



FACILITY PERMIT TO OPERATE CHEVRON PRODUCTS CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
Process 20 : AIR POLLUTION CONTROL					
System 36 : SNR HYDROGEN PLANT CO CONTROL FLARE					S1.2, S1.3, S18.19
KNOCK OUT POT, V-2510, HYDROGEN VENT GAS; DIAMETER (ID): 3 FT 6 IN; HEIGHT: 12 FT 3 IN T-T A/N: 457255 <u>521770</u> Permit to Construct Issued: 08/17/07 <u>XX/XX/11</u>	D4115	D4114 C4116			
FLARE, GROUND FLARE, F-2510, ENCLOSED, SINGLE STAGE, 9 BURNERS, NON-ASSISTED, 4 NAT. GAS FIRED PILOTS, N2 PURGE OF FLARE GAS HEADER, CALLIDUS MODEL BTZ-TEGF, HEIGHT: 60 FT; DIAMETER: 21 FT A/N: 457255 <u>521770</u> Permit to Construct Issued: 08/17/07 <u>XX/XX/11</u>	C4116	D4115		CO: 2000 PPMV (5) [RULE 407, 4-2-1982] ; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981] ; PM: (9) [RULE 404, 2-7-1986]	B61.11, D12.29, D12.35, D28.32 , D381.4, H23.2, H23.46, K171.15

- * (1)(1A)(1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5)(5A)(5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits

- (2)(2A)(2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



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SYSTEM CONDITIONS

S1.2 The operator shall limit the number of flaring events due to startups to no more than ~~2~~ **4** event(s) in any one calendar year **and no more than 2 event(s) in any 30 day period.**

[RULE 1703 – PSD Analysis, 10-7-1988; CA PRC CEQA, 11-23-1970; RULE 1303(b)(2)-Offsets, 5-10-1996; RULE 1303(b)(2)-Offsets, 12-6-2002]

[Systems subject to this condition: Process 20, System 36]

S1.3 The operator shall limit the number of flaring events due to planned shutdowns to no more than ~~2~~ **4** event(s) in any one calendar year **and no more than 2 event(s) in any 30 day period.**

[RULE 1703 – PSD Analysis, 10-7-1988; CA PRC CEQA, 11-23-1970; RULE 1303(b)(2)-Offsets, 5-10-1996; RULE 1303(b)(2)-Offsets, 12-6-2002]

[Systems subject to this condition: Process 20, System 36]

S18.19 All affected devices listed under this process/system shall be used only to receive, recover, and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Steam Naphtha Reformer (SNR) (Process: 6, System: 4)

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 407, 4-2-1982]

[Systems subject to this condition: Process 20, System 36]

DEVICE CONDITIONS

B. Material/Fuel Type Limits

B61.11 The operator shall not use / combust vent gas containing the following specified compounds:

Compound	ppm by volume
H2S greater than	160

The H2S concentration limit shall be based on a rolling 3-hour averaging period.



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The H₂S concentration limit shall not apply to vent gas resulting from an emergency, shutdown, startup, process upset, or relief valve leakage.

[RULE 1118, 11-4-2005]

[Devices subject to this condition: C1746, C1749, C1757, C1785, C3012, C4116]

D. Monitoring/Testing Requirements

D12.29 The operator shall install and maintain a(n) thermocouple to accurately indicate the presence of a flame at the pilot light.

The operator shall also install and maintain a device to continuously record the parameter being measured.

This requirement only applies when the flare is put into active service.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition: C4116]

D12.35 The operator shall install and maintain a(n) thermocouple to accurately indicate the temperature at the flare stack.

The thermocouple shall extend into the flare cross-section a minimum of 8 inches beyond the flare wall insulation.

The thermocouple shall be located at a height of 8 to 12 feet below the top of the flare stack.

The operator shall also install and maintain a device to continuously record the temperature during any time that there is flow of SNR vent gas to the flare. For the purpose of this condition, continuous recording is defined as once every 60 seconds.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition: C4116]

~~D28.32 The operator shall conduct source test(s) in accordance with the following specifications:~~



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~~The test shall be conducted at the startup following the first planned shutdown of the SNR Hydrogen Plant following the issuance of a permit to construct under application number 457257.~~

~~The test shall be conducted during a time that SNR vent gas is being directed to the flare.~~

~~The test shall be conducted to determine the CO and NOx emissions (ppmv) at the outlet of the flare.~~

~~The District shall be notified of the date and time of the test at least 10 days prior to the test.~~

~~The test shall be conducted after District approval of a source test protocol submitted in accordance with Section E Administrative condition with the exception that the test protocol shall be submitted to the District no later than 30 days before the proposed test date.~~

~~The test shall be conducted and test report submitted to the District in accordance with Section E Administrative Conditions.~~

~~— [RULE 1303(b)(2) Offset, 5-10-1996; RULE 407, 4-2-1982]~~

~~— [Devices subject to this condition: C4116]~~

D381.4 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 23 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and



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The operator shall comply with the terms and conditions set forth below:

3). Date and time visible emissions abated.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984]

[Devices subject to this condition: C4116]

H. Applicable Rules

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

[40CFR 60 Subpart J, 6-24-2008]

[Devices subject to this condition: D471, D472, D473, D641, D643, D3031, D3778, D3973, C4116]

H23.46 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	District Rule	1118

[RULE 1118, 11-4-2005]

[Devices subject to this condition: C1746, C1749, C1757, C1785, C3012, C4116]

K. Recordkeeping/Reporting

K171.15 The operator shall provide to the District the following items:

Final drawings and/or specifications of the equipment installed/constructed shall be submitted to the SCAQMD within 60 days after its completion.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition: D4106, ~~C4116~~, D4354, D4355, D4356, D4357, D4358, D4359, C4360, C4361, D4362]