluntary power outages, and other unforeseeable occurrences requiring immediate flaring as approved by the APCO. [District NSR Rule] Federally Enforceable Through Title V Permit

6. Operation of the flare for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit

7. Emissions from the pilot and purge gas shall not exceed any of the following limits: 0.0 lb PM10/day, 0.0 lb SOx/day, 0.9 lb NOx/day, 10.5 lb VOC/day, or 0.0 lb CO/day. [District NSR Rule] Federally Enforceable Through Title V Permit

8. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22 for a period of 15 minutes. If visible emissions are observed at any time during this period, then corrective action shall be taken to eliminate visible emissions and visible emissions shall be rechecked. If visible emissions cannot be corrected within 24 hours, a visible emissions test shall be conducted by a trained observer using EPA method 9 within 72 hours. A record of the results of these observations shall be maintained. Such records shall include the observer's name and affiliation, the date, time, sky condition, and the observer's location relative to the source. [District Rule 2520, 9.3.2 & 9.4.1] Federally Enforceable Through Title V Permit

9. If during the year the flare is operated exclusively for emergency purposes, visible emissions monitoring may be delayed until the occurrence of a scheduled operation event. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

10. A flame shall be present at all time when combustible gases are vented through the flare. [District Rule 4311, 5.2] Federally Enforceable Through Title V Permit

11. The outlet shall be equipped with an automatic ignition system, or, shall be operated with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 5.3] Federally Enforceable Through Title V Permit

These terms and conditions are not of the Facility-wide Permit to Operate.
12. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 5.4] Federally Enforceable Through Title V Permit

13. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311, 5.5] Federally Enforceable Through Title V Permit

14. Permittee shall maintain copies of the compliance determination conducted pursuant to Section 6.4.1, copies of the source testing result conducted pursuant to Section 6.4.2, effective on and after July 1, 2011, a copy of the approved flare minimization plan pursuant to Section 6.5, effective on and after July 1, 2012, a copy of annual reports submitted to the APCO pursuant to Section 6.2 and effective on and after July 1, 2011, monitoring data collected pursuant to Sections 5.10, 6.6, 6.7, 6.8, 6.9 and 6.10. [District Rule 4311, 6.1] Federally Enforceable Through Title V Permit

15. For flares used during an emergency, record of the duration of flare operation, amount of gas burned, and the nature of the emergency situation. [District Rule 4311, 6.1] Federally Enforceable Through Title V Permit

16. All records shall be maintained, retained on-site for a minimum of five years, and made available to the APCO, ARB, and EPA upon request. [District Rule 4311, 6.1] Federally Enforceable Through Title V Permit

17. VOC emissions, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppmv in order to meet the standard, in which case Method 25A may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources". The VOC concentration in ppmv shall be converted to pounds per million Btu (lb/MMBtu) by using the equation in District Rule 4311, Section 6.3.1. [District Rule 4311, 6.3.1] Federally Enforceable Through Title V Permit

18. NOx emissions in pounds per million BTU shall be determined by using EPA Method 19. NOx and O2 concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100. [District Rule 4311, 6.3.2 and 6.3.3] Federally Enforceable Through Title V Permit


20. If vent gas composition is monitored with a continuous analyzer employing gas chromatography the minimum sampling frequency shall be one sample every 30 minutes. If vent gas composition is monitored using continuous analyzers not employing gas chromatography, the total reduced sulfur content of vent gas shall be determined by using EPA Method D4468-85, or an alternative method approved by the APCO, ARB and EPA. [District Rule 4311, 6.3.4] Federally Enforceable Through Title V Permit

21. Vent gas flow shall be determined using one of the following: EPA Methods 1 and 2; a verification method recommended by the manufacturer of the flow monitoring equipment; tracer gas dilution or velocity; other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter; or an alternative method approved by the APCO, ARB, and EPA. [District Rule 4311, 6.3.5] Federally Enforceable Through Title V Permit

22. Effective on and after July 1, 2011, the shall monitor vent gas composition using one of the five methods pursuant to Section 6.6.1 through Section 6.6.5 in District Rule 4311. [District Rule 4311, 6.6] Federally Enforceable Through Title V Permit

23. Effective on and after July 1, 2011, the operator shall monitor the volumetric flows of purge and pilot gases with flow measuring devices or other parameters as specified on the Permit to Operate so that volumetric flows of pilot and purge gas may be calculated based on pilot design and the parameters monitored. [District Rule 4311, 6.7] 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.
24. Effective on and after July 1, 2011, the operator of a flare with a water seal shall monitor and record the water level and pressure of the water seal that services each flare daily or as specified on the Permit to Operate. [District Rule 4311, 6.8] Federally Enforceable Through Title V Permit

25. Effective on and after July 1, 2011, periods of flare monitoring system inoperation greater than 24 continuous hours shall be reported by the following working day, followed by notification of resumption of monitoring. Periods of inoperation of monitoring equipment shall not exceed 14 days per any 18-consecutive-month period. Periods of flare monitoring system inoperation do not include the periods when the system feeding the flare is not operating. [District Rule 4311, 6.9.1] Federally Enforceable Through Title V Permit

26. Effective on and after July 1, 2011, during periods of inoperation of continuous analyzers or auto-samplers installed pursuant to Section 6.6, operators responsible for monitoring shall take one sample within 30 minutes of the commencement of flaring, from the flare header or from an alternate location at which samples are representative of vent gas composition and have samples analyzed pursuant to Section 6.3.4. During periods of inoperation of flow monitors required by Section 5.10, flow shall be calculated using good engineering practices. [District Rule 4311, 6.9.2] Federally Enforceable Through Title V Permit

27. Effective on and after July 1, 2011, permittee shall maintain and calibrate all required monitors and recording devices in accordance with the applicable manufacturer's specifications. In order to claim that a manufacturer's specification is not applicable, the person responsible for emissions must have, and follow, a written maintenance policy that was developed for the device in question. The written policy must explain and justify the difference between the written procedure and the manufacturer's procedure. [District Rule 4311, 6.9.3] Federally Enforceable Through Title V Permit

28. Effective on and after July 1, 2011, all in-line continuous analyzer and flow monitoring data must be continuously recorded by an electronic data acquisition system capable of one-minute averages. Flow monitoring data shall be recorded as one-minute averages. [District Rule 4311, 6.9.4] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: CHEVRON USA INC LOST HILLS GP
Location: LOST HILLS GAS PLANT, LOST HILLS, CA

5-06-11-5.2462936.5 - MARGO664763
1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit

2. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit

3. The engine shall be equipped with a turbocharger and with an aftercooler. [District NSR Rule] Federally Enforceable Through Title V Permit

4. {2413} 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, 5.1] Federally Enforceable Through Title V Permit

5. {2414} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

6. Emissions from this engine shall not exceed any of the following limits: 0.40 lb-PM10/hr, 0.37 lb-SOx/hr, 2.66 lb-NOx/hr, 0.45 lb-VOC/hr, or 1.35 lb-CO/hr. [District NSR Rule] Federally Enforceable Through Title V Permit

7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 4.3 and 17 CCR 93115] Federally Enforceable Through Title V Permit

8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit

9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 4.2.1 and 17 CCR 93115] Federally Enforceable Through Title V Permit

10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702, 5.7.3] Federally Enforceable Through Title V Permit
11. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

12. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-55-13-6
SECTION: SW03  TOWNSHIP: 27S  RANGE: 21E

EQUIPMENT DESCRIPTION:
GAS COMPRESSION OPERATION INCLUDING ONE 1680 HP WAUKESHA MODEL 7044GS1 NATURAL GAS- FIRED IC ENGINE WITH DCL INDUSTRIES MODEL 2-DC76-14 3-WAY CATALYST, AND A AIR/FUEL RATIO CONTROLLER DRIVING A THREE-STAGE GAS COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit

2. The engine shall be equipped with a turbocharger and with an intercooler. [District NSR Rule] Federally Enforceable Through Title V Permit

3. IC engine shall only burn natural gas with a fuel gas sulfur concentration (as H2S) not exceeding 0.25 grains/100 scf. [District NSR Rule, District Rule 4801, and Kern County Rule 407] Federally Enforceable Through Title V Permit

4. Compressor shall be reciprocating type only and shall be in wet gas service only. [District NSR Rule and District Rules 4001] Federally Enforceable Through Title V Permit

5. This engine shall be equipped with an operational nonresetable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.6.6] Federally Enforceable Through Title V Permit

6. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.0 lb VOC per day. [District NSR Rule] Federally Enforceable Through Title V Permit

7. VOC emission rate from all compression operations shall not exceed 0.66 lb/hr from fugitive sources. [District NSR Rule] Federally Enforceable Through Title V Permit

8. Emissions from the IC engine when operating under load shall not exceed any of the following limits: 25 ppmv NOx @ 15% O2, 30 ppmv VOC @ 15% O2, 70 ppmv CO @ 15% O2, 0.6 lb SOx/MMscf, or 10 lb PM10/MMscf. [District NSR Rule and District Rule 4702, 5.1] Federally Enforceable Through Title V Permit

9. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. Source testing emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx. [District Rules 4702 and 2520, 9.3.2] Federally Enforceable Through Title V Permit

10. Compliance demonstration (source testing) shall be by District witnessed or authorized by District personnel. [District Rule 1081] Federally Enforceable Through Title V Permit

11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit

12. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: CHEVRON USA INC LOST HILLS GP
Location: LOST HILLS GAS PLANT, LOST HILLS, CA
8-5-13 6: 34:34 AM - MASLOWIT
13. {2413} 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, 5.1] Federally Enforceable Through Title V Permit

14. {2414} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

15. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702, 5.6.1.1, 5.6.9, and 6.5.7] Federally Enforceable Through Title V Permit

16. if either the NOx or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable concentrations after 8 hours, the permittee shall notify the District within the following 1-hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702, 6.5.4] Federally Enforceable Through Title V Permit

17. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer’s specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702, 5.6.9, 6.5.7] Federally Enforceable Through Title V Permit

18. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702, 6.5.8] Federally Enforceable Through Title V Permit

19. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified in the Inspection and Maintenance (I & M) plan submitted to the District. [District Rule 4702, 5.6.7, 6.5.6] Federally Enforceable Through Title V Permit

20. The permittee shall update the I & M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I & M plan and must submit an updated I & M plan to the APCO no later than 14 days after the change for approval. The date and time of the change to the I & M plan shall be recorded in the engine's operating log. For modifications, the revised I & M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I & M plan at any time. [District Rule 4702, 6.5.9] Federally Enforceable Through Title V Permit

21. {2426} The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
22. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane, fuel gas sulfur content - ASTM D 3246 or double GC for total sulfur content, and EPA Method 21 for fugitive components. [District Rule 1081] Federally Enforceable Through Title V Permit

23. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit

24. Sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or double GC for H2S and mercaptans. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

25. Sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

26. The air/fuel ratio shall be operated to maintain the exhaust O2 at a set point that has been demonstrated to result in compliance with the IC engines emission limits. The air/fuel ratio controller O2 set point may be adjusted when IC engine's emissions are measured during inspections with a portable emission analyzer. [40 CFR 64] Federally Enforceable Through Title V Permit

27. The permittee shall inspect the air/fuel ratio controller on a daily basis to determine if an alarm signal exists. [40 CFR 64] Federally Enforceable Through Title V Permit

28. Upon discovery of an alarm signal from the air/fuel controller, the permittee shall adjust the IC engine operating parameters to such that an alarm condition no longer exists as soon as possible, but no longer than 8 hours after detection. If an alarm condition continues to exist after 8 hours, the permittee shall notify the District within the following 1 hour and shall measure IC emissions with a portable emissions analyzer to determine if the NOX and CO emission limits have been exceeded. If the excursions are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [40 CFR 64] Federally Enforceable Through Title V Permit

29. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit

30. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64] Federally Enforceable Through Title V Permit

31. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit

32. Permittee shall maintain an engine operating log, on a monthly basis, which includes the following information; total hours of operation, type and quantity of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance with Rule 4702. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

33. All records required by this permit shall be maintained for a period of five years and shall be made readily available for District inspection upon request. [District Rule 4702, 6.2.2] Federally Enforceable Through Title V Permit

34. The owner of an engine to be modified subject to the compliance schedule of Section 7.6 of District Rule 4702 shall submit a complete application for an ATC for each engine by June 1, 2004, or at least 24 months before compliance with the emission limits in Section 5.1 is required pursuant to Section 7.6, whichever is later. [District Rule 4702, 7.3] Federally Enforceable Through Title V Permit
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-55-14-6  EXPIRATION DATE: 08/31/2009
SECTION: SW03   TOWNSHIP: 27S   RANGE: 21E

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

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit

2. The engine shall be equipped with a turbocharger and with an intercooler. [District NSR Rule] Federally Enforceable Through Title V Permit

