

MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT

Federal Operating Permit Number: 008300565

For: US AIR FORCE, EDWARDS AFB

Facility: AIR FORCE RESEARCH LABORATORY

Issued Pursuant to MDAQMD Regulation XII

Effective Date:

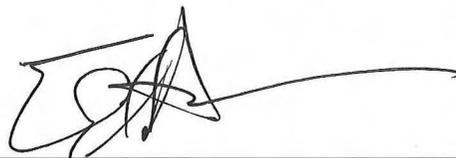
December 23, 2015

●SEE TITLE V PAGE 2 FOR PERMIT REVISION SUMMARY●

This Federal Operating Permit Expires On:

December 23, 2020

Issued By: Eldon Heaston
Executive Director
Air Pollution Control Officer



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PERMIT REVISIONS

December 8, 2015 Renewal of Title V Permit

April 13, 2011 Administrative Modification:

Update effective date and hence expiration date in accordance with actual renewal date (9/9/2010 as opposed to 9/1/2009) and 40 CFR 70.4b(10).

September 9, 2010 Renewal of Title V Permit:

Update and renew Title V Permit after concurrent 30 day public notice and 45 day EPA review periods, effective reissue date September 1, 2009.

May 16, 2006 Administrative Modification:

Change/update Responsible Official and other contact persons and phone numbers.

March 20, 2006 Administrative Modification:

Title V Permit Reporting periods were slightly adjusted to match the reporting periods in adjoining air district. See Part II, Section B, Item # 4 and 5, page 21. Annual Compliance Certification will be due on 1 November (as opposed to 8 October, each year). The Semi Annual Monitoring Report of Deviations due dates will be 1 May and 1 November (as opposed to 8 April and 8 October).

September 1, 2004 Initial Issuance of Title V Permit

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PART I
INTRODUCTORY INFORMATION

A. FACILITY IDENTIFYING INFORMATION:

Owner/Company Name: US AIR FORCE, EDWARDS AIR FORCE BASE

Facility Name: AIR FORCE RESEARCH LABORATORY

Facility Location: AIR FORCE RESEARCH LABORATORY

Mailing Address: US AIR FORCE, EDWARDS AIR FORCE BASE
412 CEG/CEVC
120 N. Rosamond Blvd.
Edwards AFB, CA 93524

MDAQMD Federal Operating Permit Number: 008300565

MDAQMD Company Number: 0083

MDAQMD Facility Number: 00565

Responsible Official: Carl E. Schaefer, Brigadier General, USAF
Title: Commander, 412th Test Wing

Phone Number: (661) 277-3011

Facility “Site” Contacts: John Vidic (661) 277-1457
Marc Minneci (661) 277-1478
Herb Roraback (661) 277-1407

Facility “Off Site” Contacts: John Vidic (661) 277-1457
Marc Minneci (661) 277-1478
Herb Roraback (661) 277-1407

Nature of Business: National Security

SIC/NAIC Code: 9711/928110

Facility Location: UTM (km) 430E/3866N

B. FACILITY DESCRIPTION:

This facility is a rocket motor test and evaluation facility.

C. EQUIPMENT LIST:

Permit No.	Permit Type	Permit Description
B000743	Basic	TEST STAND, ROCKET (COMPLEX 1-36D)
B000744	Basic	TEST STAND, ROCKET (COMPLEX 1-52)
B000745	Basic	TEST STAND, ROCKET (COMPLEX 1-56)
E004536	Emergency Engine	DIESEL IC ENGINE, EMERGENCY GENERATOR (NEXRAD)

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 equipment at this facility, the use of which may cause the issuance of air pollutants or control the issuance of air pollutants except as provided in District Rule 202 or exempted from permitting requirement by District Rule 219.
[District Rule 203]
2. Equipment at this facility, subject to permit, shall not be operated contrary to the conditions specified in the District permit to operate.
[District Rule 203]
3. The Air Pollution Control Officer may impose written conditions on any permit.
[District Rule 204]
4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
[District Rule 204]
5. Posting of the permit to operate is required on or near the equipment subject to the requirement to obtain a permit, or as otherwise approved by the APCO/District.
[District Rule 206]
6. Owner/Operator shall not willfully deface, alter, forge or falsify any permit issued under District rules.
[District Rule 207]
7. Permits are not transferable between equipment, locations or one person to another.
[District Rule 209]
8. Equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in District Rule 219 and meets the applicable criteria contained in District Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
[District Rule 219]
9. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.

[District Rule 221]

10. Owner/Operator shall pay all applicable MDAQMD permit fees.
[District Rule 301]
11. Owner/Operator shall pay all applicable MDAQMD Title V permit fees.
[District Rule 312]
12. 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 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.
 - (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 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.
 - (v) The provisions of this condition shall not apply to rocket engine and rocket motor testing.

[40 CFR 70.6 (a)(3)(i)(B)]
13. Owner/Operator shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is
 - (a) As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
 - (b) Of such opacity as to obscure an observer’s view to a degree equal to or greater than does smoke that is designated No. 1 on the Ringelmann Chart.

