*MOJAVE DESERT*
*AIR QUALITY MANAGEMENT DISTRICT*

# Federal Operating Permit Number: 13300611

For: National Aeronautics & Space Administration

Facility: NASA GOLDSTONE DEEP SPACE COMMUNICATIONS COMPLEX

Issued Pursuant to MDAQMD Regulation XII
Effective Date: May 08, 2011

●SEE TITLE V PAGE 2 FOR PERMIT REVISION SUMMARY●

This Federal Operating Permit Expires
May 08, 2016

Issued By: Eldon Heaston
Executive Director
Air Pollution Control Officer

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14306 PARK AVENUE, VICTORVILLE, CALIFORNIA 92392
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# PERMIT REVISIONS

December 12, 2012

*Significant Modification by Sheri Haggard:*

● PART I(A), FACILITY INDENTIFYING INFORMATION: Updated Mailing Address by adding "Exelis" after "ITT", and updated the Facility "Site" Contacts to Mr. Mark Solheid.

● PART I(B), DESCRIPTION OF FACILITY: Updated to correctly identify the Site-Wide Uninterruptable Power Supply (SWUPS) which subsequently resulted in the re-designation of the diesel generators from prime to emergency use. All inactive/cancelled equipment was also removed from the summary of equipment table.

● PART I(C), DESCRIPTION OF EQUIPMENT: Updated to correctly identify the re-designation of the diesel generators from prime to emergency. All inactive/cancelled equipment was also removed.

● PART II(A), REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:

○ Updated section PART II(A)(28) to reflect the most current requirements for *Architectural Coatings.*

○ Updated section PART II(A)(31) to reflect the most current requirements for *Automotive Refinishing Operations.*

○ Added section PART II(A)(33), *Greenhouse Gas Provisions of Federal Operating Permits*.

○ Added section PART II(A)(34), *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating internal Combustion Engines* (40 CFR 63, subpart ZZZZ).

○ Added section PART II(A)(35), *National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities* (40 CFR 63, subpart CCCCCC).

● PART II(B), FACILITY-WIDE MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS:

○ Updated section PART II(B)(4)(d), *Compliance Certification Report*, to contain a hard submittal date of June 29th.

○ Updated section PART II(B)(5), *Monitoring Report*, to contain a hard submittal dates of May 30 to November 28 and from November 29 to May 29.

● PART II(C), FACILITY-WIDE COMPLIANCE CONDITIONS:

○ Added section PART II(C)(10), a requirement to comply with 40 CFR 82 – Protection of Stratospheric Ozone.

○ Added section PART II(C)(11), District is now establishing Federally Enforceable Emission Limits for NOx, as well as the other Nonattainment Air Pollutants/Precursors, VOC, and PM10 for the Goldstone facility in result to the NSR Analysis prompted by the proposed modification of switching the engine use of the Echo Site generators from "prime use" to "emergency use".

○ Added section PART II(C)(12), a requirement for the submittal of emissions inventory data to the District upon request for the purposes of NSR and EPA's Consolidated Emissions Reporting Rule.

● PART III(A), CONDITIONS APPLICABLE TO THE FOLLOWING STATIONARY, DIESEL IC ENGINES, EMERGENCY GENERATORS:

○ Updated the permit numbers from "B" type to "E" type which correlates with the use change of "prime use" to "emergency use". Updated the description of each of the Goldstone facility's stationary, diesel, emergency generator engines to reflect to most current description of each unit.

● PART III(B), CONDITIONS APPLICABLE TO THE FOLLOWING STATIONARY, DIESEL IC ENGINES, EMERGENCY FIRE PUMPS:

○ Updated the description of each of the Goldstone facility's stationary, diesel, emergency pump engines to reflect to most current description of each unit.

● PART III(C), CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, DIESEL IC ENGINES,

EMERGENCY GENERATORS:

○ Updated the description of each of the Goldstone facility's portable, diesel, emergency generator engines to reflect to most current description of each unit.

● PART III(D), CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, DIESEL IC ENGINES, LOW-USE EQUIPMENT:

○ Updated the description of each of the Goldstone facility's portable, diesel, low-use equipment to reflect to most current description of each unit.

● PART III(E), CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, PROPANE IC ENGINES, PRIME GENERATOR:

○ Added this portable, propane, prime generator to Goldstone's Federal Operating Permit. The proposed modification to incorporate this Permit Unit, (B010789), regards a past permitting action in which Goldstone was issued a District permit for a Propane, IC Engine, Portable, Generator, but failed to be incorporated into Goldstone's FOP.

● PART III(F), CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, PROPANE IC ENGINES, EMERGENCY GENERATOR:

○ Added this portable, propane, emergency generator to Goldstone's Federal Operating Permit. Goldstone proposes a new Propane IC Engine, Emergency, Portable, Generator (E011623) as a modification to their Federal Operating Permit.

● PART III(G), CONDITIONS APPLICABLE TO THE FOLLOWING DIESEL FUEL STORAGE TANKS:

○ Updated the description of Goldstone's diesel fuel storage tanks to reflect to most current description.

● PART III(H), CONDITIONS APPLICABLE TO THE FOLLOWING GASOLINE DISPENSING FACILITY, NON RETAIL, (ECHO SITE):

○ Updated the description of Goldstone's gasoline dispensing facility to reflect to most current description.

<u>September 29, 2011</u>
Administrative Permit Renewal**:** Revised Rule 1113 references, Page II-20 through II-21; added Rule SIP History Reference, Page VI-64; Revised Rule 442 references; Page II-16 through II-17.
*Changes made by: Samuel J Oktay, PE*

<u>October 03, 2002; June 09, 2003</u>
Various Administrative changes were made October 3, 2002 and June 9, 2003 to correct the responsible official & other contact information as well as to make equipment description and serial number corrections after a May 20, 2003 site inspection at the Goldstone facility.

<u>July 21, 2004:</u>
Administrative changes made: corrected Responsible Official, Facility contacts, serial numbers, ratings as reflected in previously updated District Permits and as outlined in 02/26/2004 and 06/04/2004 letter requests from facility

<u>September 15, 2004:</u>
Administrative changes made: added facility "off site" contact person requested in September 14, 2004 letter to the MDAQMD.

<u>February 8, 2006</u>
Administrative change made: added permit B009478 for a portable hydraulic drill driven by a 64 bhp diesel fueled ICE.

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March 23, 2006
Administrative change adding B009337, B009338, B009339, B009340, E009239, E009240 and E009241, various portable diesel IC engines due to a Rule change. Public Notice Title V Permit and Reissue Title V Permit May 8, 2006 through May 8, 2011 for new 5-year period.

June 5, 2006
Update mailing address to:
ITT
P.O. Box11103
Goldstone, CA 92310

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# TABLE OF CONTENTS

Page

Part I Introductory Information . . . . . I-6 through I-11

Part II Applicable Requirements and Emissions Limitations . . . . . I-12 through II-34

Part III Monitoring, Recordkeeping, Reporting and Testing Requirements III-35 through III-56

Part IV Standard Federal Operating Permit Conditions . . . . . .IV-57 through IV-59

Part V Operational Flexibility Provisions . . . . . .V-60 through V-61

Part VI Conventions, Abbreviations, Definitions . . . . . VI -62 through VI -64

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# PART I
# INTRODUCTORY INFORMATION

## A. *FACILITY IDENTIFYING INFORMATION:*

| | |
|---|---|
| Owner/Company Name: | National Aeronautics & Space Administration (NASA) |
| Owner Mailing Address: | 4800 Oak Grove Drive, Pasadena, CA 91109 |
| Facility Name: | NASA GOLDSTONE DSCC |
| Facility Location: | Goldstone Lake, Fort Irwin, CA 92311 |
| Mailing Address: | ITT/Exelis<br>P.O. Box 11103<br>Goldstone, CA 92310 |
| MDAQMD Federal Operating Permit Number: | 13300611 |
| MDAQMD Company Number: | 0133 |
| MDAQMD Facility Number: | 00611 |
| Responsible Official: | Steve Slaten, NASA Management Office<br>sslaten@nmo.JPL.NASA.gov |
| Title: | Site Manager, GDSCC |
| Phone Number: | 818-393-6683 |
| Facility "Site" Contacts: | Mark Solheid<br>mjsolheid@gdscc.nasa.gov |
| Title: | ES&H Analyst |
| Phone Number: | 760-255-8225 |
| Facility "Off Site" Contacts: | Christian Benitez<br>cbenitez@mail.JPL.NASA.gov |
| Phone Number: | 818-354-8653<br>Jet propulsion laboratory Environmental Affairs Program Office |
| SIC Code: | 9661 (Radio frequency, deep space tracking) |
| Facility Location: | WGS84 UTM (M) 11517693 E/3906401 N |

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## B. DESCRIPTION OF FACILITY:

Federal Operating Permit (FOP number: 13300611) for NASA Goldstone (GOLDSTONE), which is located near Goldstone Lake, Fort Irwin, California. GOLDSTONE is a deep space communications facility. Because of the critical nature of the mission and the remoteness of the facility, uninterrupted electric power is critical. Therefore, GOLDSTONE has a Site-Wide Uninterruptable Power Supply (SWUPS) in which in the event of a commercial power outage that is less than ten seconds, the SWUPS (batteries) will support the station load. For outages greater than ten seconds, the SWUPS will supply a generator run signal to start the emergency generators. The SWUPS has the capability to support GOLDSTONE for up to one minute. The emergency generators take approximately thirty seconds to assume full station load.

To maintain this reliable electric power, GOLDSTONE is equipped with ten emergency generators. Six of which are diesel engines, 875 bhp, driving 600 kW electric generators; and, four of which are diesel engines, 1280 bhp, driving 850 kW electric generators.