3. IC engine shall only burn natural gas with a fuel gas sulfur concentration (as H2S) not exceeding 0.25 grains/100 scf. [District NSR Rule, District Rule 4801, and Kern County Rule 407] Federally Enforceable Through Title V Permit

4. Compressor shall be reciprocating type only and shall be in wet gas service only. [District NSR Rule and District Rules 4001] Federally Enforceable Through Title V Permit

5. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.6.6] Federally Enforceable Through Title V Permit

6. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.0 lb VOC per day. [District NSR Rule] Federally Enforceable Through Title V Permit

7. VOC emission rate from all compression operations shall not exceed 0.66 lb/hr from fugitive sources. [District NSR Rule] Federally Enforceable Through Title V Permit

8. Emissions from the IC engine when operating under load shall not exceed any of the following limits: 25 ppmv NOx @ 15% O2, 30 ppmv VOC @ 15% O2, 70 ppmv CO @ 15% O2, 0.6 lb SOx/MMscf, or 19 lb PM10/MMscf. [District NSR Rule and District Rule 4702, 5.1] Federally Enforceable Through Title V Permit

9. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. Source testing emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx. [District Rules 4702 and 2520, 9.3.2] Federally Enforceable Through Title V Permit

10. Compliance demonstration (source testing) shall be by District witnessed or authorized by District personnel. [District Rule 1081] Federally Enforceable Through Title V Permit

11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit

12. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.
13. (2413) 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, Ringelman 1 or 20% opacity. [District Rule 4101, 5.1] Federally Enforceable Through Title V Permit

14. (2414) Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

15. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4702, 5.6.1.1, 5.6.9, and 6.5.7] Federally Enforceable Through Title V Permit

16. If either the NOx or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1-hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4702, 6.5.4] Federally Enforceable Through Title V Permit

17. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4702, 5.6.9, 6.5.7] Federally Enforceable Through Title V Permit

18. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4702, 6.5.8] Federally Enforceable Through Title V Permit

19. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified in the Inspection and Maintenance (I & M) plan submitted to the District. [District Rule 4702, 5.6.7, 6.5.6] Federally Enforceable Through Title V Permit

20. The permittee shall update the I & M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I & M plan and must submit an updated I & M plan to the APCO no later than 14 days after the change for approval. The date and time of the change to the I & M plan shall be recorded in the engine's operating log. For modifications, the revised I & M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I & M plan at any time. [District Rule 4702, 6.5.9] Federally Enforceable Through Title V Permit

21. (2426) The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] 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.
22. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane, fuel gas sulfur content - ASTM D 3246 or double GC for total sulfur content, and EPA Method 21 for fugitive components. [District Rule 1081] Federally Enforceable Through Title V Permit

23. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit

24. Sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or double GC for H2S and mercaptans. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

25. Sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

26. The air/fuel ratio shall be operated to maintain the exhaust O2 at a set point that has been demonstrated to result in compliance with the IC engines emission limits. The air/fuel ratio controller O2 set point may be adjusted when IC engine’s emissions are measured during inspections with a portable emission analyzer. [40 CFR 64] Federally Enforceable Through Title V Permit

27. The permittee shall inspect the air/fuel ratio controller on a daily basis to determine if an alarm signal exists. [40 CFR 64] Federally Enforceable Through Title V Permit

28. Upon discovery of an alarm signal from the air/fuel controller, the permittee shall adjust the IC engine operating parameters to such that an alarm condition no longer exists as soon as possible, but no longer than 8 hours after detection. If an alarm condition continues to exist after 8 hours, the permittee shall notify the District within the following 1 hour and shall measure IC emissions with a portable emissions analyzer to determine if the NOX and CO emission limits have been exceeded. If the excursions are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [40 CFR 64] Federally Enforceable Through Title V Permit

29. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit

30. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64] Federally Enforceable Through Title V Permit

31. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit

32. Permittee shall maintain an engine operating log, on a monthly basis, which includes the following information; total hours of operation, type and quantity of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance with Rule 4702. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

33. All records required by this permit shall be maintained for a period of five years and shall be made readily available for District inspection upon request. [District Rule 4702, 6.2.2] Federally Enforceable Through Title V Permit

34. The owner of an engine to be modified subject to the compliance schedule of Section 7.6 of District Rule 4702 shall submit a complete application for an ATC for each engine by June 1, 2004, or at least 24 months before compliance with the emission limits in Section 5.1 is required pursuant to Section 7.6, whichever is later. [District Rule 4702, 7.3] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.
ATTACHMENT B

Existing Title V Operating Permit
Permit to Operate

FACILITY: S-55
LEGAL OWNER OR OPERATOR: CHEVRON USA INC LOST HILLS GP
MAILING ADDRESS: PO BOX 1392
BAKERSFIELD, CA 93302
FACILITY LOCATION: LOST HILLS GAS PLANT
LOST HILLS, CA
FACILITY DESCRIPTION: NATURAL GAS PRODUCTION

EXPIRATION DATE: 08/31/2009

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin
Executive Director / APCO

David Warner
Director of Permit Services
FACILITY: S-55-0-1

FACILITY-WIDE REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

2. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; Kern County Rule 111] Federally Enforceable Through Title V Permit

3. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; Kern County Rule 111] Federally Enforceable Through Title V Permit

4. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit

5. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit

6. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit

7. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit

8. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit

9. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit

10. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: CHEVRON USA INC LOST HILLS GP
Location: LOST HILLS GAS PLANT, LOST HILLS, CA

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
11. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit

12. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit

13. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit

14. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit

15. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit

16. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit

17. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit

18. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit

19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit

20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit

21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit

22. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

23. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (11/15/01). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and Kern County Rule 401] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.
24. No person shall manufacture, blend, repack, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit

25. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit

26. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (10/31/01). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit

27. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit

28. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit

29. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit

30. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit

31. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit

32. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit

33. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit

34. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

35. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit

36. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: CHEVRON USA INC LOST HILLS GP
Location: LOST HILLS GAS PLANT, LOST HILLS, CA
37. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit

38. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit

39. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit

40. A leak is defined as the dripping at a rate of more than three (3) drops per minute of liquid containing VOCs or a reading as methane in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter from the potential source in accordance with EPA Method 21. [District Rule 4403, 3.3.1] Federally Enforceable Through Title V Permit

41. Each hatch shall be closed at all times except during sampling or attended maintenance operations. [District Rule 4403, 5.2.1] Federally Enforceable Through Title V Permit

42. Each open-ended line shall be sealed with two (2) valves, a blind flange, a cap or a plug except when open end is in use. [District Rule 4403, 5.2.2] Federally Enforceable Through Title V Permit

43. All components, excluding flanges and threaded connections, handling VOCs shall be inspected at least quarterly to detect any leaks. If less than two (2) percent of any component type subject to the prohibitions of this permit, except for pressure relief valves, pumps, and compressors, are found to leak during each of five (5) consecutive quarterly inspections, the inspection frequency for that component type may be changed from quarterly to annual. If any annual inspection shows that two (2) percent or more of all of a specific component type subject to the prohibitions of this permit are leaking, then quarterly inspections of that component type shall be resumed. All flanges and threaded connections handling VOCs shall be inspected at least annually to detect any leaks. [District Rule 4403, 5.2.3] Federally Enforceable Through Title V Permit

44. Components that are located in inaccessible locations or in areas unsafe for personnel shall be inspected and repaired at least annually and during shutdown, and such components shall be identified in the operator management plan. [District Rule 4403, 5.2.4] Federally Enforceable Through Title V Permit

45. All pumps shall be visually inspected at least weekly to detect any liquid leaks. [District Rule 4403, 5.2.5] Federally Enforceable Through Title V Permit

46. Each pressure relief valve shall be inspected for leaks within one (1) working day after venting to atmosphere. [District Rule 4403, 5.2.6] Federally Enforceable Through Title V Permit

47. Any leaking component shall be identified by the operator affixing a weatherproof, readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until repair and re-inspection document compliance with the requirements of this permit. [District Rule 4403, 5.2.7] Federally Enforceable Through Title V Permit

48. Any leak detected on the basis of sight, smell, or sound shall be identified by the operator affixing a weatherproof readily visible tag bearing the date on which the leak is detected. The tag shall remain in place until repair and reinspection document compliance, whether or not operator inspection is otherwise required by this permit. [District Rule 4403, 5.2.8] Federally Enforceable Through Title V Permit

49. Any leaking component and any leak shall be repaired to a leak-free condition and reinspected within 15 calendar days. [District Rule 4403, 5.2.9] Federally Enforceable Through Title V Permit
50. The number of leaks of a component type shall not exceed one (1) component, or two (2) percent of that type that were inspected, whichever is greater, and that are subject to the requirements of Rule 4403. For inspections conducted by District personnel to determine compliance, the number of components inspected shall constitute a statistically representative sample for each component type. [District Rule 4403, 5.2.10] Federally Enforceable Through Title V Permit

51. Any component leak shall be repaired to a leak-free condition, or vented to a flare satisfying the requirements of 40 CFR 60.18, or to a vapor control device that is at least 95 percent efficient as measured by EPA Method 25 or EPA Method 18 within fifteen (15) calendar days of detection. The APCO may grant a ten (10) calendar day extension provided the operator demonstrates necessary and sufficient actions are being taken to correct the leak within this time period. [District Rule 4403, 5.3.1] Federally Enforceable Through Title V Permit

52. Any vapor control device, other than a flare, used to comply with Section 5.3.1 of District Rule 4403 shall demonstrate at least 95% control efficiency as measured by EPA Method 25 or EPA Method 18 at least annually. [District Rule 2520, 9.4.2 and District Rule 4403, 5.3.1] Federally Enforceable Through Title V Permit

53. If the leaking component is an essential part of a critical process identified in the operator management plan and which cannot be immediately shut down for repairs, the operator shall minimize the leak within 15 calendar days. If the leak which has been minimized still exceeds the limit in this permit, the essential component shall be repaired to eliminate the leak during the next process unit turnaround, but in no case later than one year from the date of the original leak detection. [District Rule 4403, 5.3.1.1] Federally Enforceable Through Title V Permit

54. Any component leak identified by a Notice to Repair issued by the District shall be repaired and re-inspected as specified in District Rule 4403, 5.2.7, 5.2.8 and 5.2.9 (as amended February 16, 1995). [District Rule 4403, 5.3.2] Federally Enforceable Through Title V Permit

55. Each operator shall maintain an inspection log containing, at a minimum, the following: name, location, type of components, and description of any unit where leaking components are found; date of leak detection, emission level (ppm) of leak, and method of detection; date and emission level of recheck after leak is repaired; total number of components inspected, and total number and percentage of leaking components found; identification and location of essential parts of critical process units found leaking that cannot be repaired until the next process unit turnaround; and method used to minimize the leak from essential parts of critical process units which cannot be repaired until the next process unit turnaround. [District Rule 4403, 6.2.1] Federally Enforceable Through Title V Permit

56. Copies of the inspection log shall be retained by the operator for a minimum of five years after the date of an entry and shall be made available upon request to District personnel. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

57. Samples shall be analyzed by using ASTM Methods E-260, E-168, or E-169 and analysis of halogenated exempt compounds shall be analyzed by ARB Method 432. [District Rule 4403, 6.3.1] Federally Enforceable Through Title V Permit

58. A new or modified operator management plan shall be submitted to the APCO with any application for Authority to Construct for modification to any of the items prescribed by Rule 4403 to be included in the operator management plan. [District Rule 4403, 6.1.2] Federally Enforceable Through Title V Permit

59. Emissions of VOC from components serving the gas compression operation shall be measured by EPA Method 25, 25a, or 25b, or EPA Method 18 as applicable. Halogenated exempt compounds shall be determined by ARB Method 422. [District Rule 4403, 6.3.2] Federally Enforceable Through Title V Permit

60. Leak detection shall be performed in accordance with EPA Method 21, with the instrument calibrated with methane. [District Rule 4403, 6.3.4] Federally Enforceable Through Title V Permit

61. On July 27, 2004, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

62. Facilities S-55, S-57, and S-2199 are the same stationary source for SJVAPCD permitting purposes. [District NSR Rule] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-55-1-5
SECTION: 03  TOWNSHIP: 27S  RANGE: 21E
EXPIRATION DATE: 08/31/2009

EQUIPMENT DESCRIPTION:
266 HP GAS DEHYDRATION FACILITY INCLUDING ONE 2,500 GALLON GLYCOL STORAGE TANK (T-600), VAPOR RECOVERY SYSTEM SERVING V-607, AND MISC FILTERS, CONTACTER COLUMNS, SEPARATORS, HEAT EXCHANGERS, AND PUMPS

PERMIT UNIT REQUIREMENTS

1. The glycol dehydration system shall not be operated unless all vapors are directed to the vapor recovery system. [District Rule 4408, 5.1.i] Federally Enforceable Through Title V Permit

2. All vessels containing volatile organic compounds shall be vapor-tight and pressure relief devices shall vent to vapor recovery system. [District Rule NSR Rule] Federally Enforceable Through Title V Permit