[District Rule 401]

14. Owner/Operator must adhere to the provisions of District Rule 403, Fugitive Dust, including the following provisions:
- (a) A person shall not cause or allow the emissions of fugitive dust from any transport, handling, construction or storage activity so that the presence of such dust remains visible in the atmosphere beyond the property line of the emission source (does not apply to emissions emanating from unpaved roadways open to public travel or farm roads. This exclusion shall not apply to industrial or commercial facilities).
 - (b) A person shall take every reasonable precaution to minimize fugitive dust emissions from wrecking, excavation, grading, clearing of land and solid waste disposal operations.
 - (c) A person shall not cause or allow particulate matter to exceed 100 micrograms per cubic meter when determined as the difference between upwind and downwind samples collected on high volume samplers at the property line for a minimum of five hours.
 - (d) A person shall take every reasonable precaution to prevent visible particulate matter from being deposited upon public roadways as a direct result of their operations. Reasonable precautions shall include, but are not limited to, the removal of particulate matter from equipment prior to movement on paved streets or the prompt removal of any material from paved streets onto which such material has been deposited.

[District Rule 403]

15. Owner/Operator shall comply with the applicable requirements of District Rule 403.2 unless an “Alternative PM₁₀ Control Plan” (ACP) pursuant to District Rule 403.2(G) has been approved.

[District Rule 403.2]

16. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in District 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.
 - (d) The provisions of this condition shall not apply to rocket engine and rocket motor testing.

[District Rule 404]

17. Owner/Operator shall not discharge into the atmosphere from this facility, solid particulate matter including lead and lead compounds in excess of the rate shown in

District 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.
- (c) The provisions of this condition shall not apply to rocket engine and rocket motor testing.

[District Rule 405]

18. A person shall not discharge into the atmosphere from any single source of emission whatsoever, any one or more of the following contaminants in any state or combination thereof, exceeding in concentration:

- (a) Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO₂):
 - (i) 500 ppm by volume
- (b) The following elements and compounds, which would exist as liquid or gas at standard conditions:
 - (i) Hydrogen Fluoride (HF) 400 ppm by volume
 - (ii) Hydrogen Chloride (HCl) 800 ppm by volume
 - (iii) Hydrogen Bromide (HBr) 50 ppm by volume
 - (iv) Bromine (Br) 50 ppm by volume
 - (v) Chlorine (CL₂) 450 ppm by volume
 - (vi) Fluorine (F₂) 50 ppm by volume
- (c) This rule does not apply to combined fluorides, chlorides or bromides, other than the acid version. With respect to fluorides, the rule applies only to the combustion of hydrogen containing fuels and fluorine-containing oxidizers to form hydrogen fluoride.
- (d) Compliance of aerospace vehicle rocket engine firings with the limits of this rule shall be determined by measurement of contaminant concentrations at ground level at the property line, or boundary, of the military base, reservation, or property on which the test site is located.

[District Rule 406]

19. 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.

- (a) The provisions of this condition shall not apply to emissions from internal combustion engines.
- (b) The provisions of this condition shall not apply to rocket engine and rocket motor testing.

[District Rule 407]

20. 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 which 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.

[District Rule 408]

21. 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 (CO₂) at standard conditions averaged over a minimum of 25 consecutive minutes. The provisions of this condition shall not apply to rocket engine and rocket motor testing.

[District Rule 409]

22. APCO in his/her discretion, may refrain from enforcement action against an owner/operator of any equipment which 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 which 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 Air Pollution Control Officer.

[District Rule 430]

23. Owner/Operator shall not burn any PUC quality natural gas fuel at this facility containing sulfur compounds in excess of 800 ppm calculated as hydrogen sulfide at standard conditions, or any diesel fuel having sulfur content in excess of 0.5 percent by weight. Compliance with District Rule 431 sulfur limit for PUC quality natural gas fuel shall be by the exclusive use of utility grade/pipeline quality natural gas. Records of natural gas supplier fuel quality/sulfur content limit shall be kept on-site for review by District, state or federal personnel at any time. Compliance with District Rule 431 sulfur limit for diesel fuel shall be determined by keeping records of the diesel fuel supplier's fuel analysis guarantee showing fuel sulfur content. The sulfur content of diesel fuel shall be determined

by use of ASTM method D 2622-82, or (ASTM method D 2880-71, or equivalent).
[District Rule 431]
[40 CFR 70.6 (a)(3)(i)(B)]

24. The provisions of Regulation IV except District 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.
- [District Rule 441]
25. The owner/operator of this facility shall meet the following emission and operating requirements:
- (a) Shall not discharge VOCs into the atmosphere from all VOC containing materials, Emissions Units, equipment or processes subject to this rule, in excess of 540 kilograms (1,190 pounds) per month at this Facility.
 - (i) Compliance with the VOC limit above may be obtained through use of any of the following or any combination thereof:
 - a. Product reformulation or substitution;
 - b. Process changes;
 - c. Improvement of operational efficiency;
 - d. Development of innovative technology;
 - e. operation of emission collection and control system that reduces overall emissions by eighty-five percent (85%).
 - (b) Shall not discharge into the atmosphere a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average. For purposes of VOC quantification, discharge shall include a drying period of 12 hours following the application of such non-VOC solvents.
 - (c) The provisions of this condition shall not apply to:
 - (i) The manufacture, transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
 - (ii) The emissions of VOCs from VOC-containing materials or equipment which are subject to District Regulation IV rules or which are exempt from air pollution control requirements by such rules.
 - (iii) The use of pesticides including insecticides, rodenticides or herbicides.
 - (iv) The use of 1,1,1 trichloroethane, methylene chloride and trichlorotrifluoroethane.
 - (v) Aerosol products.
 - (vi) VOC containing materials or equipment which is not subject to VOC limits of any rule found in District Regulation XI – Source Specific Standards.
 - (d) Owner/operator shall maintain daily usage records for all VOC-containing

materials subject to this condition. The records shall be retained for five years and be made available upon request. VOC records shall include but not be limited to:

