



**FEB 29 2012**

John Gruber  
Chevron USA Inc.  
P.O. Box  
Bakersfield, CA 93302

**Re: Notice of Minor Title V Permit Modification  
District Facility # S-1128  
Project # S-1070219 and S-1075747**

Dear Mr. Gruber:

Enclosed is the District's analysis of your application for minor Title V permit modification for the facility identified above. You proposed a Title V minor permit modification to incorporate recently issued Authorities to Construct S-1128-955-0, -956-0, and -957-0 into the Title V operating permit. The modifications consist of the installation of three new diesel-fired emergency standby IC engines.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued Authorities to Construct S-1128-955-0, -956-0, and -957-0, emission increases, and application. This project will be subject to a 45-day EPA commenting period prior to the District taking final action.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney at (559) 230-5900.

Sincerely,

David Warner  
Director of Permit Services

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

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



**FEB 29 2012**

Gerardo C. Rios, Chief  
Permits Office  
Air Division  
U.S. EPA - Region IX  
75 Hawthorne St  
San Francisco, CA 94105

Re: **Notice of Minor Title V Permit Modification**  
**District Facility # S-1128**  
**Project # S-1070219 and S-1075747**

Dear Mr. Rios:

Enclosed for you to review is an application for minor Title V permit modification for the facility identified above. Chevron USA Inc. is proposing a Title V minor permit modification to incorporate the recently issued Authorities to Construct S-1128-955-0, -956-0, and -957-0 into the Title V operating permit. The modifications consist of the installation of three new diesel-fired emergency standby IC engines.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued Authorities to Construct S-1128-955-0, -956-0, and -957-0, emission increases, and application. Please submit your written comments on this project within the 45-day comment period that begins on the date you receive this letter.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney at (559) 230-5900.

Sincerely,

David Warner  
Director of Permit Services

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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

# TITLE V APPLICATION REVIEW

Minor Modification  
Project #: S-1070219 and S-1075747

Engineer: Derek Fukuda  
Date: February 15, 2012

Facility Number: S-1128  
Facility Name: Chevron USA Inc.  
Mailing Address: P.O. Box 1392  
Bakersfield, CA 93302

Contact Name: John Gruber  
Phone: (661) 654-7144

Responsible Official: Michael B Jennings  
Title: HES Manager

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## I. PROPOSAL

Chevron USA Inc. is proposing a Title V minor permit modification to incorporate the recently issued ATC's S-1128-955-0, -956-0, and -957-0 into the Title V operating permit. The modifications will consist of the installation of three diesel-fired emergency standby IC engines.

The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with the applicable requirements and to provide the legal and factual basis for the proposed revisions.

## II. FACILITY LOCATION

The equipment is located in the Heavy Oil Western Cymric Oilfield.

## III. EQUIPMENT DESCRIPTION

**S-1128-955-0:** 225 BHP CATERPILLAR MODEL C7 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE SERVED BY A AZ PURIFIER OXIDATION CATALYST WITH CLOSED CRANKCASE VENTILATION (CCV) SYSTEM POWERING A WATER PUMP

**S-1128-956-0:** 225 BHP CATERPILLAR MODEL C7 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE SERVED BY A AZ PURIFIER OXIDATION CATALYST WITH CLOSED CRANKCASE VENTILATION (CCV) SYSTEM POWERING A WATER PUMP

**S-1128-957-0:** 470 BHP CUMMINS, MODEL QSM11-G4, DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 300 KW ELECTRICAL GENERATOR

#### **IV. SCOPE OF EPA AND PUBLIC REVIEW**

This change to a Title V permit is considered to be a minor modification and, as such, requires no public review.

#### **V. APPLICABLE REQUIREMENTS**

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

#### **VI. DESCRIPTION OF PROPOSED MODIFICATIONS**

Chevron USA is proposing to install three new diesel-fired emergency standby IC engines. Since all three units are new permit units, there are no changes to their existing TV permits. All changes to the units' ATC's are listed below:

- Conditions #1, 2, and 4 will be removed from the ATC's when these units are converted into the TV permit. Conditions #2 and 4 are on the facility wide permit.

#### **VII. COMPLIANCE**

In accordance with Rule 2520, 3.20, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;

4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include;
  - a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
  - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act;

These ATC's were issued in projects that were deemed complete prior to the effective date of the District's extreme non-attainment NSR rule (June, 10 2010). Therefore, this project does not trigger a Title I modification even through it results in an increase in emissions.

6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of section 11.4 by including;

1. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
2. The source's suggested draft permit; and
3. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used.

