

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### 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
<b>Process 9: AIR POLLUTION CONTROL</b>					
POT, SEAL, SP-800, HEIGHT: 6 FT ; DIAMETER: 2 FT A/N: 493611	D319				
BLOWER, VACUUM, BL-706, 7.5 HP A/N: 493611	D289	C142 C281			D90.6, K67.11
BLOWER, AUXILIARY AIR, BL-708, 20 HP A/N: 493611	D324	C142 C281			
<b>System 13: AFTERBURNER/SCRUBBER</b>					
AFTERBURNER, ZEECO, WITH URS CORP. BURNER, MODEL RMBF-9-NG, 24 MMBTU/HR (PROCESS GAS AND NAT., , GAS), 9 MMBTU/HR (NAT. GAS), WITH A HEAT RECOVERY UNIT. A/N: 527511	C281	C139 D140 D141 D195 D196 D197 D198 D284 D287 D288 D289 C301 D324 D556	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; NOX: 135 PPMV (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; SO2: 500 PPMV AT 15 MINS. (5) [RULE 407, 4-2-1982]	C4.3, C8.5, D12.5, D12.7, D28.1, D28.3, D323.1, E71.2, E448.1, E448.6, H116.4, H116.5, H116.6, I298.1
SCRUBBER, PACKED BED, CAUSTIC, ENVITECH, MODEL VT7-10-2, TWO STAGE, WITH MIST ELIMINATOR, MUNTERS, T-271, AND A QUENCH TOWER, WITH A COMMON STACK WITH DEVICE C300., HEIGHT: 50 FT ; DIAMETER: 7 FT A/N: 527511	C301	C281			C8.7, C8.11, D82.1, E448.1, E448.2

\* (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 DEMENNO/KERDOON

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall operate only one afterburner (Device Nos. C-142 or C-281) at any one time except during afterburner switchover. Switchover time (including but not limited to emergency, maintenance or testing) shall not exceed 6 hours per day and 12 times per year.

These limits shall not apply during the initial start-up period of the SO<sub>x</sub> scrubbers (Device Nos. C-300 and C-301) not to exceed 168 hours during a 30 day period or for curing of new refractory when no vapors are processed or as otherwise approved by the AQMD.

Switchover period shall be defined as switching from one afterburner to another and back to the original afterburner.

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

[Devices subject to this condition : C281, C301]

E448.2 The operator shall comply with the following requirements:

The concentration by volume, at the exhaust stack of the scrubbers (dry basis, zero percent O<sub>2</sub>), of sulfur compounds in ppmv as SO<sub>2</sub> shall not exceed 12 ppmv averaged over 24 hours.

The mass, at the exhaust stack of the scrubbers, of sulfur compounds as SO<sub>2</sub> shall not exceed 6.7 pounds per day.

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

[Devices subject to this condition : C301]

E448.6 The operator shall comply with the following requirements:

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

In the event of a natural gas curtailment or shortage, if the facility afterburners temperature cannot be maintained at 1400 deg F, the operator shall take the following steps to ensure compliance with all the SCAQMD Rules and Regulations and Permit Conditions:

- 1) Close all the inlet valves to the afterburners C281 and C142.
- 2) Stop receiving any waste material to the facility.
- 3) Stop shipping any product from the facility.
- 4) Shutdown all the heating sources, i.e., boilers and heaters.
- 5) Shutdown all the process feed and transfer pumps.
- 6) Prepare a report to record all the above activities.

**[RULE 480, 10-7-1977]**

[Devices subject to this condition : C281]

#### **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	464

**[RULE 464, 12-7-1990]**

[Devices subject to this condition : D26, D29, D30, D32, D33, D52, D64, D418]

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 9: AIR POLLUTION CONTROL</b>					
KNOCK OUT POT, KO-704, HEIGHT: 5 FT 6 IN; DIAMETER: 2 FT 2 IN A/N: 551690 Permit to Construct Issued: 08/20/13	D241	C142			
KNOCK OUT POT, KO-705, HEIGHT: 6 FT 6 IN; DIAMETER: 3 FT A/N: 551690 Permit to Construct Issued: 08/20/13	D226	C142			
<b>System 7: AFTERBURNER</b>					
SCRUBBER, PACKED BED, CAUSTIC, ENVITECH, MODEL RT5-12, SINGLE STAGE, WITH MIST ELIMINATOR, MUNTERS, T-125, AND A QUENCH TOWER. WITH A COMMON STACK WITH DEVICE C301, WIDTH: 8 FT 6 IN; HEIGHT: 13 FT; LENGTH: 16 FT 6 IN A/N: 544927 Permit to Construct Issued: 05/01/13	C300	C142			C8.6, C8.10, D82.1, E448.1, E448.2, K171.1
AFTERBURNER, 23.2 MMBTU/HR (PROCESS GAS AND NAT. GAS), 8.2 MMBTU/HR (NAT. GAS), A/N: 527510 Permit to Construct Issued: 04/11/12	C142	C139 D140 D195 D196 D197 D198 D226 D241 D284 D287 D288 D289 C300 D324 D556	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; SO2: 500 PPMV AT 15 MINS. (5) [RULE 407, 4-2-1982]	C1.14, C4.1, C8.5, D12.5, D12.7, D28.1, D29.4, D323.1, E71.2, E71.3, E448.1, E448.3, E448.4, E448.6, H116.4, H116.5, H116.6, I298.1, K171.1

\* (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 DEMENNO/KERDOON

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

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

The afterburner C142 shall be vented to scrubber C300 whenever in operation, except when all of the following criteria are met:

1. The scrubber C300 is still under construction and full operation has not commenced; and
2. The valves controlling venting from the knock out pots D226 & D241 are closed and blinded; and
3. The afterburner C281 or scrubber C301 are not operable; and
4. The AQMD shall be notified within 10 days prior to a scheduled shutdown of afterburner C281 or scrubber C301. If 10 days cannot be provided, the AQMD shall be notified as soon as practicable.

**[RULE 204, 10-8-1993]**

[Devices subject to this condition : C142]

E448.6 The operator shall comply with the following requirements:

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

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

In the event of a natural gas curtailment or shortage, if the facility afterburners temperature cannot be maintained at 1400 deg F, the operator shall take the following steps to ensure compliance with all the SCAQMD Rules and Regulations and Permit Conditions:

- 1) Close all the inlet valves to the afterburners C281 and C142.
- 2) Stop receiving any waste material to the facility.
- 3) Stop shipping any product from the facility.
- 4) Shutdown all the heating sources, i.e., boilers and heaters.
- 5) Shutdown all the process feed and transfer pumps.
- 6) Prepare a report to record all the above activities.

**[RULE 480, 10-7-1977]**

[Devices subject to this condition : C142]

#### **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	464

**[RULE 464, 12-7-1990]**

[Devices subject to this condition : D52, D64, D418]

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

## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans, with the following exceptions:

- a. The operator does not have to comply with NO<sub>x</sub> or SO<sub>x</sub> emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) which become effective after December 31, 1993.
- b. The operator does not have to comply with NO<sub>x</sub> or SO<sub>x</sub> emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) after the facility has received final certification of all monitoring and reporting requirements specified in Section F and Section G.

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

#### List of approved plans:

Application	Rule
476345	1173
494706	480
521909	1173

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.