3. The condensed hydrocarbon liquid stream from the glycol dehydration vent shall be stored and handled in a manner that will not cause or allow evaporation of VOC to the atmosphere. [District Rule 4408, 5.2] Federally Enforceable Through Title V Permit

4. A leak is defined as the dripping at a rate of more than three (3) drops per minute of liquid containing VOCs or a reading as methane in excess of 10,000 ppm above background when measured at a distance of one (1) centimeter from the potential source in accordance with EPA Method 21. [District Rules 4403, 3.3.1 and 4408, 3.8.1] Federally Enforceable Through Title V Permit

5. All control systems shall be maintained in a leak-free condition as determined by EPA Method 21. [District Rule 4408, 5.3] Federally Enforceable Through Title V Permit

6. The operator shall maintain monthly records of the amount of gas dehydrated (MMSCF). [District Rule 4408, 6.1.1] Federally Enforceable Through Title V Permit

7. The operator of any glycol dehydration system shall maintain the following records: facility name and APCD permit number; description of any installed VOC control system; flow diagram of dehydrator and any VOC controls; and maintenance records of the VOC control system. [District Rule 4408, 6.1.2] Federally Enforceable Through Title V Permit

8. Copies of the inspection log shall be retained by the operator for a minimum of five years after the date of an entry and shall be made available upon request to District personnel. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

9. All records shall be retained for a period of at least five years and be made available to the District upon request. [District Rules 2520, 9.4.2 and 4408, 6.1.4] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.
PERMIT UNIT: S-55-9-4

SECTION: SW03  TOWNSHIP: 27S  RANGE: 21E

EQUIPMENT DESCRIPTION:
8,000 HP ELECTRIC GAS COMPRESSION OPERATION INCLUDING SIX COOPER SUPERIOR COMPRESSORS
DRIVEN BY FOUR 2,000 HP ELECTRIC MOTORS, KNOCKOUT VESSELS, HEAT EXCHANGERS, PUMPS, AND
FILTERS

PERMIT UNIT REQUIREMENTS

1. Gas stream benzene content in equipment and components shall not exceed 0.07% by weight. [District NSR Rule] Federally Enforceable Through Title V Permit

2. Compressors shall be reciprocating type only. [District NSR Rule] Federally Enforceable Through Title V Permit

3. Open-ended valves shall be equipped with a blind cap flange, plug, second valve or other equivalent control measure. [District NSR Rule] Federally Enforceable Through Title V Permit

4. VOC emission rate from all compression operations shall not exceed 0.66 lb/hr from fugitive sources. [District NSR Rule] Federally Enforceable Through Title V Permit

5. Copies of the inspection log shall be retained by the operator for a minimum of five years after the date of an entry and shall be made available upon request to District personnel. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

6. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.
San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-55-10-2  
EXPIRATION DATE: 08/31/2009

SECTION: 03  TOWNSHIP: 27S  RANGE: 21E

EQUIPMENT DESCRIPTION:
440 BHP CATERPILLAR MODEL 3406B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit

2. The engine shall be equipped with a turbocharger and an aftercooler. [District NSR Rule] Federally Enforceable Through Title V Permit

3. 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, 5.1] Federally Enforceable Through Title V Permit

4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

5. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 5.7.4 and 17 CCR 93115] Federally Enforceable Through Title V Permit

6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702, 5.7.2] Federally Enforceable Through Title V Permit

7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit

8. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing and required regulatory purposes shall not exceed any of the following limits: 15 minutes per day, 2 days per week, or 20 hours per calendar year. [17 CCR 93115]

9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing and required regulatory purposes shall not exceed any of the following limits: 15 minutes per day, 2 days per week, or 100 hours per calendar year. [District Rule 4702, 4.2.1] Federally Enforceable Through Title V Permit

10. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702, 5.7.3] 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.
11. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 5.7 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

12. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-55-11-4
EXPIRATION DATE: 08/31/2009
SECTION: 03 TOWNSHIP: 27S RANGE: 21E
EQUIPMENT DESCRIPTION:
96 MMCFD KALDAIR FLARE INCLUDING 25 HP BLOWER, LIQUID KNOCKOUT TANK WITH PUMP, THREE ELECTRONIC GAS PILOTS, THREE KEP IGNITORS AND AN 85 FT STACK WITH WATER SEAL DRUM

PERMIT UNIT REQUIREMENTS

1. Gas line to flare shall be equipped with volumetric flow rate indicator. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Flare shall operate with no emissions in excess of 5% opacity. [District NSR Rule and District Rule 4101, 5.1] Federally Enforceable Through Title V Permit
3. Natural gas shall be used as pilot fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Operation of the flare, for other than flare maintenance and testing purposes, breakdown (pursuant to Rule 1100), and emergency use, shall be limited to 1.4 MM cu. ft. of gas flared per day and 40 MM cu. ft. of gas flared per year. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Emergency use shall be limited to transfer line shut-ins, non-voluntary power outages, and other unforeseeable occurrences requiring immediate flaring as approved by the APCO. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Operation of the flare for maintenance and testing purposes shall not exceed 200 hours per year. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Emissions from the pilot and purge gas shall not exceed any of the following limits: 0.0 lb PM10/day, 0.0 lb SOx/day, 0.9 lb NOx/day, 10.5 lb VOC/day, or 0.0 lb CO/day. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22 for a period of 15 minutes. If visible emissions are observed at any time during this period, then corrective action shall be taken to eliminate visible emissions and visible emissions shall be rechecked. If visible emissions cannot be corrected within 24 hours, a visible emissions test shall be conducted by a trained observer using EPA method 9 within 72 hours. A record of the results of these observations shall be maintained. Such records shall include the observer's name and affiliation, the date, time, sky condition, and the observer's location relative to the source. [District Rule 2520, 9.3.2 & 9.4.1] Federally Enforceable Through Title V Permit
9. If during the year the flare is operated exclusively for emergency purposes, visible emissions monitoring may be delayed until the occurrence of a scheduled operation event. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. The flame shall be present at all times when combustible gases are vented through the flare. [District Rule 4311, 5.2] Federally Enforceable Through Title V Permit
11. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311, 5.3] 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.
12. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311, 5.4] Federally Enforceable Through Title V Permit

13. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311, 5.5] Federally Enforceable Through Title V Permit

14. The permittee shall maintain records of the date and amount of gas flared for each emergency operation, hours of operation for flare maintenance and testing, amount of gas flared for non-emergency use, and all other records of required monitoring data and support information. Records shall be maintained for a period of five years and made available for District inspection at any time. [District Rule 2520, 9.4.2 and District Rule 4311, 6.2] Federally Enforceable Through Title V Permit
San Joaquin Valley  
Air Pollution Control District

PERMIT UNIT: S-55-12-2  
EXPIRATION DATE: 08/31/2009  
SECTION: 03  TOWNSHIP: 27S  RANGE: 21E

EQUIPMENT DESCRIPTION:  
182 BHP CUMMINS MODEL 6-BTA5 DIESEL-FIRED EMERGENCY IC ENGINE (9-F1) POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit

2. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit

3. The engine shall be equipped with a turbocharger and with an aftercooler. [District NSR Rule] Federally Enforceable Through Title V Permit

4. 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, 5.1] Federally Enforceable Through Title V Permit

5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

6. Emissions from this engine shall not exceed any of the following limits: 0.40 lb-PM10/hr, 0.37 lb-SOx/hr, 2.66 lb-NOx/hr, 0.45 lb-VOC/hr, or 1.35 lb-CO/hr. [District NSR Rule] Federally Enforceable Through Title V Permit

7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 4.3 and 17 CCR 93115] Federally Enforceable Through Title V Permit

8. Only CARB certified diesel fuel containing not more than 0.015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit

9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [17 CCR 93115]

10. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 4.2.1] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.
11. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

12. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit

13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4702, 6.2 and 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-55-13-5
SECTION: SW03  TOWNSHIP: 27S  RANGE: 21E

EXPIRATION DATE: 08/31/2009

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

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit

2. The engine shall be equipped with a turbocharger and with an intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit

3. This IC engine shall be fired on Public Utility Commission (PUC) quality natural gas with a sulfur content not exceeding 1.0 grains/100 scf. [District Rules 2201, 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit

4. Compressor shall be reciprocating type only and shall be in wet gas service only. [District Rules 2201 and 4001] Federally Enforceable Through Title V Permit

5. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.0 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit

6. VOC emission rate from all compression operations shall not exceed 0.66 lb/hr from fugitive sources. [District Rule 2201] Federally Enforceable Through Title V Permit

7. Emissions from this IC engine when operating under load shall not exceed any of the following limits: 25 ppmv NOx @ 15% O2, 30 ppmv VOC @ 15% O2, 70 ppmv CO @ 15% O2, 0.00285 lb SOx/MMBtu, or 10 lb PM10/MMscf. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit

8. Source testing of the IC engine to demonstrate compliance with the permitted NOx, CO and VOC emissions limits shall be conducted not less than once every 24 months. [District Rule 4702] Federally Enforceable Through Title V Permit

9. Source testing shall be witnessed or authorized by District personnel. [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 at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] 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. 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, 5.1] 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.
13. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

14. The permittee shall monitor and record the stack concentration of NOX (as NO2), CO, and O2 at least once every month in which a source test is not performed using a portable emission monitor that meets District specifications. [In-stack O2 monitors may be allowed if approved by the APCO.] Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4701, 5.4] Federally Enforceable Through Title V Permit

15. If either the NOx or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4701, 5.4] Federally Enforceable Through Title V Permit

16. The portable emissions analyzer shall be operated and calibrated in accordance with District guidance. [District Rule 4701, 5.4] Federally Enforceable Through Title V Permit

17. The following test methods shall be used to determine emissions from the IC engine: NOX (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, VOC (ppmv) - EPA Method 18; or EPA Methods 25, 25A or 25B; or ARB Method 100, and stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100. [District Rule 4701, 6.4] Federally Enforceable Through Title V Permit

18. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 480] Federally Enforceable Through Title V Permit

19. Sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or double GC for H2S and mercaptans. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

20. Sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

21. The air/fuel ratio controller shall be operated to maintain the exhaust O2 at a set point that has been demonstrated to result in compliance with the IC engine's emission limits. The air/fuel ratio controller O2 set point may be adjusted when the IC engine's emissions are measured during inspections with a portable emission analyzer [40 CFR 64] Federally Enforceable Through Title V Permit

22. The permittee shall inspect the air/fuel ratio controller on a daily basis to determine if an alarm signal exists. [40 CFR 64] Federally Enforceable Through Title V Permit

23. Upon discovery of an alarm signal from the air/fuel controller, the permittee shall adjust the IC engine operating parameters to such that an alarm condition no longer exists as soon as possible, but no longer than 8 hours after detection. If an alarm condition continues to exist after 8 hours, the permittee shall notify the District within the following 1 hour and shall measure IC emissions with a portable emissions analyzer to determine if the NOx and CO emission limits have been exceeded. If the excursions are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [40 CFR 64] 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.
24. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit

25. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64] Federally Enforceable Through Title V Permit

26. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit

27. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702] Federally Enforceable Through Title V Permit

28. The operator of the IC engine shall maintain records of: (1) total hours of operation, (2) type and quantity of fuel used, (3) maintenance or modifications performed, (4) the date and time of NOX, CO, and O2 measurements, (5) the O2 concentration in percent and the measured NOX and CO concentrations corrected to 15% O2, (6) make and model of exhaust gas analyzer, (7) exhaust gas analyzer calibration records using Protocol 1 gases, and (8) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701, 6.2] Federally Enforceable Through Title V Permit

29. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit
PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit

2. The engine shall be equipped with a turbocharger and with an intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit

3. This IC engine shall be fired on Public Utility Commission (PUC) quality natural gas with a sulfur content not exceeding 1.0 grains/100 scf. [District Rules 2201, 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit

4. Compressor shall be reciprocating type only and shall be in wet gas service only. [District Rules 2201 and 4001] Federally Enforceable Through Title V Permit

5. VOC emissions from fugitive components associated with this engine/compressor shall not exceed 2.0 pounds per day. [District Rule 2201!] Federally Enforceable Through Title V Permit

6. VOC emission rate from all compression operations shall not exceed 0.66 lb/hr from fugitive sources. [District Rule 2201] Federally Enforceable Through Title V Permit

7. Emissions from this IC engine when operating under load shall not exceed any of the following limits: 25 ppmv NOx @ 15% O2, 30 ppmv VOC @ 15% O2, 70 ppmv CO @ 15% O2, 0.00285 lb SOx/MMBtu, or 10 lb PM10/MMscf. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit

8. Source testing of the IC engine to demonstrate compliance with the permitted NOx, CO and VOC emissions limits shall be conducted not less than once every 24 months. [District Rule 4702] Federally Enforceable Through Title V Permit

9. Source testing shall be witnessed or authorized by District personnel. [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 at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] 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. 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, 5.1] 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.
13. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit

