



## FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

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

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

**In addition to the following changes to Process 1, System 1 in Section H, the permit for the equipment under Process 3, System 1 will be moved from Section D to Section H.**

Additions are noted in bold underlines. Deletions are noted by ~~strikeouts~~.

Equipment	ID No.	Connected To	Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
<b>Process 1: HYDROGEN PRODUCTION PLANT (Refinery Gas/Steam Reforming)</b>					
<b>System 1: HYDROGEN PRODUCTION – 88.0 MMSCFD MAXIMUM RATED CAPACITY</b>					S2.1, S13.1, <b><u>S15.x</u></b> , S31.1
VESEL, V-119, FEED COMPRESSOR SUCTION, LENGTH: 11 FT 4 IN; DIAMETER: 6 FT A/N: <del>547681</del> <b><u>561635</u></b> Permit to Construct Issued: <del>01/02/14</del> <b><u>yy/vv/14</u></b>	D1				
VESEL, V-133, PROCESS OILY WATER, HEIGHT: 11 FT 10 IN; DIAMETER: 3 FT A/N: <del>547681</del> <b><u>561635</u></b> Permit to Construct Issued: <del>01/02/14</del> <b><u>yy/vv/14</u></b>	D2				E336.2
FILTER, X-110A/B, FEED GAS COMPRESSOR, 2 TOTAL, 20 CU.FT. CAPACITY EACH A/N: <del>547681</del> <b><u>561635</u></b> Permit to Construct Issued: <del>01/02/14</del> <b><u>yy/vv/14</u></b>	D3				
COMPRESSOR, C-101A/B, DUAL SERVICES, 2 TOTAL, 7,500 HP EACH WITH BUFFERED PACKING SEALS A/N: <del>547681</del> <b><u>561635</u></b> Permit to Construct Issued: <del>01/02/14</del> <b><u>yy/vv/14</u></b>	D4				E336.3
HEAT EXCHANGER, E-101/E-104, FG 1A/1B 1ST STAGE FEED DISCHARGE COOLER, 2 TOTAL, 2.81 MMBTU/HR EACH A/N: <del>547681</del> <b><u>561635</u></b> Permit to Construct Issued: <del>01/02/14</del> <b><u>yy/vv/14</u></b>	D6				
KNOCK OUT POT, V-131A/B, FEED INTERSTAGE, 2 TOTAL, HEIGHT: 9 FT; DIAMETER: 3 FT 6 IN; A/N: <del>547681</del> <b><u>561635</u></b> Permit to Construct Issued: <del>01/02/14</del> <b><u>yy/vv/14</u></b>	D8				



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<b>Process 1: HYDROGEN PRODUCTION PLANT (Refinery Gas/Steam Reforming)</b>					
HEAT EXCHANGER, E-102/E117, FEED COMPRESSOR DISCHARGE COOLER, 2 TOTAL, 2.74 MMBTU/HR EACH A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vy/14</b>	D10				
VESSEL, COALESCER, V-102A/B, FEED COMPRESSOR DISCHARGE, 2 TOTAL, HEIGHT: 5 FT; DIAMETER: 1 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vy/14</b>	D12				
REACTOR, V-104, HYDROGENATION, WITH CHLORIDE GUARD, LENGTH: 20 FT; DIAMETER: 8 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vy/14</b>	D14				
VESSEL, V-105A/B, FEED DESULFURIZER, 2 TOTAL, LENGTH: 19 FT; DIAMETER: 9 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vy/14</b>	D15				
REACTOR, H101, REFINERY GAS/STEAM REFORMING, TUBULAR TYPE A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vy/14</b>	D49				
HEAT EXCHANGER, E-103, PROCESS GAS, 163.5 MMBTU/HR, SHELL AND TUBE TYPE A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vy/14</b>	D17				
REACTOR, V-109, HIGH TEMPERATURE SHIFT, LENGTH: 19 FT; DIAMETER: 11 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vy/14</b>	D18				
HEAT EXCHANGER, E-105, FEED PRETREATER II, 12.76 MMBTU/HR, SHELL AND TUBE TYPE A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/04</del> <b>yy/vy/14</b>	D19				