A summary of all equipment is as follows:

| Permit No. | Permit Status | Permit Type | Permit Description |
|---|---|---|---|
| B009337 | PTO | Prime | DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR |
| B009338 | PTO | Prime | DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR |
| B009339 | PTO | Prime | DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER |
| B009340 | PTO | Prime | DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER |
| B010789 | ATC | Prime | PROPANE IC ENGINE, PORTABLE GENERATOR |
| E000272 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2C) @ MARS SITE |
| E000273 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1C) @ MARS SITE |
| E000274 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2B) @ MARS SITE |
| E000275 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #3B) @ MARS SITE |
| E000276 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1B) @ MARS SITE |

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| | | | |
|---|---|---|---|
| E000277 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #4B) @ MARS SITE |
| E000278 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #4A) @ MARS SITE |
| E000279 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #3A) @ MARS SITE |
| E000280 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1A) @ MARS SITE |
| E000281 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2A) @ MARS SITE |
| E003381 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY FIRE PUMP (APOLLO SITE) |
| E003382 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR @ ECHO SITE |
| E004635 | PTO | Emergency | DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR (ECHO SITE) |
| E005133 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY GENERATOR @ APOLLO SITE |
| E007893 | PTO | Emergency | DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR (ECHO SITE) |
| E009239 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY FIRE PUMP (VENUS SITE) |
| E009240 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY FIRE PUMP (ECHO SITE) |
| E009241 | PTO | Emergency | DIESEL IC ENGINE, EMERGENCY FIRE PUMP (MARS SITE) |
| E011623 | ATC | Emergency | PORTABLE PROPANE GENERATOR |
| N001477 | PTO | Gasoline Dispensing | GASOLINE DISPENSING FACILITY (NON-RETAIL) ECHO SITE |
| T003003 | PTO | Tank | DIESEL FUEL STORAGE TANKS @ MARS SITE |

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## *C.* ***DESCRIPTION OF EQUIPMENT:***

APOLLO SITE:

E005133: DIESEL IC ENGINE, EMERGENCY GENERATOR - Consisting of the following equipment: Cummins model LTA10G1, 345 bhp, Serial number 34886879).

E003381: DIESEL IC ENGINE, EMERGENCY FIRE PUMP - Consisting of the following equipment: Detroit Diesel model VMFPT6HT L1211H, 140 bhp, Serial 91B-1059, drives a pump in Building A-12.

ECHO SITE:

E003382: DIESEL IC ENGINE, EMERGENCY GENERATOR - Consisting of the following equipment: Cummins model NT-855-64, 375 bhp, Serial number 11638482, drives 230 kW portable emergency generator set adjacent to Building G-24.

E004635: DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR - Consisting of the following equipment: Palmer model 1003P18, 135 bhp, Serial number 66D5416, drives 100 kW portable emergency generator set adjacent to Building G-24.

E007893: DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR - Consisting of the following equipment: 166 bhp Perkins Engines, Ltd., model 1006 6T (D100P2), Serial number 7AK03323, drives a Generac electrical generator rated at 87.9 kW portable emergency generator set adjacent to Building G-24.

E009240: DIESEL IC ENGINE, EMERGENCY FIRE PUMP - Consisting of the following equipment: Detroit Diesel, Diesel, Fire Pump, Model No. DDFP03ANHLH7086, 3 cylinders, Turbo Charged, 99bhp @1760rpm, Serial No. 3A10226A.

N001477: GASOLINE DISPENSING FACILITY (NON-RETAIL) - Consisting of the following equipment:

a. Tanks - Number of Tanks: 2

| Tank Number: | 1 | 2 |
|---|---|---|
| 1. Material Stored: | (87) U | Diesel |
| 2. Volume Gallons: | 10,000 | 10,000 |
| 3. Above/Underground | U | U |

b. Dispensing Equipment:
   1. Gasoline Dispensing Nozzles (Number): 2
   2. Diesel Dispensing Nozzles (Number): 1
   3. Phase II Vapor Recovery System (Type): Healy

MARS SITE:

B000272: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2C: Building G-81) - Consisting of the following equipment: Caterpillar model 398, 875 bhp, Serial number 66B1447 drives 600 kW generator set in Building G-81.

B000273: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1C: Building G-81) - Consisting of the following equipment: Caterpillar model 398, 875 bhp, Serial number 66B1556, drives 600 kW generator set in Building G-81.

B000274: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2B: Building G-81) - Consisting of the following equipment: Caterpillar model 399, 1280 bhp, Serial number 35B835, drives 850 kW generator set in Building G-81.

B000275: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #3B: Building G-81) - Consisting of the following equipment: Caterpillar model 399, 1280 bhp, Serial number 35B838, drives 850 kW generator set in Building G-81.

B000276: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #4B: Building G-81) - Consisting of the following equipment: Caterpillar model 399, 1280 bhp, Serial number 35B837, drives 850 kW generator set in Building G-81.

B000277: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #4B: Building G-81 - Consisting of the following equipment: Caterpillar model 399, 1280 bhp, Serial number 35B834, drives 850 kW generator set in Building G-81.

B000278: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #4A: Building G-81) - Consisting of the following equipment: Caterpillar model 398, 875 bhp, Serial number 66B2912, drives 600 kW generator set in Building G-81.

B000279: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #3A: Building G-81) - Consisting of the following equipment: Caterpillar model 398, 875 bhp, Serial number 66B733, drives 600 kW generator set in Building G-81.

B000280: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1A: Building G-81) - Consisting of the following equipment: Caterpillar model 398, 875 bhp, Serial number 66B2911, drives 600 kW generator set in Building G-81.

B000281: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2A: Building G-81) - Consisting of the following equipment: Caterpillar model 398, 875 bhp, Serial number 66B2909, drives 600 kW generator set in Building G-81.

E009241: DIESEL IC ENGINE, EMERGENCY FIRE PUMP - Consisting of the

following equipment: Detroit Diesel, Diesel, Fire Pump, Model No. 10447110, 4 cylinders, Turbo Charged, 117bhp @1760rpm, Serial No. 4A0254393.

T003003: DIESEL TANKS; Located at Mars Site - Consisting of the following equipment: Two 25,000 gallon No. 2 diesel fuel storage tanks, double-walled plasti-steel with leak detection, level detection and overfill protection at the Mars site.

VENUS SITE:

E009239: DIESEL IC ENGINE, EMERGENCY FIRE PUMP - Consisting of the following equipment: Detroit Diesel, Diesel, Fire Pump, Model No. DDFP03ANHLH7086, 3 cylinders, Turbo Charged, 99bhp @1760rpm, Serial No. 3A102239.

PORTABLE EQUIPMENT:

B009337: DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR - Consisting of the following equipment: One John Deere, Diesel fired internal combustion engine, Model No. TO4045T and Serial No. TO4045DF150, producing 100 bhp with 4 cylinders at 2500 rpm while consuming a maximum of 4 gal/hr. This equipment powers a Compressor.

B009338: DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR - Consisting of the following equipment: One John Deere, Diesel fired internal combustion engine, Model No. TO4045T and Serial No. CD4239d818684, producing 100 bhp with 4 cylinders at 2500 rpm while consuming a maximum of 4 gal/hr. This equipment powers a Compressor.

B009339: DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER - Consisting of the following equipment: One Deutz, Diesel fired internal combustion engine, Model No. BF4M2011 and Serial No. LF244855, producing 64 bhp with 4 cylinders at 1850 rpm while consuming a maximum of 3 gal/hr. This equipment powers a Welder.

B009340: DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER - Consisting of the following equipment: One Deutz, Diesel fired internal combustion engine, Model No. BF4M2011 and Serial No. LF432006, producing 64 bhp with 4 cylinders at 1850 rpm while consuming a maximum of 3 gal/hr. This equipment powers a Welder.

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# PART II
# FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

## *A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:*

1. A permit is required to operate this facility.
[Rule 203 - *Permit to Operate*; Version in State Implementation Plan (SIP) = California Air Resources Board (CARB) Ex. Order G-73, 40 Code of Federal Regulations (CFR) 52.220(c)(39)(ii)(B) - 11/09/78 43 Federal Register (FR) 52237; Current Rule Version = 07/25/77]

2. The equipment at this facility shall not be operated contrary to the conditions specified in the District Permit to Operate.
[Rule 203 - *Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. The Air Pollution Control Officer (APCO) may impose written conditions on any permit.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

5. Posting of the Permit to Operate is required on or near the equipment or as otherwise approved by the APCO/District.
[Rule 206 - *Posting of Permit to Operate*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

6. Owner/Operator shall not willfully deface, alter, forge, or falsify any permit issued under District rules.
[Rule 207 - *Altering or Falsifying of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

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7. Permits are not transferable.
[Rule 209 - *Transfer and Voiding of Permit*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

8. The APCO may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing.
[Rule 217 - *Provision for Sampling And Testing Facilities*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(31)(vi)(C) - 02/01/77 43 FR 52237; Current Rule Version = 07/25/77]

9. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
[SIP Pending: Rule 219 - *Equipment Not Requiring a Written Permit* as Amended 10/23/00; SIP Submitted 10/30/01; Prior version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237]

10. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.
[Rule 221 - *Federal Operating Permit Requirement*; Version in SIP = Current, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217]

11. Owner/Operator shall pay all applicable MDAQMD permit fees.
[Rule 301 - *Permit Fees;* Applicable Version = Amended: 06/27/05 and effective 01/01/06), Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees.
[Rule 312 - *Fees for Federal Operating Permits;* Applicable Version = Amended: 06/27/05 and effective 01/01/06), Applicable via Title V Program interim approval 02/05/96 61 FR 4217]

13. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:
    (a) While any unit is fired on Public Utilities Commission (PUC) grade natural gas, Periodic Monitoring for combustion equipment is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated

elsewhere in this permit regarding the logging of fuel type, amount, and suppliers' certification information.

(b) While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, is required to validate compliance with Rule 401 Visible Emissions limit as indicated below:

(i). Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation, a visible emissions inspection is required every three (3) months or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3-month time frame.

(ii). Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.

(iii). Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5-year period.

(iv). On any of the above, if a visible emissions inspection documents opacity, an U.S. Environmental Protection Agency (EPA) Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame.

[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[Rule 401 - *Visible Emissions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]
*[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]*

14. Owner/Operator is limited to use of the following quality fuels for fuel types specified elsewhere in this permit: PUC quality natural gas fuel - sulfur compounds shall not exceed 800 parts per million (ppm) calculated as hydrogen sulfide at standard conditions; diesel fuel - sulfur content shall not exceed 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limits is assumed for PUC quality natural gas fuel and CARB certified diesel fuel. Records shall be kept on-site and available for review by District, state, or federal personnel at any time. The sulfur content of non-CARB certified diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) method D 2622-82 or ASTM method D 2880-71, or equivalent.
[*40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements*]
[Rule 431 - *Sulfur Content of Fuels*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 - 43 FR 40011; Current Rule Version = 07/25/77]

15. Emissions of fugitive dust from any transport, handling, construction, or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility.

