

FACILITY PERMIT TO OPERATE

**AIR PRODUCTS AND CHEMICALS, INC.
700 N HENRY FORD AVE
WILMINGTON, CA 90744**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By _____
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

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FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

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: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
System 1: HYDROGEN PRODUCTION - 88.0 MMSCFD Maximum Rated Capacity					S2.1, S13.1, S31.1
VESSEL, V-119, FEED COMPRESSOR SUCTION, LENGTH: 11 FT 4 IN; DIAMETER: 6 FT A/N:	D1				
VESSEL, V-133, PROCESS OILY WATER, HEIGHT: 11 FT 10 IN; DIAMETER: 3 FT A/N:	D2				E336.2
FILTER, X-110A/B, FEED GAS COMPRESSOR, 2 TOTAL, 20 CU.FT. CAPACITY EACH A/N:	D3				
COMPRESSOR, C-101A/B, DUAL SERVICES, 2 TOTAL, 7,500 HP EACH WITH BUFFERED PACKING SEALS A/N:	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:	D6				
KNOCK OUT POT, V-131A/B, FEED INTERSTAGE, 2 TOTAL, HEIGHT: 9 FT ; DIAMETER: 3 FT 6 IN A/N:	D8				
HEAT EXCHANGER, E-102/E117, FEED COMPRESSOR DISCHARGE COOLER, 2 TOTAL, 2.74 MMBTU/HR EACH A/N:	D10				

- * (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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Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
VESSEL, COALESCER, V-102A/B, FEED COMPRESSOR DISCHARGE, 2 TOTAL, HEIGHT: 5 FT ; DIAMETER: 1 FT A/N:	D12				
REACTOR, V-104, HYDROGENATION, WITH CHLORIDE GUARD, LENGTH: 20 FT ; DIAMETER: 8 FT A/N:	D14				
VESSEL, V-105A/B, FEED DESULFURIZER, 2 TOTAL, LENGTH: 19 FT ; DIAMETER: 9 FT A/N:	D15				
REACTOR, H101, REFINERY GAS/STEAM REFORMING, TUBULAR TYPE A/N:	D49				
HEAT EXCHANGER, E-103, PROCESS GAS, 163.5 MMBTU/HR, SHELL AND TUBE TYPE A/N:	D17				
REACTOR, V-109, HIGH TEMPERATURE SHIFT, LENGTH: 19 FT ; DIAMETER: 11 FT A/N:	D18				
HEAT EXCHANGER, E-105, FEED PREHEATER II, 12.76 MMBTU/HR, SHELL AND TUBE TYPE A/N:	D19				

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
HEAT EXCHANGER, E-106A, BFW PREHEATER I, 47.0 MMBTU/HR, SHELL AND TUBE TYPE A/N:	D20				
HEAT EXCHANGER, E-106B/C, BFW PREHEATER II, 67.01 MMBTU/HR, SHELL AND TUBE TYPE, 2 TOTAL A/N:	D21				
REACTOR, V-110, LOW TEMPERATURE SHIFT, LENGTH: 16 FT ; DIAMETER: 11 FT A/N:	D22				
HEAT EXCHANGER, E-107, FEED PREHEATER I, 5.0 MMBTU/HR, SHELL AND TUBE TYPE A/N:	D23				
HEAT EXCHANGER, E-108, BFW MAKEUP HEATER, 49.0 MMBTU/HR, SHELL AND TUBE TYPE A/N:	D24				
HEAT EXCHANGER, E-109, PSA FEED AIR COOLER, 47.57 MMBTU/HR, FIN-FAN TYPE A/N:	D25				
HEAT EXCHANGER, E-110, PSA FEED TRIM COOLER, 15.85 MMBTU/HR, SHELL AND TUBE TYPE A/N:	D26				

