



FACILITY PERMIT TO OPERATE VALERO WILMINGTON ASPHALT PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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
Process 1 : CRUDE DISTILLATION					
System 3: HEATERS					
HEATER, VACUUM, H-1, NATURAL GAS, PROCESS GAS, REFINERY GAS, WITH LOW NOX BURNER, 19.3 MMBTU/HR WITH A/N: 467281	D13	D23		CO: 400 PPMV (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 40 PPMV (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	B61.1, D90.4, D328.1, D328.3, H23.13, H23.16
BURNER, NATURAL GAS, REFINERY GAS, JOHN ZINK, 5 BURNERS					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 467281	D150				H23.12
Process 7 : WASTEWATER TREATMENT					
System 1: WASTEWATER TREATMENT					
VESSEL, OILY WATER TREATER, D-7, HEIGHT: 9 FT 6 IN; DIAMETER: 5 FT A/N: 466936	D77				
MIXER, OILY WATER, D-11, WASTE WATER, HEIGHT: 5 FT; DIAMETER: 1 FT A/N: 466936	D78				
SUMP, WITH SKIMMER, DEPTH: 11 FT; DIAMETER: 7 FT A/N: 466936	D79	C109		VOC: 500 PPMV [RULE 1176, 9-13-1996]	H23.1
TANK NO. 19, RECOVERED OIL DECANTING, HEIGHT: 13 FT 1 ON; DIAMETER: 4 FT 1 IN A/N: 466936	D81	C109		VOC: 500 PPMV [RULE 1176, 9-13-1996]	H23.1
TANK, NO. 18, SLOP OIL TRANSFER, HEIGHT: 6 FT 3 IN; DIAMETER: 4 FT 1 IN A/N: 466936	D83	C109		VOC: 500 PPMV [RULE 1176, 9-13-1996]	H23.1
CARBON ADSORBER, MODEL VSC-200, 55 GALLON CAPACITY A/N: 466936	C109	D79 D81 D83			D90.5, E128.1, E153.1



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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
OIL WATER SEPARATOR, FLOATING ROOF, TK-3001, PRIMARY OIL RECOVERY, WITH AN OIL SKIMMER AND A 5-HP MIXER, HEIGHT: 28 FT; DIAMETER: 26 FT 9 IN WITH A/N: 466936 FLOATING ROOF WELDED SHELL PRIMARY SEAL, METALLIC SHOE	D111				H23.10
OIL WATER SEPARATOR, FLOATING ROOF, TK-3002, PRIMARY OIL RECOVERY, WITH AN OIL SKIMMER AND A 5-HP MIXER, HEIGHT: 28 FT; DIAMETER: 26 FT 9 IN WITH A/N: 466936 FLOATING ROOF WELDED SHELL PRIMARY SEAL, METALLIC SHOE	D112				H23.10
TANK, VERTICAL, V-3000 UNICEL, INDUCED GAS COALESCER AND FLOTATION SEPARATOR; HEIGHT: 6 FT; DIAMETER: 4 FT A/N: 466936	D113			VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.10
OIL WATER SEPARATOR, FLOATING ROOF, TK-3003, FINAL OIL RECOVERY, WITH AN OIL SKIMMER AND A 5-HP MIXER, HEIGHT: 28 FT; DIAMETER: 26 FT 9 IN WITH A/N: 466936 FLOATING ROOF, WELDED SHELL PRIMARY SEAL, METALLIC SHOE	D114				H23.10
OIL WATER SEPARATOR, FLOATING ROOF, TK-3004, FINAL OIL RECOVERY, WITH AN OIL SKIMMER AND A 5-HP MIXER, HEIGHT: 28 FT; DIAMETER: 26 FT 9 IN WITH A/N: 466936 FLOATING ROOF, WELDED SHELL PRIMARY SEAL, METALLIC SHOE	D115				H23.10
KNOCK OUT POT, D-3005, HEIGHT: 6 FT 6 IN; DIAMETER: 1 FT 6 IN A/N: 466936	D124	D113			