14. The permittee shall monitor and record the stack concentration of NOX (as NO2), CO, and O2 at least once every month in which a source test is not performed using a portable emission monitor that meets District specifications. [In-stack O2 monitors may be allowed if approved by the APCO.] Monitoring shall not be required if the engine is not in operation, i.e., the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4701, 5.4] Federally Enforceable Through Title V Permit

15. If either the NOx or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4701, 5.4] Federally Enforceable Through Title V Permit

16. The portable emissions analyzer shall be operated and calibrated in accordance with District guidance. [District Rule 4701, 5.4] Federally Enforceable Through Title V Permit

17. The following test methods shall be used to determine emissions from the IC engine: NOX (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, VOC (ppmv) - EPA Method 18; or EPA Methods 25, 25A or 25B; or ARB Method 100 and stack gas oxygen - EPA Method 3 or 3A, or ARB Method 100. [District Rule 4701, 6.4] Federally Enforceable Through Title V Permit

18. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 480] Federally Enforceable Through Title V Permit

19. Sulfur content of the natural gas being fired in the engine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246, or double GC for H2S and mercaptans. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

20. Sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

21. The air/fuel ratio controller shall be operated to maintain the exhaust O2 at a set point that has been demonstrated to result in compliance with the IC engine's emission limits. The air/fuel ratio controller O2 set point may be adjusted when the IC engine's emissions are measured during inspections with a portable emission analyzer [40 CFR 64] Federally Enforceable Through Title V Permit

22. The permittee shall inspect the air/fuel ratio controller on a daily basis to determine if an alarm signal exists. [40 CFR 64] Federally Enforceable Through Title V Permit

23. Upon discovery of an alarm signal from the air/fuel controller, the permittee shall adjust the IC engine operating parameters to such that an alarm condition no longer exists as soon as possible, but no longer than 8 hours after detection. If an alarm condition continues to exist after 8 hours, the permittee shall notify the District within the following 1 hour and shall measure IC emissions with a portable emissions analyzer to determine if the NOX and CO emission limits have been exceeded. If the excursions are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [40 CFR 64] 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.
24. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit

25. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64] Federally Enforceable Through Title V Permit

26. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit

27. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rule 4702] Federally Enforceable Through Title V Permit

28. The operator of the IC engine shall maintain records of: (1) total hours of operation, (2) type and quantity of fuel used, (3) maintenance or modifications performed, (4) the date and time of NOX, CO, and O2 measurements, (5) the O2 concentration in percent and the measured NOX and CO concentrations corrected to 15% O2, (6) make and model of exhaust gas analyzer, (7) exhaust gas analyzer calibration records using Protocol 1 gases, and (8) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701, 6.2] Federally Enforceable Through Title V Permit

29. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.
PERMIT-EXEMPT EQUIPMENT REGISTRATION (PEER)

PEER NO: S-55-1-2

LEGAL OWNER OR OPERATOR: CHEVRON USA INC LOST HILLS GP
MAILING ADDRESS: PO BOX 1392
BAKERSFIELD, CA 93302

FACILITY LOCATION: LOST HILLS GAS PLANT
LOST HILLS, CA

LOCATION DESCRIPTION: LOST HILLS FIELD, CAHN 3 PLANT

EQUIPMENT DESCRIPTION:
2.5 MMBTU/HR NATIONAL MODEL 8535 S/N BK 2B30002-01 NATURAL GAS-FIRED GLYCOL REBOILER WITH A POWERFLAME MODEL NP2R-G-250 LOW NOX BURNER

CONDITIONS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]

3. 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]

4. The owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rule 4307]

5. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4307]

6. The owner/operator shall maintain records to verify that the required tune-ups have been performed. [District Rule 4307]

7. Tune-up records shall include: 1) date of tune-up, 2) name of technician performing tune-up, and 3) reason that they are qualified. [District Rule 4307]

CONDITIONS CONTINUE ON NEXT PAGE

This PEER remains valid through the expiration date listed above, subject to payment of the annual registration fees and compliance with the PEER conditions and all applicable local, state, and federal regulations. This PEER is valid only within the San Joaquin Valley Air Pollution Control District. Any equipment or operation change may require a PEER application be filed with the District.

Seyed Sadredin
Executive Director / APCO
5-55-1-2 \ 7/7/2010 \ MBG/OWST \ Joint Inspection NOT Required

David Warner
Director of Permit Services

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5585
8. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 4307]

9. This unit shall be in full compliance with District Rule 4307 by the applicable compliance plan. The full compliance date for Group 1 units is July 1, 2008. The full compliance date for Group 2 units is July 1, 2009. If this facility has only one unit subject to Rule 4307, the unit falls under Group 2. [District Rule 4307]
ATTACHMENT C

Detailed Facility List
<table>
<thead>
<tr>
<th>PERMIT NUMBER</th>
<th>FEE DESCRIPTION</th>
<th>FEE RULE</th>
<th>QTY</th>
<th>FEE AMOUNT</th>
<th>FEE TOTAL</th>
<th>PERMIT STATUS</th>
<th>EQUIPMENT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-55-1-5</td>
<td>266 HP</td>
<td>3020-01 E</td>
<td>1</td>
<td>412.00</td>
<td>412.00</td>
<td>A</td>
<td>266 HP GAS DEHYDRATION FACILITY INCLUDING ONE 2,500 GALLON GLYCOL STORAGE TANK (T-600), VAPOUR RECOVERY SYSTEM SERVING V-607, AND MISCELLANEOUS FILTERS, CONTACTOR COLUMNS, SEPARATORS, HEAT EXCHANGERS, AND PUMPS</td>
</tr>
<tr>
<td>S-55-9-4</td>
<td>8,000 HP</td>
<td>3020-01 H</td>
<td>1</td>
<td>1,030.00</td>
<td>1,030.00</td>
<td>A</td>
<td>8,000 HP ELECTRIC GAS COMPRESSION OPERATION INCLUDING SIX COOPÉR SUPERIOR COMPRESSORS DRIVEN BY FOUR 2,000 HP ELECTRIC MOTORS, KNOCKOUT VESSELS, HEAT EXCHANGERS, PUMPS, AND FILTERS</td>
</tr>
<tr>
<td>S-55-10-2</td>
<td>440 bhp IC engine</td>
<td>3020-10 D</td>
<td>1</td>
<td>479.00</td>
<td>479.00</td>
<td>A</td>
<td>440 BHP CATERPILLAR MODEL 3406B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR</td>
</tr>
<tr>
<td>S-55-11-4</td>
<td>4,000,000 Kbtu/hr</td>
<td>3020-02 H</td>
<td>1</td>
<td>1,030.00</td>
<td>1,030.00</td>
<td>A</td>
<td>96 MMCFD KALDAIR FLARE INCLUDING 25 HP BLOWER, LIQUID KNOCKOUT TANK WITH PUMP, THREE ELECTRONIC GAS PILOTS, THREE KEP IGNITORS AND AN 85 FT STACK WITH WATER SEAL DRUM</td>
</tr>
<tr>
<td>S-55-12-2</td>
<td>182 bhp IC engine</td>
<td>3020-10 B</td>
<td>1</td>
<td>117.00</td>
<td>117.00</td>
<td>A</td>
<td>182 BHP CUMMINS MODEL 6-BTA5 DIESEL-FIRED EMERGENCY IC ENGINE (S-2) POWERING A FIREWATER PUMP</td>
</tr>
<tr>
<td>S-55-13-5</td>
<td>1,680 bhp engine</td>
<td>3020-10 F</td>
<td>1</td>
<td>749.00</td>
<td>749.00</td>
<td>A</td>
<td>MODIFICATION OF: GAS COMPRESSION OPERATION INCLUDING ONE 1680 HP WAUKESHA MODEL 7044HSI NATURAL GAS-FIRED IC ENGINE WITH DCL INDUSTRIES MODEL 2-DC76-14 3-WAY CATALYST, AND AN AIR/FUEL RATIO CONTROLLER DRIVING A THREE-STAGE GAS COMPRESSOR</td>
</tr>
<tr>
<td>S-55-14-5</td>
<td>1,680 bhp engine</td>
<td>3020-10 F</td>
<td>1</td>
<td>749.00</td>
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<td>A</td>
<td>MODIFICATION OF: GAS COMPRESSION OPERATION INCLUDING ONE 1680 HP WAUKESHA MODEL 7044HSI NATURAL GAS-FIRED IC ENGINE WITH DCL INDUSTRIES MODEL 2-DC76-14 3-WAY CATALYST, AND AN AIR/FUEL RATIO CONTROLLER DRIVING A THREE-STAGE GAS COMPRESSOR</td>
</tr>
</tbody>
</table>

Number of Facilities Reported: 1
## Comparison of the latest amended version (amended June 18, 2009) of District Rule 4311 and the current SIP approved version, adopted June 20, 2002