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 (5) (5A) (5B) Denotes command and control emission limit
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 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
KNOCK OUT POT, V-112, COLD CONDENSATE, LENGTH: 11 FT 10 IN; DIAMETER: 7 FT 3 IN A/N:	D27				
ADSORBER, X-101A-J, PRESSURE SWING ADSORPTION (PSA) UNIT, 10 TOTAL, DIAMETER: 10 FT 6 IN; HEIGHT: 21 FT 6 IN EACH A/N:	D28				D90.3, E336.1
VESSEL, V-113A/B, PSA PURGE GAS, 2 TOTAL, DIAMETER: 12 FT; HEIGHT: 80 FT EACH A/N:	D29				
VESSEL, V-114, STEAM DEAERATOR, TWO SECTIONS, WITH UPPER SECTION VENTED TO ATMOSPHERE, LENGTH: 22 FT ; DIAMETER: 9 FT A/N:	D31			CO: 2000 PPMV (5) [RULE 407, 4-2-1982]	D332.1
TANK, V-137, CONDENSATE BREAK, VENTED TO ATMOSPHERE, HEIGHT: 7 FT ; DIAMETER: 6 FT A/N:	D32			CO: 2000 PPMV (5) [RULE 407, 4-2-1982]	D332.1
VESSEL, V-107, BLOWDOWN, LENGTH: 11 FT 4 IN; DIAMETER: 4 FT A/N:	D33				
VESSEL, V-108, STEAM, HEIGHT: 50 FT ; DIAMETER: 9 FT A/N:	D34				

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 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
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 (5) (5A) (5B) Denotes command and control emission limit
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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
VESSEL, V-129, INTERMITTENT BLOWDOWN, VENTED TO ATMOSPHERE, HEIGHT: 11 FT 4 IN; DIAMETER: 4 FT A/N:	D35			CO: 2000 PPMV (5) [RULE 407, 4-2-1982]	D332.1
CONDENSER, E-130, SURFACE, LENGTH: 32 FT ; DIAMETER: 8 FT 8 IN A/N:	D36				
TURBINE, T-101, STEAM, GENERAL ELECTRIC, DOUBLE EXTRACTION, NON-FIRED TYPE WITH A/N: GENERATOR, ELECTRIC, 31.9 MW	D37				
FUGITIVE EMISSIONS, MISCELLANEOUS, (PUMPS, COMPRESSORS, VALVES, FLANGES, PRV) A/N:	D52				H23.2
System 2: HYDROGEN PRODUCTION UNIT HEATER					S31.1

* (1) (1A) (1B) Denotes RECLAIM emission factor
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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 limit (e.g. NSPS, NESHAPS, etc.)
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Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
HEATER, H-101, REFORMING, NATURAL GAS, PSA GAS, REFINERY GAS, 785 MMBTU/HR WITH A/N: 310075 BURNER, 132, LOW NOX, NATURAL GAS, PSA GAS, REFINERY GAS	D38	C40	NOX: MAJOR SOURCE**	CO: 400 PPMV (5) [RULE 1146, 11-17-2000]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 9 PPMV (4) [RULE 1303(a) (1)-BACT, 5-10-1996]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.1, A63.2, A99.1, A195.1, B61.1, C1.3, D12.1, D90.3, D182.1, E54.1, E54.2, I298.1, K67.1
FUGITIVE EMISSIONS, MISCELLANEOUS, (COMPRESSORS, VALVES, FLANGES) A/N: 310075	D55				H23.2
System 3: SCR SYSTEM SERVING HYDROGEN PRODUCTION UNIT HEATER H101					
SELECTIVE CATALYTIC REDUCTION, X-102, WITH HONEYCOMB CATALYST IN MODULES WITH A/N: 311314 AMMONIA INJECTION, AQUEOUS AMMONIA	C40	D38		NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]	D12.2, D28.1, E71.1
MIXER, V-126, AMMONIA, 54 GPH CAPACITY A/N: 311314	D41				
PUMP, P-115A/B, AQUEOUS AMMONIA, 2 TOTAL (1 SPARE), 18 GPH EACH A/N: 311314	D42				