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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
DRAIN SYSTEM COMPONENT A/N: 466936	D174				H23.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 466936	D161				H23.12
Process 9 : STEAM GENERATION					P18.1
BOILER, H-2A, NATURAL GAS, PROCESS GAS, REFINERY GAS, CLEAVER-BROOKS, MODEL CR-200-350, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 14.65 MMBTU/HR WITH A/N: 467283 BURNER, NATURAL GAS, REFINERY GAS, ONE BURNER	D63		NOX: LARGE SOURCE	CO: 400 PPMV (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 40 PPMV (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	B61.1, D90.4, D328.1, D328.3, H23.13, H23.16
BOILER, H-2B, NATURAL GAS, PROCESS GAS, REFINERY GAS, CLEAVER-BROOKS, MODEL CR-200-350, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 14.65 MMBTU/HR WITH A/N: 467284 BURNER, NATURAL GAS, REFINERY GAS, ONE BURNER	D64		NOX: LARGE SOURCE	CO: 400 PPMV (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 40 PPMV (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 500 PPMV (5) [RULE 407, 4-2-1982]	B61.1, D90.4, D328.1, D328.3, H23.13, H23.16
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 467284	D206				H23.12

PROCESS CONDITIONS

P18.1 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:

Gas Oil/Naphtha Tank Truck Loading (Process: 5, System: 0)

Crude Distillation Unit (Process: 1, System:1)



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

Fuel Gas Treating (Hiperion Unit) (Process: 1, System: 1)

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

[Processes subject to this condition: 9]

SYSTEM CONDITIONS

S18.1 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:

Fuel Gas Treating (Process: 3, System: 1)

Gas Oil/Naphtha Tank Truck Loading (Process: 5, System: 0)

Crude Distillation Unit (Process: 1, System: 1)

[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 3]

DEVICE CONDITIONS

B. Material/Fuel Type Limits

B61.1 The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume
H2S greater than	160

The H2S concentration limit of 160 ppm shall be based on a rolling 3-hour averaging period at the standard conditions of 60 F and 14.7 psia, as defined in Rule 102. This H2S concentration is equivalent to 162 ppm at the standard conditions of 68 F and 29.92” Hg, as defined in 40CFR 60 Subpart A.



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

[40CFR 60 Subpart J, 9-12-2012]

[Devices subject to this condition: D13, D63, D64]

D. Monitoring/Testing Requirements

D90.4 The operator shall continuously monitor the H₂S concentration in the fuel gas before being burned in this device according to the following specifications:

The operator shall use an NSPS Subpart J approved instrument meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

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

The operator may monitor the H₂S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H₂S in the fuel has being burned in this device.

[40CFR 60 Subpart J, 9-12-2012]

[Devices subject to this condition: D13, D63, D64]

D90.5 The operator shall periodically monitor the VOC concentration at the outlet of the canister according to the following specifications:

The operator shall monitor once every day.

The operator shall use a District approved Organic Vapor Analyzer (OVA) to monitor the parameter.

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.

[RULE 1176, 9-13-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition: C109]



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

D328.1 The operator shall determine compliance with the CO emission limit(s) either (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO emission limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 3004(a)(4) – Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition: D13, D63, D64]

D328.1 The operator shall determine compliance with the total sulfur compound (as SO₂) emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 7.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the SO_x emission limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 3004(a)(4) – Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]

[Devices subject to this condition: D13, D63, D64]

E. Equipment Operation/Construction Requirements

E128.1 The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is being transferred into or out of container.

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

[Devices subject to this condition: C86, C109, C189, C190]

E153.1 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough occurs when the VOC monitor reading indicates a concentration of 500 ppmv at the outlet of each carbon adsorber.

[RULE 1303(a)(1)-BACT, 05/10/1996; RULE 1303(a)(1)-BACT, 12/06/2002]



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

[Devices subject to this condition: C86, C109]

H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176

[RULE 1176, 9-13-1996]

[Devices subject to this condition: D79, D81, D83, D174]

H23.10 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176
VOC	40CFR60, SUBPART	QQQ

[RULE 1176, 9-13-1996; 40CFR 60 Subpart QQQ, 10-14-2000]

[Devices subject to this condition: D111, D112, D113, D114, D115]

H23.12 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173



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[RULE 1173, 2-2009]

[Devices subject to this condition: D148, D149, D150, D151, D153, D154, D155, D156, D157, D159, D160, D161, D162, D163, D206, D208]

H23.13 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, 9-12-2002]

[Devices subject to this condition: D13, D63, D64]

H23.16 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
CO	District Rule	1146

[RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]

[Devices subject to this condition: D13, D63, D64]