[Rule 403 - *Fugitive Dust*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

16. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an "Alternative $PM_{10}$ Control Plan" (ACP) pursuant to Rule 403.2(G) has been approved. [**SIP Pending:** Rule 403.2 - *Fugitive Dust Control for the Mojave Desert Planning Area* as amended 07/22/97 and submitted 10/18/96]

17. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter (PM) except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).
    (a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
    (b) This condition shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.
    (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

    [Rule 404 - *Particulate Matter Concentration*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]

18. Owner/Operator shall not discharge into the atmosphere from this facility, solid PM including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).
    (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
    (b) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

    [Rule 405 - *Solid Particulate Matter, Weight*; Version in SIP = Current, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489]

19. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide ($SO_2$), greater than or equal to 500 ppm by volume.
    [Rule 406 - *Specific Contaminants*; Version in SIP = 07/25/77, 40 CFR 52.220(c)(42)(xiii)(A) - 12/21/78 43 FR 52489, Subpart (a) only; Current Rule Version = 02/20/79]

20. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.

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(a) The provisions of this condition shall not apply to emissions from internal combustion engines.
[**SIP:** District Rule 407 – *Liquid and Gaseous Air Contaminants*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C) - 09/08/78 43 FR 40011; Current Rule Version = 07/25/77]

21. Owner/Operator shall not build, erect, install, or use any equipment at this facility, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.
(a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.

[**SIP:** Rule 408 – *Circumvention*; Version in SIP: 07/25/77, Approved, CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C), 43 FR 40011, 09/08/78]

22. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide ($CO_2$) at standard conditions averaged over a minimum of 25 consecutive minutes.

[**SIP:** District Rule 409 – *Combustion Contaminants*; Version in SIP: 07/25/1977, Approved, CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(C), 43 FR 40011, 09/08/78]

23. APCO, at his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment that has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:
(a) Any breakdown that results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
(b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
(c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
(d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a

petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.

(e) If the breakdown occurs outside normal District working hours, the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the APCO.

[**SIP Pending:** Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]

24. The provisions of Regulation IV except Rule 402 shall not apply to experimental research operations when the following requirements are met:
    (a) The purpose of the operation is to permit investigation, experiment, or research to advance the state of knowledge or the state of the art; and
    (b) The APCO has given written prior approval that shall include limitation of time.

    [**SIP:** District Rule 441 – *Research Operations*, Version not in SIP: 07/25/77, 40 CFR 52.272(a)(9)(i), 43 FR 40011, 09/08/78]

25. Owner/Operator of this facility shall not discharge into the atmosphere emissions in excess of the following from VOC containing materials or from organic solvents which are not VOCs unless such emissions have been reduced by at least 85%:
    (a) VOCs from all VOC containing materials, Emissions Units, equipment or processes subject to this rule, in excess of 540 kilograms (1,190 pounds) per month per Facility.
    (b) a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average.
    (c) The provisions of this condition shall not apply to:
        (1) The manufacture of organic solvents, or the transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
        (2) The emissions of VOCs from VOC-containing materials or equipment which are subject to the rules of Regulation IV or which are exempt from air pollution control requirements by said rules.
        (3) The spraying or other employment of organic solvents as insecticides, pesticides or herbicides.
        (4) The use of equipment or materials for which other requirements are specified in source specific rules of Regulation XI after the compliance dates specified in such source specific rules.
        (5) The use of 1-1-1 Trichloroethane.
    (6) Aerosol products

    [**SIP:** Rule 442 – *Usage of Solvents,* Version in SIP: 02/27/2006, Approved, 40 CFR

52.220(c)(347)(i)(C)(1), 72 FR 52791, 09/17/2007]

26. Owner/Operator shall not set open outdoor fires unless in compliance with Rule 444. Outdoor fires burned according to an existing District permit are not considered "open outdoor fires" for the purposes of Rule 444 (reference Rule 444(B)(10)).

[**SIP:** Rule 444 – *Open Outdoor Fires*, Version in SIP: 09/25/06, Approved, 40 CFR 52.220(c)(350)(B)(1) , 72 FR 61525, 10/31/2007]

27. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of Rule 1104 when engaged in wipe cleaning, cold solvent cleaning, and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. These requirements are listed as follows:
    (a) All degreasers shall be equipped with a cover, which reduces solvent evaporation and minimizes disturbing the vapor zone.
    (b) A permanent, conspicuous label summarizing the applicable operating requirements contained in Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of this rule.
    (c) <u>Cold Solvent Degreasers - Freeboard Requirements:</u>
        (i) Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.
        (ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover, which remains closed during the cleaning operation.
        (iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50$^{o}$C (120$^{o}$F) shall operate with a freeboard ratio equal to or greater than 0.75.
        (iv) A water cover may be used as an acceptable control method to meet the freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than one.
    (d) <u>Cold Solvent Degreasers - Cover Requirements:</u>
        (i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type, which is designed to easily open and close without disturbing the vapor zone.
    (e) <u>Cold Solvent Degreasers - Solvent Level Identification:</u>
        (i) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.
    (f) <u>All Degreasers shall comply with the following operating requirements</u>:
        (i) Any solvent cleaning equipment and any emission control device shall be

operated and maintained in strict accord with the recommendations of the manufacturer.

(ii) Degreasers shall not be operating with any detectable solvent leaks.

(ii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.

(iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; **or** a federally or state licensed facility to treat, store or dispose of such waste; **or** the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.

(v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.

(vi) Solvent carryout shall be minimized by the following methods:

(a) Rack workload arranged to promote complete drainage

(b) Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.

(c) Retain the workload inside of the vapor zone until condensation ceases.

(d) Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.

(e) Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)

(vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.

(viii) Except for sealed chamber degreasers, all solvent agitation shall be by pump recirculation, a mixer, or ultrasonics.

(ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, <u>unless</u>, the spray is conducted in a totally enclosed space, separated from the environment.

(x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.

(xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.

(xii) A degreaser shall be located so as to minimize drafts being directed across

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the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.

(xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.

(g) Rule 442 Applicability: Any solvent using operation or facility which is not subject to the source-specific Rule 1104 shall comply with the provisions of Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the volatile organic compound (VOC) limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.

(h) Solvent Usage Records. Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, Section (E), shall comply with the following requirements:

(1) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:

(i) Product name(s) used in the degreaser, and

(ii) The mix ratio of solvent compounds mixtures of solvents are used, and

(iii) VOC content of solvent or mixture of compounds as used, and

(iv) The total volume of the solvent(s) used for the facility, on a monthly basis, and

(v) The name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.

(2) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data are recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.

(3) Documentation shall be maintained on site of the disposal or on-site recycling of any waste solvent or residues.

(4) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5-year period as required by this Title V / Federal Operating Permit (Reference Rule 1203(D)(1)(d)(ii)).

[**SIP:** Rule 1104 - *Organic Solvent Degreasing Operations*; Version in SIP: 04/30/96, Approved, 40 CFR 52.220(c)(207)(i)(D)(2), 61 FR 18962, 04/30/96]

DRAFT

28. Owner/Operator's use of *Architectural Coatings* at this facility shall comply with the applicable requirements of Rule 1113, including the VOC limits specified in Rule 1113, section C, Table of Standards, as listed below:

Table 1
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Limits are expressed in grams of VOC per liter of Coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, Exempt Compounds, or Colorant added to tint bases. "Manufacturer's maximum recommendation" means the maximum recommendation for thinning that is indicated on the label or lid of the Coating container.

| Coating Category | Effective, 02/24/2003 | Effective, 01/01/2013 |
|---|---|---|
| **Primary Coatings** | | |
| Flat Coatings | 100 | 50 |
| Nonflat Coatings | 150 | 100 |
| Nonflat-High Gloss Coatings | 250 | 150 |
| **Specialty Coatings** | | |
| Aluminum Roof Coatings | n/a | 400 |
| Basement Specialty Coatings | n/a | 400 |
| Bituminous Roof Coatings | 300 | 50 |
| Bituminous Roof Primers | 350 | 350 |
| Bond Breakers | 350 | 350 |
| Concrete Curing Compounds | 350 | 350 |
| Concrete/Masonary Sealers | n/a | 100 |
| Driveway Sealers | n/a | 50 |
| Dry Fog Coatings | 400 | 150 |
| Faux Finishing Coatings | 350 | 350 |
| Fire Resistive Coatings | 350 | 350 |
| Floor Coatings | 250 | 100 |
| Form-Release Compounds | 250 | 250 |
| Graphic Arts Coatings (Sign Paints) | 500 | 500 |
| High Temperature Coatings | 420 | 420 |
| Industrial Maintenance Coatings | 250 | 250 |
| Low Solids Coatings | $120_a$ | $120_a$ |
| Magnesite Cement Coatings | 450 | 450 |
| Mastic Texture Coatings | 300 | 100 |
| Metallic Pigmented Coatings | 500 | 500 |
| Multi-Color Coatings | 250 | 250 |

DRAFT

| | | |
|---|---|---|
| Pre-Treatment Wash Primers | 420 | 420 |
| Primers, Sealers, and Undercoaters | 200 | 100 |
| Reactive Penetrating Sealers | n/a | 350 |
| Recycled Coatings | 250 | 250 |
| Roof Coatings | 250 | 50 |
| Rust Preventative Coatings | 400 | 250 |
| Shellacs: | | |
| Clear | 730 | 730 |
| Opaque | 550 | 550 |
| Specialty Primers, Sealers, and Undercoaters | 350 | 100 |
| Stains | 250 | 250 |
| Stone Consolidants | n/a | 450 |
| Swimming Pool Coatings | 340 | 340 |
| Traffic Marking Coatings | 150 | 100 |
| Tub and Tile Refinish Coatings | n/a | 420 |
| Waterproofing Membranes | n/a | 250 |
| Wood Coatings | n/a | 275 |
| Wood Preservatives | 350 | 350 |
| Zinc-Rich Primers | n/a | 340 |
| a: Limit is expressed as VOC Actual (G)(1)(a)(ii) | | |

Table 2
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Effective January 1, 2013 the coating categories in Table 2 are eliminated and will be subject to the VOC limit of the applicable category in Table 1, except as provided in Section (C)(2), (C)(3), and (C)(5) of Rule 1113.