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 (7) Denotes NSR applicability limit
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Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
BLOWER, C-104A/B, AMMONIA INJECTION, 2 TOTAL (1 SPARE), 380 SCFM EACH A/N: 311314	D43				
BLOWER, C-103, ID FAN, 313,550 ACFM, VENTING A REFORMING HEATER A/N: 311314	D44				
System 4: AMMONIA (AQUEOUS) TRANSFER & STORAGE SYSTEM SERVING SCR					
STORAGE TANK, PRESSURIZED, V-135, SERVING SCR OF H2 PLANT, AQUEOUS AMMONIA, WITH TRUCK UNLOADING STATION, VAPOR RETURN SYSTEM & TRANSFER PUMP, 9300 GALS; DIAMETER: 8 FT 6 IN; HEIGHT: 19 FT A/N: 293120	D47				B61.4, E71.2, E144.1
Process 2: INTERNAL COMBUSTION ENGINE (ICE)					
System 1: EMERGENCY ICE					
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, CLARKE DETROIT DIESEL-ALLISON, MODEL DDFP-L6FA, SERIAL NO.8393, WITH AFTERCOOLER, TURBOCHARGER, 305 BHP A/N: 308377	D48		NOX: PROCESS UNIT**	NOX: 9.455 LBS/HR (1) [RULE 2012, 12-5-2003; RULE 2012, 1-7-2005]; PM: (9) [RULE 404, 2-7-1986]	A63.1, B61.2, B61.3, C1.1, C1.2, H23.12, K67.2
Process 3: FLARE					
System 1: FLARE					
					S31.1

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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 3: FLARE					
FLARE, X-113, GROUND LEVEL, WITH A CYCLONE SEPARATOR, HEIGHT: 68 FT ; DIAMETER: 32 FT A/N: 293123	C46			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]	B61.1, D12.3, D12.4, D90.3, H23.11
FUGITIVE EMISSIONS, MISCELLANEOUS, (PUMPS, COMPRESSORS, VALVES, FLANGES, PRV) A/N: 293123	D56				H23.2
Process 4: R-219 EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E57				H23.4
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E62			VOC: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-9-2004; RULE 1171, 11-7-2003; RULE 1171, 5-6-2005]	K67.4
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT	E63			VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 5-6-2005]; VOC: (5) [RULE 1122, 10-1-2004]	H23.13

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 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

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

SECTION D: DEVICE ID INDEX

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**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

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D48	7	2	1
D49	2	1	1
D52	5	1	1
D55	6	1	2
D56	8	3	1
E57	8	4	0
E62	8	4	0
E63	8	4	0

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

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

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

F14.1 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.3 The operator shall not use natural gas containing sulfur compounds in excess of 16 ppmv, calculated as hydrogen sulfide.

[RULE 431.1, 6-12-1998]

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

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[40CFR 68 - Accidental Release Prevention, 5-24-1996]

F60.1 The emission limits identified in Section D and H of the permit shall be defined as emissions discharged to the atmosphere from the originating equipment.

SYSTEM CONDITIONS

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

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

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]

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

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

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]

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:

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

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

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 bellows 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:

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

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

DEVICE CONDITIONS

A. Emission Limits

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
SOX	Less than or equal to 109 LBS IN ANY ONE DAY
ROG	Less than or equal to 120 LBS IN ANY ONE DAY
PM10	Less than or equal to 361 LBS IN ANY ONE DAY
CO	Less than or equal to 703 LBS IN ANY ONE DAY

The operator shall calculate the emission limit(s) of PM10 excluding sulfate from ammonia injection.

The operator shall calculate the daily mass emissions for compliance determination based on the source test required under this permit.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D38, D48]

A63.2 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
-------------	-----------------

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

NOX | Less than or equal to 255 LBS IN ANY ONE DAY

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

[Devices subject to this condition : D38]

A99.1 The 9 PPM NOX emission limit(s) shall not apply when the equipment is in startup and shutdown periods.

Startup or shutdown period shall be kept at a minimum.

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

[Devices subject to this condition : D38]

A195.1 The 9 PPM NOX emission limit(s) is averaged over 24 hours.

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

[Devices subject to this condition : D38]

B. Material/Fuel Type Limits

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.

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : D38, C46]

B61.2 The operator shall only use diesel fuel containing the following specified compounds:

Compound	weight percent
Sulfur Compounds less than	0.05

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

[Devices subject to this condition : D48]

B61.3 The operator shall only use diesel fuel containing the following specified compounds:

Compound	ppm by weight
Sulfur less than	15

[RULE 1470, 6-1-2007; RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D48]

B61.4 The operator shall not use aqueous ammonia containing the following specified compounds:

Compound	weight percent
Ammonia greater than	30

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D47]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the operating time to no more than 199 hour(s) in any one year.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 6-3-2005; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D48]

C1.2 The operator shall limit the maintenance testing to no more than 34 hour(s) in any one year.