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Equipment	ID No.	Connected To	Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
<b>Process 1: HYDROGEN PRODUCTION PLANT (Refinery Gas/Steam Reforming)</b>					
HEAT EXCHANGER, E-106A, BFW PRETREATER I, 47.0 MMBTU/HR, SHELL AND TUBE TYPE A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D20				
HEAT EXCHANGER, E-106B/C, BFW PRETREATER II, 67.01 MMBTU/HR, SHELL AND TUBE TYPE, 2 TOTAL A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D21				
REACTOR, V-110, LOW TEMPERATURE SHIFT, LENGTH: 16 FT; DIAMTER: 11 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D22				
HEAT EXCHANGER, E-107, FEED PRETREATER I, 5.0 MMBTU/HR, SHELL AND TUBE TYPE A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D23				
HEAT EXCHANGER, E-108, BFW MAKEUP HEATER, 49.0 MMBTU/HR, SHELL AND TUBE TYPE A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D24				
HEAT EXCHANGER, E-109, PSA FEED AIR COOLER, 47.57 MMBTU/HR, FIN- FAN TYPE A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D25				
HEAT EXCHANGER, E-110, PSA FEED TRIM COOLER, 15.85 MMBTU/HR, SHELL AND TUBE TYPE A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D26				
KNOCK OUT POT, V-112, COLD CONDENSATE, LENGTH: 11 FT 10 IN; DIAMTER: 7 FT 3 IN A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D27				



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Equipment	ID No.	Connected To	Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
<b>Process 1: HYDROGEN PRODUCTION PLANT (Refinery Gas/Steam Reforming)</b>					
ADSORBER, X-101A-J, PRESSURE SWING ADSORPTION (PSA) UNIT, 10 TOTAL, DIAMETER: 10 FT 6 IN; HEIGHT: 21 FT 6 IN EACH A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D28				D90.3, E336.1
VESSEL, V-113A/B, PSA PURGE GAS, 2 TOTAL, DIAMETER: 12 FT; HEIGHT: 80 FT EACH A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D29				
HEATER, E-451, METHANATOR PRE-HEAT, 75 KW ELECTRICALLY HEATED A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D66				
REACTOR, V-451, METHANATOR, LENGTH: 5 FT; DIAMETER: 4 FT 6 IN A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D67				
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-452, ECONOMIZER, METHANATOR PRODUCT, 0.461 MMBTU/HR A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D68				
COOLER, E-455, PURE H2 PRODUCT CONDENSER, CRYOQUIP MODEL NO. VAI-1248-SSBL23, 0.092 MMBTU/hr., AMBIENT VAPORIZER A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D69				
VESSEL, V-452A/B, MOLECULAR SIEVE DRIER, WITH REGENERATION VENT TO ATMOSPHERE, 2 IN PARALLEL, LENGTH: 7 FT; DIAMETER: 2 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D70			CO: 2000 PPMV (5) [RULE 407, 4-2-1982]	D28.2, D332.1, E336.4
COMPRESSOR, E-453/454, PURE H2 PRODUCT, 2 TOTAL, 100 HP EACH A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D71				



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Equipment	ID No.	Connected To	Source Type/ Monitoring Unit	Emissions And Requirements	Conditions
<b>Process 1: HYDROGEN PRODUCTION PLANT (Refinery Gas/Steam Reforming)</b>					
LOADING ARM, H2 TRAILER, STANCHIONS A/B, PURE H2 PRODUCT, 2 TOTAL A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D72				
VESSEL, V-114, STEAM DEAERATOR, TWO SECTIONS, WITH UPPER SECTION VENTED TO ATMOSPHERE, LENGTH: 22 FT; DIAMETER: 9 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D31			CO: 2000 PPMV (5) [RULE 407, 4- 2-1982]	D332.1, <b>D29.x, I1.x</b>
TANK, V-137, CONDENSATE BREAK, <del>VENTED TO ATMOSPHERE</del> , HEIGHT: 7 FT; DIAMETER: 6 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D32	<b>C46</b>		CO: 2000 PPMV (5) [RULE 407, 4- 2-1982]	<del>D332.1,</del> <b>D90.x,</b> <b>E336.2, I1.x</b>
VESSEL, V-107, BLOWDOWN, LENGTH: 11 FT 4 IN; DIAMETER: 4 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D33				
VESSEL, V-108, STEAM, HEIGHT: 50 FT; DIAMETER: 9 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D34				
VESSEL, V-129, INTERMITTENT BLOWDOWN, VENTED TO ATMOSPHERE, HEIGHT: 11 FT 4 IN; DIAMETER: 4 FT A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D35			CO: 2000 PPMV (5) [RULE 407, 4- 2-1982]	D332.1, <b>D29.x, I1.x</b>
CONDENSER, E-130, SURFACE, LENGTH: 32 FT; DIAMETER: 8 FT 8 IN A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D36				
TURBINE, T-101, STEAM, GENERAL ELECTRIC, DOUBLE EXTRACTION, NON-FIRED TYPE WITH A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>01/02/14</del> <b>yy/vv/14</b>	D37				
GENERATOR, ELECTRIC, 31.9 MW					