Limits are expressed in grams of VOC per liter of Coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, Exempt Compounds, or Colorant added to tint bases. "Manufacturer's maximum recommendation" means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

| Coating Category | Effective 02/24/2003 |
|---|---|
| Antenna Coatings | 530 |
| Antifouling Coatings | 400 |
| Clear Wood Coatings | |

| | |
|---|---|
| Clear Brushing Lacquers | 680 |
| Lacquers (including lacquer sanding sealers) | 550 |
| Sanding Sealers (other than lacquer sanding sealers) | 350 |
| Varnishes | 350 |
| Fire-Retardant Coatings: | |
| Clear | 650 |
| Opaque | 350 |
| Flow Coatings | 420 |
| Quick-Dry Enamels | 250 |
| Quick-Dry Primers, Sealers, and Undercoaters | 200 |
| Swimming Pool Repair and Maintenance Coatings | 340 |
| Temperature-Indicator Safety Coatings | 550 |
| Waterproofing Sealers | 250 |
| Waterproofing Concrete/Masonry Sealers | 400 |

[**SIP Pending:** Rule 1113 - *Architectural Coatings*; Version in SIP = 02/24/03, LA/LD, 40 CFR 52.220(c)(315)(i)(C)(1), 69 FR 34, 01/02/04; Amended on 04/23/12, Submitted to CARB 09/21/12]

29. Owner/Operator's use of *Wood Products Coatings* at this facility shall comply with the applicable requirements of Rule 1114, including the VOC limits specified in Rule 1114, part C, Table of Standards, as listed below:

(1) <u>VOC Content of Coatings & Adhesives</u>

(a) Any Owners and/or Operators of Wood Products Coating Application Operations shall not apply any Coating or Adhesive to a Wood Product which has a VOC Content, including any VOC-containing material added to the original Coating supplied by the manufacturer, which exceeds the applicable limit specified below, unless emissions to the atmosphere are controlled by air pollution abatement equipment with an Overall Control Efficiency of at least 85 percent. Any Coating subject to this rule that meets either of the two VOC Content limit formats (grams per liter or pounds per gallon [lb/gal]) is in compliance with this subsection.

(i) LIMITS
Grams of VOC per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

| **Coating** | **Current Limit** g/L (lb/gal) | **On and After 7/1/97** | | **On and After 7/1/2005** |
|---|---|---|---|---|
| | | **Column I** *or* g/L (lb/gal) | Column II g/L (lb/gal) | g/L (lb/gal) |
| Clear Sealers | 680 (5.7) | 550 (4.6) | 680 (5.7) | 275 (2.3) |
| Clear Topcoat | 680 (5.7) | 550 (4.6) | 275 (2.3) | 275 (2.3) |
| Pigmented Primers, Sealers and Undercoats | 600 (5.0) | 550 (4.6) | 600 (5.0) | 275 (2.3) |
| Pigmented Topcoats | 600 (5.0) | 550 (4.6) | 275 (2.3) | 275 (2.3) |

Effective July 1, 1997, a person or facility shall use Coatings on Wood Products that comply with either all VOC Content limits in Column I or all VOC Content limits in Column II. A person or facility that applies a Pigmented Primer, Sealer or Undercoat, but not a Clear Topcoat or Pigmented Topcoat, to a Wood Product shall be subject to column I for that product.

(ii) Notwithstanding the requirements of subsection (C)(1)(a)(i), a person or facility that applies a topcoat and a primer, sealer or undercoat to a Shutter may, until July 1, 2005, choose to comply with the VOC Content limits specified below for that Shutter:

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(c) LIMITS

Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

| Coating | g/L (lb/gal) |
|---|---|
| Clear Sealers | 275 (2.3) |
| Clear Topcoat | 680 (5.7) |
| Pigmented Primers, Sealers & Undercoats | 275 (2.3) |
| Pigmented Topcoats | 600 (5.0) |

(d) LIMITS

Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

| Coating | Current Limit g/L (lb/gal) | On and After 7/1/97 | On and After 7/1/2005 |
|---|---|---|---|
| | | g/L (lb/gal) | g/L (lb/gal) |
| Fillers | 500 (4.2) | 500 (4.2) | 275 (2.3) |
| High-Solid Stains | 700 (5.8) | 550 (4.6) | 350 (2.9) |
| Inks | 500 (4.2) | 500 (4.2) | 500 (4.2) |
| Mold-Seal Coatings | 750 (6.3) | 750 (6.3) | 750 (6.3) |
| Multi-Colored Coatings | 685 (5.7) | 685 (5.7) | 275 (2.3) |
| Low-Solids Stains, Toners and Washcoats | 800 (6.7) | 480 (4.0) | 120 (1.0) |
| Adhesives | 250 (2.1) | 250 (2.1) | 250 (2.1) |

[**SIP:** Rule 1114 - *Wood Products Coating Operations*; Version in SIP = 11/25/96, Approved: 40 CFR 52.220(c)(244)(i)(C), 63 FR 44132, 08/18/98]

DRAFT

30. Owner/Operator's use of *Metal Parts and Products Coatings* at this facility shall comply with the applicable requirements of Rule 1115, including the VOC limits specified in Rule 1115, as listed below:

Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with a capture and control system Combined Efficiency of at least 85 percent:

LIMITS
(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

| Coating | Air Dried | | Baked | |
|---|---|---|---|---|
| (lb/gal) | g/L | | (lb/gal) | g/L |
| General | 420 | (3.5) | 360 | (3.0) |
| Military Specification | 420 | (3.5) | 360 | (3.0) |
| Etching Filler | 420 | (3.5) | 420 | (3.5) |
| Solar-Absorbent | 420 | (3.5) | 360 | (3.0) |
| Heat-Resistant | 420 | (3.5) | 360 | (3.0) |
| High-Gloss | 420 | (3.5) | 360 | (3.0) |
| Extreme High-Gloss | 420 | (3.5) | 360 | (3.0) |
| Metallic | 420 | (3.5) | 420 | (3.5) |
| Extreme Performance | 420 | (3.5) | 360 | (3.0) |
| Prefabricated Architectural | | | | |
| Component | 420 | (3.5) | 275 | (2.3) |
| Touch Up | 420 | (3.5) | 360 | (3.0) |
| Repair | 420 | (3.5) | 360 | (3.0) |
| Silicone-Release | 420 | (3.5) | 420 | (3.5) |
| High Performance Architectural | 420 | (3.5) | 420 | (3.5) |
| Camouflage | 420 | (3.5) | 420 | (3.5) |
| Vacuum-Metalizing | 420 | (3.5) | 420 | (3.5) |
| Mold-Seal | 420 | (3.5) | 420 | (3.5) |
| High-Temperature | 420 | (3.5) | 420 | (3.5) |
| Electric-Insulating Varnish | 420 | (3.5) | 420 | (3.5) |
| Pan-Backing | 420 | (3.5) | 420 | (3.5) |
| Pretreatment Wash Primer | 420 | (3.5) | 420 | (3.5) |
| Clear Coating | 520 | (4.3) | 520 | (4.3) |

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[**SIP:** Rule 1115 - *Metal Parts and Products Coating Operations*; Version in SIP: 04/22/96, Approved, 40 CFR 52.220(c)(239)(i)(A)(2), 62 FR 67002, effective 2/26/98]

31. Owner/Operator's use of *Automotive Finishing Operations* at this facility shall comply with the applicable requirements of Rule 1116, including the VOC limits specified in Rule 1116, as listed below:

Owner/Operator's use of *Automotive Finishing Operations* at this facility shall comply with the applicable requirements of Rule 1116, including the VOC limits specified in Rule 1116, as listed below:

(1) VOC Contents of Coatings

(a) Effective on the dates specified, a Person shall not apply Coating to a Motor Vehicle, Mobile Equipment, or Associated Parts or Components, that has a VOC content in excess of the limits contained in Table 1 and Table 2 of this subsection.

Table 1 - Coating Categories and VOC Limits

| | VOC Regulatory Limit, as applied, in grams per Liter (pounds per gallon) |
|---|---|
| **Coating Categories** | **Effective on and after 7/1/2011** |
| Adhesion Promoter | 540 (4.5) |
| Clear Coating | 250 (2.1) |
| Color Coating | 420 (3.5) |
| Multi-color Coating | 680 (5.7) |
| Pretreatment Coating | 660 (5.5) |
| Primer | 250 (2.1) |
| Primer Sealer | 250 (2.1) |
| Single-stage Coating | 340 (2.8) |
| Temporary Protective Coating | 60 (0.5) |
| Truck Bed Liner Coating | 310 (2.6) |
| Underbody Coating | 430 (3.6) |
| Uniform Finish Coating | 540 (4.5) |
| Any Other Coating Type | 250 (2.1) |

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Table 2 - Coating Categories and VOC Limits

| | VOC Regulatory Limit, as applied, in grams per Liter (pounds per gallon) | |
|---|---|---|
| **Coating Categories** | **Group I Vehicles* Effective prior to 7/1/2011** | **Group II Vehicles** Effective prior to 7/1/2011** |
| Pretreatment Wash Primer | 780 (6.5) | 780 (6.5) |
| Primer | 250 (2.1) | 250 (2.1) |
| Primer Sealer | 250 (2.1) | 340 (2.8) |
| Topcoat | 340 (2.8) | 420 (3.5) |
| Metallic Topcoat | 420 (3.5) | 420 (3.5) |
| Extreme Performance | 420 (3.5) | 420 (3.5) |

*Group 1 Vehicles are public transit buses and mobile equipment including but not limited to: truck bodies, truck trailers, utility bodies, camper shells, mobile cranes, bulldozers, street cleaners, golf carts, and implements of husbandry, where color match is not required.
**Group 2 Vehicles are passenger cars; large/heavy duty truck cabs and chassis with a manufacturer's gross vehicle weight over 10,000 pounds; light and medium duty trucks and vans having a manufacturer's gross vehicle weight rating of 10,000 pounds or less; and motorcycles; and Group 1 Vehicles where color match is required.

(b) Compliance with the VOC limits shall be based on VOC content, including any VOC material added to the original coating supplied by the manufacturer, less water and Exempt Compounds, as applied to the Motor Vehicle, Mobile Equipment, or Associated Parts or Components.

(2) Most Restrictive VOC Limit

(a) If anywhere on the container of any Automotive Coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature, any representation is made that indicates that the Coating meets the definition of, or is recommended for use of, more than one of the Coating categories listed in subsection (C)(1)(a) and (b), then the lowest applicable VOC content limit in Table 1 and Table 2 shall apply.

