



## FACILITY PERMIT TO OPERATE PARAMOUNT PETR CORP (EIS USE)

### 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	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 15 : AIR POLLUTION CONTROL</b>					S13.2, S31.3, S56.1, S58.1
<b>System 1: FLARE VAPOR RECOVERY SYSTEM</b>					
DRUM, LIQUID SEAL, JOHN ZINK, LENGTH: 20 FT; DIAMETER: 10 FT A/N: 529077	D807				
COMPRESSOR, TWO STAGE, FLARE GAS VAPOR RECOVERY, 150 SCFM CAPACITY A/N: 529077	D808				H23.24
COMPRESSOR, TWO STAGE, FLARE GAS VAPOR RECOVERY, 150 SCFM CAPACITY A/N: 529077	D809				H23.24
KNOCK OUT POT, WITH DEMISTER A/N: 529077	D810				
KNOCK OUT POT, WITH DEMISTER A/N: 529077	D811				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 529077	D812				H23.2
<b>System 2: REFINERY FLARE SYSTEM</b>					S13.2 , S58.2
KNOCK OUT POT, D-723, LENGTH: 50 FT; DIAMETER: 10 FT A/N: 526353	D395				

- |   |  |
|---|--|
| * (1)(1A)(1B)Denotes RECLAIM emission factor          | (2)(2A)(2B)Denotes RECLAIM emission rate                   |
| (3) Denotes RECLAIM concentration limit               | (4) Denotes BACT emission limit                            |
| (5)(5A)(5B)Denotes command and control emission limit | (6) Denotes air toxic control rule limit                   |
| (7) Denotes NSR applicability limit                   | (8)(8A)(8B)Denotes 40 CFR limits(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits                     | (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.

† This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator



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FLARE, ELEVATED WITH STEAM INJECTION, NW-791, REFINERY GAS, HEIGHT: 100 FT; DIAMETER: 1 FT A/N: 526353	C396	D738		CO: 2000 PPMV (5)[RULE 407,4-2-1982] PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D12.3 D323.1 D323.2 E193.3 E193.5 H23.22
DRUM, D-806, RELIEF, W/ CONDENSING WATER SPRAYS, HEIGHT: 34 FT; DIAMETER: 5 FT A/N: 526353	D397				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 526353	D650				
<del>           Process 1: Crude Unit; Systems 1, 2, 4, 5, 6, 7            Process 2: Hydrotreating Unit; Systems 1, 3, 4            Process 3: Catalytic Reforming Unit; System 1            Process 6: Treating, Stripping; Systems 1, 2, 4, 5, 6, 7            Process 7: Sulfur Recovery Unit; System 2            Process 10: Storage Tanks; System 3            Process 13: Miscellaneous; System 6            Process 15: Flare Vapor Recovery System; System 1            Process 16: Isomerization; Systems 1, 2, 3         </del>					S56.1

* (1)(1A)(1B) Denotes RECLAIM emission factor	(2)(2A)(2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit	(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit	(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit	(8)(8A)(8B) Denotes 40 CFR limits (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits	(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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The operator shall comply with the terms and conditions set forth below:

**SYSTEM CONDITIONS**

S13.2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

<u>Contaminant</u>	<u>Rule</u>	<u>Rule/Subpart</u>
VOC	District Rule	1123

[Rule 1123, 12-7-1990]

[Systems subject to this condition: Process 1, System 1, 2, 4, 5, 6, 7; Process 2, System 1, 3, 4; Process 3, System 1; Process 6, System 1, 2, 4, 5, 6, 7; Process 13, System 6; Process 15, System 1, 2, 4; Process 16, System 1, 2, 3]

S31.3 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 477619 (Naphtha Hydrodesulfurization Unit, HDS #1), 477621 (Naphtha Splitter), 458560 (Flare Vapor Recovery System), 486510, Wastewater Separation Facility (Hydroprocessing Area):

All open-ended lines shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to a closed vent system.

All new light liquid pumps shall utilize double seals.

All compressors shall be equipped with a seal system with a higher pressure barrier fluid.

Prior to start of construction of the Naphtha Splitter, under A/N 477621, the operator shall replace Valve No. 1017 with a bellows-seal valve.