The purpose(s) of this condition is to ensure compliance with requirements of National Fire Protection Association (NFPA) 25 standards.

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

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D48]

C1.3 The operator shall limit the duration of startup or shutdown to no more than 48 hour(s).

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D38]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) measuring device to accurately indicate the oxygen concentration in the flue gas at the convective section or exhaust stack of this heater. The excess oxygen such measured shall be at a minimum of 1 percent, dry basis, except during startup, shutdown, or process upset.

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

[Devices subject to this condition : D38]

D12.2 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature across the SCR bed.

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

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

[Devices subject to this condition : C40]

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.

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[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.

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]

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted annually to determine the NH₃ emission.

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

[Devices subject to this condition : C40]

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D90.3 The operator shall continuously monitor the H₂S concentration of fuel gas before being burned in this device according to the following specifications:

The operator shall use a total sulfur fuel 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.

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 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, D38, C46]

D182.1 The operator shall test this equipment in accordance with the following specifications:

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The test shall be conducted at least annually.

During the test, the hydrogen plant or the heater shall be operated at least 80 percent of the permitted maximum rated capacity or within a capacity range approved by the District.

A source test protocol shall be submitted to the District no later than 60 days before the proposed test date. The annual 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. The District shall be notified of the date and time of the test at least 15 days prior to the test. A report shall be submitted to the District no later than 90 days after conducting the test.

Testing and sampling facilities shall be provided and maintained in accordance with District Source Test Method 1.1 or 1.2 and District Guidelines for Construction of Sampling and Testing Facilities.

The test shall determine and report the concentrations and mass emission rates for NOX, SOX, CO, Total PM, PM10, ROG, and the following:

- a) NOX in lb/MMBTU of heat input, from the inlet and outlet of the SCR unit,
- b) Excess oxygen in percent dry basis, from the SCR unit outlet,
- c) Flue gas flow rate in scf/hr, from the SCR unit outlet,
- d) Heating value (HHV), in BTU/SCF, of fuel gases supplied to the hydrogen reforming heater, and
- e) Control efficiency of the SCR unit.

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

[Devices subject to this condition : D38]

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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.

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

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

E. Equipment Operation/Construction Requirements

E54.1 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: C40 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: During startup or shutdown period.

Requirement number 2: The heater exhaust is below 570 degrees F.

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

[Devices subject to this condition : D38]

E54.2 The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Device ID: C40 [SELECTIVE CATALYTIC REDUCTION]

Requirement number 1: During the refractory dry-out period (up to 144 consecutive hours) to allow the curing of the refractory materials and blow out of steam lines, during which time no production of hydrogen shall occur.

Requirement number 2: The heater exhaust is below 570 degrees F.

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

[Devices subject to this condition : D38]

E71.1 The operator shall only inject ammonia into this equipment if the flue gas inlet temperature is at least 570 degrees F.

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

[Devices subject to this condition : C40]

E71.2 The operator shall not use this equipment to store aqueous ammonia unless the pressure relief valves are set at 100 psig or higher.

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

[Devices subject to this condition : D47]

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

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

[Devices subject to this condition : D47]

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

All PSA purge gas 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]

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.

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D4]

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, 5-13-1994; RULE 1173, 2-6-2009]

[Devices subject to this condition : D52, D55, D56]

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

Contaminant	Rule	Rule/Subpart
Refrigerants	40CFR82, SUBPART	F
Refrigerants	District Rule	1415

[RULE 1415, 10-14-1994; 40CFR 82 Subpart F, 5-14-1993]

[Devices subject to this condition : E57]

H23.11 This equipment is subject to the applicable requirements of the following rules or regulations:

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Contaminant	Rule	Rule/Subpart
SOX	District Rule	1118

[RULE 1118, 11-4-2005; 40CFR 60 Subpart A, 4-9-1993]

[Devices subject to this condition : C46]

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

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D48]

H23.13 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122
VOC	District Rule	1171