## VIII. ATTACHMENTS

- A. Proposed Modified Title V Operating Permit No. S-1128-955-1, -956-1, and -957-1
- B. Authorities to Construct No. S-1128-955-0, -956-0, and -957-0
- C. Emissions Increases
- D. Application

# ATTACHMENT A

Proposed Modified Title V Operating Permit No.  
(S-1128-955-1, -956-1, and -957-1)

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1128-955-1

EXPIRATION DATE: 02/29/2016

## EQUIPMENT DESCRIPTION:

225 BHP CATERPILLAR MODEL C7 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE SERVED BY A AZ PURIFIER OXIDATION CATALYST WITH CLOSED CRANKCASE VENTILATION (CCV) SYSTEM POWERING A WATER PUMP

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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
3. Emissions from this IC engine shall not exceed any of the following limits: 2.9 g-NO<sub>x</sub>/bhp-hr, 0.54 g-CO/bhp-hr, or 1.12 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. Emissions from this IC engine shall not exceed 0.15 g-PM<sub>10</sub>/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115] 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. This engine shall be equipped with an Exhaust Gas Temperature (EGT) thermometer immediately upstream of the oxidation catalyst. [District Rule 2201] Federally Enforceable Through Title V Permit
8. During operation the Exhaust Gas Temperature (EGT) of this engine shall not exceed 640° C. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
10. 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] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the EGT of the engine. [District Rule 2201] 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. 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] Federally Enforceable Through Title V Permit
14. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1128-956-1

**EXPIRATION DATE:** 02/29/2016

**EQUIPMENT DESCRIPTION:**

225 BHP CATERPILLAR MODEL C7 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE SERVED BY A AZ PURIFIER OXIDATION CATALYST WITH CLOSED CRANKCASE VENTILATION (CCV) SYSTEM POWERING A WATER PUMP

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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
3. Emissions from this IC engine shall not exceed any of the following limits: 2.9 g-NO<sub>x</sub>/bhp-hr, 0.54 g-CO/bhp-hr, or 1.12 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. Emissions from this IC engine shall not exceed 0.15 g-PM<sub>10</sub>/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115] 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. This engine shall be equipped with an Exhaust Gas Temperature (EGT) thermometer immediately upstream of the oxidation catalyst. [District Rule 2201] Federally Enforceable Through Title V Permit
8. During operation the Exhaust Gas Temperature (EGT) of this engine shall not exceed 640° C. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
10. 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] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the EGT of the engine. [District Rule 2201] 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. 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] Federally Enforceable Through Title V Permit
14. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-1128-957-1

**EXPIRATION DATE:** 02/29/2016

**EQUIPMENT DESCRIPTION:**

470 BHP CUMMINS, MODEL QSM11-G4, DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 300 KW ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. 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
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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
6. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102] Federally Enforceable Through Title V Permit
7. 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] Federally Enforceable Through Title V Permit
8. 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] Federally Enforceable Through Title V Permit
9. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 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. Emissions from this IC engine shall not exceed any of the following limits: 2.33 g-NO<sub>x</sub>/bhp-hr, 0.45 g-CO/bhp-hr, or 0.17 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. Emissions from this IC engine shall not exceed 0.06 g-PM<sub>10</sub>/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT B

Authorities to Construct No.  
(S-1128-955-0, -956-0, and -957-0)



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

**AUTHORITY TO CONSTRUCT**

**PERMIT NO:** S-1128-955-0

**ISSUANCE DATE:** 01/02/2007

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

**LOCATION:** HEAVY OIL WESTERN STATIONARY SOURCE  
KERN COUNTY

**EQUIPMENT DESCRIPTION:**  
225 BHP CATERPILLAR MODEL C7 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE SERVED BY A AZ PURIFIER OXIDATION CATALYST WITH CLOSED CRANKCASE VENTILATION (CCV) SYSTEM POWERING A WATER PUMP

**CONDITIONS**

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] 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] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule, District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed any of the following limits: 2.9 g-NOx/bhp-hr, 0.54 g-CO/bhp-hr, or 1.12 g-VOC/bhp-hr. [District NSR Rule and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District NSR Rule, District Rule 4102 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 326-6900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
— DAVID WARNER, Director of Permit Services

S-1128-955-0 : Jan 2 2007 9:05AM - GONZALEV : Joint Inspection NOT Required

8. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. 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
10. This engine shall be equipped with an Exhaust Gas Temperature (EGT) thermometer immediately upstream of the oxidation catalyst. [District NSR Rule] Federally Enforceable Through Title V Permit
11. During operation the Exhaust Gas Temperature (EGT) of this engine shall not exceed 640°C. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
13. 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] Federally Enforceable Through Title V Permit
14. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the EGT of the engine. [District NSR Rule] Federally Enforceable Through Title V Permit
16. 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] Federally Enforceable Through Title V Permit
17. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
18. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit



## AUTHORITY TO CONSTRUCT

**PERMIT NO:** S-1128-956-0

**ISSUANCE DATE:** 01/02/2007

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

**LOCATION:** HEAVY OIL WESTERN STATIONARY SOURCE  
KERN COUNTY

**EQUIPMENT DESCRIPTION:**  
225 BHP CATERPILLAR MODEL C7 TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE SERVED BY A AZ PURIFIER OXIDATION CATALYST WITH CLOSED CRANKCASE VENTILATION (CCV) SYSTEM POWERING A WATER PUMP

### CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] 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] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule, District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed any of the following limits: 2.9 g-NOx/bhp-hr, 0.54 g-CO/bhp-hr, or 1.12 g-VOC/bhp-hr. [District NSR Rule and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District NSR Rule, District Rule 4102 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 326-6900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

S-1128-956-0; Jan 2 2007 9:05AM - GONZALEZ : Joint Inspection NOT Required

8. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. 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
10. This engine shall be equipped with an Exhaust Gas Temperature (EGT) thermometer immediately upstream of the oxidation catalyst. [District NSR Rule] Federally Enforceable Through Title V Permit
11. During operation the Exhaust Gas Temperature (EGT) of this engine shall not exceed 640°C. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
13. 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] Federally Enforceable Through Title V Permit
14. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the EGT of the engine. [District NSR Rule] Federally Enforceable Through Title V Permit
16. 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] Federally Enforceable Through Title V Permit
17. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
18. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit



# San Joaquin Valley AIR POLLUTION CONTROL DISTRICT

## AUTHORITY TO CONSTRUCT

PERMIT NO: S-1128-957-0

ISSUANCE DATE: 05/24/2007

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

LOCATION: HEAVY OIL WESTERN STATIONARY SOURCE  
KERN COUNTY

EQUIPMENT DESCRIPTION:  
470 BHP CUMMINS, MODEL QSM11-G4, DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 300 KW ELECTRICAL GENERATOR

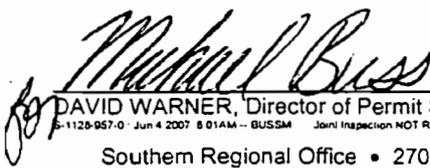
### CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
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. 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]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
7. 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 and 17 CCR 93115]
8. 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]
9. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 326-6900 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

  
\_\_\_\_\_  
DAVID WARNER, Director of Permit Services  
S-1128-957-0 - Jun 4 2007 8 01AM -- BUSSM Joint Inspection NOT Required



10. 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]
11. 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]
12. 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 Rule 4702 and 17 CCR 93115]
13. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rule 4702 and 17 CCR 93115]
14. Emissions from this IC engine shall not exceed any of the following limits: 2.33 g-NOx/bhp-hr, 0.45 g-CO/bhp-hr, or 0.17 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115]
15. Emissions from this IC engine shall not exceed 0.06 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102 and 13 CCR 2423 and 17 CCR 93115]

# ATTACHMENT C

## Emissions Increases

	SSIPE (lb/yr)				
	NOx	VOC	CO	SOx	PM10
S-1128-955-0	72	0	4	13	28
S-1128-956-0	72	0	4	13	28
S-1128-957-0	241	1	6	47	18
<b>TOTAL</b>	<b>385</b>	<b>1</b>	<b>14</b>	<b>73</b>	<b>74</b>

# ATTACHMENT D

Application

# San Joaquin Valley Air Pollution Control District

## APPLICATION FOR TITLE V MODIFICATION:

**RECEIVED**  
**JAN 17 2007**  
SJVAPCD  
Southern Region

- ADMINISTRATIVE AMENDMENT  
 MINOR MODIFICATION  
 SIGNIFICANT MODIFICATION

1. PERMIT TO BE ISSUED TO: <span style="float: right;">CHEVRON U.S.A. INC.</span>	
2. MAILING ADDRESS: STREET/P.O. BOX: <span style="float: right;">P.O. BOX 1392</span> CITY: _____ STATE: <u>CA</u> 9-DIGIT ZIP CODE: <u>93302</u>	
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: STREET: <u>Cymric Oilfield, Heavy Oil Western Source (S-1128)</u> CITY: _____ _____/4 SECTION <u>31</u> TOWNSHIP <u>29S</u> RANGE <u>22E</u>	INSTALLATION DATE:  <u>January/February, 2007</u>
4. GENERAL NATURE OF BUSINESS: <span style="float: right;">Oil and Gas Production</span>	
5. EQUIPMENT FOR WHICH APPLICATION IS MADE (Include Permit Nos.):  ATCs S-1128-955-0 and S-1128-956-0 (copies attached) issued to Chevron U.S.A. (CUSA) without Certificate of Conformity (COC). The ATCs are to be converted to Permits to Operate (PTOs) and incorporated into the Title V Operating Permit.  <span style="float: right;">(Use additional sheets if necessary)</span>	
6. DO YOU REQUEST A CERTIFICATE OF CONFORMITY WITH THIS ACTION? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
7. IS THIS APPLICATION SUBMITTED AS A RESULT OF A NOV/NTC? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO NOV/NTC No.: _____	
8. SIGNATURE OF APPLICANT/CONTACT PERSON: 	TYPE OR PRINT TITLE OF APPLICANT: <span style="text-align: center;">HES Manager</span>
9. TYPE OR PRINT NAME OF APPLICANT/CONTACT: <span style="text-align: center;">Michael B. Jennings</span>	DATE: <span style="text-align: center;"><u>January 17, 2007</u></span>
10. FAX NUMBER: <span style="text-align: center;">(661) 654-7133</span>	TELEPHONE NUMBER: <span style="text-align: center;">(661) 654-7038</span>