(3) Alternative Compliance

(a) Emission Control System

A Person may comply with the provisions of subsection (C)(1) by using an approved Emission Control System consisting of collection and control devices, that is approved, in writing, by the APCO for reducing emissions of VOC. The APCO shall approve such Emission Control Systems only if the VOC emissions resulting from the use of non-compliant Automotive Coatings will be reduced to a level equivalent to or lower than that which would have been achieved by the compliance with the terms of subsection (C)(1). The approved Emission Control System must achieve a control efficiency of at least 85 percent.

[**SIP:** Rule 1116 - *Automotive Finishing Operations*; Version in SIP: 08/23/10, Approved, 40 CFR 52.220(c)(388)(i)(F)(1), 77 FR 47536, effective 8/9/12]

32. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*). [SIP: Not SIP. Final Title V Program Approval 11/21/03 68 FR 65637; Partial Withdrawal of approval 10/15/02 67 FR 63551; Notice of Deficiency 05/22/02 67 FR 35990; Approval 12/17/01 66 FR 63503; Interim Approval 02/05/96 61 FR 4217]

33. Owner/Operator shall comply with all requirements of Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*. Specifically, the Owner/Operator shall include Greenhouse Gas (GHG) emission data and all applicable GHG requirements with any application, as specified in 1211(D)(1), for a Federal Operating Permit.
[**SIP Pending:** Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*; as adopted 2/28/2011, Submitted 3/24/2011]

34. Owner/Operator shall comply with the requirements of 40 CFR 63, Subpart ZZZZ – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating internal Combustion Engines*. Specifically, the owner/operator shall comply with this NESHAP by complying with the permit conditions in PART III.
[40 CFR 63, Subpart ZZZZ]

35. Owner/Operator shall comply with the requirements of 40 CFR Part 63, Subpart CCCCCC – *National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities* (6C).
[40 CFR 63, Subpart CCCCCC]

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## *B. FACILITY-WIDE MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS:*

1. Any data and records generated and/or kept pursuant to the requirements in this federal operating permit (Title V Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data, or logs shall be supplied to District, state, or federal personnel upon request.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's *Compliance Test Procedural Manual*. Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's *Compliance Test Procedural Manual*. All emission determinations shall be made as stipulated in the *Written Test Protocol* accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved *Written Test Protocol* may be used with District concurrence.
[Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]

3. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
   (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
   (b) Fuel suppliers' fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement are sufficient.

   [*40 CFR 70.6(a)(3)(B) – Periodic Monitoring Requirements*]
   [Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
   [Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)] and in California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]

4. (a) Owner/Operator shall submit Compliance Certifications as prescribed by Rule

1203(F)(1) and Rule 1208, in a format approved by MDAQMD. Compliance Certifications by a Responsible Official shall certify the truth, accuracy and completeness of the document submitted and shall contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.
[40 CFR 70.6(c)(5)(i); Rule 1208; Rule 1203(D)(1)(vii-x)]

(b) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.
[40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]

(c) Owner/Operator shall comply with any additional certification requirements as specified in 42 United States Code (U.S.C.) §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.
[Rule 1203 (D)(1)(g)(x)]

(d) Owner/operator shall submit a *Compliance Certification Report* to the APCO/District on an *annual* basis. The *Compliance Certification Report* shall be postmarked by June 29 of each year. Each report must cover the previous calendar year and shall be certified to be true, accurate, and complete by "The Responsible Official". A copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.
[40 CFR 72.90.a <u>and</u> *Derived from* Rule 1203 (D)(1)(g)(v - x)]
[40 CFR 72.90.a <u>and</u> Rule 1203 (D)(1)(g)(v - x)]

5. Owner/Operator shall submit, on a *semi-annual* basis a *Monitoring Report* to the APCO/District. Each *Monitoring Report* shall cover the periods from May 30 to November 28 and from November 29 to May 29, and be postmarked by the 30 day of the end of the reporting period. This *Monitoring Report* shall be certified to be true, accurate, and complete by "The Responsible Official" and shall include the following information and/or data:

(a) Summary of deviations from any federally enforceable requirement in this permit.
(b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
(c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.

An alternate Monitoring Report format may be used upon prior approval by MDAQMD.
[Rule 1203(D)(1)(e)(i)]

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6. Owner/Operator shall promptly report all deviations from Federal Operating Permit requirements including, but not limited to, any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation. [Rule 1203(D)(1)(e)(ii) and Rule 430(C)]
   Prompt reporting shall be determined as follows:
   (a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District. [SIP Pending: Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 2/24/95]
   (b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any required monitoring reports at least every six (6) months. [Rule 1203(D)(1)(e)(i)]

7. If any facility unit(s) should be determined not to be in compliance with any federally enforceable requirement during the 5-year permit term, then Owner/Operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition, Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:
   (a) A narrative description of how the facility will achieve compliance with such requirements; and
   (b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et

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seq.; and

(c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance. [Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

## *C. FACILITY-WIDE COMPLIANCE CONDITIONS:*

1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice.
[40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]

2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.
[40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]

3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.
[40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]

4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.
[40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]

5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.
[District Rule 1203 (D)(1)(f)(ii)]

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6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit. [District Rule 1201 (I)(2); Rule 1203(D)(1)(g)(v)]

7. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and subpart M, *Asbestos*.
[40 CFR 61, subparts A and M]

8. Owner/Operator shall notify APCO/District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 subpart M, *National Emission Standard for Asbestos*.
[40 CFR 61.145.b]

9. Owner/Operator shall notify the APCO/District, on an **annual** basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145.b of 40 CFR 61, subpart M [see cite for threshold triggering and applicability].
[40 CFR 61.145.b]

10. Owner/Operator shall comply with 40 CFR 82 – Protection of Stratospheric Ozone, as applicable. Any servicing of air conditioners shall be performed by a qualified contracting company.
[40 CFR 82]

11. Facility-wide emissions shall not exceed 250 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10, as a running total for the preceding 364 day period plus the current day's operation. For emergency engines, only emissions generated during testing and maintenance, shall apply toward the facility-wide emission limits. Facility-wide emissions shall be monitored on an hourly, daily, monthly, and a running year (the last 365 days) basis. These records shall be maintained as current, for a minimum of five (5) years, and made available upon District, State, and/or Federal request.
[District Rule 1302 (C)(2)(a)]

12. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.
[Consolidated Emissions Reporting Rule, 40 CFR 51, Subpart A and District Rule 1302(C)(2)(a)] ***District and State Applicability only.***

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# PART III
# EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

## *A. CONDITIONS APPLICABLE TO THE FOLLOWING STATIONARY, DIESEL IC ENGINES, EMERGENCY GENERATORS:*

E000272: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2C: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1967, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B1447, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers an Ideal Electric Generator Model No. SAB and Serial No. 260370, rated at 600 kW(e).

E000273: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1C: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1967, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B1556, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers an Ideal Electric Generator Model No. SAB and Serial No. 262701, rated at 600 kW(e).

E000274: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2B: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1973, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1690 cubic feet per minute at 833.5 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 399 and Serial No. 35B835, After Cooled, Turbo Charged, Direct Injected, producing 1280 bhp with 16 cylinders at 1200 rpm while consuming a maximum of 68 gal/hr. This equipment powers a Kato Engineering Generator Model No. 750SS9D and Serial No. 68431-2, rated at 850 kW(e).

E000275: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #3B: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1973, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1690 cubic feet per minute at 833.5 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 399 and Serial No. 35B838, After Cooled, Turbo Charged, Direct Injected, producing 1280 bhp with 16 cylinders at 1200 rpm while consuming a maximum of 68 gal/hr. This equipment powers a Kato Engineering Generator Model No. 750SS9D and Serial No. 68431-1, rated at 850 kW(e).

E000276: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1B: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1973, uncertified, existing ICE with a stack height of 27.6', 833.5 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 399 and Serial No. 35B837, After Cooled, Turbo Charged, Direct Injected, producing 1280 bhp with 16 cylinders at 1200 rpm while consuming a maximum of 68 gal/hr. This equipment powers a Kato Engineering Generator Model No. 750SS9D and Serial No. 68431-3, rated at 850 kW(e).

E000277: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #4B: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1973, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1690 cubic feet per minute at 833.5 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 399 and Serial No. 35B834, After Cooled, Turbo Charged, Direct Injected, producing 1280 bhp with 16 cylinders at 1200 rpm while consuming a maximum of 68 gal/hr. This equipment powers a Kato Engineering Generator Model No. 750SS9D and Serial No. 70295, rated at 850 kW(e).

E000278: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #4A: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1967, uncertified, existing ICE with a stack height of 21', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B2912, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers an Ideal Electric Generator Model No. SAB and Serial No. 262707, rated at 600 kW(e).

E000279: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #3A: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1965, uncertified, existing ICE with a stack height of 17.9', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B733, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers an Ideal Electric Generator Model No. SAB and Serial No. 249958, rated at 600 kW(e).

E000280: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1A: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1964, uncertified, existing ICE with a stack height of 27.9', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B2911, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers a Kato Engineering Generator Model No. A2421600001 and Serial No. 97979, rated at 600 kW(e).

E000281: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2A: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1965, uncertified, existing ICE with a stack height of 17.9', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B2909, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers a Kato Engineering Generator Model No. A2421600002 and Serial No. 11729, rated at 600 kW(e).

E003382: DIESEL IC ENGINE, EMERGENCY GENERATOR @ ECHO SITE consisting of:
Year of Manufacturer 1991, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Cummins, Diesel fired internal combustion engine Model No. NT-855-64 and Serial No. 11638482, producing 375 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 9 gal/hr. This equipment powers a TBD Generator Model No. TBD and Serial No. TBD, rated at 230 kW.

E005133: DIESEL IC ENGINE, EMERGENCY GENERATOR @ APOLLO SITE consisting of:
Year of Manufacturer TBD, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Cummins, Diesel fired internal combustion engine Model No. LTA10G1 and Serial No. 34886879, producing 380 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 9 gal/hr. This equipment powers an ONAN Generator Model No. 230DFAB and Serial No. K970658009, rated at 230 kW(e).