<table>
<thead>
<tr>
<th>District Rule 4311 Requirements</th>
<th>Adopted June 20, 2002</th>
<th>Amended June 18, 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPLICABILITY</strong></td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>This rule is applicable to operations involving the use of flares.</td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td><strong>DEFINITIONS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air-Assisted Flare: a combustion device where forced air is injected to promote turbulence for mixing and to provide combustion air.</td>
<td><strong>X</strong></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>Air Pollution Control Officer (APCO): as defined in Rule 1020 (Definitions).</td>
<td></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>Air Resources Board (ARB): as defined in Rule 1020 (Definitions).</td>
<td></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>British Thermal Unit (Btu): the amount of heat required to raise the temperature of one pound of water from 59°F to 60°F at one atmosphere.</td>
<td></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>Calendar Day: any day starting at twelve o’clock AM and ending at 11:59 PM.</td>
<td></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>Coanda Effect Flare: A flare in which the high pressure flare gas flows along a curved surface inspiriting air into the gas to promote combustion.</td>
<td></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>Emergency: any situation or a condition arising from a sudden and reasonably unforeseeable event beyond the control of the operator. An emergency situation requires immediate corrective action to restore safe operation. A planned flaring event shall not be considered as an emergency.</td>
<td></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>Emergency: any situation or a condition arising from a sudden and reasonably unforeseeable and unpreventable event beyond the control of the operator. Examples include, but are not limited to, not preventable equipment failure, natural disaster, act of war or terrorism, or external power curtailment, excluding a power curtailment due to an interruptible power service agreement from a utility. A flaring event due to improperly designed equipment, lack of preventative maintenance, careless or improper operation, operator error or willful misconduct does not qualify as an emergency. An emergency situation requires immediate corrective action to restore safe operation. A planned flaring event shall not be considered as an emergency.</td>
<td></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>Enclosed Flare: a flare composed of multiple gas burners that are grouped in an enclosure, and are staged to operate at a</td>
<td></td>
<td><strong>X</strong></td>
</tr>
<tr>
<td>District Rule 4311 Requirements</td>
<td>Adopted June 20, 2002</td>
<td>Amended June 18, 2009</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------------------------</td>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>wide range of flow rates.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPA: United States Environmental Protection Agency.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Feasible: Capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Flare: a direct combustion device in which air and all combustible gases react at the burner with the objective of complete and instantaneous oxidation of the combustible gases. Flares are used either continuously or intermittently and are not equipped with devices for fuel-air mix control or for temperature control.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Flare Event: any intentional or unintentional combustion of vent gas in a flare. The flare event ends when the flow velocity drops below 0.12 feet per second or when the operator can demonstrate that no more vent gas was combusted based upon the monitoring records of the flare water seal level and/or other parameters as approved by the APCO in the Flare Monitoring and Recording Plan. For a flare event that continues for more than one calendar day, each calendar day or venting of gases shall constitute a separate flare event.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Flare Gas: gas burned in a flare.</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Flare Minimization Plan (FMP): a document intended to meet the requirements of Section 6.5 of this Rule.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Flare Monitoring System: all flare monitoring and recording equipment used for the determination of flare operating parameters. Flare monitoring and recording equipment includes, but is not limited to, sample systems, transducers, transmitters, data acquisition equipment, data recording equipment, and video monitoring equipment and video recording equipment.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Flexigas: a low BTU fuel gas produced by gasifying coke produced in a fluid-bed Coker. Due to the air used in the gasifying process, Flexigas is approximately 50% nitrogen.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Gaseous Fuel: any gases used as combustion fuel which include, but are not limited to, any natural, process, synthetic, landfill, sewage digester, or waste gases. Gaseous fuels include produced gas, pilot gas and, when burned, purge gas.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Major Source: as defined in Rule 2201 (New and Modified Stationary Source Review Rule).</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>MMBtu: million British thermal units.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td><strong>District Rule 4311 Requirements</strong></td>
<td><strong>Adopted June 20, 2002</strong></td>
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<tr>
<td>Non-Assisted Flare: a combustion device without any auxiliary provision for enhancing the mixing of air into its flame. This definition does not include those flares, that by design, provide excess air at the flare tip.</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Nox: any nitrogen oxide compounds</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Open Flare: a vertically or horizontally oriented open pipe flare from which gases are released into the air before combustion is commenced.</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Operator: includes, but not limited to, any person who owns, leases, supervises, or operates a facility.</td>
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</tr>
<tr>
<td>Petroleum Refinery: a facility that processes petroleum, as defined in the Standard Industrial Classification Manual as Industry No. 2911, Petroleum Refining. For the purpose of this rule, all portions of the petroleum refining operation, including those at non-contiguous locations operating flares, shall be considered as one petroleum refinery.</td>
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<tr>
<td>Pilot: an auxiliary burner used to ignite the vent gas routed to a flare.</td>
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<td>X</td>
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<tr>
<td>Pilot Gas: the gas used to maintain the presence of a flame for ignition of vent gases.</td>
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<td>X</td>
</tr>
<tr>
<td>Planned Flaring: a flaring operation that constitutes a designed and planned process at a source, and which would have been reasonably foreseen ahead of its actual occurrence, or is scheduled to occur. The operation of a flare for the purpose of performing equipment maintenance provided it does not exceed 200 hours per calendar year, or during compliance source testing or visible emission inspections is not considered planned flaring. Planned flaring includes, but is not limited to, the following flaring activities:</td>
<td></td>
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<tr>
<td>- Oil or gas well tests, well related work, tests ordered by a regulatory agency.</td>
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<tr>
<td>- Equipment depressurization for maintenance purposes.</td>
<td></td>
<td></td>
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<tr>
<td>- Equipment start-up or shutdown.</td>
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<tr>
<td>- Flaring of gas at production sources where no gas handling, gas injection or gas transmission facilities exists.</td>
<td></td>
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<tr>
<td>- Flaring of off-specification gas (i.e. non PUC quality gas), unless the operator can demonstrate that the gas must be flared for engineering or safety reasons, e.g., under emergency.</td>
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<tr>
<td>Planned Flaring: a flaring operation that constitutes a</td>
<td>X</td>
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<tr>
<td>District Rule 4311 Requirements</td>
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<tr>
<td>designed and planned process at a source, and which would have been reasonably foreseen ahead of its actual occurrence, or is scheduled to occur. Planned flaring includes, but is not limited to, the following flaring activities:</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Oil or gas well tests, well related work, tests ordered by a regulatory agency.</td>
<td></td>
<td>x</td>
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<tr>
<td>Equipment depressurization for maintenance purposes.</td>
<td></td>
<td>x</td>
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<tr>
<td>Equipment start-up or shutdown.</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Flaring of gas at production sources where no gas handling, gas injection or gas transmission facilities exists.</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Flaring of off-specification gas (i.e. non-PUC quality gas), unless the operator can demonstrate that the gas must be flared for engineering or safety reasons, e.g., under emergency.</td>
<td></td>
<td>x</td>
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<tr>
<td>The operation of a flare for the purpose of performing equipment maintenance.</td>
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</tr>
<tr>
<td>Prevention Measure: a component, system, procedure, or program that will minimize or eliminate flaring.</td>
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<td>x</td>
</tr>
<tr>
<td>Public Utilities Commission (PUC) Quality Gas: any gaseous fuel, gas containing fuel where the sulfur content is no more than one-fourth (0.25) grain of hydrogen sulfide per one hundred (100) standard cubic feet and no more than five grains of total sulfur per one hundred (100) standard cubic feet. PUC quality gas shall also mean high methane (at least 80 % by volume) gas as specified in PUC's General Order 58-A.</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Purge Gas: Nitrogen, carbon dioxide, liquefied petroleum gas, or natural gas, any of which can be used to maintain a non-explosive mixture of gases in the flare header or provide sufficient exit velocity to prevent any regressive flame travel back into the flare header.</td>
<td>x</td>
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</tr>
<tr>
<td>Refinery Fuel Gas: a combustible gas, which is a by-product of the refinery process.</td>
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<tr>
<td>Reportable Flaring Event: any flaring where more than 500,000 standard cubic feet of vent gas is flared per calendar day, or where sulfur oxide emissions are greater than 500 pounds per calendar day. A reportable flaring event ends when it can be demonstrated by monitoring required in Section 6.8 that the integrity of the water seal has been maintained sufficiently to prevent vent gas to the flare tip. For flares without water seals or water seal monitors as required by Section 6.8, a reportable flaring event ends when the rate of flow of vent gas falls below 0.12 feet per second.</td>
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<tr>
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</tr>
<tr>
<td>Representative Sample: a sample of vent gas collected from the location as approved for flare monitoring and analyzed utilizing test methods specified in Section 6.3.4.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Shutdown: the procedure by which the operation of a process unit or piece of equipment is stopped due to the end of a production run, or for the purpose of performing maintenance, repair and replacement of equipment. Stoppage caused by frequent breakdown due to poor maintenance or operator error shall not be deemed a shutdown.</td>
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<td>X</td>
</tr>
<tr>
<td>Startup: the procedure by which a process unit or piece of equipment achieves normal operational status, as indicated by such parameters as temperature, pressure, feed rate and product quality.</td>
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<td>X</td>
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<tr>
<td>Steam-Assisted Flare: a combustion device where steam is injected into the combustion zone to promote turbulence for the mixing of the combustion air before it is introduced to the flame.</td>
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<td>X</td>
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<tr>
<td>Thermal oxidizer: an enclosed or partially enclosed combustion device, other than a flare, that is used to oxidize combustible gases.</td>
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<tr>
<td>Total Organic Gases (TOG): all hydrocarbon compounds containing hydrogen and carbon with or without other chemical elements.</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Turnaround: a planned activity involving shutdown and startup of one or several process units for the purpose of performing periodic maintenance, repair, replacement of equipment or installation of new equipment.</td>
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<tr>
<td>Vent Gas: any gas directed into a flare, excluding assisting air or steam, flare pilot gas, and any continuous purge gases.</td>
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<tr>
<td>Volatile Organic Compound (VOC): as defined in Rule 1020 (Definitions).</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Water Seal: a liquid barrier, or seal, to prevent the passage of gas. Water seals provide a positive means of flash-back prevention in addition to enabling the upstream flare system header to operate at a slight positive pressure at all times.</td>
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<td>X</td>
</tr>
</tbody>
</table>

**EXEMPTIONS**

Flares operated in municipal solid waste landfills subject to the requirements of Rule 4642 (Solid Waste Disposal Sites) are exempt from this rule.

Flares that are subject to the requirements of 40 CFR 60 Subpart WWW (Standards of Performance for Municipal
<table>
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<tbody>
<tr>
<td>Waste Landfills), or Subpart Cc (Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills) are exempt from this rule.</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Except for the recordkeeping requirements in Section 6.1.4 the requirements of this rule shall not apply to any stationary source that has the potential to emit, for all processes, less than ten (10.0) tons per year of VOC and less than ten (10.0) tons per year of Nox.</td>
<td></td>
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</table>

**REQUIREMENTS**

The operator of any source subject to this rule shall comply with the following requirements:

- Flares that are permitted to operate only during an emergency are not subject to the requirements of Sections 5.6 and 5.7.
  - The flame shall be present at all times when combustible gases are vented through the flare.
  - The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares.
  - x

- Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated.
  - x

- Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an alternative equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated.
  - x

- Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging.
  - x

- Open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18.
  - x

- Open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the
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<td>provisions of 40 CFR 60.18. The requirements of this section shall not apply to Coanda effect flares.</td>
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<tr>
<td>Ground-level enclosed flares shall meet the following emission standards:</td>
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<tr>
<td><strong>Flares without Steam Assist</strong></td>
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<td></td>
</tr>
<tr>
<td>Heat Release Rate: &lt;10 MMBtu</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>VOC limit = 0.0051 (lb/MMBtu)</td>
<td></td>
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<tr>
<td>Nox limit = 0.0952 (lb/MMBtu)</td>
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<tr>
<td>Heat Release Rate: 10-100 MMBtu</td>
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<tr>
<td>VOC limit = 0.0027 (lb/MMBtu)</td>
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<tr>
<td>Nox limit = 0.1330 (lb/MMBtu)</td>
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<tr>
<td>Heat Release Rate: &gt;100 MMBtu</td>
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<tr>
<td>VOC limit = 0.0013 (lb/MMBtu)</td>
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<tr>
<td>Nox limit = 0.5240 (lb/MMBtu)</td>
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<tr>
<td><strong>Flares with Steam Assist</strong></td>
<td></td>
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<tr>
<td>All Heat Release Rates</td>
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<tr>
<td>VOC limit = 0.0014 (lb/MMBtu) as TOG</td>
<td></td>
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<tr>
<td>Ncx limit = 0.068 (lb/MMBtu)</td>
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</tr>
<tr>
<td><strong>Flare Minimization Plan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effective on and after July 1, 2011, flaring is prohibited unless it is consistent with an approved flare minimization plan (FMP), pursuant to Section 6.5, and all commitments listed in that plan have been met. This standard shall not apply if the APCO determines that the flaring is caused by an emergency as defined by Section 3.7 and is necessary to prevent an accident, hazard or release of vent gas directly to the atmosphere.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td><strong>Petroleum Refinery SO₂ Performance Targets</strong></td>
<td></td>
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<tr>
<td>Effective on and after January 1, 2011, the operator of a petroleum refinery shall minimize sulfur dioxide flare emissions to less than 1.50 tons per million barrels of crude processing capacity, calculated as an average over one calendar year.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Effective on and after January 1, 2017, the operator of a petroleum refinery shall minimize sulfur dioxide flare emissions to less than 0.50 tons per million barrels of crude processing capacity, calculated as an average over one calendar year.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effective on and after July 1, 2011, the operator of a flare subject to flare minimization requirements pursuant to Section 5.8 shall monitor the vent gas flow to the flare with a flow measuring device or other parameters as specified in the Permit to Operate. The operator shall maintain records</td>
<td></td>
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<td>District Rule 4311 Requirements</td>
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<tr>
<td>pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of producing reportable flare events pursuant to Section 6.2.2 shall not be required to monitor vent gas flow to the flare.</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Effective on and after July 1, 2011, the operator of a petroleum refinery or a flare with a flaring capacity equal to or greater than 50 MMBtu/hr shall monitor the flare pursuant to Sections 6.6, 6.7, 6.8, 6.9, and 6.10.</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**ADMINISTRATIVE REQUIREMENTS**

**Compliance Determination**

Upon request the operator of flares that are subject to Section 5.5 shall make available to the APCO the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5).

The operator of ground-level enclosed flares shall conduct source testing at least once every 12 months to demonstrate compliance with Section 5.7. The operator shall submit a copy of the testing protocol to the APCO at least 30 days in advance of the scheduled testing. The operator shall submit the source test results not later than 45 days after completion of the source testing.

For flares used during an emergency, record of the duration of flare operation, amount of gas burned, and the nature of the emergency situation.

<p>| Operators claiming an exemption pursuant to Section 4.3 shall record annual throughput, material usage, or other information necessary to demonstrate an exemption under that section. | X | X |
| Effective on and after July 1, 2011, a copy of the approved flare minimization plan pursuant to Section 6.5. | | |
| Effective on and after July 1, 2012, where applicable, a copy of annual reports submitted to the APCO pursuant to Section 6.2. | | X |
| Effective on and after July 1, 2011, where applicable, monitoring data collected pursuant to Sections 5.10, 6.6, 6.7, 6.8, 6.9, and 6.10. | | |</p>
<table>
<thead>
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<tr>
<td><strong>Flare Reporting</strong></td>
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<tr>
<td><strong>Unplanned Flaring Event</strong></td>
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<tr>
<td>Effective on and after July 1, 2011, the operator of a flare subject to flare minimization plans pursuant to Section 5.8 of this rule shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, which ever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time.</td>
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<tr>
<td><strong>Reportable Flaring Event</strong></td>
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<tr>
<td>Effective on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare minimization plans pursuant to Section 5.8 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the twelve month period of the previous year. The report shall include, but is not limited to all of the following:</td>
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<tr>
<td>The results of an investigation to determine the primary cause and contributing factors of the flaring event;</td>
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<tr>
<td>Any prevention measures considered or implemented to prevent recurrence together with a justification for rejecting any measures that were considered but not implemented;</td>
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<tr>
<td>If appropriate, an explanation of why the flaring was an emergency and necessary to prevent accident, hazard or release of vent gas to the atmosphere, or where, due to a regulatory mandate to vent a flare, it cannot be recovered, treated and used as a fuel gas at the facility; and</td>
<td></td>
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<tr>
<td>The date, time, and duration of the flaring event.</td>
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<tr>
<td><strong>Annual Monitoring Report</strong></td>
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<tr>
<td>Effective on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare monitoring requirements pursuant to Sections 5.10, 6.6, 6.7, 6.8, 6.9, and 6.10, as appropriate, shall submit an annual report to the APCO within 30 days following the end of each 12 month period. The report shall include the following:</td>
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<tr>
<td>The total volumetric flow of vent gas in standard cubic feet for each day.</td>
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<tr>
<td>Hydrogen sulfide content, methane content, and hydrocarbon content of vent gas composition pursuant to</td>
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<tr>
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<tr>
<td>Section 6.6.</td>
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<tr>
<td>If vent gas composition is monitored by a continuous analyzer or analyzers pursuant to Section 5.11, average total hydrocarbon content by volume, average methane content by volume, and depending upon the analytical method used pursuant to Section 6.3.4, total reduced sulfur content by volume or hydrogen sulfide content by volume of vent gas flared for each hour of the month.</td>
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<tr>
<td>If the flow monitor used pursuant to Section 5.10 measures molecular weight, the average molecular weight for each hour of each month.</td>
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<tr>
<td>For any pilot and purge gas used, the type of gas used, the volumetric flow for each day and for each month, and the means used to determine flow.</td>
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<tr>
<td>Flare monitoring system downtime periods, including dates and times.</td>
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<tr>
<td>For each day and for each month provide calculated sulfur dioxide emissions.</td>
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<tr>
<td>A flow verification report for each flare subject to this rule. The flow verification report shall include flow verification testing pursuant to Section 6.3.5.</td>
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</tbody>
</table>

**Test Methods**

The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods may be used provided the test methods have been approved by the APCO and EPA.

VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources". The VOC concentration in ppmv shall be converted to pounds per million Btu (lb/MMBtu) by using the following equation:

\[
\text{VOC in lb/MMBtu} = \frac{(ppmv \, dry) \times (F, \, scf / MMBtu)}{1.135 \times 10^6} \times (20.9 - \%O_2)
\]

Where: \( F = \) As determined by EPA Method 19

NOx emissions in pounds per million BTU shall be determined by using EPA Method 19.

NOx and \( O_2 \) concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100.
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<tr>
<td><strong>Testing and Sampling Methods for Flare Monitoring</strong></td>
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</tr>
<tr>
<td>Effective on and after July 1, 2011 operators subject to vent gas composition monitoring requirements pursuant to Section 6.6 shall use the following test methods as appropriate, or by an alternative method approved by the APCO, ARB and EPA:</td>
<td></td>
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<tr>
<td>Total hydrocarbon content and methane content of vent gas shall be determined using ASTM Method D 1945-96, ASTM Method UOP 539-97, EPA Method 18, or EPA Method 25A or 25B,</td>
<td></td>
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<tr>
<td>If vent gas composition is monitored with a continuous analyzer employing gas chromatography the minimum sampling frequency shall be one sample every 30 minutes.</td>
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<tr>
<td>If vent gas composition is monitored using continuous analyzers not employing gas chromatography, the total reduced sulfur content of vent gas shall be determined by using EPA Method D4468-85.</td>
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<tr>
<td><strong>Flow Verification Test Methods</strong></td>
<td></td>
<td>x</td>
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<tr>
<td>For purposes of the flow verification report required by Section 6.2.3.8, vent gas flow shall be determined using one or more of the following methods, or by any alternative method approved by the APCO, ARB, and EPA:</td>
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<tr>
<td>EPA Methods 1 and 2;</td>
<td></td>
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<tr>
<td>A verification method recommended by the manufacturer of the flow monitoring equipment installed pursuant to Section 5.10.</td>
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<tr>
<td>Tracer gas dilution or velocity.</td>
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<tr>
<td>Other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter.</td>
<td></td>
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</tr>
<tr>
<td><strong>Flare Minimization Plan</strong></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>By July 1, 2010, the operator of a petroleum refinery flare or any flare that has a flaring capacity of greater than or equal to 5.0 MMBtu per hour shall submit a flare minimization plan (FMP) to the APCO for approval. The FMP shall include, but not be limited to:</td>
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</tbody>
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June 18, 2009 |
|---------------------------------|-----------------|-----------------|
| A description and technical specifications for each flare and associated knock-out pots, surge drums, water seals and flare gas recovery systems. Detailed process flow diagrams of all upstream equipment and process units venting to each flare, identifying the type and location of all control equipment. A description of equipment, processes, or procedures the operator plans to install or implement to eliminate or minimize flaring and planned date of installation or implementation. An evaluation of prevention measures to reduce flaring that has occurred or may be expected to occur during planned major maintenance activities, including startup and shutdown. An evaluation of preventative measures to reduce flaring that may be expected to occur due to issues of gas quantity and quality. The evaluation shall include an audit of the vent gas recovery capacity of each flare system, the storage capacity available for excess vent gases, and the scrubbing capacity available for vent gases including any limitations associated with scrubbing vent gases for use as a fuel; and shall determine the feasibility of reducing flaring though the recovery, treatment and use of the gas or other means. An evaluation of preventative measures to reduce flaring caused by the recurrent failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. The evaluation shall determine the adequacy of existing maintenance schedules and protocols for such equipment. For purposes of this section, a failure is recurrent if it occurs more than twice during any five year period as a result of the same cause as identified in accordance with Section 6.2.2. Any other information requested by the APCO as necessary for determination of compliance with applicable provisions of this rule. Every five years after the initial FMP submittal, the operator shall submit an updated FMP for each flare to the APCO for approval. The current FMP shall remain in effect until the updated FMP is approved by the APCO. If the operator fails to submit an updated FMP as required by this section, the existing FMP shall no longer be considered an approved plan. An updated FMP shall be submitted by the operator pursuant to Section 6.5 addressing new or modified equipment, prior to installing the equipment. Updated
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<tr>
<td>FMP submittals are only required if:</td>
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<tr>
<td>The equipment change would require an authority to construct (ATC) and would impact the emissions from the flare, and</td>
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<td>The ATC is deemed complete after June 18, 2009, and</td>
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<td>The modification is not solely the removal or decommissioning of equipment that is listed in the FMP, and has no associated increase in flare emissions.</td>
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<tr>
<td>When submitting the initial FMP, or updated FMP, the operator shall designate as confidential any information claimed to be exempt from public disclosure under the California Public Records Act, Government Code Section 6250 et seq. If a document is submitted that contains information designated confidential, the operator shall provide a justification for this designation and shall submit a separate copy of the document with the information designated confidential redacted.</td>
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<tr>
<td>Vent Gas Composition Monitoring</td>
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<tr>
<td>Effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor vent gas composition using one of the five methods pursuant to Section 6.6.1 through Section 6.6.5 as appropriate.</td>
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<td>Sampling that meets the following requirements:</td>
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<td>If the flow rate of vent gas flared in any consecutive 15-minute period continuously exceeds 330 standard cubic feet per minute (SCFM), a sample shall be taken within 15 minutes. The sampling frequency thereafter shall be one sample every three hours and shall continue until the flow rate of vent gas flared in any consecutive 15-minute period is continuously 330 SCFM or less. In no case shall a sample be required more frequently than once every 3 hours.</td>
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<td>Samples shall be analyzed pursuant to Section 6.3.4.</td>
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<td>Integrated sampling that meets the following requirements:</td>
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<td>If the flow rate of vent gas flared in any consecutive 15 minute period continuously exceeds 330 SCFM, integrated sampling shall begin within 15 minutes and shall continue until the flow rate of vent gas flared in any consecutive 15 minute period is continuously 330 SCFM or less.</td>
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<td>Integrated sampling shall consist of a minimum of one aliquot for each 15-minute period until the sample</td>
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<td>District Rule 4311 Requirements</td>
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<td>container is full: If sampling is still required pursuant to Section 6.6.2.1, a new sample container shall be placed in service within one hour after the previous sample was filled. A sample container shall not be used for a sampling period that exceeds 24 hours. Samples shall be analyzed pursuant to Section 6.3.4. Continuous analyzers that meet the following requirements: The analyzers shall continuously monitor for total hydrocarbon methane, and depending upon the analytical method used pursuant to Section 6.3.4, hydrogen sulfide or total reduced sulfur. The hydrocarbon analyzer shall have a full-scale range of 100% total hydrocarbon. Each analyzer shall be maintained to be accurate to within 20% when compared to any field accuracy tests or to within 5% of full scale. Continuous analyzers employing gas chromatography that meet the following requirements: The gas chromatography system shall monitor for total hydrocarbon, methane, and hydrogen sulfide. The gas chromatography system shall be maintained to be accurate within 5% of full scale. Monitor sulfur content using a colorimetric tube system on a daily basis, and monitor vent gas hydrocarbon on a weekly basis by collecting samples and having them tested pursuant to a method in Section 6.3.4. If flares share a common header, a sample from the header will be deemed representative of vent gas composition for all flares served by the header. The operator shall provide the APCO with access to the monitoring system to collect vent gas samples to verify the analysis required by Section 5.11.</td>
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<tr>
<td>Pilot and Purge Gas Monitoring</td>
<td>Effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor the volumetric flows of purge and pilot gases with flow measuring devices or other parameters as specified on the Permit to Operate so that volumetric flows of pilot and purge gas may be calculated based on pilot design and the parameters monitored. Water Seal Monitoring</td>
<td>Effective on and after July 1, 2011, the operator of a</td>
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<td>District Rule 4311 Requirements</td>
<td>Adopted June 20, 2002</td>
<td>Amended June 18, 2009</td>
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<td>petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour with a water seal shall monitor and record the water level and pressure of the water seal that services each flare daily or as specified on the Permit to Operate.</td>
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**General Monitoring**

Effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall comply with the following, as applicable:

Periods of flare monitoring system inoperation greater than 24 continuous hours shall be reported by the following working day, followed by notification of resumption of monitoring. Periods of inoperation of monitoring equipment shall not exceed 14 days per any 18-consecutive-month period. Periods of flare monitoring system inoperation do not include the periods when the system feeding the flare is not operating.

During periods of inoperation of continuous analyzers or auto-samplers installed pursuant to Section 6.6, operators responsible for monitoring shall take one sample within 30 minutes of the commencement of flaring, from the flare header or from an alternate location at which samples are representative of vent gas composition and have samples analyzed pursuant to Section 6.3.4. During periods of inoperation of flow monitors required by Section 5.10, flow shall be calculated using good engineering practices.

Maintain and calibrate all required monitors and recording devices in accordance with the applicable manufacturer's specifications. In order to claim that a manufacturer's specification is not applicable, the person responsible for emissions must have, and follow, a written maintenance policy that was developed for the device in question. The written policy must explain and justify the difference between the written procedure and the manufacturer's procedure.

All in-line continuous analyzer and flow monitoring data must be continuously recorded by an electronic data acquisition system capable of one-minute averages. Flow monitoring data shall be recorded as one-minute averages.

**Video Monitoring**

Effective on and after July 1, 2011, the operator of a petroleum refinery flare shall install and maintain equipment that records a real-time digital image of the flare and flame at a frame rate of no less than one frame per minute. The recorded image of the flare shall be of sufficient size, contrast,
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<td>and resolution to be readily</td>
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<td>apparent in the overall image</td>
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<td>or frame. The image shall</td>
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<td>include an embedded date and</td>
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<td>time stamp. The equipment</td>
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<td>shall archive the images for</td>
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<td>each 24-hour period. In lieu</td>
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<td>of video monitoring the</td>
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<td>operator may use an</td>
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<td>alternative monitoring method</td>
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<td>that provides data to verify</td>
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<td>date, time, vent gas flow, and</td>
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<td>duration of flaring events.</td>
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## Stringency Comparison of District Rule 4601 Non-SIP Version (12/17/09) to Current SIP Version (10/31/01)

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<tr>
<th>Requirement Category</th>
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<td>2.0 Applicability</td>
<td>This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures any architectural coating for use within the District.</td>
<td>This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.</td>
<td>No change in the applicability, therefore, non-SIP version of rule is as stringent as SIP version.</td>
</tr>
</tbody>
</table>
| 4.0 Exemptions       | The provisions of this rule shall not apply to:  
4.1 Any architectural coating that is sold or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.  
4.2 Any architectural coating that is sold in a containers with a volume of one liter (1.057 quarts) or less.  
4.3 Any aerosol coating product. | 4.1 The provisions of this rule shall not apply to:  
4.1.1 Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.  
4.1.2 Any aerosol coating product.  
4.2 With the exception of Section 6.2, the provisions of this rule shall not apply to any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less. | The only change is to require reporting requirements as discussed in Section 6.2 of the non-SIP approved version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule. |

