



**FACILITY PERMIT TO OPERATE  
PARAMOUNT PETR CORP**

**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 6: TREATING/STRIPPING</b>					
<b>System 7: AMINE REGENERATION UNIT</b>				S13.2, S15.5, S31.x, S56.1	
COLUMN, W-208, AMINE REGENERATOR HEIGHT: 49 FT; DIAMETER: 7 FT A/N: 572516	D134				
KNOCK OUT POT, D-206, AMINE REGENERATOR COLUMN OVERHEAD ACID GAS, HEIGHT: 18 FT 6 IN; DIAMETER: 5 FT A/N: 572516	D139	C531			D90.x
TANK, SURGE, D-213, LEAN AMINE, LENGTH: 20 FT; DIAMETER: 8 FT 6 IN A/N: 572516	D142	C175			E336.1
SUMP, AMINE DRAIN SUMP, WIDTH: 5 FT; LENGTH: 5 FT; DEPTH: 10 FT A/N: 572516	D143				
TOWER, W-204, WASH WATER, HEIGHT: 29 FT 10 IN; DIAMETER: 2 FT 8 IN A/N: 572516	D834				
LEAN AMINE FILTER, D-209, HEIGHT: 3 FT 10 IN; DIAMETER: 1 FT 2 IN A/N: 572516	D835				
LEAN AMINE FILTER, D-210, HEIGHT: 3 FT 5 IN; DIAMETER: 1 FT 8 IN	D836				

- \* (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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A/N: 572516					
FILTER, D-220, CARBON, HEIGHT: 7 FT; DIAMETER: 4 FT A/N: 572516	D837				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 572516	D657				H23.2
<b>Process 15: AIR POLLUTION CONTROL</b>					
<b>System 3: INCINERATION SYSTEM SERVING ASPHALT BLOWING PLANT</b>					
INCINERATOR, H-907, NATURAL GAS, HEAT RECOVERY SECTION, 30 MMBTU/HR WITH A/N: 572517 BURNER, NORTH AMERICAN, MODEL NO.4131D	C531	C81 C86 C88 C90 D353 C566 C575 C576 C577 D579 C596 C597 C598 C599 C761 C763 C769 <u>D139</u>	NOX: MAJOR SOURCE SOX: MAJOR SOURCE	CO: 2000 PPMV (5) [ <b>RULE 407, 4-2-1982</b> ; <b>PM: (9) RULE 404,</b> <b>2-7-1986</b> ]; <b>PM: 0.1</b> GRAINS/SCF (5) <b>RULE 409, 8-7-1981</b> ]; <b>SO2: 20 PPMV (8)</b> [ <b>40CFR60</b> <b>SUBPART J,</b> <b>6-24-2008</b> ]	C1.23 C8.1 D28.4, D82.3 D323.1 E193.x H23.4
DRUM, D-932, SURGE, HOT OIL, COMMON TO ASPHALT PRODUCTION HEATERS HEIGHT: 7 FT 5 IN; DIAMETER: 5 FT 6 A/N: 447466	D901				E336.13
<b>System 4: SOX SCRUBBING SYSTEM SERVING ASPHALT BLOWING PLANT</b>					S13.2
SCRUBBER, PACKED BED, W-900, AMEREX TOWER, STAINLESS STEEL, HEIGHT: 23 FT; DIAMETER: 8 FT A/N: 535708	C566	C531 D569			C8.2

- |  |   |
|--|---|
| * (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             |

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
BURNER, NORTH AMERICAN, MODEL NO.4131D					
KNOCK OUT POT, D-931, HEIGHT: 12 FT 1 IN; DIAMETER: 7 FT 3/8 IN A/N: 535708	DXXX	C531			
HEATER, H-908, SCRUBBER OUTLET GAS REHEAT, NATURAL GAS, FORCED DRAFT, WITH DUCT BURNER, 8 MMBTU/HR WITH A/N: 353074	D569	C566	NOX: LARGE SOURCE	CO: 400 PPMV (5A) [RULE 1146, 11-17-2000; CO: 2000 PPMV (5) [RULE 407, 4-2-1982; PM: (9) RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) RULE 409, 8-7-1981]; NOX: 30 PPMV (4) RULE 1303(a)(1)-BACT, 5-10-1996;] RULE 1303(a)(1)-BACT, 12-6-2002]	C1.6

### CONDITIONS

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

**[Rule 1123, 12-7-1990]**

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

- \* (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 limits(e.g. NSPS, NESHAPS, etc.)
- (10) See Section J for NESHAP/MACT requirements

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

S15.5 The vent gases from all affected devices of this process/system shall be vented as follows:

All acid gas shall be directed to the Sulfur Recovery Unit (Process 7, System 1). However, all acid gas may be directed to the Caustic Storage and Scrubbing System (Process 6, System 6) in lieu of the Sulfur Recovery Unit during start up, shut down, malfunction of the Sulfur Recovery Unit. During normal operation of the Renewable Fuels units, acid gas shall be directed to the Caustic Storage and Scrubbing System or to the Incineration System serving the Asphalt Blowing Plant.

This process/system shall not be operated unless the Sulfur Recovery Unit and/or the Caustic Storage and Scrubbing System and/or Incineration System serving the Asphalt Blowing Plant is in full use and has a valid permit to receive vent gases from this 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 6, System 2, 7]

S31.x The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 572516 (Amine Regeneration Unit):

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 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.

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

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- (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 limits(e.g. NSPS, NESHAPS, etc.)
- (10) See Section J for NESHAP/MACT requirements

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

stem motion, applications where valve failure could pose safety hazard, retrofits/special applications with space limitations, and valves not commercially available.