**FOR APCD USE ONLY:**

DATE STAMP	FILING FEE RECEIVED: \$ _____ /  DATE PAID: _____  PROJECT NO.: <u>S-1070219</u> FACILITY REGION & ID: <u>S-1128</u>
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*TVmm*

**San Joaquin Valley  
Unified Air Pollution Control District**

**TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM**

**I. TYPE OF PERMIT ACTION (Check appropriate box)**

- SIGNIFICANT PERMIT MODIFICATION       ADMINISTRATIVE  
 MINOR PERMIT MODIFICATION                       AMENDMENT

COMPANY NAME: <b>CHEVRON U.S.A. INC.</b>	FACILITY ID: <b>S - 1128</b>
1. Type of Organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
2. Owner's Name: <b>CHEVRON U.S.A. INC.</b>	
3. Agent to the Owner: <b>N/A</b>	

**II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):**

- Based on information and belief formed after reasonable inquiry, the emissions unit(s) identified in this application will continue to comply with the applicable federal requirement(s) which the emissions unit(s) is in compliance.
- Based on information and belief formed after reasonable inquiry, the emissions unit(s) identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true, accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

*Roger M. Buelow*  
Signature of Responsible Official

1-17-07  
Date

**Roger M. Buelow**

Name of Responsible Official (please print)

**Assistant Secretary**

Title of Responsible Official (please print)

San Joaquin Valley Air Pollution Control District  
www.valleyair.org

RECEIVED

DEC 12 2007

SJVAPCD

Southern Region

Permit Application For:

ADMINISTRATIVE AMENDMENT     MINOR MODIFICATION     SIGNIFICANT MODIFICATION

1. PERMIT TO BE ISSUED TO: <b>CHEVRON U.S.A INC.</b>	
2. MAILING ADDRESS: STREET/P.O. BOX: <b>P.O. BOX 1392</b> CITY: <b>Bakersfield</b> STATE: <b>CA</b> 9-DIGIT ZIP CODE: <b>93302</b>	
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: STREET: <b>Cymric Oilfield, Heavy Oil Western</b> CITY: _____ 1/4 SECTION: <b>Various</b> TOWNSHIP: <b>Various</b> RANGE: <b>Various</b>	INSTALLATION DATE: <b>December 2007/January 2008</b>
4. GENERAL NATURE OF BUSINESS: <b>Oil and Gas Production</b>	
5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary)  <b>Authority to Construct (ATC) documents S-1128-385-48 and S-1128-957-0 (copies attached) issued to Chevron U.S.A. Inc. (CUSA) without Certificate of Conformity. This Title V application has been submitted in accordance with Section 6.2 of District Rule 2520.</b>	
6. TYPE OR PRINT NAME OF APPLICANT: <b>Michael B. Jennings</b>	TITLE OF APPLICANT: <b>HES Manager</b>
7. SIGNATURE OF APPLICANT: 	DATE: <b>DEC 12, 2007</b> PHONE: (661) 654-7038 FAX: (661) 654-7606 EMAIL: john.gruber@chevron.com

For APCD Use Only: **NO \$**

DATE STAMP	FILING FEE RECEIVED: \$ _____ CHECK#: _____
	DATE PAID: _____
	PROJECT NO: <b>S-1075747</b> FACILITY ID: <b>S-1128</b>

*Title V - Minor Mod S-1128*

San Joaquin Valley  
Unified Air Pollution Control District

RECEIVED  
DEC 12 2007

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM  
SJVAPCD  
SPRINGFORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

- SIGNIFICANT PERMIT MODIFICATION                       ADMINISTRATIVE  
 MINOR PERMIT MODIFICATION                                       AMENDMENT

COMPANY NAME: <b>CHEVRON U.S.A. INC.</b>	FACILITY ID: <b>S - 1128</b>
1. Type of Organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
2. Owner's Name: <b>CHEVRON U.S.A. INC.</b>	
3. Agent to the Owner:	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

Michael B. Jennings  
Signature of Responsible Official

DEC 12, 2007  
Date

**Michael B. Jennings**

Name of Responsible Official (please print)

**Assistant Secretary**

Title of Responsible Official (please print)