- (i) The amount, type and VOC content of each solvent used; and
 - (ii) The method of application and substrate type; and
 - (iii) The permit units involved in the operation (if any).
- (e) Determination of VOC Content in Solvent-containing materials, Presence of VOC in Clean-up Materials, or Determination of Efficiency of Emission Control Systems must be made in accordance with methods and provisions of District Rule 442.

[District Rule 442]

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

[District Rule 444]

27. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of District 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 that reduces solvent evaporation and minimizes disturbing the vapor zone.
- (b) A permanent, conspicuous label summarizing the applicable operating requirements contained in District 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) Cold Solvent Degreasers - Freeboard Requirements:
 - (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°C (120°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 1.
- (d) Cold Solvent Degreasers - Cover Requirements:
 - (i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type that is designed to easily open and close without disturbing the vapor zone.

- (e) Cold Solvent Degreasers - Solvent Level Identification:
 - (i) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.
- (f) All Degreasers shall comply with the following operating requirements:
 - (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.
 - (iii) 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, unless, 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 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) District Rule 442 Applicability:
Any solvent using operation or facility which is not subject to the source-specific District Rule 1104 shall comply with the provisions of District Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the VOC limits, equipment limits or the operational limits of District Rule 1104 shall be subject to the applicable provisions of District Rule 442.
- (h) Solvent Usage Records:
Owner/Operator subject to District Rule 1104 or claiming any exemption under District Rule 1104, Section (E), shall comply with the following requirements:
- (i) 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:
 - a. Product name(s) used in the degreaser, and
 - b. The mix ratio of solvent compounds mixtures of solvents are used, and
 - c. VOC content of solvent or mixture of compounds as used, and
 - d. The total volume of the solvent(s) used for the facility, on a monthly basis, and
 - e. The name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.
 - (ii) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of District Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data is 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.
 - (iii) Documentation shall be maintained on site of the disposal or on site recycling of any waste solvent or residues.
 - (iv) 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.

[District Rule 1104]

28. Owner/Operator’s use of Architectural Coatings at this facility shall comply with the applicable requirements of District Rule 1113, including the VOC limits specified in District Rule 1113, part C, 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, 01/01/2013
Primary Coatings	
Flat Coatings	50
Nonflat Coatings	100
Nonflat-High Gloss Coatings	150
Specialty Coatings	
Aluminum Roof Coatings	400
Basement Specialty Coatings	400
Bituminous Roof Coatings	50
Bituminous Roof Primers	350
Bond Breakers	350
Concrete Curing Compounds	350
Concrete/Masonry Sealers	100
Driveway Sealers	50
Dry Fog Coatings	150
Faux Finishing Coatings	350
Fire Resistive Coatings	350
Floor Coatings	100
Form-Release Compounds	250
Graphic Arts Coatings (Sign Paints)	500
High Temperature Coatings	420
Industrial Maintenance Coatings	250
Low Solids Coatings	120 _a
Magnesite Cement Coatings	450
Mastic Texture Coatings	100
Metallic Pigmented Coatings	500
Multi-Color Coatings	250
Pre-Treatment Wash Primers	420
Primers, Sealers, and Undercoaters	100
Reactive Penetrating Sealers	350
Recycled Coatings	250

Roof Coatings	50
Rust Preventative Coatings	250
Shellacs:	
Clear	730
Opaque	550
Specialty Primers, Sealers, and Undercoaters	100
Stains	250
Stone Consolidants	450
Swimming Pool Coatings	340
Traffic Marking Coatings	100
Tub and Tile Refinish Coatings	420
Waterproofing Membranes	250
Wood Coatings	275
Wood Preservatives	350
Zinc-Rich Primers	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 District 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

[District Rule 1113]

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

(a) VOC Content of Coatings & Adhesives

(i) 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.

VOC CONTENT LIMITS FOR WOOD COATINGS

Grams of VOC per Liter of Coating

Less Water and Less Exempt Compounds (VOC Content)

Coating Category	Effective, 07/01/05 g/L (lb/gal)
Clear Sealers	275 (2.3)
Clear Topcoats	275 (2.3)
Pigmented Primers, Sealers, and Undercoats	275 (2.3)
Pigmented Topcoats	275 (2.3)
Fillers	275 (2.3)
High-Solid Stains	350 (2.9)
Inks	500 (4.2)
Mold-Seal Coatings	750 (6.3)
Multi-Colored Coatings	275 (2.3)
Low-Solids Stains, Toners and Washcoats	120 (1.0)
Adhesives	250 (2.1)

(ii) Notwithstanding the requirements of subsection (C)(1)(a)(i) of District Rule 1114, 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:

VOC CONTENT LIMITS FOR WOOD COATINGS USED FOR SHUTTERS ONLY
 Grams of VOC Per Liter of Coating
 Less Water and Less Exempt Compounds (VOC Content)