1. Owner/Operator shall ensure this equipment complies with applicable Part II and Part III conditions.
[*40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)*

2. This existing, diesel engine, and any associated air pollution control equipment, shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.6605(a) and (b) and 63.6625(e)]

3. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.
[17 CCR 93115.10(d) and 40 CFR 63.6625(f)]

4. This equipment shall only be fired on diesel fuel that meets the requirements of CARB Diesel Fuel as defined in 17 CCR 93115.4(a)(8), or an alternative fuel that meets the requirements of 17 CCR 93115.5(a)(2-6), pursuant to the Air Toxic Control Measure for Stationary Compression Ignition Engines.
[17 CCR 93115.5(a)] ***District and State Applicability only.***

5. This equipment shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than twenty (20) hours per year for testing and maintenance.
[17 CCR 93115.6(b)(3) and 40 CFR 63.6640(f)(ii)]

6. The owner/operator shall maintain an operations log for this equipment current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:
a. Date of each use and hours of operation with documentation of how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation, including what classified the operation as non-emergency. [17 CCR 93115.10(f) and 40 CFR 63.6655(f)]; and,
b. Monthly and calendar year operation in terms of total hours, both emergency and non-emergency use, classified as described in 'a.' above [17 CCR 93115.10(f)]; and,
c. Monthly fuel use [17 CCR 93115.10(f)]; and,
d. Documentation of certified fuel use, as required by condition 4 (may use the supplier's certification of sulfur content if it is maintained as part of this log); and,
e. Maintenance performed on this equipment, inclusive of the management practice requirements of condition 7 below; and,
f. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment [40 CFR 63.6640(b) and 63.6655(a)(2)]; and,
g. Records of all required maintenance performed on the air pollution control and monitoring equipment [40 CFR 63.6655(a)(4)]; and,
h. Records of actions taken during periods of malfunction to minimize emissions in accordance with condition 2, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [40 CFR63.6655(a)(5)].

7. This engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ, and pursuant to this federal regulation, this engine is required to meet the following compliance requirements by May 3, 2013:
The owner/operator of this equipment shall demonstrate continuous compliance by committing to a maintenance schedule inclusive of the management practice requirements listed below:
a. Change oil and oil filter every 500 hours of operation or annually, whichever comes first (source has the option to utilize an oil analysis program pursuant to 40 CFR 63.6625(i) in order to extend the specified oil change requirement.);
b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and,
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[40 CFR 63.6603(a) and 63.6640(a)]

8. If this emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements required by condition 7, or shutting down the engine would pose an unacceptable risk, the management practice can be delayed until the emergency is over, or the risk has been abated. The management practice should be performed as soon as practicable after the emergency/risk has ended. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.
[40 CFR 63.6603(a)]

9. The owner/operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply.
[40 CFR 63.6625(h)]

10. This equipment may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.
[17 CCR 93115.6(b)(1) and 40 CFR 63.6640(f)(iii)]

11. This equipment shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.
[17 CCR 93115.6(c)(2)(C)] ***District and State Applicability Only.***

12. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
[District Rule 204]

## ***B. <u>CONDITIONS APPLICABLE TO THE FOLLOWING STATIONARY, DIESEL IC ENGINES, EMERGENCY FIRE PUMPS</u>:***

E003381: DIESEL IC ENGINE, EMERGENCY FIRE PUMP (APOLLO SITE) consisting of:
Year of Manufacturer 2000, stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Detroit, Diesel fired internal combustion engine Model No. VMFPT6HT L1211H and Serial No. 91B-1059, producing 140 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 6 gal/hr. This equipment powers a TBD Fire Pump Model No. TBD and Serial No. TBD, rated at TBD.

E009239: DIESEL IC ENGINE, EMERGENCY FIRE PUMP (VENUS SITE) consisting of:1989, stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Detroit, Diesel fired internal combustion engine Model No. DDFP03ANHLH7086 and Serial No. 3A102239, producing 99 bhp with 3 cylinders at 1760 rpm while consuming a maximum of 4 gal/hr. This equipment powers a TBD Fire Pump Model No. TBD and Serial No. TBD, rated at TBD.

E009240: DIESEL IC ENGINE, EMERGENCY FIRE PUMP (ECHO SITE) consisting of:1989, stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Detroit, Diesel fired internal combustion engine Model No. DDFP03ANHLH7086 and Serial No. 3A10226A, producing 99 bhp with 3 cylinders at 1760 rpm while consuming a maximum of 6 gal/hr. This equipment powers a TBD Fire Pump Model No. TBD and Serial No. TBD, rated at TBD.

E009241: DIESEL IC ENGINE, EMERGENCY FIRE PUMP (MARS SITE) consisting of:1989, stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Detroit, Diesel fired internal combustion engine Model No. 10447110 and Serial No. 4A0254393, producing 99 bhp with 6 cylinders at 1760 rpm while consuming a maximum of 7 gal/hr. This equipment powers a TBD Fire Pump Model No. TBD and Serial No. TBD, rated at TBD.

1. Owner/Operator shall ensure this equipment complies with applicable Part II and Part III conditions.
[*40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)*

2. This existing, diesel engine, and any associated air pollution control equipment, shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.6605(a) and (b) and 63.6625(e)]

3. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.
[17 CCR 93115.10(d) and 40 CFR 63.6625(f)]

4. This equipment shall only be fired on diesel fuel that meets the requirements of CARB Diesel Fuel as defined in 17 CCR 93115.4(a)(8), or an alternative fuel that meets the requirements of 17 CCR 93115.5(a)(2-6), pursuant to the Air Toxic Control Measure for Stationary Compression Ignition Engines.
[17 CCR 93115.5(a)] ***District and State Applicability only.***

5. This equipment shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than twenty (20) hours per year for testing and maintenance.
[17 CCR 93115.6(b)(3) and 40 CFR 63.6640(f)(ii)]

6. The hour limits indicated in condition 5, above, do not apply to in-use emergency fire pump assemblies that are driven directly by stationary diesel-fueled CI engines and only operated the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2002 edition, which is incorporated herein by reference.
[17 CCR 93115.3(n)] ***District and State Applicability only.***

7. The owner/operator shall maintain an operations log for this equipment current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:
a. Date of each use and hours of operation with documentation of how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation,

including what classified the operation as non-emergency. [17 CCR 93115.10(f) and 40 CFR 63.6655(f)]; and,
b. Monthly and calendar year operation in terms of total hours, both emergency and non-emergency use, classified as described in 'a.' above [17 CCR 93115.10(f)]; and,
c. Monthly fuel use [17 CCR 93115.10(f)]; and,
d. Documentation of certified fuel use, as required by condition 4 (may use the supplier's certification of sulfur content if it is maintained as part of this log); and,
e. Maintenance performed on this equipment, inclusive of the management practice requirements of condition 9 below; and,
f. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment [40 CFR 63.6640(b) and 63.6655(a)(2)]; and,
g. Records of all required maintenance performed on the air pollution control and monitoring equipment [40 CFR 63.6655(a)(4)]; and,
h. Records of actions taken during periods of malfunction to minimize emissions in accordance with condition 2, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [40 CFR63.6655(a)(5)].

9. This engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ, and pursuant to this federal regulation, this engine is required to meet the following compliance requirements by May 3, 2013:
The owner/operator of this equipment shall demonstrate continuous compliance by committing to a maintenance schedule inclusive of the management practice requirements listed below:
a. Change oil and oil filter every 500 hours of operation or annually, whichever comes first (source has the option to utilize an oil analysis program pursuant to 40 CFR 63.6625(i) in order to extend the specified oil change requirement.);
b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and,
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR 63.6603(a) and 63.6640(a)]

10. If this emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements required by condition 9, or shutting down the engine would pose an unacceptable risk, the management practice can be delayed until the emergency is over, or the risk has been abated. The management practice should be performed

as soon as practicable after the emergency/risk has ended. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.
[40 CFR 63.6603(a)]

11. The owner/operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply.
[40 CFR 63.6625(h)]

12. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
[District Rule 204]

## *C. CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, DIESEL IC ENGINES, EMERGENCY GENERATORS:*

E004635: DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR (ECHO SITE) consisting of: Year of Manufacturer 1985, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Palmer, Diesel fired internal combustion engine Model No. 100-3P-18 and Serial No. 66D5416, Inter Cooled, producing 135 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 7 gal/hr. This equipment powers a TBD Generator Model No. TBD and Serial No. TBD, rated at 100 kW(e).

E007893: DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR (ECHO SITE) consisting of: Year of Manufacturer 1998, tier 1, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Perkins, Diesel fired internal combustion engine Model No. 1006 6T (D100P2) and Serial No. 7AK03323, Direct Injected, Inter Cooled, Turbo Charged, producing 166 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 8 gal/hr. This equipment powers a Generac Generator Model No. 0886 S and Serial No. 2040128, rated at 87.9 kW(e).

1. Owner/Operator shall ensure this equipment complies with applicable Part II and

Part III conditions.
[*40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)*

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302 (C)(2)(a)]

3. This diesel ICE and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually.) [Title 17 CCR 93116.2(a)(29)] ***District and State Applicability only.***

4. This unit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements; or alternative diesel fuel, or CARB diesel fuel utilizing fuel additives, that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines. [Title 17 CCR 93116.3(a)] ***District and State Applicability only.***

5. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time by January 1, 2012. [Title 17 CCR 93116.4(c)(2)(A)] ***District and State Applicability only.***

6. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. [Title 17 CCR 93116.2(a)(12) and 9.3116.3(c)(4)] ***District and State Applicability only.***

7. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
a. Date of each use and duration of each use (in hours);
b. Reason for use (emergency use, testing & maintenance, etc);

c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log). [Title 17 CCR 93116.4(c)(2)(C)] ***District and State Applicability only.***

8. This portable, uncertified, emergency engine shall be removed from service or replaced no later than January 1, 2017. The replacement engine shall be certified to the most stringent of either the federal or California emission standards for the appropriate class and category of nonroad engine in effect at the time or replacement. [Title 17 CCR 93116.3(b)(1)(B)] ***District and State Applicability only.***

9. The owner/operator of this unit must submit a 'Statement of Compliance' signed by the Responsible Official that the fleet standards are being achieved and a summary that identifies each portable engine in the fleet and the associated emission rate (g/bhp-hr) and other required information, see Title 17 CCR 93116.4(e)(2), (3), (4), (5), (6) and (7).