[RULE 1122, 10-1-2004; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]

[Devices subject to this condition : E63]

I. Administrative

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

I298.1 This equipment shall not be operated unless the facility holds 91800 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. The RTCs held to satisfy the first year of operation portion of this condition may be transferred only after one year from the initial start of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds 91800 pounds of NOx RTCs valid during that compliance year. RTCs held to satisfy the compliance year portion of this condition may be transferred only after the compliance year for which the RTCs are held. If the initial or annual hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

In lieu of holding RTCs on an annual basis as specified above, RTCs held for the purpose of demonstrating compliance with this condition may be transferred as specified below, provided quarterly emissions do not exceed the corresponding quarterly limit listed in the table below. The amount available for transfer after each calendar quarter shall be as specified in Rule 2005(f)(3). Such amount may be transferred only after the end of the subject calendar quarter. If the quarterly certified emissions for any calendar quarter exceed the corresponding quarterly emission limit, the facility may only sell RTCs held pursuant to Rule 2005(f) for that compliance year after the fourth quarter of that compliance year. This early sale option shall permanently be unavailable in the event that quarterly emissions exceed the corresponding quarterly limits for a total of 3 times in any five consecutive years.

Calendar Quarter	Emission Limit (Pounds of NOx RTCs)
January 1 through March 31	22950
April 1 through June 30	22950
July 1 through September 30	22950
October 1 through December 31	22950

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 2005, 6-3-2011]

[Devices subject to this condition : D38]

K. Record Keeping/Reporting

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

During startup, shutdown and dry-out/steam blow periods, the hourly firing rates, flue gas temperature, process feed flow rates, inlet and outlet process fluid temperatures, excess oxygen, and NOX emissions.

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

[Devices subject to this condition : D38]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

An engine operating log shall be maintained which on a monthly basis shall include manual and automatic operation and shall list all engine operations in each of the following areas:

- A. Emergency use hours of operation
- B. Maintenance and testing hours
- C. Other operating hours (describe the reason for operation)

In addition, each time the engine is started manually, the log shall include the date of operation and the timer reading in hours at the beginning and end of operation. The log shall be kept for a minimum of three calendar years prior to the current year and made available to the District personnel upon request. The total hours of operation for the previous calendar year shall be recorded sometime during the first 15 days of January of each year.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 1470, 6-1-2007]

[Devices subject to this condition : D48]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

**[RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 3004(a)(4)-Periodic
Monitoring, 12-12-1997]**

[Devices subject to this condition : E62]

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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
System 1: HYDROGEN PRODUCTION - 88.0 MMSCFD Maximum Rated Capacity					S2.1, S13.1, S31.1
VESSEL, V-119, FEED COMPRESSOR SUCTION, LENGTH: 11 FT 4 IN; DIAMETER: 6 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D1				
VESSEL, V-133, PROCESS OILY WATER, HEIGHT: 11 FT 10 IN; DIAMETER: 3 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D2				E336.2
FILTER, X-110A/B, FEED GAS COMPRESSOR, 2 TOTAL, 20 CU.FT. CAPACITY EACH A/N: 547681 Permit to Construct Issued: 01/02/14	D3				
COMPRESSOR, C-101A/B, DUAL SERVICES, 2 TOTAL, 7,500 HP EACH WITH BUFFERED PACKING SEALS A/N: 547681 Permit to Construct Issued: 01/02/14	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: 547681 Permit to Construct Issued: 01/02/14	D6				
KNOCK OUT POT, V-131A/B, FEED INTERSTAGE, 2 TOTAL, HEIGHT: 9 FT ; DIAMETER: 3 FT 6 IN A/N: 547681 Permit to Construct Issued: 01/02/14	D8				

- * (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.