Coating Category	Effective, 07/01/05 g/L (lb/gal)
Clear Sealers	275 (2.3)
Clear Topcoats	680 (5.7)
Pigmented Primers, Sealers, and Undercoats	275 (2.3)
Pigmented Topcoats	600 (5.0)

[District Rule 1114]

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

VOC CONTENT LIMITS FOR METAL PARTS AND PRODUCTS COATINGS

Coating	Air Dried g/L (lb/gal)	Baked g/L (lb/gal)
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)
<i>Prefabricated Architectural</i>		
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)
<i>High Performance</i>		
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)

[District Rule 1115]

31. Owner/Operator’s use of coatings used on aerospace vehicle parts and products at this facility shall comply with the applicable requirements of District Rule 1118, Aerospace Vehicle Parts and Products Coatings Operations, including the VOC limits listed in District Rule 1118, as specified below:
- (a) A person shall not apply any coating or specify the use of any coating, which, as applied, emits or may emit volatile organic compounds into the atmosphere in excess of the limits shown in the table below. These limits are expressed in Grams of VOC per Liter of Coating Less Water and Exempt Compounds (VOC content):

VOC CONTENT LIMITS FOR AEROSPACE COATINGS

Coating	g/L (lb/gal)
<i>Adhesive</i>	
Bonding Primer	250 (2.1)
Non-structural adhesive	250 (2.1)
Structural adhesive, autoclavable	50 (0.4)
Structural adhesive, non-autoclavable	700 (5.9)
CARC	500 (4.2)
Electric/Radiation Effect	800 (6.7)
<i>Extreme Performance</i>	
Coating	420 (3.5)
Interior Topcoat	420 (3.5)
<i>Fire Resistant Coating</i>	
Civilian	650 (5.4)
Military	970 (7.7)
Fuel Tank Coating	720 (6.0)
General Coating Product	350 (2.9)
High Temperature Coating	720 (6.0)
Interior Topcoat	340 (2.8)
<i>Maskant</i>	
Chemical Processing	600 (5.0)
Chemical Processing, Type I Etchant	622 (5.2)

Chemical Processing, Type II Etchant	160 (1.3)
Pretreatment Wash Primer	780 (6.6)
Primer	350 (2.9)
Rain Erosion Resistant Coating	600 (5.0)
Sealant	600 (5.0)
Sealant Bonding Primer	720 (6.0)
Self-Priming Topcoat	420 (3.5)
<i>Space Vehicle Coating</i>	
Electrostatic-Discharge	800 (6.7)
Other	1000 (8.3)
Temporary Protective Coating	250 (2.1)
Topcoat	420 (3.5)
Unicoat	420 (3.5)
Wing Coating	750 (6.3)

[District Rule 1118]

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*).

[District Regulation XII]

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.

[District Rule 1211]

B. FACILITYWIDE 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.

[District Rule 1203(D)(1)(d)(ii)]

[40 CFR 70.6(a)(3)(ii)(B)]

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.

[District Rule 204]

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 is sufficient.

[District Rule 204]

[California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]

[40 CFR 70.6(a)(3)(B)]

[Federal Clean Air Act: § 110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)]

4. The facility must submit a Comprehensive Emissions Inventory Report (CEIR) to the District, in a format approved by the District, upon District request.

[District Rule 1302(C)(2)(a)]

[40 CFR 51, Subpart A]

District and State Applicability only.

5. Owner/Operator shall submit, annually, a Compliance Certification as prescribed by District Rule 1203(F)(1) and District Rule 1208. Each Compliance Certification shall certify the truth, accuracy and completeness of the document submitted and 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. This certification shall be certified by the Responsible Official.

[District Rule 1203(D)(1)(g)(vii); District Rule 1203(F)(1); District Rule 1208; and 40 CFR 70.6(c)(5)(i)]

- (a) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.

[District Rule 1203(D)(1)(g)(viii); and 40 CFR 70.6(c)(5)(ii)]

- (b) Owner/Operator when submitting any Compliance Certification(s) to the MDAQMD shall contemporaneously submit such Compliance Certification(s) to USEPA, Region IX Administrator.

- [District Rule 1203(D)(g)(ix); and 40 CFR 70.6(c)(5)(iii)]
- (c) Owner/Operator shall comply with any additional certification requirements as specified in 42 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.
[District Rule 1203 (D)(1)(g)(x)]
- (d) The annual Compliance Certification period shall cover September 1st of the previous year through August 31st of the current year, and shall be submitted with postmark no later than December 1st of each year.
[District Rule 1203 (D)(1)(g)(v – x)]
6. Owner/Operator shall submit, semi-annually, a Monitoring Report of Deviations to the APCO/District, with a copy to the USEPA, Region IX Administrator. The Monitoring Report of Deviations 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 all reportable 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.
- (d) The semi-annual reporting periods shall be submitted as follows:
- (1) September 1st through February 28th, due with postmark no later than June 1st of each year; and,
- (2) March 1st through August 31st, due with postmark no later than December 1st of each year.
- [District Rule 1203(D)(1)(c)(i - iii); District Rule 1203(D)(1)(d)(i); District Rule 1203(D)(1)(e)(i - ii); District Rule 1203(D)(1)(g)(v - x)]
7. 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.
[District Rule 430(C) and District Rule 1203(D)(1)(e)(ii)]
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.