   Compliance and Submittal Dates Pursuant to 17 CCR 93116.4(e)(2):

| Weighted DPM Emission Fleet Average Date | Submit by |
|---|---|
| January 1, 2013 | March 1, 2013 |
| January 1, 2017 | March 1, 2017 |
| January 1, 2020 | March 1, 2020 |

***District and State Applicability only.***

10. The owner/operator of fleets that are exempted from the requirements of section 93116.4 pursuant to section 93116.4 (a), the Responsible Official shall certify that all portable diesel-fueled engines in the fleet satisfy the requirements of section 93116.4(a). See Title 17 CCR 93116.4(f) for details. ***District and State Applicability only.***

## *D. CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, DIESEL IC ENGINES, LOW-USE EQUIPMENT:*

B009337: DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR consisting of:

Year of Manufacturer 2002, Tier 1, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One John Deere, Diesel fired internal combustion engine Model No. T04045DF150 and Serial No. T04045D724416, producing 80 bhp with 4 cylinders at 2500 rpm while consuming a maximum of 4 gal/hr. This equipment powers an Ingersol Rand Compressor Model No. TBD and Serial No. 04BB818684, rated at TBD.

B009338: DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR consisting of:
Year of Manufacturer 2002, Tier 1, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One John Deere, Diesel fired internal combustion engine Model No. TO4045T and Serial No. CD4239d818684, producing 100 bhp with 4 cylinders at 2500 rpm while consuming a maximum of 4 gal/hr. This equipment powers an Ingersol Rand Compressor Model No. 04BB818684 and Serial No. TBD, rated at TBD.

B009339: DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER consisting of:
Year of Manufacturer TBD, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Deutz, Diesel fired internal combustion engine Model No. BF4M2011 and Serial No. LF432006, producing 64 bhp with 4 cylinders at 1850 rpm while consuming a maximum of 3 gal/hr. This equipment powers a Miller Welder Model No. TBD and Serial No. TBD, rated at TBD.

B009340: DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER consisting of:
Year of Manufacturer TBD, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Deutz, Diesel fired internal combustion engine Model No. BF4M2011 and Serial No. LF244855, producing 64 bhp with 4 cylinders at 1850 rpm while consuming a maximum of 3 gal/hr. This equipment powers a Miller Welder Model No. TBD and Serial No. TBD, rated at TBD.

1. Owner/Operator shall ensure this equipment complies with applicable Part II and Part III conditions.
[*40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)*

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302 (C)(2)(a)]

3. This diesel ICE and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually.) [Title 17 CCR 93116.2(a)(29)] ***District and State Applicability only.***

4. This unit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements; or alternative diesel fuel, or CARB diesel fuel utilizing fuel additives, that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines. [Title 17 CCR 93116.3(a)] ***District and State Applicability only.***

5. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time by January 1, 2012. [Title 17 CCR 93116.4(c)(2)(A)] ***District and State Applicability only.***

6. This engine has been designated as "low-use" pursuant to Title 17 CCR 93116. Engine operation shall not exceed 80 hours per year, except for in an emergency event as defined in Title 17 CCR 93116. [Title 17 CCR 93116.2(a)(22) and 9.3116.3(c)(4)] ***District and State Applicability only.***

7. The owner/operator shall maintain an operations log for this unit, current and on-site (or at a central location), for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
a. Date of each use and duration of each use (in hours);
b. Reason for use (regular prime use, emergency, testing & maintenance, etc.);
c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,

d. Fuel sulfur concentration (may use the supplier's certification of sulfur content if it is maintained as part of this log). [Title 17 CCR 93116.4(c)(2)(C)] ***District and State Applicability only.***

8. This certified, low-use engine shall satisfy one of the following requirements by January 1, 2020:
a. The portable diesel-fueled engine is certified to Tier 4 emission standards for newly manufactured nonroad engines; or,
b. The portable diesel-fueled engine is equipped with a properly functioning level-3 verified technology; or,
c. The portable diesel-fueled engine is equipped with a combination of verified emission control strategies that have been verified together to achieve at least 85% reduction in diesel PM emissions.
[Title 17 CCR 93116.3(b)(3)] ***District and State Applicability only.***

9. The owner/operator of this unit must submit a 'Statement of Compliance' signed by the Responsible Official that the fleet standards are being achieved and a summary that identifies each portable engine in the fleet and the associated emission rate (g/bhp-hr) and other required information, see Title 17 CCR 93116.4(e)(2), (3), (4), (5), (6) and (7).

Compliance and Submittal Dates Pursuant to 17 CCR 93116.4(e)(2):

| Weighted DPM Emission Fleet Average Date | Submit by |
|---|---|
| January 1, 2013 | March 1, 2013 |
| January 1, 2017 | March 1, 2017 |
| January 1, 2020 | March 1, 2020 |

***District and State Applicability only.***

10. The owner/operator of fleets that are exempted from the requirements of section 93116.4 pursuant to section 93116.4 (a), the Responsible Official shall certify that all portable diesel-fueled engines in the fleet satisfy the requirements of section 93116.4(a). See Title 17 CCR 93116.4(f) for details. ***District and State Applicability only.***

## *E.* ***CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, PROPANE IC ENGINES, PRIME GENERATOR:***

B010789: PROPANE IC ENGINE, PORTABLE GENERATOR consisting of:

Year of Manufacturer 2009, stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One GM, Propane fired internal combustion engine Model No. 9PSIBB.10NGP and Serial No. 8.1L21400S09, producing 240 bhp with 8 cylinders at 3000 rpm while consuming a maximum of 2 other. This equipment powers an Kohler Generator Model No. 100 REZG and Serial No. 2270879, rated at TBD.

1. Owner/Operator shall ensure this equipment complies with applicable Part II and Part III conditions.
[*40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)*

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302 (C)(2)(a)]

3. This engine cannot remain at a location for more than twelve (12) consecutive months. A location is any single site at a building, structure, facility, or installation. Any engine (or engines) that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period [40 CFR 1068.30, "nonroad engine" (2)(iii)].

   If the owner/operator intends to utilize this engine as a stationary engine, a permit modification must be submitted to the District prior to stationary operation, and the engine is subject to all applicable stationary engine regulations.
[District Rule 1302 (C)(2)(a)]

4. This unit shall only be fired on Propane or LPG.
[District Rule 431]

5. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[District Rule 1302 (C)(2)(a)]

6. The owner/operator shall maintain an operations log for this equipment, current and on-site (or at a central location), for a minimum of five (5) years, and this log shall be provided to District, State and/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:
   a. Date and location of each use; and,
   b. Duration of each use (in hours) and the type of use (regular prime use, emergency, testing & maintenance, etc.); and,
   c. Calendar year operation in terms of fuel consumption (in gallons or equivalent) and total hours.
   [Rule 1203 (D)(1)(d)(ii) and 40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

## *F. CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, PROPANE IC ENGINES, EMERGENCY GENERATOR:*

E011623: PROPANE IC ENGINE, EMERGENCY, PORTABLE GENERATOR consisting of:
Year of Manufacture 2010, USEPA Family Name BPSIB5.702ED, stack height 2', stack diameter 2", exhaust flow rate of 735 cubic feet per minute at 677 degrees Fahrenheit. One General Motors, Propane fired internal combustion engine Model No. 8.1 and Serial No. 23472, producing 127 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 7 gal/hr. This equipment powers a Kohler Generator Model No. 100 REZG and Serial No. 2335656, rated at 97 kW(e).

1. Owner/Operator shall ensure this equipment complies with applicable Part II and Part III conditions.
   [*40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)*

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
   [District Rule 1302 (C)(2)(a)]

3. This engine cannot remain at a location for more than twelve (12) consecutive months. A location is any single site at a building, structure, facility, or installation. Any engine (or engines) that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period [40 CFR 1068.30, "nonroad engine" (2)(iii)].

   If the owner/operator intends to utilize this engine as a stationary engine, a permit modification must be submitted to the District prior to stationary operation, and the engine is subject to all applicable stationary engine regulations.
   [District Rule 1302 (C)(2)(a)]

4. This unit shall only be fired on Propane or LPG.
   [District Rule 431]

5. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
   [District Rule 1302 (C)(2)(a)]

6. This equipment shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted.
   [District Rule 1302 (C)(2)(a)]

7. The owner/operator shall maintain an operations log for this equipment, current and on-site (or at a central location), for a minimum of five (5) years, and this log shall be provided to District, State and/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:
   a. Date and location of each use; and,
   b. Duration of each use (in hours) and the type of use (emergency or testing and maintenance); and,
   c. Calendar year operation in terms of fuel consumption (in gallons or equivalent) and total hours.
      [Rule 1203 (D)(1)(d)(ii) and 40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*]

## *G. <u>CONDITIONS APPLICABLE TO THE FOLLOWING DIESEL FUEL STORAGE TANKS</u>:*

T003003: DIESEL FUEL STORAGE TANKS (MARS SITE) consisting of: Two 25,000 gal No. 2 diesel fuel storage tanks, double-walled plasti-steel with leak detection, level detection and overfill protection.

1. Owner/Operator shall ensure this equipment complies with applicable Part II and Part III conditions.
[*40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)*

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302 (C)(2)(a)]

3. The applicant shall be required to comply with all applicable Rules and Regulations of the District. Applicable rules include but are not necessarily limited to Regulation IV.
[District Rule 1302 (C)(2)(a)]

## *H. CONDITIONS APPLICABLE TO THE FOLLOWING GASOLINE DISPENSING FACILITY, NON RETAIL, (ECHO SITE):*

N001477; Fuel storage and dispensing:
Tanks - Number of Tanks: 2

| Tank Number: | 1 | 2 |
|---|---|---|
| Material Stored: | 87U | Diesel |
| Volume Gallons: | 10,000 | 10,000 |
| Above/Underground (A/U): | U | U |

Dispensing Equipment:
i. Gasoline Dispensing Nozzles (Number): 2
ii. Diesel Dispensing Nozzles (Number): 1
iii. Phase II Vapor Recovery System (Type): Healy

PERMIT CONDITIONS:

1. Owner/Operator shall ensure this equipment complies with applicable Part II and Part III conditions.
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)

2. The District toll-free telephone number that must be posted is 1-800-635-4617.
[District Rule 461 (C)(3)(h)]

3. The owner/operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461. Such logs or records shall be maintained at the facility for at least five (5) years and shall be available to the District upon request.
[40 CFR 70.6 (a)(3)(B), District Rule 461 (E)(1), and District Rule 1203(D)(1)(d)(ii)]

4. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the District.
[District Rule 201]

5. The vapor vent pipes are to be equipped with pressure relief valves.
[District Rule 461 (C)(2)(c)(xiii)]

6. The Phase II Vapor Recovery System shall be tested in accordance with the requirements of Executive Order (EO) VR-201-H, as stated herein. The owner or operator shall conduct and pass the following tests ANNUALLY using the latest adopted version of the following test procedures:

a. TP-201.3, Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities (March 17, 1999);
b. Exhibit 8, Required Items in Conducting TP-201.3;
c. Exhibit 4; Determination of Static Pressure Performance of the Healy Clean Air Separator;
d. Exhibit 5, Vapor to Liquid Volume Ratio; and
e. Exhibit 7, Nozzle Bag Test Procedure; and

The District shall be notified a minimum of 10 days prior to performing the required tests with the final results submitted to the District within 30 days of completion of the tests.