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.

Inaccessible components, as defined in Rule 1173, shall be inspected annually, with the first inspection to occur within 90 days of the initiation of Renewable Fuels sour gases being directed to the incinerator.

All components in VOC service except for pumps, compressors and drains, a leak greater than 100 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, flange, connector 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 100 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.

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 100 ppmv for two consecutive months, then the operator may change to a quarterly inspection program with the approval of the District.

- \* (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 limits(e.g. NSPS, NESHAPS, etc.)
- (10) See Section J for NESHAP/MACT requirements

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### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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 100 ppmv.

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 or his authorized representative upon request.

**[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 6, System 7]

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;
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 events; 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 by March 31<sup>st</sup>.

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.

* (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

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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 1, 2, 4, 5, 6; Process 2, System 1, 3, 4, 6, 7 & 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; Process 18, System 1 & 2]

C1.6 The operator shall limit the fuel usage to no more than 182,000 cubic feet per day.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition: D569]

C1.23 The operator shall limit the firing rate to no more than 30 MMBtu per hour.

The operator shall also limit the firing rate to no more than 18 MMBtu/hr on an average daily basis.

For the purpose of this condition, firing rate shall be defined as the energy or heat input of the natural gas to the equipment combustion chamber based on the higher heating value (HHV) of the natural gas.

To comply with this condition, the operator shall install and maintain a flow meter to accurately indicate the natural gas usage of the incinerator.

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

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition: C531]

C8.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the firebox or in the ductwork immediately downstream from the firebox.

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- (3) Denotes RECLAIM concentration limit
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- (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 limits(e.g. NSPS, NESHAPS, etc.)
- (10) See Section J for NESHAP/MACT requirements

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

The measuring device or gauge shall be accurate to within plus or minus 50 degree F. It shall be calibrated once every 12 months.

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

**[Rule 1303(a)(1)-BACT, 5-10-1996; Rule 1303(a)(1)-BACT, 12-6-2002; Rule 3004(a)(4)-Periodic Monitoring, Rule 470, 5-7-1976]**

[Devices subject to this condition: C531]

D28.4 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the CO, PM, and ROG emissions at the outlet.

The test shall be conducted at least once every three years.

**[Rule 3004(a)(4)-Periodic Monitoring, 12-12-1997; Rule 404, 2-7-1986; Rule 407, 4-2-1982; Rule 409, 8-7-1981]**

[Devices subject to this condition: C531]

D82.3 The operator shall install and maintain a CEMS to measure the following parameter:

SOX concentration in ppmv

Concentration shall be corrected to zero percent excess air on a dry basis

Oxygen concentration in percent volume

The CEMS shall be installed in accordance with the requirements of 40CFR60 Subpart J.

**[40CFR60 Subpart J, 9-12-2012]**

[Devices subject to this condition: C531]

- \* (1)(1A)(1B) Denotes RECLAIM emission factor
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- (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 limits(e.g. NSPS, NESHAPS, etc.)
- (10) See Section J for NESHAP/MACT requirements

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

D90.x The operator shall sample and analyze VOC content at the outlet of the amine regenerator within 180 days of initial startup of the Renewable Fuels operation.

The test shall be conducted according to the test methods specified in Rule 1173(j)(2).

This condition shall be used to 1) determine if this equipment qualifies from Rule 1173 exemption pursuant to Rule 1173(l)(1)(D); and 2) ensure that the VOC content at the outlet of the Amine Regenerator while running Renewable Fuels will not exceed 1% by weight VOC for offset purposes.

[Rule 1173, 2-6-2009; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition: D139]

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

- |  |   |
|--|---|
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| (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             |

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

[Devices subject to this condition: C396, C531]

E193.x The operator shall restrict the operation of this equipment as follows:

Prior to operating this equipment, the “flapper vent” shall be blinded off permanently and that all emergency vent gases are directed to the stack without bypassing the CEMS.

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

[Devices subject to this condition: D139]

E336.1 The operator shall vent the vent gases from this equipment as follows:

All vent gases shall be directed to the tail gas incinerator (Device C175).

This equipment shall not be operated unless the tail gas incinerator (Device C175) is in full use and has a valid permit to receive vent gases from this equipment.

**[Rule 1303(a)(1)-BACT, 5-10-1996; Rule 1303(a)(1)-BACT, 12-6-2002; Rule 1176, 9-13-1996]**

[Devices subject to this condition: D142]

E336.13 The operator shall vent the vent gases from this equipment as follows:

- |  |   |
|--|---|
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| (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             |

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

All emergency vent gases shall be directed to the Flare Vapor Recovery System (Process 15, System 1). If the Flare Vapor Recovery System is operating at its capacity and is unable to receive additional vent gases, the emergency vent gases shall be directed to the Refinery Flare System (Process 15, System 2).

This equipment shall not be operated unless the Flare Vapor Recovery System and the Refinery Flare system are in full use and have a valid permit to receive vent gases from this equipment.

**[Rule 1303(a)(1)-BACT, 5-10-1996; Rule 1303(a)(1)-BACT, 12-6-2002]**  
[Devices subject to this condition: D901]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

**[Rule 1173, 2-6-2009]**  
[Devices subject to this condition: D617, D618, D621, D657, D700, D702, D704, D706, D707, D744, D812, D856, D942]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

**[40CFR60 Subpart J, 9-12-2012]**  
[Devices subject to this condition: D47, C531]

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(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

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