[District Rule 430]

- (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.

[District Rule 1203(D)(1)(e)(i)]

8. 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 V (District 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 District 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 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.

[District Rule 1201 (I)(3)(iii); District Rule 1203 (D)(1)(e)(ii); and District Rule 1203 (D)(1)(g)(v)]

9. Owner/Operator shall notify the District at least ten (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]

10. Owner/Operator shall notify the 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. In the event that no asbestos containing material is predicted to be removed for the forthcoming year, no report shall be required under this provision.
[40 CFR 61.145.b]

C. FACILITYWIDE 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.
[District Rule 1203(D)(1)(g)(i)]
[40 CFR 70.6(c)(2)(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.
[District Rule 1203(D)(1)(g)(ii)]
[40 CFR 70.6(c)(2)(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.
[District Rule 1203(D)(1)(g)(iii)]
[40 CFR 70.6(c)(2)(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.
[District Rule 1203(D)(1)(g)(iv)]
[40 CFR 70.6(c)(2)(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)]

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) and District 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. This facility is prohibited from using Beryllium propellant such that the emission standards for Beryllium of 40 CFR 61, Subpart D do not apply to this facility. Such operations will require modification to this federal operating permit and applicable District permits and a modified permit(s) must be approved and issued before such operations can commence.
[District Rule 204]
[District Rule 1203]
[40 CFR 61, Subpart D]
9. Pursuant to 40 CFR 63, Subpart GG – National Emission Standards for Hazardous Air Pollutants for Aerospace Manufacturing and Rework Facilities, this facility shall not be engaged, either in part or in whole, in the manufacture or rework of commercial, civil, or military aerospace vehicles as this is a major source as defined in §63.2. Such operations will require modification to this federal operating permit and applicable District permits and a modified permit(s) must be approved and issued before such operations can commence.
[District Rule 204]
[District Rule 1203]
[40 CFR 63, Subpart GG]
10. This facility is subject to 40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, as this facility owns and operates a stationary RICE at a major source of HAP emissions. This facility complies with 40 CFR 63, Subpart ZZZZ by complying with 40 CFR 60, Subpart IIII.
11. This facility is subject to 40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, as this facility owns and operates a stationary Compression Ignition Internal Combustion Engine that commenced construction after July 11, 2005 (See permit unit E004536).
[40 CFR 63, Subpart IIII]

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

A. B000743, TEST STAND, ROCKET (COMPLEX 1-36D):

Facility No. 9025 (Control Center and associated test stands), designated for both liquid and solid rocket motor tests. This complex is designated for both liquid and solid rocket motor tests and rocket motor hazard testing (involving explosives).

PERMIT CONDITIONS:

1. United States Air Force and its agents, contractors and operators shall ensure that the construction and operation of this equipment is in compliance with all applicable provisions of state and federal air quality regulations.
2. The following testing limits shall not be exceeded, unless previously approved in writing by the District. For purposes of these limits, all test emissions at Complexes 1-36D, 1-52 and 1-56 shall be combined
 - (a) Maximum calendar day emissions:
 - (i) Particulate - 58,500 pounds
 - (ii) Carbon monoxide - 34,500 pounds
 - (iii) Hydrogen chloride - 31,500 pounds
 - (b) Maximum calendar year emissions:
 - (i) Particulate - 332 tons
 - (ii) Carbon monoxide - 192 tons
 - (iii) Hydrogen chloride - 175 tons
3. No test shall be performed using this equipment that results in a significant impact as defined in a District-approved rocket test evaluation handbook. In no case shall a test be performed that results in an impact greater than the public exposure limit or a violation of any state or federal ambient air quality standard.
4. No test shall be performed that is outside the testing parameter envelope defined within a District-approved rocket test evaluation handbook unless previously approved in writing by the District. No firing shall be conducted when winds are less than 5 knots per hour or greater than 30 knots per hour measured 12 feet above the surface, as determined by the closest PL Micronet System tower and/or the Base Meteorology Network, unless previously approved in writing by the District. No firing shall be conducted unless a decrease in ambient air temperature of at least one degree Fahrenheit is measured at 6 feet to 54 feet above the surface, as determined by the closest PL Micronet System tower and/or the Base Meteorology Network, unless previously approved in writing by the District.

5. The owner/operator (o/o) shall maintain current operational logs onsite for five (5) years. Such operational logs shall be provided to District personnel upon request, and shall contain at least the following information:
 - (a) Type, date and time of each test;
 - (b) Meteorological conditions for each test;
 - (c) Amounts (gallons or pounds) and types of fuels and/or reagents used in each test;
 - (d) Amounts (pounds) and types of energetic materials used in each test;
 - (e) Calendar daily and calendar annual summary of particulate, CO and HCl emissions from tests; and
 - (f) Results of District-approved handbook evaluation for each test, including calculation of annual average HCl impact for all tests at 1-36D, 1-52 and 1-56.

B. B000744, TEST STAND, ROCKET (COMPLEX 1-52):

Facility No. 9655 (Control Center and associated test stands, including 1-52A, 52B and 52C), designated for both liquid and solid rocket tests.