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<b>Process 1: HYDROGEN PRODUCTION PLANT (Refinery Gas/Steam Reforming)</b>					
FUGITIVE EMISSIONS, MISCELLANEOUS (PUMPS, COMPRESSORS, VALVES, FLANGES, PRV) A/N: <del>547681</del> <b>561635</b> Permit to Construct Issued: <del>04/02/14</del> <b>yy/vv/14</b>	D52				H23.2
<b>Process 3: FLARE</b>					
<b>System 1: FLARE</b>					<b>S18.x</b> , S31.1
FLARE, X-113, GROUND LEVEL, WITH A CYCLONE SEPARATOR, HEIGHT: 68 FT; DIAMETER: 32 FT A/N: <del>293423</del> <b>561636</b> <b>Permit to Construct Issued: yy/vv/14</b>	C46	<b>D32</b>		CO: 2000PPMV (5) [RULE 407, 4-2-1982]; PM (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B61.1, D12.3, D12.4, D90.3, H23.11
FUGITIVE EMISSIONS, MISCELLANEOUS, (PUMPS COMPRESSORS, VALVES, FLANGES, PRV) A/N: <del>293423</del> <b>561636</b> <b>Permit to Construct Issued: yy/vv/14</b>	D56				H23.2

**CONDITIONS:**

*Facility Conditions:*

**F52.x This facility is subject to the applicable requirements of the following rules or regulation(s):**

**40CFR 60 Subpart A**

**[40CFR 60 Subpart A, 4-4-2014]**

*System Conditions:*

S2.1 The operator shall limit emissions from this system as follows

CONTAMINANT	EMISSION LIMIT
VOC	Less than 2.5 lbs / mmscf of hydrogen produced



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

A totalizing flow meter shall be installed and maintained to accurately indicate and record the flow rate of hydrogen produced.

**[RULE 1189, 1-21-2000]**

[Systems subject to this condition: Process 1, System 1]

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1189

**[RULE 1189, 1-21-2000]**

[Systems subject to this condition: Process 1, System 1]

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

**All vent gases shall be directed to the flare system except Devices IDs D31, D35 and D70 that vent to the atmosphere.**

**This process/system shall not be operated unless the flare system 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(b)(2)-Offset, 5-10-1996]**

**[Systems subject to this condition Process 1, System 1]**

**S18.x 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:**

**Hydrogen Production Plant (Process: 1, System: 1)**

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

**[Systems subject to this condition: Process 3, System 1]**



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

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 310073, 310075 & 293123:

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 Method 21.

All new components in VOC service, except pressure relief devices for which a leak in excess of 200 ppmv shall be repaired within 5 days of detection, a leak greater than 500 ppmv but less than 1,000 ppmv, as methane, measured above background using EPA Method 21 shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief valve, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

All new valves greater than 2-inch size and major components in VOC service as defined by Rule 1173, except those specifically exempted by 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 valves in VOC service, except those specifically exempted by Rule 1173, shall be bellows seal valves for 2-inch and smaller sizes, 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 (e.g., drain valves with valve stems in horizontal position), retrofits/special applications with space limitations, and valves not commercially available.

If 98.0 percent or greater of the new valve and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator shall revert to a quarterly inspection program with the approval of the executive officer. This condition shall not apply to bellow sealed valves.

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repairs and reinspections, in a manner approved by the District.



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

The operator shall provide to the District, no later than 60 days after initial startup, a plot plan or piping and instrumentation diagrams with a listing showing by functional grouping, location, type, accessibility, and application of each new valve in VOC service.

**[RULE 1303(a)(1)-BACT, 5-10-1996]**

[Systems subject to this condition: Process 1, System 1, 2; Process 3, System1]

***Device Conditions:***

**B. Material/Fuel Type Limitations**

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

Compound	ppm by volume
Total Sulfur greater than	40

The total sulfur compounds, calculated as hydrogen sulfide, are averaged over 4-hour period.

**[RULE 431.1, 6-12-1998]**

[Devices subject to this condition: C46]

**D. Monitoring/Testing Requirements**

D12.3 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.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition: C46]

D12.4 The operator shall install and maintain a(n) thermocouple to accurately indicate the temperature at the flare stack.



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

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

The thermocouple shall be located at a height of 5 to 8 feet from 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 syngas or PSA offgas 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]**

[Devices subject to this condition: C46]

D28.2 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted during the first drier regeneration following startup of this equipment while H2 product is being vented.

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 to determine the CO emissions.

