SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE
The operator shall comply with the terms and conditions set forth below:

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

Process 2: REFORMING					
System 2: AIR POLLUTION CONTROL SYSTEM					
SELECTIVE CATALYTIC REDUCTION, X-102, HALDOR TOPSOE, POROUS BLOCKS DNX 939 OR APPROVED EQUIVALENT CATALYST, 42 MODULES, WITH AMMONIA INJECTION, ~~1490~~ 1610 CU FT; WIDTH: ~~6~~ 10 FT ~~4 IN~~; HEIGHT: ~~3~~ 4 FT 10 IN ; LENGTH: ~~3~~ 45 FT ~~21~~ IN A/N: 557218	C32	D30		**NH3: 20 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996;** *RULE 1303(a)(1)-BACT, 12-6-2002*]	D12.3, D29.1, E71.x, E193.x, H23.1

CONDITIONS

D12.3 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature across the SCR catalyst bed.

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

[RULE 2005, 4-20-2001]

[Devices subject to this condition : C32]

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
CO emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment

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NOX emissions	Approved District method	1 hour	Inlet and outlet of APC equipment serving this equipment
PM10 emissions	Approved District method	District-approved averaging time	Outlet of the SCR serving this equipment
ROG emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment
NH3 emissions	Approved District method	1 hour	Outlet of the SCR serving this equipment

The test shall be conducted at least annually for CO, NOx, PM10 and ROG.

The test shall be conducted at least quarterly for NH3. The test frequency shall become annual after four successive quarterly tests demonstrating compliance after the initial start up of the purge gas pre-heat exchanger (E-515).

The test shall also be conducted within 60 days of continuous operation from the startup of SCR catalyst replacement for NOx and NH3.

The facility permit holder shall submit the protocol to the AQMD source test engineer no later than 45 days prior to the proposed test date and notify the District of the date and time of the test at least 10 days prior to the test.

After AQMD approval of the source test protocol, the test shall be conducted no later than 180 days after the initial start up of the purge gas pre-heat exchanger (E-515) and, at least, annually thereafter for CO, NOx, PM10 and ROG and, at least, quarterly thereafter for NH3 until four successive tests have demonstrated compliance, after which the NH3 test shall be conducted at least annually along with CO, NOx, PM10 and ROG.

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE
The operator shall comply with the terms and conditions set forth below:

Notwithstanding the above, the required 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.

The source test results shall be submitted to the District no later than 60 days after the source test has been conducted.

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

The test shall determine and report the concentrations and mass emission rates for NOX, CO, 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) Ammonia in ppmv, from the SCR unit outlet

d) Flue gas flow rate in scf/hr, from the SCR unit outlet

e) Fuel gas flow rate in scf/hr, to the hydrogen reforming heater

f) Heating value (HHV), in BTU/SCF, of fuel gases supplied to the hydrogen reforming heater

g) Control efficiency of the SCR unit

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; **RULE 2005, 4-20-2001]**

[Devices subject to this condition : D30, C32]

E71.x 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: C32]

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE
The operator shall comply with the terms and conditions set forth below:

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

To establish equivalency of a catalyst, the operator shall submit the following information for the catalyst to the District permitting engineer: manufacturer, description (type), configuration, dimensions (per block), number of blocks, total volume, space velocity, life, vendor performance guarantee, performance curve (versus temperature), minimum operating temperature, estimated SO_2 to SO_3 conversion, estimated NO to NO_2 conversion, and concentration of Rule 1401 TACs.

The operator shall not install and use an "equivalent" catalyst until approval is received in writing from the District.

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

[Devices subject to this condition: C32]

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

Contaminant	Rule	Rule/Subpart
CO	District Rule	407

This rule applies during normal operation, startup, shutdown, and unforeseen turndown of hydrogen demand.

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

[Devices subject to this condition : D30, C32]