PERMIT CONDITIONS:

1. United States Air Force and its agents, contractors and operators shall ensure that the construction and operation of this equipment is in compliance with all applicable provisions of state and federal air quality regulations.
2. The following testing limits shall not be exceeded, unless previously approved in writing by the District. For purposes of these limits, all test emissions at Complexes 1-36D, 1-52 and 1-56 shall be combined:
 - (a) Maximum calendar day emissions:
 - (i) Particulate - 58,500 pounds
 - (ii) Carbon monoxide - 34,500 pounds
 - (iii) Hydrogen chloride - 31,500 pounds
 - (b) Maximum calendar year emissions:
 - (i) Particulate - 332 tons
 - (ii) Carbon monoxide - 192 tons
 - (iii) Hydrogen chloride - 175 tons
3. No test shall be performed using this equipment that results in a significant impact as defined in a District-approved rocket test evaluation handbook. In no case shall a test be performed that results in an impact greater than the public exposure limit or a violation of any state or federal ambient air quality standard.
4. No test shall be performed that is outside the testing parameter envelope defined within a District-approved rocket test evaluation handbook unless previously approved in writing by the District. No firing shall be conducted when winds are less than 5 knots per hour or greater than 30 knots per hour measured 12 feet

above the surface, as determined by the closest PL Micronet System tower and/or the Base Meteorology Network, unless previously approved in writing by the District. No firing shall be conducted unless a decrease in ambient air temperature of at least one degree Fahrenheit is measured at 6 feet to 54 feet above the surface, as determined by the closest PL Micronet System tower and/or the Base Meteorology Network, unless previously approved in writing by the District.

5. The owner/operator (o/o) shall maintain current operational logs onsite for five (5) years. Such operational logs shall be provided to District personnel upon request, and shall contain at least the following information:
 - (a) Type, date and time of each test
 - (b) Meteorological conditions for each test;
 - (c) Amounts (gallons or pounds) and types of fuels and/or reagents used in each test;
 - (d) Amounts (pounds) and types of energetic materials used in each test;
 - (e) Calendar daily and calendar annual summary of particulate, CO and HCl emissions from tests; and
 - (f) Results of District-approved handbook evaluation for each test, including calculation of annual average HCl impact for all tests at 1-36D, 1-52 and 1-56.

C. B000745, TEST STAND, ROCKET (COMPLEX 1-56):

Facility No. 9840 (Control Center and associated test stands), designated for both liquid and solid rocket motor tests.

PERMIT CONDITIONS:

1. United States Air Force and its agents, contractors and operators shall ensure that the construction and operation of this equipment is in compliance with all applicable provisions of state and federal air quality regulations.
2. The following testing limits shall not be exceeded, unless previously approved in writing by the District. For purposes of these limits, all test emissions at Complexes 1-36D, 1-52 and 1-56 shall be combined:
 - (a) Maximum calendar day emissions:
 - (i) Particulate - 58,500 pounds
 - (ii) Carbon monoxide - 34,500 pounds
 - (iii) Hydrogen chloride - 31,500 pounds
 - (b) Maximum calendar year emissions:
 - (i) Particulate - 332 tons
 - (ii) Carbon monoxide - 192 tons
 - (iii) Hydrogen chloride - 175 tons
3. No test shall be performed using this equipment that results in a significant impact as defined in a District-approved rocket test evaluation handbook. In no case shall

a test be performed that results in an impact greater than the public exposure limit or a violation of any state or federal ambient air quality standard.

4. No test shall be performed that is outside the testing parameter envelope defined within a District-approved rocket test evaluation handbook unless previously approved in writing by the District. No firing shall be conducted when winds are less than 5 knots per hour or greater than 30 knots per hour measured 12 feet above the surface, as determined by the closest PL Micronet System tower and/or the Base Meteorology Network, unless previously approved in writing by the District. No firing shall be conducted unless a decrease in ambient air temperature of at least one degree Fahrenheit is measured at 6 feet to 54 feet above the surface, as determined by the closest PL Micronet System tower and/or the Base Meteorology Network, unless previously approved in writing by the District.
5. The owner/operator (o/o) shall maintain current operational logs onsite for five (5) years. Such operational logs shall be provided to District personnel upon request, and shall contain at least the following information:
 - (a) Type, date and time of each test;
 - (b) Meteorological conditions for each test;
 - (c) Amounts (gallons or pounds) and types of fuels and/or reagents used in each test;
 - (d) Amounts (pounds) and types of energetic materials used in each test;
 - (e) Calendar daily and calendar annual summary of particulate, CO and HCl emissions from tests; and
 - (f) Results of District-approved handbook evaluation for each test, including calculation of annual average HCl impact for all tests at 1-36D, 1-52 and 1-56.

D. E004536, DIESEL IC ENGINE, EMERGENCY GENERATOR (NEXRAD):

A certified tier 3 engine, USEPA Family 8CEXL0275AAG manufactured in 2008 with no exhaust after-treatment device installed.

One Cummins, Diesel fired internal combustion engine, Model No. QSB5-G3 NR3 and Serial No. 21829980, Turbo Charged, producing 145 bhp with 4 cylinders at 1800 rpm while consuming a maximum of 7 gal/hr. This equipment powers an Onan Generator Model No. DSFAE-6952329 and Serial No. B080158631, rated at 80 kW(e).