### 5.0 Requirements

| Note: Section 5.0 requirements refer to Table of Standards, Table of Standards 1, and Table of Standards 2. These tables are included as Attachment X. |
|---------------------------------|---------------------------------|----------------------|--------------|
| 5.1 VOC Content Limits: Except as provided in Sections 5.2, 5.3, 5.8 and 8.0, no person shall,  
5.1.1 Manufacture, blend, or repackage for sale within the District;  
5.1.2 Supply, sell, or offer for sale within the district;  
5.1.3 Solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards, after the specified effective date in the Table of Standards. | 5.1 VOC Content Limits: Except as provided in Sections 5.2 and 5.3, no person shall manufacture, blend, or repackage for use within the District; or supply, sell, or offer for sale within the District; or solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards 1 or the Table of Standards 2, after the specified effective date in the Table of Standards 1 or the Table of Standards 2. Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases. | Sections 6.8 and 8.0 of the SIP version are not included in the non-SIP version. As discussed in corresponding sections the non-SIP version is more stringent. The Table of Standards and Table of Standards 1 have the same VOC limits. Table of Standard 2 is more stringent as discussed below. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule. |
| 5.2 Most Restrictive VOC Limit: If anywhere on the container of any architectural coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf, any representation is made that indicates that the coating meets the definition of or is recommended for use for more than one of the coating categories listed in the Table of Standards, then the most restrictive VOC content limit shall apply. This provision does not apply to the following coating categories:  
5.2.1 Lacquer coatings (including lacquer sanding sealers)  
5.2.2 Metallic-pigmented coatings  
5.2.3 Shellsacs  
5.2.4 Fire-retardant coatings  
5.2.5 Pretreatment wash primers  
5.2.6 Industrial maintenance coatings  
5.2.7 Low-solids coatings | 5.2 Most Restrictive VOC Limit: If a coating meets the definition in Section 3.0 for one or more specialty coating categories listed in the Table of Standards 1 or the Table of Standards 2, then that coating is not required to meet the VOC limits for Flat, Nonflat, or Nonflat – High Gloss coatings, but is required to meet the VOC limit for the applicable specialty coating listed in the Table of Standards 1 or the Table of Standards 2.  
5.2.1 Effective until December 31, 2010, with the exception of the specialty coating categories specified in Section 5.2.1 through 5.2.3.15, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 1, the most restrictive (or lowest) VOC content limit shall apply.  
5.2.2 Effective on and after January 1, 2011, with the exception of the | The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule. |
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<td>5.2.8 Wood preservatives</td>
<td>specialty coating categories specified in Sections 5.2.3.2, 5.2.3.3, 5.2.3.5 through 5.2.3.9, and 5.2.3.14 through 5.2.3.18, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 2, the most restrictive (or lowest) VOC content limit shall apply.</td>
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<td>5.2.9 High temperature coatings</td>
<td>5.2.3.1 This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.</td>
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<td>5.2.10 Temperature-indicator safety coatings</td>
<td>5.2.3.2 Lacquer coatings (including lacquer sanding sealers)</td>
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<td>5.2.11 Antenna coatings</td>
<td>5.2.3.3 Metallic pigmented coatings</td>
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<tr>
<td>5.2.12 Antifouling coatings</td>
<td>5.2.3.4 Shellacs</td>
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<tr>
<td>5.2.13 Flow coatings</td>
<td>5.2.3.5 Fire-retardant coatings</td>
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<tr>
<td>5.2.14 Bituminous roof primers</td>
<td>5.2.3.6 Pretreatment wash primers</td>
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<tr>
<td>5.2.15 Specialty primers, sealers and undercoaters</td>
<td>5.2.3.7 Industrial maintenance coatings</td>
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<td>5.2.16 Aluminum roof coatings</td>
<td>5.2.3.8 Low-solids coatings</td>
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<td>5.2.17 Zinc-rich primers</td>
<td>5.2.3.9 High temperature coatings</td>
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<td>5.2.18 Wood Coatings</td>
<td>5.2.3.10 Temperature-indicator safety coatings</td>
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5.3 Sell-Through of Coatings:
5.3.1 A coating manufactured prior to the January 1, 2003 or January 1, 2004 effective date specified for that coating in the Table of Standards may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1. The VOC limit of the non-SIP version is at least as stringent as the SIP version. Section 5.3.2 was removed it is no longer applicable in the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.

