

FEB 24 2020

Mr. Brandon Chang
Chevron USA Inc
PO Box 1392
Bakersfield, CA 93302

Re: Final - Authority to Construct / Certificate of Conformity (Significant Mod)
Facility Number: S-1128
Project Number: S-1193708

Dear Mr. Chang:

The Air Pollution Control Officer has issued Authority to Construct (ATC) S-1128-934-16 with a Certificate of Conformity to Chevron USA Inc at Western Kern County. The project revises monitoring requirements for a flare. Enclosed are the ATC and a copy of the notice of final action that has been posted on the District's website (www.valleyair.org).

Notice of the District's preliminary decision to issue the ATC was posted on January 6, 2020. The District's analysis of the proposal was also sent to CARB and US EPA Region IX on January 6, 2020. No comments were received following the District's preliminary decision on this project.

Also enclosed is an invoice for the engineering evaluation fees pursuant to District Rule 3010. Please remit the amount owed, along with a copy of the attached invoice, within 60 days.

Prior to operating with the modifications authorized by the ATC, you must submit an application to modify the Title V permit as an administrative amendment in accordance with District Rule 2520, Section 11.5. Application forms are found on the District's website at www.valleyair.org/permits/TVforms.

Samir Sheikh
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

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

Sincerely,



Arnaud Marjollet
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: Gerardo C. Rios, EPA (w/enclosure) via EPS



AUTHORITY TO CONSTRUCT

PERMIT NO: S-1128-934-16

ISSUANCE DATE: 02/20/2020

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

LOCATION: HEAVY OIL WESTERN STATIONARY SOURCE
KERN COUNTY

SECTION: 31 **TOWNSHIP:** 29S **RANGE:** 22E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 14.8 MMBTU/HR FLARE WITH CONTINUOUS NATURAL GAS/LPG PILOT INCINERATING PRODUCED GAS: DELETE QUARTERLY MONITORING OF FLARED GAS MOISTURE CONTENT, REVISE FLARED GAS EMISSIONS FACTORS

CONDITIONS

1. This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Flares shall be designed for and operated with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)] Federally Enforceable Through Title V Permit
4. Demonstration of compliance with the visible emissions limit of this permit shall be conducted using EPA Method 22. Upon District request, a two hour observation shall be conducted. [40 CFR 60.18(f)(1)] Federally Enforceable Through Title V Permit
5. This flare shall be inspected every two weeks while in operation for visible emissions. The observation period shall be 15 minutes. If visible emissions are observed, corrective action shall be taken. If visible emissions continue, an EPA Method 9 test shall be conducted within 72 hours. [District Rule 2520, 9.4.2] 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.

Samir Sheikh, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services

6. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
7. Flares shall only be used with the net heating value of the gas being combusted being 200 Btu/scf or greater if the flare is non-assisted; or with the net heating value of the gas being combusted being 300 Btu/scf or greater if the flare is air-assisted or steam-assisted. [40 CFR 60.18 (c)(3)] Federally Enforceable Through Title V Permit
8. The higher heating value (hhv) of the gas being combusted in a flare shall be calculated annually, pursuant to 40 CFR 60.18(f)(3) and using EPA Method 18, ASTM D1946, and ASTM D2382. [40 CFR 60.18 (f)(3-6)] Federally Enforceable Through Title V Permit
9. Nonassisted and steam-assisted flares shall be operated with an exit velocity, as determined by the methods specified in 40 CFR 60.18 (f)(4), less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [40 CFR 60.18 (c)(4)(i)] Federally Enforceable Through Title V Permit
10. Nonassisted and steam-assisted flares may be operated with an exit velocity, as determined by the methods specified in 40 CFR 60.18 (f)(4), equal to or greater than 60 ft/sec, but less than 400 ft/sec if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [40 CFR 60.18 (c)(4)(ii)] Federally Enforceable Through Title V Permit
11. Nonassisted and steam-assisted flares may be operated with an exit velocity, as determined by the methods specified in 40 CFR 60.18 (f)(4), less than the velocity, V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [40 CFR 60.18 (c)(4)(iii)] Federally Enforceable Through Title V Permit
12. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [40 CFR 60.18 (f)(4)] Federally Enforceable Through Title V Permit
13. Flares shall be operated with a flame present at all times, and kept in operation when emissions may be vented to them. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18 (c)(2), 60.18 (e), and 60.18 (f)(2)] Federally Enforceable Through Title V Permit
14. If flare is not operating, gas shall not be vented to the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Gas flow rate to flare shall not exceed 335.2 MMBtu per day. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Gas flow rate to flare shall not exceed 2,000.6 MMBtu per year. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The combined daily flow rate of pilot and purge gas shall not exceed 20,000 dscf of natural gas per day or 5,580 scf/day (153.8 gal/day) of liquefied petroleum gas (LPG). [District Rules 2020 and 2201] Federally Enforceable Through Title V Permit
18. Concentration of sulfur (as H₂S) in gas flared shall not exceed 30,000 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Flare shall not be operated continuously for more than 30 consecutive days. Flare is not continuous when flaring has ceased for three (3) or more consecutive hours. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Permittee shall determine sulfur content of gas flared at least once per year using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Emissions from flared gas shall not exceed any of the following (based on total gas combusted): PM₁₀: 0.008 lb/MMBtu; NO_x (as NO₂): 0.068 lb/MMBtu; VOC: 0.056 lb/MMBtu; or CO: 0.31 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Emission rate from natural gas pilot and purge gas shall not exceed any of the following: NO_x (as NO₂) - 0.068 lb/MMBtu, SO_x - 0.00285 lb/MMBtu, PM₁₀ - 0.008 lb/MMBtu, CO - 0.310 lb/MMBtu, or VOC - 0.056 lb/MMBtu. [District Rule 2020] Federally Enforceable Through Title V Permit

23. Emission rate from LPG/propane pilot and purge gas shall not exceed any of the following: NO_x (as NO₂) - 0.14 lb/MMBtu, SO_x - 0.0164 lb/MMBtu, PM₁₀ - 0.0077 lb/MMBtu, CO - 0.082 lb/MMBtu, and VOC - 0.0087 lb/MMBtu. [District Rule 2020] Federally Enforceable Through Title V Permit
24. If the flare's actual NO_x emissions exceed 593 lb-NO_x per calendar year, the permittee must report to the District the annual NO_x emissions as calculated pursuant to paragraph 40 CFR 51.165(a)(6)(iii) and any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection). Such information must be submitted to the District for a period of 5 calendar years beginning the year of operation under ATC S-1128-934-14 and shall be submitted within 60 days of the end of each calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
25. If the flare's actual VOC emissions exceed 488 lb-VOC per calendar year, the permittee must report to the District the annual VOC emissions as calculated pursuant to paragraph 40 CFR 51.165(a)(6)(iii) and any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection). Such information must be submitted to the District for a period of 5 calendar years beginning the year of operation under ATC S-1128-934-14 and shall be submitted within 60 days of the end of each calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Permittee shall maintain daily and annual records of combined daily and annual heat input to the pilot/purge and flare (MMBtu/day, MMBtu/yr), calculated using daily and annual flow rates of pilot/purge gas and flare gas (dscf/day, dscf/yr) and hhvs of pilot/purge gas and flared gas, and annual records of pilot/purge gas and flared gas sulfur content. Records shall be kept for at least five years and shall be made readily available for District inspection upon request. [District Rules 2020 and 2201] Federally Enforceable Through Title V Permit