PERMIT CONDITIONS:

1. This certified stationary compression-ignited internal combustion engine shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air 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 60.4211(a)]

2. 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)]
[40 CFR 60.4214(b)]
3. This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:
 - (a) Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,
 - (b) A cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or,
 - (ii) A maximum aromatic content of 35 volume percent.Note: Use of CARB certified ULSD fuel satisfies the requirements of subparagraph 3.b above.
[17 CCR 93115.5(b)]
[40 CFR 60.4207(b)]
4. This engine shall be limited to use for emergency power, defined as in response to a fire or flood, or when commercially available power has been interrupted. In addition, this engine shall be operated no more than 30 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 30 hour per year limit.
[17 CCR 93115.6(a)(3)(1)(c)]
[40 CFR 60.4211(f)(1-3)]
5. The owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of three (3) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the following information:
 - (a) Date of each use and duration of each use (in hours);
 - (b) Reason for use (testing & maintenance, emergency, required emission testing, etc.);
 - (c) Monthly and calendar year operation in terms of fuel consumption (in gallons) and/or total hours;
 - (d) Fuel sulfur concentration as required by condition 3 (the owner/operator 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.[17 CCR 93115.10(f)]
District and State Applicability only.
6. This equipment may operate in response to an 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 may be operated no

more than 30 minutes prior to the forecasted outage and must be shut down immediately after the utility advises that the outage is no longer imminent or in effect.

[17 CCR 93115.6(a)(2)]

District and State Applicability only.

7. 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)(1)(C)]

District and State Applicability only.

8. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure for Stationary Compression Ignition Engines and 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

[District Rule 1302]

[Title 17 CCR 93115]

[40 CFR 60, Subpart IIII]

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.
[District Rule 1203(D)(1)(f)(i)]
[40 CFR 70.6(a)(5)]
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.
[District Rule 1203(D)(1)(f)(ii)]
[40 CFR 70.6(a)(6)(i)]
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).
[District Rule 1203(D)(1)(f)(iii)]
[40 CFR 70.6(a)(6)(ii)]
4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[District Rule 1203(D)(1)(f)(iv)]
[40 CFR 70.6(a)(6)(iii)]
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.
[District Rule 1203(D)(1)(f)(v)]
[40 CFR 70.6(a)(6)(iii)]
6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[District Rule 1203(D)(1)(f)(vi)]
[40 CFR 70.6(a)(6)(iv)]
7. Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information or records required to document

compliance with the provisions of this permit.

[District Rule 1203(D)(1)(f)(vii)]

[40 CFR 70.6(a)(6)(v)]

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.
[District Rule 1203(D)(1)(f)(viii)]
[40 CFR 70.6(a)(6)(v)]
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.
[District Rule 1203(D)(1)(d)(ii)]
[40 CFR 70.6(a)(3)(ii)(B)]
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.
[District Rule 1203(D)(1)(f)(ix)]
[40 CFR 70.6(a)(7)]
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.
[District Rule 1203(D)(1)(f)(x)]
[40 CFR 70.6(a)(8)]
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).
[District Rule 1203(G)(1)]
[40 CFR 70.6(f)(1)(i)]
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.
[District Rule 1203(G)(3)(a)]
[40 CFR 70.6(f)(3)(i)]
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.

[District Rule 1203(G)(3)(b)]
[40 CFR 70.6(f)(3)(ii)]

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.
[District Rule 1203(G)(3)(c)]
[40 CFR 70.6(f)(3)(iii)]
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.
[District Rule 1203(G)(3)(d)]
[40 CFR 70.6(f)(3)(iv)]
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.
[District Rule 1203(G)(3)(e)]
[40 CFR 70.4(b)(12)(ii)(B)]
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.
[District Rule 1203(G)(3)(f)]
[40 CFR 70.4(b)(14)(iii)]
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.
[District Rule 1203 (G)(3)(g)]
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi)]
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]

23. Owner/operator desiring to renew this Federal Operating Permit shall submit an application for renewal at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal Operating Permit.
[District Rule 1202(B)(3)(b)]
[40 CFR 70]

PART V OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIOS/OFF PERMIT CHANGES:

1. Permittee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
 - (a) Permittee 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 District Rule 219; and
 - (i) The proposed change is not:
 - a. Subject to any requirements under Title IV of the Federal Clean Air Act; or [See District 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 District Rule 1203(E)(1)(c)(i) d.]
 - d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and [See District Rule 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 District Rule 1203(E)(1)(c)(i)e.]
2. Procedure for “Off Permit” Changes
 - (a) If a proposed “Off Permit Change” qualifies under Part V, Section (A)(I)(A)(1) above, permittee shall implement the change as follows:
 - (i) Permittee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. [See 1203(E)(1)(c)(i)b.]
 - (ii) In addition to the information required pursuant to the provisions of District 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 District Rule 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 District Rule 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 District Rule 1203(E)(1)(c)(i)c.]
 - (iii) Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. [See District Rule 1203(E)(1)(c)(i)a.]