All new valves in VOC service, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be bellows seal valves, except as approved by the District, in the following applications: heavy liquid service, control valve, instrument piping/tubing, applications requiring torsional valve stem motion, applications where valve failure could pose safety hazard, retrofits/special applications with space limitations, and valves not commercially available.



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

All new valves and major components in VOC service as defined by Rule 1173, except those specifically exempted by Rule 1173 and those in heavy liquid service as defined in Rule 1173, shall be distinctly identified from other components through their tag numbers (e.g., numbers ending in the letter "N"), and shall be noted in the records.

All new components in VOC service as defined in Rule 1173, except valves and flanges, shall be inspected quarterly using EPA Reference Method 21. All new valves and flanges in VOC service, except those specifically exempted by Rule 1173, shall be inspected monthly using EPA Reference Method 21.

If 98.0 percent or greater of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 200 ppmv for two consecutive months, then the operator may change to a quarterly inspection program with the approval of the District.

The operator shall revert from quarterly to monthly inspection program if less than 98.0 percent of the new (non-bellows seal) valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate of less than 200 ppmv.

All components in VOC service except for pumps, compressors, and drains, a leak greater than 200 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

All pumps, compressors, and drains, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.

The operator shall keep records of the monthly inspection (quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District. Records shall be kept and maintained for at least five years, and shall be made available to Executive Officer of his authorized representative upon request.



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

**[Rule 1303(a)(1)-BACT, 5-10-1996; Rule 1303(a)(1)-BACT, 12-6-2002; Rule 1303(b)(2)-Offset, 5-10-1996; Rule 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition: Process 1, System 7; Process 2, System 1; Process 15, System 1]

S56.1

Vent gases from all affected devices of this process/system shall be directed to a gas recovery system, except for the venting of gases from equipment specifically identified in a permit condition, and for the following events for which vent gases may be directed to a flare:

1. Vent gases resulting from an Emergency as defined in Rule 1118; and
2. Vent gases resulting from Planned Shutdowns, Startups, and/or Turnarounds as defined in Rule 1118, provided that the owner/operator follows the applicable options and any associated limitations to reduce flaring that were identified, evaluated and most recently submitted by the owner/operator to the Executive Officer pursuant to Rule 1118, or any other option(s) which reduces flaring for such planned event; and
3. Vent gases due to and resulting from an Essential Operational Need as defined in Rule 1118.

The evaluation of options to reduce flaring during Planned Shutdowns, Startups and/or Turnarounds shall be updated annually to reflect any revisions, and submitted to the Executive Officer within thirty days from when the permit under A/N 526353 is issued for the first update and by March 31<sup>st</sup> for the subsequent annual updates.

This process/system shall not be operated unless its designated flare(s) are in full use and have valid permits to receive vent gases from this process/system.

**[Rule 1303(a)(1)-BACT, 5-10-1996; Rule 1303(a)(1)-BACT, 12-6-2002; Rule 1303(b)(2)-Offset, 5-10-1996; Rule 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition: Process 1, System 1, 2, 4, 5, 6, & 7; Process 2, System 1, 3, & 4; Process 3, System 1; Process 6, System 1, 2, 4, 5, 6 & 7; Process 7, System 2; Process 10, System 3; Process 13, System 6; Process 15, System 1; Process 16, System 1, 2 & 3]



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

S58.1 The Flare Vapor Recovery System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

Crude Unit (Process: 1, System: 1, 2, 4, 5, 6, & 7)  
Hydrotreating Unit (Process: 2, System: 1, 3, & 4)  
Catalytic Reforming Unit (Process: 3, System: 1)  
Treating, Stripping (Process: 6, System: 1, 2, 4, 5, 6 & 7)  
Sulfur Recovery Unit (Process: 7, System: 2)  
Storage Tanks (Process: 10, System: 3)  
Miscellaneous (Process: 13, System: 6)  
Isomerization (Penex Plus) Process (Process: 16, System: 1, 2 & 3)

The flare gas recovery system shall be operated in full use when any of the above Process(es) and System(s) is in operation. Full use means one of two compressor trains (Process 15, System 1) is online at any given time.