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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
HEAT EXCHANGER, E-102/E117, FEED COMPRESSOR DISCHARGE COOLER, 2 TOTAL, 2.74 MMBTU/HR EACH A/N: 547681 Permit to Construct Issued: 01/02/14	D10				
VESSEL, COALESCER, V-102A/B, FEED COMPRESSOR DISCHARGE, 2 TOTAL, HEIGHT: 5 FT ; DIAMETER: 1 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D12				
REACTOR, V-104, HYDROGENATION, WITH CHLORIDE GUARD, LENGTH: 20 FT ; DIAMETER: 8 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D14				
VESSEL, V-105A/B, FEED DESULFURIZER, 2 TOTAL, LENGTH: 19 FT ; DIAMETER: 9 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D15				
REACTOR, H101, REFINERY GAS/STEAM REFORMING, TUBULAR TYPE A/N: 547681 Permit to Construct Issued: 01/02/14	D49				
HEAT EXCHANGER, E-103, PROCESS GAS, 163.5 MMBTU/HR, SHELL AND TUBE TYPE A/N: 547681 Permit to Construct Issued: 01/02/14	D17				

- * (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.

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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
REACTOR, V-109, HIGH TEMPERATURE SHIFT, LENGTH: 19 FT ; DIAMETER: 11 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D18				
HEAT EXCHANGER, E-105, FEED PREHEATER II, 12.76 MMBTU/HR, SHELL AND TUBE TYPE A/N: 547681 Permit to Construct Issued: 01/02/14	D19				
HEAT EXCHANGER, E-106A, BFW PREHEATER I, 47.0 MMBTU/HR, SHELL AND TUBE TYPE A/N: 547681 Permit to Construct Issued: 01/02/14	D20				
HEAT EXCHANGER, E-106B/C, BFW PREHEATER II, 67.01 MMBTU/HR, SHELL AND TUBE TYPE, 2 TOTAL A/N: 547681 Permit to Construct Issued: 01/02/14	D21				
REACTOR, V-110, LOW TEMPERATURE SHIFT, LENGTH: 16 FT ; DIAMETER: 11 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D22				
HEAT EXCHANGER, E-107, FEED PREHEATER I, 5.0 MMBTU/HR, SHELL AND TUBE TYPE A/N: 547681 Permit to Construct Issued: 01/02/14	D23				

* (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 limit (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.

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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
HEAT EXCHANGER, E-108, BFW MAKEUP HEATER, 49.0 MMBTU/HR, SHELL AND TUBE TYPE A/N: 547681 Permit to Construct Issued: 01/02/14	D24				
HEAT EXCHANGER, E-109, PSA FEED AIR COOLER, 47.57 MMBTU/HR, FIN-FAN TYPE A/N: 547681 Permit to Construct Issued: 01/02/14	D25				
HEAT EXCHANGER, E-110, PSA FEED TRIM COOLER, 15.85 MMBTU/HR, SHELL AND TUBE TYPE A/N: 547681 Permit to Construct Issued: 01/02/14	D26				
KNOCK OUT POT, V-112, COLD CONDENSATE, LENGTH: 11 FT 10 IN; DIAMETER: 7 FT 3 IN A/N: 547681 Permit to Construct Issued: 01/02/14	D27				
ADSORBER, X-101A-J, PRESSURE SWING ADSORPTION (PSA) UNIT, 10 TOTAL, DIAMETER: 10 FT 6 IN; HEIGHT: 21 FT 6 IN EACH A/N: 547681 Permit to Construct Issued: 01/02/14	D28				D90.3, E336.1
VESSEL, V-113A/B, PSA PURGE GAS, 2 TOTAL, DIAMETER: 12 FT; HEIGHT: 80 FT EACH A/N: 547681 Permit to Construct Issued: 01/02/14	D29				

- * (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 limit (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.

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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
HEATER, E-451, METHANATOR PRE-HEAT, 75 KW ELECTRICALLY HEATED A/N: 547681 Permit to Construct Issued: 01/02/14	D66				
REACTOR, V-451, METHANATOR, LENGTH: 5 FT ; DIAMETER: 4 FT 6 IN A/N: 547681 Permit to Construct Issued: 01/02/14	D67				
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-452, ECONOMIZER, METHANATOR PRODUCT, 0.461 MMBTU/HR A/N: 547681 Permit to Construct Issued: 01/02/14	D68				
COOLER, E-455, PURE H2 PRODUCT CONDENSER, CRYOQUIP MODEL NO. VAI-1248-SSBL23, 0.092 MMBTU/HR, AMBIENT VAPORIZER A/N: 547681 Permit to Construct Issued: 01/02/14	D69				
VESSEL, V-452A/B, MOLECULAR SIEVE DRIER, WITH REGENERATION VENT TO ATMOSPHERE, 2 IN PARALLEL, LENGTH: 7 FT ; DIAMETER: 2 FT A/N: 547681 Permit to Construct Issued: 01/02/14	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: 547681 Permit to Construct Issued: 01/02/14	D71				

- * (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.