The District shall receive passing test report no later than six (6) weeks prior to

the expiration date of this permit
[Rule 1203 (D)(1)(d)(ii)] 40 CFR 70.6 (a)(3)(B) - *Periodic Monitoring Requirements*](For Periodic Monitoring Requirements, see Part II and Part III conditions) and District Rule 1203 (D)(1)(d)(ii)]

6. The Enhanced Vapor Recovery (EVR) 2-Point Phase I System shall be tested in accordance with the requirements of EO VR-101-C, as stated herein. The owner or operator shall conduct and pass the following tests at least once every three years using the latest adopted version of the following test procedures:

   a. Static Torque of Rotatable Phase I Adaptors per TP201.1B;
   b. Depending on system configuration, either TP-201-1D, Leak Rate of Drop Tube Overfill Prevention, Device and Spill Container Drain Valve; or TP-201.1C, Leak Rate of Drop Tube/Drain Valve Assembly; and
   c. P/V valves in accord with TP-201.1E.

   Passing test report shall be received by the District no later than six (6) weeks prior to the expiration date of this permit in those years when testing is required.
   [Rule 1203 (D)(1)(d)(ii)] 40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions) and District Rule 1203 (D)(1)(d)(ii)]

7. The annual throughput of gasoline shall be less than 600,000 gallons per calendar year.
   Throughput records shall be kept on site and available to District personnel upon request. Before this annual throughput can be increased the facility may be required to submit to the District a site specific Health Risk Assessment (HRA) in accord with a District approved plan. In addition, a public notice and/or comment period may be required. These throughputs are established to enable this facility to operate without installing ISD.
   [Rule 1203 (D)(1)(d)(ii)] 40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions) and District Rule 1203 (D)(1)(d)(ii)] and [District Rule 461 (E)(3)]

8. Enhanced Vapor Recovery (EVR) 2-Point Phase I Vapor Control Equipment to be maintained in Compliance with Executive Order (EO) VR-101-C.
   [Rule 461 (C)(1)(g)- Gasoline Transfer and Dispensing; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

9. Assist EVR Phase II without ISD Equipment to be maintained in Compliance

with EO VR-201-H, Dispensers shall be Uni-Hose type.
[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)
[Rule 204 - Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]
[Rule 461 - Gasoline Transfer and Dispensing; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

10. In accordance with the EVR implementation time line, and based on this facilities throughput limit, In-Station-Diagnostics (ISD) is not required. If the o/o wishes to increase throughput allowance, ISD must be installed in accordance with the EVR timeline. Prior to installing this system, a District approved Authority To Construct permit must be obtained.
[Rule 461 - Gasoline Transfer and Dispensing; Version in SIP = Current, 40 CFR 52.220(c)(198)(i)(E)(1) - 05/03/95 - 60 FR 21702]

# PART IV
# STANDARD FEDERAL OPERATING PERMIT CONDITIONS

## *A. STANDARD CONDITIONS:*

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.
[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]

2. Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]

3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).
[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]

4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]

5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]

6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]

7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. Owner/Operator shall furnish to District, state or federal personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]

9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

10. Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.
[40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]

11. Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.
[40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]

12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that "only" Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).
[40 CFR 70.6(f)(1)(i); Rule 1203(G)(1)]

13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.
[40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]

14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations, which occurred prior to the issuance of this Federal Operating Permit.
[40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]

15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.
[40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]

16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be

construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.
[40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]

17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State Implementation Plan.
[40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]

18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.
[40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]

19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]

20. If Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart F]

21. If Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart B]

22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.
[Section 113(a) of the Clean Air Act]

# PART V
# OPERATIONAL FLEXIBILITY

***ALTERNATIVE OPERATING SCENARIO(S):***

## ***A. <u>OFF PERMIT CHANGES</u>:***

I. Permitee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:

A. Permitee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of Rule 219; and

1. The proposed change is not:

a. Subject to any requirements under Title IV of the Federal Clean Air Act; or *[See 1203(E)(1)(c)(i)d.]*

b. A modification under Title I of the Federal Clean Air Act; or

c. A modification subject to Regulation XIII; and *[See 1203(E)(1)(c)(i) d.]*

d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and *[See 1203(E)(1)(c)(i)c.]*

e. The change does not result in the exceedance of the emissions allowable under this permit (whether expressed as an emissions rate or in terms of total emissions). *[See 1203(E)(1)(c)(i)e.]*

II. Procedure for "Off Permit" Changes

A. If a proposed "Off Permit Change" qualifies under Part V, Section (B)(I)(A)(1) above, permitee shall implement the change as follows:

1. Permitee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. *[See 1203(E)(1)(c)(i)b.]*

2. In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:

a. A notification that this application is also an application for an "Off Permit" Change pursuant to this condition; and *[See 1203(E)(1)(c)(i)b.]*

b. A list of any new Applicable Requirements which would apply as a result of the change; and *[See 1203(E)(1)(c)(i)b.]*

c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. *[See 1203(E)(1)(c)(i)c.]*

3. Permitee shall forward a copy of the application and notification to USEPA upon submitting it to the District. *[See 1203(E)(1)(c)(i)a.]*

B. Permitee may make the proposed change upon receipt from the District of the Authority to Construct Permit or thirty (30) days after forwarding the copy of the notice and application to USEPA whichever occurs later. *[See 1203(E)(1)(c)(i)a. and g.]*

C. Permitee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate, which evidences the Off Permit Change to this Title V permit. *[See 1203(E)(1)(c)(i)f.]*

D. Permitee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). *[See 1203(E)(1)(c)(i)f.]*

III. Other Requirements:

A. The provisions of Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.

B. The provisions of Rule 1203(G) – Permit Shield do not apply to an Off Permit Change made pursuant to this condition. *[See 40 CFR 70.4(b)(i)(B)]*

[Rule 1203(E)(1)(c)]

# PART VI
# CONVENTIONS, ABREVIATIONS, DEFINITIONS

## A. ***CONVENTIONS:***

The following referencing conventions are used in this federal operating permit:

40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS)
40 CFR Part 60, Appendix F, Quality Assurance Procedures
40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40 CFR Part 61, Subpart M, National Emission Standards for Asbestos
40 CFR Part 63, National Emission Standards For Hazardous Air Pollutants For Affected Source Categories
40 CFR Part 72, Permits Regulation (Acid Rain Program)
40 CFR Part 73, Sulfur Dioxide Allowance System
40 CFR Part 75, Continuous Emission Monitoring
40 CFR Part 75, Subpart D, Missing Data Substitution Procedures
40 CFR Part 75, Appendix B, Quality Assurance and Quality Control Procedures
40 CFR Part 75, Appendix C, Missing Data Estimating Procedures
40 CFR Part 75, Appendix D, Optional $SO_2$ Emissions Data Protocol
40 CFR Part 75, Appendix F, Conversion Procedures
40 CFR Part 75, Appendix G, Determination of $CO_2$ Emissions

## B. ***OTHER CONVENTIONS:***

1. Unless otherwise noted, a "day" shall be considered a 24-hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

## C. ***ABBREVIATIONS:***

Abbreviations used in this permit are as follows:

| | |
|---|---|
| CFR | Code of Federal Regulations |
| APCO | Air Pollution Control Officer |
| bhp | brake horsepower |

| | |
|---|---|
| Btu | British thermal units |
| CCR | California Code of Regulations |
| CEMS | continuous emissions monitoring system |
| CO | carbon monoxide |
| $CO_2$ | carbon dioxide |
| District | Mojave Desert Air Quality Management District (formed July 1993) |
| MDAQMD | Mojave Desert Air Quality Management District (formed July 1993) |
| MD | Mojave Desert Air Quality Management District (formed July 1993) |
| SB | San Bernardino County APCD (1975 to formation of MDAQMD) |
| gr/dscf | grains per dry standard cubic foot |
| gpm | gallons per minute |
| gph | gallons per hour |
| hp | horse power |
| H&SC | California Health and Safety Code |
| lb | pounds |
| lb / hr | pounds per hour |
| lb / MM Btu | pounds per million British thermal units |
| MM Btu | million British thermal units |
| MM Btu/hr | million British thermal units per hour |
| MW | Megawatt electrical power |
| MW(e) net | net Megawatt electrical power |
| $NH_3$ | ammonia |
| NMOC | non-methane organic compounds |
| $NO_x$ | oxides of nitrogen |
| $NO_2$ | nitrogen dioxide |
| $O_2$ | oxygen |
| pH | pH (acidity measure of solution) |
| $PM_{10}$ | particulate matter less than 10 microns aerodynamic diameter |
| ppmv | parts per million by volume |
| psig | pounds per square inch gauge pressure |
| QA | quality assurance |
| rpm | revolutions per minute |
| RVP | Reid vapor pressure |
| SCAQMD | South Coast Air Quality Management District |
| scfm | standard cubic feet per minute |
| scfh | standard cubic feet per hour |
| SIC | Standard Industrial Classification |
| SIP | State of California Implementation Plan |
| $SO_x$ | oxides of sulfur |
| $SO_2$ | sulfur dioxide |

| | |
|---|---|
| tpy | tons per year |
| TVP | true vapor pressure |

## *D. MDAQMD Rule SIP History:*

***For Rule SIP History including approval, pending approval, etc, see:***
*http://www.mdaqmd.ca.gov/Modules/ShowDocument.aspx?documentid=45*