[**Rule 1303(a)(1)-BACT, 5-10-1996**; Rule 1303(a)(1)-BACT, 12-6-2002; **Rule 1303(b)(2)-Offset, 5-10-1996**; Rule 1303(b)(2)-Offset, 12-6-2002]  
[Systems subject to this condition: Process 15, System 1]

S58.2 The Refinery Flare System shall only be used to receive and handle vent gases from the following Process(es) and System(s):

Crude Unit (Process: 1, System: 1, 2, 4, 5, 6, & 7)  
Hydrotreating Unit (Process: 2, System: 1, 3, & 4)  
Catalytic Reforming Unit (Process: 3, System: 1)  
Treating, Stripping (Process: 6, System: 1, 2, 4, 5, 6 & 7)  
Sulfur Recovery Unit (Process: 7, System: 2)  
Storage Tanks (Process: 10, System: 3)  
Miscellaneous (Process: 13, System: 6)  
Flare Vapor Recovery System (Process: 15, System 1)  
Isomerization (Penex Plus) Process (Process: 16, System: 1, 2 & 3)

The flare gas recovery system shall be operated in full use when any of the above Process(es) and System(s) is in operation. Full use means one of two compressor trains (Process 15, System 1) is online at any given time.



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

**[Rule 1118, 11-4-2005]**

[Systems subject to this condition: Process 15, System 2]

### DEVICE CONDITIONS

D12.3 The operator shall install and maintain a(n) thermocouple or any other equivalent device to accurately indicate the presence of a flame at the pilot light.

**[Rule 1118, 11-4-2005; Rule 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR60 Subpart A, 4-9-1993]**

[Devices subject to this condition: C396]

D323.1 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 a bi-weekly basis whenever fuel oil is burned. The routine bi-weekly 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 that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1) Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2) Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emissions Evaluation", within three business days and report any deviations to AQMD.

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;



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

- 2) Description of any corrective actions taken to abate visible emissions;
- 3) Date and time visible emission was abated; and
- 4) All visible emission observation records by operator or a certified smoke reader.

**[Rule 3004(a)(4)-Periodic Monitoring, 12-12-1997; Rule 401, 11-9-2001]**

[Devices subject to this condition: C175, C396, C531]

D323.2

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 a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-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 that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1) Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2) Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emissions Evaluation", within three business days and report any deviations to AQMD.

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;



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

- 3) Date and time visible emission was abated; and
- 4) All visible emission observation records by operator or a certified smoke reader.

**[Rule 3004(a)(4)-Periodic Monitoring, 12-12-1997; Rule 401, 11-9-2001]**

[Devices subject to this condition: D80, D85, D87, D89, D181, D206, D273, D274, D274, C396, D527, D528]

E193.3 The operator shall operate and maintain this equipment according to the following specifications:

The operator shall comply with all applicable requirements specified by Section 60.18 of subpart A of the 40CFR60.

**[40CFR60 Subpart A, 4-9-1993]**

[Devices subject to this condition: C396]

E193.5 The operator shall operate and maintain this equipment according to the following specifications:

The assisted-steam system shall have the capability to deliver a maximum rate of 21,000 lb/hr of 100 psig steam to the flare flame.

**[Rule 401, 3-2-1984; Rule 401, 11-9-2001]**

[Devices subject to this condition: C396]

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

<u>Contaminant</u>	<u>Rule</u>	<u>Rule/Subpart</u>
VOC	District Rule	1173



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**[Rule 1173, 5-13-1994; Rule 1173, 2-6-2009]**  
[Devices subject to this condition: D616, D618, D657, D700, D701, D704, D706, D707, D708, D718, D803, D812, D816, D817, D818, D819, D829, D856]

H23.22 This equipment is subject to the applicable requirements of the following rules or regulations:

<u>Contaminant</u>	<u>Rule</u>	<u>Rule/Subpart</u>
SOX	District Rule	1118

**[Rule 1118, 11-4-2005]**  
[Devices subject to this condition: C396]

H23.24 This equipment is subject to the applicable requirements of the following rules or regulations:

<u>Contaminant</u>	<u>Rule</u>	<u>Rule/Subpart</u>
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGGa

**[Rule 1173, 5-13-1994; Rule 1173, 6-1-2007; 40CFR60 Subpart GGGa, 6-2-2008]**  
[Devices subject to this condition: D610, D808, D809]