5.3 Sell-Through of Coatings:
A coating manufactured prior to the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2, and that complied with the standards in effect at the time the coating was manufactured, may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2 may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1.
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<tr>
<td>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC containing materials used for thinning and cleanup shall also be closed when not in use.</td>
<td>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.</td>
<td>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</td>
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<tr>
<td>5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards.</td>
<td>5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards 1 or the Table of Standards 2.</td>
<td>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</td>
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<tr>
<td>5.6 Rust Preventative Coatings: Effective January 1, 2004, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards.</td>
<td>5.6 Rust Preventative Coatings: Effective through December 31, 2010, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards.</td>
<td>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</td>
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<tr>
<td>5.7 Coatings Not Listed in the Table of Standards: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards, the VOC content limit shall be determined by classifying the coating as a flat coating or a nonflat coating, based on its gloss, as defined in Sections 3.21, 3.36 and 3.37 and the corresponding flat or nonflat VOC limit shall apply.</td>
<td>5.7 Coatings Not Listed in the Table of Standards 1 or the Table of Standards 2: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards 1 or the Table of Standards 2, the VOC content limit shall be determined by classifying the coating as a Flat, Nonflat, or Flat – High Gloss coating, based on its gloss, and the corresponding Flat, Nonflat, or Flat – High Gloss VOC limit in the Table of Standards 1 or the Table of Standards 2 shall apply.</td>
<td>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</td>
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<td>5.8 Lacquers: Notwithstanding the provisions of Section 3.1, a person or facility may add up to 10 percent by volume of VOC to a lacquer to avoid blushing of the finish during days with relative humidity greater</td>
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<td>This section has been removed. The operation is required to meet the lacquer VOC limit regardless of</td>
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<td>than 70 percent and temperature below 65°F, at the time of application, provided that the coating contains acetone and no more than 550 grams of VOC per liter of coating, less water and exempt compounds, prior to the addition of VOC.</td>
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<td>temperature and humidity. Therefore, non-SIP version of rule is as stringent as SIP version.</td>
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<tr>
<td>5.9 Averaging Compliance Option: On or after January 1, 2003, in lieu of compliance with the specified limits in the Table of Standards for floor coatings; industrial maintenance coatings; primers, sealers, and undercoaters; quick-dry primers, sealers, and undercoaters; quick-dry enamels; roof coatings; bituminous roof coatings; rust preventative coatings; stains; waterproofing sealers, as well as flats and non-flats (excluding recycled coatings), manufacturers may average designated coatings such that their actual cumulative emissions from the averaged coatings are less than or equal to the cumulative emissions that would have been allowed under those limits over a compliance period not to exceed one year. Such manufacturers must also comply with the averaging provisions contained in Section 8.0, as well as maintain and make available for inspection records for at least three years after the end of the compliance period. This Section 5.9 and Section 8.0 shall cease to be effective on January 1, 2005, after which averaging will no longer be allowed.</td>
<td>---</td>
<td>This section is removed from the non-SIP version; it is no longer applicable. Therefore, non-SIP version of rule is as stringent as SIP version.</td>
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<td>6.1.1 through 6.1.9 on the coating container (or label) in which the coating is sold or distributed.</td>
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<td>additional requirements not found in the SIP version. Therefore, non-SIP version of rule is as stringent as SIP version.</td>
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<tr>
<td>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</td>
<td>6.1.14 on the coating container (or label) in which the coating is sold or distributed.</td>
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<tr>
<td>6.1.2 Thinning Recommendations: A statement of the manufacturer’s recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</td>
<td>A statement of the manufacturer’s recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</td>
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<td>6.1.3 VOC Content: Each container of any coating subject to this rule shall display either the maximum or actual VOC content of the coating, as supplied, including the maximum thinning as recommended by the manufacturer. VOC content shall be displayed in grams of VOC per liter of coating. VOC content displayed shall be calculated using product formulation data, or shall be determined using the test methods in Section 6.3.1. The equations in Sections 3.25 or 3.26, as appropriate, shall be used to calculate VOC content.</td>
<td>Maximum VOC Content, as determined from all potential product formulations; or Maximum VOC Content, as determined from actual formulation data; or Maximum VOC Content, as determined using the test methods in Section 6.3.2. If the manufacturer does not recommend thinning, the container shall display the VOC Content, as supplied. If the manufacturer recommends thinning, the container must display the VOC Content, including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multicomponent product, the container must display the VOC contents as mixed or catalyzed. If the coating contains silanes, silicones, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing.</td>
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<td>6.1.4.1 “For industrial use only”</td>
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<td>6.1.4.2 “For professional use only”</td>
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<td>6.1.4.3 “Not for residential use”</td>
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<td>6.1.5 Clear Brushing Lacquers: Effective January 1, 2003, the labels of all clear brushing lacquers shall prominently display the statements “For brush application only,” and “This product must not be thinned or sprayed.”</td>
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<td>6.1.6 Rust Preventative Coatings: Effective January 1, 2003, the labels of all rust preventative coatings shall prominently display the statement “For Metal Substrates Only.”</td>
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<td>6.1.7 Specialty Primers, Sealers and Undercoaters: Effective January 1, 2003, the labels of all specialty primers, sealers and undercoaters shall prominently</td>
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<td>6.1.8 Faux Finishing Coatings: Effective January 1, 2011, the labels of all clear topcoat Faux Finishing coatings shall prominently display the statement “This product can only be sold or used as part of a Faux Finishing coating system.”</td>
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<td>6.1.9 Industrial Maintenance Coatings: Each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of</td>
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<td>display one or more of the descriptions listed in Section 6.1.7.1 through 6.1.7.5.</td>
<td>the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.5.1 through 6.1.5.3.</td>
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<td>6.1.7.2 For fire-damaged substrates.</td>
<td>6.1.5.1 “For industrial use only”</td>
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<td>6.1.7.3 For smoke-damaged substrates.</td>
<td>6.1.5.2 “For professional use only”</td>
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<td>6.1.7.4 For water-damaged substrates.</td>
<td>6.1.5.3 “Not for residential use” or “Not intended for residential use”</td>
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<td>6.1.7.5 For excessively chalky substrates.</td>
<td>6.1.6 Clear Brushing Lacquers: The labels of all clear brushing lacquers shall prominently display the statements “For brush application only,” and “This product must not be thinned or sprayed.” (Category deleted effective January 1, 2011.)</td>
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<td>6.1.8 Quick Dry Enamels: Effective January 1, 2003, the labels of all quick dry enamels shall prominently display the words “Quick Dry” and the dry hard time.</td>
<td>6.1.7 Rust Preventative Coatings: The labels of all rust preventative coatings shall prominently display the statement “For Metal Substrates Only.”</td>
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<td>6.1.9 Non-flat – High Gloss Coatings: Effective January 1, 2003, the labels of all non-flat – high gloss coatings shall prominently display the words “High Gloss.”</td>
<td>6.1.8 Specialty Primers, Sealers and Undercoaters: Effective until December 31, 2010, the labels of all specialty primers, sealers and undercoaters shall prominently display one or more of the descriptions listed in Section 6.1.8.1 through 6.1.8.5. Effective on and after January 1, 2011, the labels of all specialty primers, sealers, and undercoaters shall prominently display one or more of the descriptions listed in Sections 6.1.8.1 through 6.1.8.3. On and after January 1, 2011, Sections 6.1.8.4 and 6.1.8.5 will be no longer effective.</td>
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<td>6.1.8.1 For fire-damaged substrates.</td>
<td>6.1.8.1 For fire-damaged substrates.</td>
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<td>6.1.8.2 For smoke-damaged substrates.</td>
<td>6.1.8.2 For smoke-damaged substrates.</td>
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<td>6.1.8.3 For water-damaged substrates.</td>
<td>6.1.8.3 For water-damaged substrates.</td>
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<td>6.1.8.4 For excessively chalky substrates.</td>
<td>6.1.8.4 For excessively chalky substrates.</td>
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<td>6.1.8.5 For blocking stains.</td>
<td>6.1.8.5 For blocking stains.</td>
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<td>6.1.9 Quick Dry Enamels: The labels of all quick dry enamels shall prominently display the words “Quick Dry” and the dry hard time. (Category deleted effective January 1, 2011.)</td>
<td>6.1.9 Quick Dry Enamels: The labels of all quick dry enamels shall prominently display the words “Quick Dry” and the dry hard time. (Category deleted effective January 1, 2011.)</td>
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<td>6.1.10 Reactive Penetrating Sealers: Effective January 1, 2017, the labels of all Reactive Penetrating Sealers shall prominently display the statement “Reactive Penetrating Sealer.”</td>
<td>6.1.10 Reactive Penetrating Sealers: Effective January 1, 2017, the labels of all Reactive Penetrating Sealers shall prominently display the statement “Reactive Penetrating Sealer.”</td>
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<td>6.1.11 Stone Consolidants: Effective January 1, 2011, the labels of all Stone Consolidants shall prominently display the statement “Stone Consolidant - For Professional Use Only.”</td>
<td>6.1.11 Stone Consolidants: Effective January 1, 2011, the labels of all Stone Consolidants shall prominently display the statement “Stone Consolidant - For Professional Use Only.”</td>
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<td>6.1.12 Nonflat – High Gloss Coatings: The labels of all Nonflat – high gloss coatings shall prominently display the words “High Gloss.”</td>
<td>6.1.12 Nonflat – High Gloss Coatings: The labels of all Nonflat – high gloss coatings shall prominently display the words “High Gloss.”</td>
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<tr>
<td>6.2 Reporting Requirements</td>
<td>6.1.13 Wood Coatings: Effective January 1, 2011, the labels of all Wood Coatings shall prominently display the statement “For Wood Substrates Only.”</td>
<td>6.1.13 Wood Coatings: Effective January 1, 2011, the labels of all Wood Coatings shall prominently display the statement “For Wood Substrates Only.”</td>
<td>Until December 31, 2010 both versions of the rule have the same reporting requirements. After that date the non-SIP approved rule includes very specific information to be kept and is required for all architectural coatings. Therefore, non-SIP version of rule is as stringent as SIP version.</td>
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<td>6.2 Reporting Requirements</td>
<td>6.1.14 Zinc Rich Primers: Effective January 1, 2011, the labels of all Zinc Rich Primers shall prominently display one or more of the following descriptions listed in Section 6.1.14.1 through 6.1.14.3. 6.1.14.1 “For industrial use only” 6.1.14.2 “For professional use only” 6.1.14.3 “Not for residential use” or “Not intended for residential use”</td>
<td>6.1.14 Zinc Rich Primers: Effective January 1, 2011, the labels of all Zinc Rich Primers shall prominently display one or more of the following descriptions listed in Section 6.1.14.1 through 6.1.14.3. 6.1.14.1 “For industrial use only” 6.1.14.2 “For professional use only” 6.1.14.3 “Not for residential use” or “Not intended for residential use”</td>
<td>6.2 Reporting Requirements</td>
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<td>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</td>
<td>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</td>
<td>6.2 Reporting Requirements</td>
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<td>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</td>
<td>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</td>
<td>6.2 Reporting Requirements</td>
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<td>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</td>
<td>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</td>
<td>6.2 Reporting Requirements</td>
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<td>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year: 6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</td>
<td>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year: 6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</td>
<td>6.2 Reporting Requirements</td>
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<td>6.2.4.2 the product category listed in the Table of Standards to which the coating belongs; 6.2.4.3 the total sales in California during the calendar year to the nearest gallon; 6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating. 6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution. 6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</td>
<td>annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year: 6.2.4.1 the product brand name and a copy of the product label with legible usage instructions; 6.2.4.2 the product category listed in the Table of Standards 1 or the Table of Standards 2 to which the coating belongs; 6.2.4.3 the total sales in California during the calendar year to the nearest gallon; 6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating. 6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution. 6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate state sales. 6.2.7 Effective on and after January 1, 2011, Sales Data: All sales data listed in Sections 6.2.7.1 to 6.2.7.14 shall be maintained on-site by the responsible official for a minimum of three years. A responsible official from each manufacturer shall upon request of the Executive Officer of the ARB, or his or her delegate, provide data concerning the distribution and sales of architectural coatings. Sales data submitted by the responsible official to the Executive Officer of the ARB may be claimed as confidential, and such information shall be handled in accordance with the procedures specified in Title 17,</td>
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<td>California Code of Regulations Sections 91000-91022. The responsible official shall within 180 days provide information, including, but not limited to the data listed in Sections 6.2.7.1 through 6.2.7.14:</td>
<td>6.2.7.1 the name and mailing address of the manufacturer;</td>
<td>6.2.7.1 the name and mailing address of the manufacturer;</td>
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<td>6.2.7.2 the name, address and telephone number of a contact person;</td>
<td>6.2.7.2 the name, address and telephone number of a contact person;</td>
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<td>6.2.7.3 the name of the coating product as it appears on the label and the applicable coating category;</td>
<td>6.2.7.3 the name of the coating product as it appears on the label and the applicable coating category;</td>
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<td>6.2.7.4 whether the product is marketed for interior or exterior use or both;</td>
<td>6.2.7.4 whether the product is marketed for interior or exterior use or both;</td>
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<td>6.2.7.5 the number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);</td>
<td>6.2.7.5 the number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);</td>
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<td>6.2.7.6 the VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;</td>
<td>6.2.7.6 the VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;</td>
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<td>6.2.7.7 the names and CAS numbers of the VOC constituents in the product;</td>
<td>6.2.7.7 the names and CAS numbers of the VOC constituents in the product;</td>
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<td>6.2.7.8 the names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;</td>
<td>6.2.7.8 the names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;</td>
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<td>6.2.7.9 whether the product is marketed as solvent-borne, waterborne, or 100% solids;</td>
<td>6.2.7.9 whether the product is marketed as solvent-borne, waterborne, or 100% solids;</td>
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<td>6.2.7.10 description of resin or binder in the product;</td>
<td>6.2.7.10 description of resin or binder in the product;</td>
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<td>6.2.7.11 whether the coating is a single-component or multi-component product;</td>
<td>6.2.7.11 whether the coating is a single-component or multi-component product;</td>
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<td>6.2.7.12 the density of the product in pounds per gallon;</td>
<td>6.2.7.12 the density of the product in pounds per gallon;</td>
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<td>6.2.7.13 the percent by weight of solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and</td>
<td>6.2.7.13 the percent by weight of solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and</td>
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<td>6.2.7.14 the percent by volume of solids, water, and any compounds in the product specifically exempted from the VOC definition.</td>
<td>6.2.7.14 the percent by volume of solids, water, and any compounds in the product specifically exempted from the VOC definition.</td>
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<td>6.3 Test Methods</td>
<td>6.3.1 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.26 and 3.27, the reference method for VOC content is U.S. EPA Method 24, except as provided in Sections 6.3.2 and 6.3.15. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1998), incorporated by reference in Section 6.3.14. The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised August 1996), incorporated by reference in Section 6.3.12. To determine the VOC content of a coating, the manufacturer may use U.S. EPA Method 24, or an alternative method as provided in Section 6.3.2, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of a Method 24 test and any other means for determining VOC content, the Method 24 test results will govern, except when an alternative method is approved as specified in Section 6.3.2. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct a Method 24 analysis. 6.3.2 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.1, after review and approved by the APCO of the District, the ARB and the U.S. EPA, may also be used. 6.3.3 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of U.S. EPA Method 24 (40 CFR 58, subpart D, Appendix A), incorporated by reference in Section 6.3.15. This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings. 6.3.4 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM Designation E 84-99, &quot;Standard Test Method for Surface Burning Characteristics of Building Materials&quot; (see Section 3, Fire-Retardant Coating). 6.3.5 Fire Resistance Rating: The fire</td>
<td>6.3 Test Methods</td>
<td>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods may be used provided the test methods have been approved by the APCO and EPA. 6.3.1 Calculation of VOC Content: For the purpose of determining compliance with the VOC content limits in the Table of Standards 1 or the Table of Standards 2, the VOC content of a coating shall be determined as defined in Section 3.77, 3.78 or 3.79 as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured. If the manufacturer does not recommend thinning, the VOC Content must be calculated for the product as supplied. If the manufacturer recommends thinning, the VOC Content must be calculated including the maximum amount of thinning solvent by recommended the manufacturer. If the coating is a multi-component product, the VOC content must be calculated as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content must include the VOCs emitted during curing. 6.3.2 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.77 and 3.79, the reference method for VOC content is EPA Method 24, except as provided in Sections 6.3.3 and 6.3.16. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised 1993), BAAQMD Method 43 (Revised 1996), or BAAQMD Method 41 (Revised 1995), as applicable. To determine the VOC content of a coating, the manufacturer may use EPA Method 24, or an alternative method as provided in Section 6.3.3, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24</td>
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<td>resistance rating of a fire-resistant coating shall be determined by ASTM Designation E 119-98, &quot;Standard Test Methods for Fire Tests of Building Construction Materials&quot; (see Section 3, Fire-Resistive Coating).</td>
<td>test results will govern, except when an alternative method is approved as specified in Section 6.3.3. The District Air Pollution Control Officer (APCQO) may require the manufacturer to conduct an EPA Method 24 analysis.</td>
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<td>6.3.6 Gloss Determination: The gloss of a coating shall be determined by ASTM Designation D 523-89 (1999), &quot;Standard Test Method for Specular Gloss&quot; (see Section 3, Flat Coating, Nonflat Coating, Nonflat-High Gloss Coating and Quick-Dry Enamel).</td>
<td>6.3.3 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.2 4, after review and approved in writing by the staffs of the District, ARB and EPA, may also be used.</td>
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<td>6.3.7 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, SCAQMD Laboratory Methods of Analysis for Enforcement Samples (see Section 3, Metallic Pigmented Coating).</td>
<td>6.3.4 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A). This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</td>
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<td>6.3.9 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM Designation D 1640-95, &quot;Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature&quot; (see Section 3, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater). The tack-free time of a quickdry enamel coating shall be determined by the Mechanical Test Method of ASTM Designation D 1640-95.</td>
<td>6.3.6 Fire Resistance Rating: The fire resistance rating of a fire-resistive coating shall be determined by ASTM E119-07, &quot;Standard Test Methods for Fire Tests of Building Construction Materials&quot; (see Section 3, Fire-Resistive Coating).</td>
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<td>6.3.11 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, &quot;Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials,&quot; BAAQMD Manual of Procedures, Volume III, adopted 11/6/96 (see Section 3, Volatile Organic Compound, and Section 6.3.1).</td>
<td>6.3.8 Metal Content of Coatings: The metallic content of a coating shall be determined by ASTM D1613-06, &quot;Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products&quot; (see Section 3, Pre-Treatment Wash Primer).</td>
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<td>6.3.12 Exempt Compounds—</td>
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<td>Conclusion</td>
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<td>Parachlorobenzotrifluoride (PCBTF):</td>
<td>The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, “Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride,” BAAQMD Manual of Procedures, Volume III, adopted 12/20/95 (see Section 3, Volatile Organic Compound, and Section 6.3.1).</td>
<td>6.3.10 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM D1640-95, “Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature” (see Section 3.0, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater). The tack-free time of a quick-dry enamel coating shall be determined by the Mechanical Test Method of ASTM D1640-95. (Category deleted effective January 1, 2011.)</td>
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<td>6.3.14 VOC Content of Coatings: The VOC content of a coating shall be determined by U.S. EPA Method 24 as it exists in appendix A of 40 Code of Federal Regulations (CFR) part 60, “Determination of Volatile Matter Content, Water Content, Density, Viscosity of Surface Coatings” (see Section 6.3.1).</td>
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<td>6.3.12 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 41, “Determination of Volatile Methylosiloxanes in Solvent-Based Coatings, Inks, and Related Materials,” BAAQMD Manual of Procedures, Volume III, adopted 11/5/96 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</td>
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<td>6.3.16 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, “Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings” (September 11, 1998) (see Section 6.3.3).</td>
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<td>6.3.14 Exempt Compounds: The content of compounds under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1993), “Determination of Exempt Compounds,” SCAQMD Laboratory Methods of Analysis for Enforcement Samples (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</td>
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<td>6.3.15 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 Code of</td>
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<td>6.3.15 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 Code of</td>
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<td>Federal Regulations (CFR) part 50, “Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings” (see Section 6.3.2).</td>
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<td>6.3.17 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, “Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings” (September 11, 1998).</td>
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<td>6.3.18 Hydrostatic Pressure for Basement Specialty Coatings: The hydrostatic pressure resistance for basement specialty coatings shall be analyzed using ASTM D7088-04, “Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry”.</td>
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<td>6.3.20 Tub and Tile Refinish Coating Hardness: The hardness of tub and tile finish coating shall be determined by ASTM D3363-05, “Standard Test Method for Film Hardness by Pencil Test”.</td>
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<td>7.0 Compliance Schedule</td>
<td>Persons subject to this rule shall be in compliance with this rule by October 31, 2001.</td>
<td>Persons subject to this rule shall be in compliance with this rule by the dates specified within the rule.</td>
<td>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</td>
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<td>8.0 Averaging Compliance Option</td>
<td>8.1 On or after January 1, 2003, in lieu of compliance with the specified limits in the Table of Standards for floor coatings; industrial maintenance coatings; primers, sealers, and undercoaters; quick-dry primers, sealers, and undercoaters; quick-dry enamels; roof coatings; rust</td>
<td>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</td>
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<td>preventative coatings; stains; waterproofing sealers, as well as flats and non-flats (excluding recycled coatings), manufacturers may average designated coatings such that their actual cumulative emissions from the averaged coatings are less than or equal to the cumulative emissions that would have been allowed under those limits over a compliance period not to exceed one year. Such manufacturers must also comply with the averaging provisions contained in this Section, as well as maintain and make available for inspection records for at least three years after the end of the compliance period. This Section shall cease to be effective on January 1, 2005, after which averaging will no longer be allowed.</td>
<td></td>
<td>Per Section 8.1, averaging is no longer applicable. Therefore, Section 8.2 through 8.14 are not listed.</td>
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