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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
LOADING ARM, H2 TRAILER, STANCHIONS A/B, PURE H2 PRODUCT, 2 TOTAL A/N: 547681 Permit to Construct Issued: 01/02/14	D72				
VESSEL, V-114, STEAM DEAERATOR, TWO SECTIONS, WITH UPPER SECTION VENTED TO ATMOSPHERE, LENGTH: 22 FT ; DIAMETER: 9 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D31			CO: 2000 PPMV (5) [RULE 407, 4-2-1982]	D332.1
TANK, V-137, CONDENSATE BREAK, VENTED TO ATMOSPHERE, HEIGHT: 7 FT ; DIAMETER: 6 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D32			CO: 2000 PPMV (5) [RULE 407, 4-2-1982]	D332.1
VESSEL, V-107, BLOWDOWN, LENGTH: 11 FT 4 IN; DIAMETER: 4 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D33				
VESSEL, V-108, STEAM, HEIGHT: 50 FT ; DIAMETER: 9 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D34				
VESSEL, V-129, INTERMITTENT BLOWDOWN, VENTED TO ATMOSPHERE, HEIGHT: 11 FT 4 IN; DIAMETER: 4 FT A/N: 547681 Permit to Construct Issued: 01/02/14	D35			CO: 2000 PPMV (5) [RULE 407, 4-2-1982]	D332.1

- * (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 limit (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.

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:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: HYDROGEN PRODUCTION PLANT (Refinery gas/Steam Reforming)					
CONDENSER, E-130, SURFACE, LENGTH: 32 FT ; DIAMETER: 8 FT 8 IN A/N: 547681 Permit to Construct Issued: 01/02/14	D36				
TURBINE, T-101, STEAM, GENERAL ELECTRIC, DOUBLE EXTRACTION, NON-FIRED TYPE WITH A/N: 547681 Permit to Construct Issued: 01/02/14 GENERATOR, ELECTRIC, 31.9 MW	D37				
FUGITIVE EMISSIONS, MISCELLANEOUS, (PUMPS, COMPRESSORS, VALVES, FLANGES, PRV) A/N: 547681 Permit to Construct Issued: 01/02/14	D52				H23.2

* (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 limit (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.

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION H: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

FACILITY PERMIT TO OPERATE AIR PRODUCTS AND CHEMICALS, INC.

SECTION H: DEVICE ID INDEX

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D26	4	1	1
D27	4	1	1
D28	4	1	1
D29	4	1	1
D31	6	1	1
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D33	6	1	1
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**FACILITY PERMIT TO OPERATE
AIR PRODUCTS AND CHEMICALS, INC.**

SECTION H: DEVICE ID INDEX

Device Index For Section H			
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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:

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

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

F14.1 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.3 The operator shall not use natural gas containing sulfur compounds in excess of 16 ppmv, calculated as hydrogen sulfide.

[RULE 431.1, 6-12-1998]

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:

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[40CFR 68 - Accidental Release Prevention, 5-24-1996]

F60.1 The emission limits identified in Section D and H of the permit shall be defined as emissions discharged to the atmosphere from the originating equipment.

SYSTEM CONDITIONS

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

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

A totallizing 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

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:

VOC | District Rule | 1189

[RULE 1189, 1-21-2000]

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

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:

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:

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.

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

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:

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

DEVICE CONDITIONS

D. Monitoring/Testing Requirements

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 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]

D90.3 The operator shall continuously monitor the H₂S concentration of fuel gas before being burned in this device according to the following specifications:

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:

The operator shall use a total sulfur fuel 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.

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 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]

- 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.

[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:

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:

All PSA purge gas 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]

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]

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

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:

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, 5-13-1994; RULE 1173, 2-6-2009]

[Devices subject to this condition : D52]