The test shall be conducted to determine the CH4 emissions.

The test shall be conducted to determine the VOC emissions.

**[RULE 1301(b)(1), 12-7-1995; RULE 1703 - PSD Analysis, 10-7-1988; RULE 1714, 11-5-2010]**

[Devices subject to this condition: D70]

**D29.x The operator shall conduct source test(s) for the pollutant(s) identified below:**

<u>Pollutant(s) to be tested</u>	<u>Required Test Method(s)</u>	<u>Averaging Time</u>	<u>Test Location</u>
<u>CO</u>	<u>District Approved</u>	<u>15 Mins</u>	<u>Combined Atmospheric Vent</u>



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

**The test shall determine and report the concentration and mass emission rate for CO.**

**The test may commence without prior approval from the District, if it is conducted according to a source test protocol previously approved by the District for this equipment. A copy of the approval letter shall be submitted to the District at least 30 days prior to the test.**

**With AQMD approval of the source test protocol, the test shall be conducted within 60 days after the atmospheric vent stream of condensate break tank (V-137) has been re-routed to ground flare (C46) for disposal. The test shall be conducted annually thereafter (with a minimum interval of 10 months between tests) to demonstrate compliance with the CO concentration limit of Rule 407.**

**The source test shall be conducted when the hydrogen plant is operating at least 80 percent of the maximum rated capacity or within a capacity range approved by the District.**

**The operator shall comply with all general testing, monitoring, reporting, and recordkeeping requirements in Sections E and K of this permit.**

**The requirement of this condition shall no longer be applicable after two successive annual tests demonstrating compliance with the CO concentration limit of Rule 407.**

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

**[Devices subject to this condition: D31, D35]**

D90.3 The operator shall continuously monitor the H<sub>2</sub>S concentration of fuel gas before being burned in this device according to the following specifications:

The operator shall use a total sulfur fuel gas analyzer approved by the District to monitor the parameter.

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



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

The operator may monitor the H<sub>2</sub>S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H<sub>2</sub>S in the fuel gas being burned in this device.

The operator shall install and maintain a totalizing fuel meter to accurately indicate the amount of fuel being used at the facility.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 431.1, 6-12-1998]**

[Devices subject to this condition: D28, C46]

**D90.x The operator shall periodically monitor the composition and HHV of the vent gas from condensate break tank V-137 according to the following specifications:**

**For the purpose of this condition, ‘periodically monitor’ shall be defined as source testing within 60 days after the vent from V-137 (D32) has been rerouted to the flare (C46) and once per year thereafter to determine and record the parameter being monitored.**

**The source test shall be conducted in accordance with AQMD-approved test protocol and test method using EPA TO-15 and ASTM D3588/D1945 for gas composition and HHV, respectively.**

**The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.**

**The requirement of this condition shall no longer be applicable after two successive annual tests demonstrating the gas composition and HHV remain fixed.**

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

**[Devices subject to this condition: D32]**

D332.1 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-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.



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

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

[Devices subject to this condition: D31, ~~D32~~, D35, D70]

#### E. Equipment Operation/Construction Requirements

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

All PSA purge gases shall be vented to the heater (Device D38) except during emergencies, process upset, startup, or shutdown.

This equipment shall not be operated unless the heater 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(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition: D28]

E336.2 The operator shall vent the vent gases from this equipment as follows:

All vent gases shall be vented to the flare (Process 3, System 1).

This equipment shall not be operated unless the flare 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(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition: D2, D32]

E336.3 The operator shall vent the vent gases from this equipment as follows:

All vent gases from the buffered packing seals shall be vented to the flare (Process 3, System 1).

This equipment shall not be operated unless the flare 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(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition: D4]



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

E336.4 The operator shall vent the vent gases from this equipment as follows:

The drier regeneration vent shall vent to atmosphere only during periods of drier regeneration. Drier regeneration shall occur no more than once per day.

[RULE 1714, 11-5-2010]

[Devices subject to this condition: D70]

**H. Applicable Rules**

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, 6-1-2007~~; **RULE 1173, 2-6-2009**]

[Devices subject to this condition: D52, D56]

H23.11 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**; ~~40CFR60 Subpart A, 4-9-1993~~]

[Devices subject to this condition: C46]

**I1.x The operator shall comply with all the requirements of the condition and compliance schedule as specified in the variance case no. 4276-14, issued on March 6, 2014, in accordance with the order and decision of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the order and decision. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance**



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

**were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.**

**The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).**

**[RULE 3004(a)(10)(C), 12-12-1997]**

**[Devices subject to this condition: D31, D32, D35]**