



San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT



NOV 07 2013

Ashley Dahlstrom
Chevron U.S.A. Inc.
PO Box 1392
Bakersfield, CA 93302

RE: Notice of Final Action - Authority to Construct
Facility Number: S-1141
Project Number: S-1132787

Dear Mr. Dahlstrom:

The Air Pollution Control Officer has issued the Authority to Construct permit to Chevron U.S.A. Inc. for Authority to Construct for increasing flare S-1141-513's waste gas H₂S concentration limit from 40,000 pmv to 50,000 ppmv, at Station 1-09, Midway Sunset oilfield, in CUSA's Western Kern County Fields heavy oil stationary source (SW/4 Section 9, T32S, R23E). Enclosed are the Authority to Construct permit and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue the Authority to Construct permit was published on 8/13/13. The District's analysis of the proposal was also sent to CARB and US EPA Region IX on 8/8/13. No comments were received following the District's preliminary decision on this project.

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

Sincerely,

David Warner
Director of Permit Services

DW:DBT/st

Enclosures

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

Executive Director/Air Pollution Control Officer

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

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

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



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT



HEALTHY AIR LIVING™

AUTHORITY TO CONSTRUCT

PERMIT NO: S-1141-513-8

ISSUANCE DATE: 11/04/2013

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

LOCATION: HEAVY OIL WESTERN STATIONARY SOURCE
CA

SECTION: SW9 **TOWNSHIP:** 32S **RANGE:** 23E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 167 MM BTU/HR DUAL BLOWER AIR-ASSISTED EMERGENCY GROUND FLARE WITH KALDAIR AZDAIR PLA-12 FLARE TIP AND 9' DIA X 40' TALL FLAME ENCLOSURE SERVING TANK VAPOR RECOVERY EQUIPMENT LISTED ON S-1141-127, STATION 109: INCREASE WASTE GAS H2S CONCENTRATION LIMIT

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. This unit must be at least 1000 feet away from the property boundary. [District Rule 4102]
3. Flare shall be equipped with operational volumetric flow rate meter for each of the flared gas, pilot gas, and purge gas lines. [District Rules 2201 and 4311, 6.7] Federally Enforceable Through Title V Permit
4. A heat sensing device such as a thermocouple, ultraviolet beam 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
5. A flame shall be present at all times when combustible gases are introduced to the flare. [District Rule 4311, 5.2] Federally Enforceable Through Title V Permit
6. Flare shall operate with a pilot flame present at all times when combustible gases are introduced to the flare. [District Rule 4311, 5.3] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 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-1141-513-8 - Nov 5 2013 12:11PM - TORID Joint Inspection Required with TORID

7. 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 1/4 or 5% opacity. [District Rule 2010] Federally Enforceable Through Title V Permit
8. Flare shall be equipped with a purge gas and a continuous pilot, using solely PUC quality natural gas consisting primarily of methane containing no more than 5% by weight hydrocarbons heavier than butane. [District Rules 2201 and 4311, 5.3] Federally Enforceable Through Title V Permit
9. The total sulfur content of the pilot/purge gas shall not exceed 1.0 grain S/100 scf. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
11. Flare shall operate only in emergencies except for pilot and purge gas and up to 200 hours per year of flare testing and maintenance. [District Rule 2201 and 4311, 5.1] Federally Enforceable Through Title V Permit
12. Maximum daily gas flow to flare shall not exceed any of the following limits: 14,020 scf pilot and purge gas combined; or 4,000,000 scf TVR/produced gas during non-emergency testing and maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Emissions from pilot fuel and purge gas shall not exceed any of the following limits: NO_x (as NO₂): 0.068 lb/MM Btu; VOC: 0.063 lb/MM Btu; CO: 0.37 lb/MM Btu; PM₁₀: 0.026 lb/MM Btu; or SO_x (as SO₂): 0.00285 lb/MM Btu. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Emissions from TVR/produced gas during non-emergency testing and maintenance shall not exceed any of the following limits: NO_x (as NO₂): 0.068 lb/MM Btu; VOC: 0.063 lb/MM Btu; CO: 0.37 lb/MM Btu; PM₁₀: 0.026 lb/MM Btu; or SO_x (as SO₂): 16.864 lb/MM Btu. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Total sulfur content, as H₂S, of TVR/produced gas introduced to flare shall not exceed 50,000 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Permittee shall, at least annually, measure and record sulfur content of pilot/purge gas. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Pilot/purge gas sulfur content shall be determined using method ASTM D 1072, grab sample analysis by GC-FPD/TCD performed in the laboratory, or by certified copies of the gas sulfur content from the gas supplier. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The operator of a flare subject to flare minimization plans pursuant to Section 5.8 of Rule 4311 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, whichever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time. [District Rule 4311, 6.2.1] Federally Enforceable Through Title V Permit
19. The operator 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: 1) The results of an investigation to determine the primary cause and contributing factors of the flaring event; 2) Any prevention measures considered or implemented to prevent recurrence together with a justification for rejecting any measures that were considered but not implemented; 3) 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 4) The date, time, and duration of the flaring event. [District Rule 4311, 6.2.2] Federally Enforceable Through Title V Permit
20. The operator 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: 1) The total volumetric flow of vent gas in standard cubic feet for each day, 2) Hydrogen sulfide content of vent gas composition pursuant to Section 6.6, 3) 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, 4) Flare monitoring system downtime periods, including dates and times, 5) For each day and for each month provide calculated sulfur dioxide emissions, and 6) 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. [District Rule 4311, 6.2.3 and 6.3.5] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

21. Permittee shall submit an updated Flare Minimization Plan (FMP) 1) every five years after the initial FMP submittal, and 2) prior to installing new or modified equipment subject to 6.5.3.1 through 6.5.3.3. [District Rule 4311, 6.5] Federally Enforceable Through Title V Permit
22. Hydrogen sulfide content of vent gas shall be determined daily, on days when flaring occurs, using a calorimetric tube system and ASTM Method D 1945-96, ASTM Method UOP 539-97, ASTM Method D 4084-94, or ASTM Method D 4810-88. [District Rule 4311, 6.3.4.2 and 6.6.5] Federally Enforceable Through Title V Permit
23. 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
24. All required monitors and recording devices shall be maintained in accordance with the applicable manufacturer's specifications. [District Rule 4311, 6.9.3] Federally Enforceable Through Title V Permit
25. All in-line continuous analyzer and flow monitoring data shall 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
26. Permittee shall maintain accurate records of sulfur content and daily volume of TVR/produced gas, pilot gas, and purge gas introduced to flare. [District Rule 1070] Federally Enforceable Through Title V Permit
27. Permittee shall maintain accurate records of the hours of operation and the amount of TVR/produced gas combusted during maintenance and testing. [District Rule 1070] Federally Enforceable Through Title V Permit
28. 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: 1) A copy of the compliance determination conducted pursuant to Section 6.4.1, 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, 3) A copy of the approved flare minimization plan pursuant to Section 6.5, 4) On and after July 1, 2012, where applicable, a copy of annual reports submitted to the APCO pursuant to Section 6.2, and 5) Where applicable, monitoring data collected pursuant to Sections 5.10, 6.6, 6.7, and 6.9. [District Rule 4311, 6.1] Federally Enforceable Through Title V Permit
29. Records shall be retained for a minimum of 5 years and shall be made readily available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit