

## FACILITY PERMIT TO OPERATE QUEMETCO 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/<br>Monitoring Unit     | Emissions*<br>And Requirements                                                                                                                                                                                          | Conditions                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Process 4: ELECTRIC POWER GENERATION EQUIPMENT</b>                                                                                                        |        |              |                                             |                                                                                                                                                                                                                         |                                  |
| <b>System 1: EMERGENCY ELECTRICAL POWER SYSTEM</b>                                                                                                           |        |              |                                             |                                                                                                                                                                                                                         |                                  |
| INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL LTA10-G1, WITH AFTERCOOLER, TURBOCHARGER, 380 HP WITH A/N: 479286<br><br>GENERATOR  | D83    | C171         | NOX: PROCESS UNIT**;<br>SOX: PROCESS UNIT** | <b>HAP:</b> (10) [40CFR 63SubpartZZZZ, 3-9-2011];<br><b>NOX:</b> 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; <b>PM:</b> (9) [RULE 404, 2-7-1986]; <b>SOX:</b> 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005] | C1.1, C1.14, D12.2, H23.2, K67.3 |
| DIESEL PARTICULATE FILTER, RYPOS, MODEL RA-40X-L-C                                                                                                           | C171   | D83 B138     |                                             |                                                                                                                                                                                                                         |                                  |
| INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL KTA 19-G4, WITH AFTERCOOLER, TURBOCHARGER, 755 HP WITH A/N: 479287<br><br>GENERATOR | D92    | C172         | NOX: PROCESS UNIT**;<br>SOX: PROCESS UNIT** | <b>HAP:</b> (10) [40CFR 63SubpartZZZZ, 3-9-2011];<br><b>NOX:</b> 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; <b>PM:</b> (9) [RULE 404, 2-7-1986]; <b>SOX:</b> 6.24 LBS/1000 GAL DIESEL (1) [RULE 2011, 5-6-2005] | C1.1, C1.14, D12.2, H23.2, K67.3 |
| DIESEL PARTICULATE FILTER, RYPOS, MODEL RA-40X-L-C                                                                                                           | C172   | D92 B138     |                                             |                                                                                                                                                                                                                         |                                  |

\* (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.

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#### FACILITY CONDITIONS

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]

F16.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Records shall be kept to demonstrate compliance with the following conditions, pursuant to the Rule 1407 Compliance Plan for this facility:

1. This facility shall be operated in accordance with the requirements specified in subparts (d)(1), (d)(3), (d)(5), (e), and (g)(1) of Rule 1407.
2. The slag furnace and reverberatory furnace process air pollution control systems shall be operated pursuant to all requirements stated in this condition, with the exception of the temperature requirement of Rule 1407 (d)(3).

[**RULE 1407, 7-8-1994**; **40CFR 63 Subpart X, #02, 6-23-2003**]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

Rule 1420.1

- A. The total facility mass lead emissions from all lead point sources shall not exceed 0.045 pounds of lead per hour.
- B. The total facility and maximum emission rates shall be determined using the most recent source tests conducted by the facility or the District.

[**RULE 1420.1, 11-5-2010**]

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#### **SYSTEM CONDITIONS**

S53.1 The following conditions shall apply to the equipment in this system:

The operator shall maintain the level of plastic separation in this system as follows:

For each calendar quarter, the ratio of the total amount of separated plastic shipped offsite in that quarter to the total amount of raw lead metal produced from the reverberatory and lead slag furnaces in that quarter shall be 0.05 or greater.

The daily and daily month-to-date (MTD) total amounts of raw lead metal produced, and plastic shipped offsite, shall be recorded in the COI Plant Activity Report (COI).

The operator shall calculate the plastic to lead metal ratios using the total amounts of plastic and lead produced in the final end of the calendar month COI reports. The plastic to lead metal ratios, for the previous calendar month, and for the previous calendar quarter, shall be reported in both the Daily Production Reports (DPR) and in the COI reports for this facility.

The final end of the calendar month amounts of plastic shall be based on bills of lading and/or other equivalent shipment records or manifests documenting total weight of plastic shipped offsite, and the raw lead metal produced shall be based on the total number and weights of raw lead bullion molds/ingots cast and recorded each work shift each day by the reverberatory/slag furnace operator(s).

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

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

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#### DEVICE CONDITIONS

##### C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the operating time to no more than 200 hours in any one year.

[RULE 1110.2, 6-3-2005; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**  
**RULE 2012, 5-6-2005]**

[Devices subject to this condition : D83, D92]

C1.14 The operator shall limit the maintenance testing to no more than 0.5 hour(s) per week.

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

[Devices subject to this condition : D83, D92]

##### D. Monitoring/Testing Requirements

D12.2 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 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;** RULE 1470, 3-4-2005; **RULE 2012, 5-6-2005]**

[Devices subject to this condition : D83, D92]

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#### **H. Applicable Rules**

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

| Contaminant       | Rule          | Rule/Subpart |
|-------------------|---------------|--------------|
| Total hydrocarbon | District Rule | 1470         |
| ROG               | District Rule | 1470         |
| NOX               | District Rule | 1470         |
| CO                | District Rule | 1470         |
| PM                | District Rule | 1470         |

[RULE 1470, 3-4-2005]

[Devices subject to this condition : D83, D92]

#### **K. Record Keeping/Reporting**

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

An engine operating log shall be maintained which on a monthly basis shall include manual and automatic hours of operation, which identifies:

- 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 district personnel upon request. The total hours of operation for the previous calendar year shall be recorded not later than January 15 of each year.

[RULE 1110.2, 6-3-2005; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**  
 RULE 1470, 3-4-2005; **RULE 204, 10-8-1993]**

[Devices subject to this condition : D83, D92]