- (b) Permittee 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 District Rule 1203(E)(1)(c)(i)a. and g.]
 - (c) Permittee 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 District Rule 1203(E)(1)(c)(i)f.]
 - (d) Permittee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to District Rule 1202(B)(3)(b). [See District Rule 1203(E)(1)(c)(i)f.]
3. Other Requirements:
- (a) The provisions of District Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.
 - (b) The provisions of District 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)]
[District Rule 1203(E)(1)(c)]

PART VI CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. The following referencing conventions are used in this Federal Operating Permit:

40CFR60, Standards of Performance for New Stationary Sources (NSPS)
40CFR60, Appendix F, Quality Assurance Procedures
40CFR61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40CFR61, Subpart M, National Emission Standards for Asbestos
40CFR72, Permits Regulation (Acid Rain Program)
40CFR73, Sulfur Dioxide Allowance System
40CFR75, Continuous Emission Monitoring
40CFR75, Subpart D, Missing Data Substitution Procedures
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures
40CFR75, Appendix C, Missing Data Estimating Procedures
40CFR75, Appendix D, Optional SO₂ Emissions Data Protocol
40CFR75, Appendix F, Conversion Procedures
40CFR75, Appendix G, Determination of CO₂ 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:

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
bhp	brake horse power
Btu	British thermal units
CCR	California Code of Regulations
CEMS	continuous emissions monitoring system
CO	carbon monoxide
CO ₂	carbon dioxide
Dia.	diameter
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

PART VII DISTRICT SIP HISTORY AND CITATIONS

A. District Rule SIP History:

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

B. District Rule SIP Citations:

1. District Rule SIP Citations are on the following pages.

District Rule	Title	SIP Rule Version	Citation	Federally Enforceable	Notes
203	<i>Permit to Operate</i>	1/7/77	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
204	<i>Permit Conditions</i>	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
206	<i>Posting of Permit to Operate</i>	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
207	<i>Altering or Falsifying of Permit</i>	1/9/76	[SIP: Approved 11/09/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C)]	Y	
209	<i>Transfer and Voiding of Permit</i>	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
217	<i>Provision for Sampling And Testing Facilities</i>	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	

218	<i>Stack Monitoring</i>	7/25/79	[SIP: Approved 9/28/81, 46 FR 47451, 40 CFR 52.220(c)(65)(ii)]	Y	
219	<i>Equipment Not Requiring a Written Permit</i>	SB - 6/6/77 RC - 9/4/81	SB - [SIP: Approved 11/9/78, 43 FR, 52237, 40 CFR 52.220(c)(31)(vi)(C), 40 CFR 52.220(c)(32)(iv)(C), and 40 CFR 52.220(c)(39)(ii)(B)] RC - [SIP: Approved 7/6/82, 47 FR 29231, 40 CFR 52.220(c)(103)(xviii)(A)]	Y	
221	<i>Federal Operating Permit Requirement</i>	12/21/94	[SIP: Approved 2/5/96, 61 FR 4217, 40 CFR 52.220(c)(216)(i)(A)(2)]	Y	
301	<i>Permit Fees</i>	Not in SIP	Applicable Version = Most current amendment, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	Rule 301 is a fee rule and does not ordinarily require submission to USEPA. Various prior versions of Rule 301 were previously included in the State Implementation Plan (SIP) however USEPA removed this rule from the SIP on 01/18/02 (67 FR 2573; 40 CFR 52.220(c)(39)(iv)(C)). Therefore, this rule is not required to be a federal submittal.

312	<i>Fees for Federal Operating Permits</i>	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	
401	<i>Visible Emissions</i>	SB - 7/25/1977 RC - 2/4/1977 (subdivision (a)) RC - 10/15/82 (subdivision (b))	SB - [SIP: Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(C)] RC (a) - [SIP: Approved 9/8/78, 43 FR 40011, 40 CFR 52.220(c)(39)(iv)(C)] RC (b) - [SIP: Approved 10/19/84, 49 FR 41028, 40 CFR 52.220(c)(127)(vii)(C)]	Y	
403	<i>Fugitive Dust</i>	SB - 7/25/1977 RC - 7/25/1977	SB - [SIP: Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(B)] RC - [SIP: Approved 9/8/78, 43 FR 40011, 40 CFR 52.220(c)(39)(iv)(C)]	Y	
403.2	<i>Fugitive Dust Control for the Mojave Desert Planning Area</i>	9/22/96	[SIP: Approved 12/9/98, 63 FR 67784, 40 CFR 52.220(c)(194)(i)(H)(1)]	Y	
404	<i>Particulate Matter Concentration</i>	7/25/77	[SIP: Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)]	Y	

405	<i>Solid Particulate Matter, Weight</i>	7/25/77	[SIP: Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	
406	<i>Specific Contaminants</i>	SB - 7/25/1977 (subdivision (a)) RC - None	SB - [SIP: Approved, 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)]	Y	
407	<i>Liquid and Gaseous Air Contaminants</i>	5/7/76	SB - [SIP: Approved 9/8/78, 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C)] RC - [Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	
408	<i>Circumvention</i>	5/7/76	[SIP: Approved 9/8/78, 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	
409	<i>Combustion Contaminants</i>	5/7/76	[SIP: Approved 9/8/78; 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	

430	<i>Breakdown Provisions</i>	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	
431	<i>Sulfur Content of Fuels</i>	SB - 10/8/1976 RC – 10/8/1976	SB - [SIP: Approved 9/8/1978, 43 FR 40011, 40 CFR 52.220(c)(37)(i)(B) and 40 CFR 52.220(c)(39)(ii)(B) RC - [SIP: Approved 9/8/1978, 43 FR 40011, 40 CFR 52.220(c)(37)(i)(C), 40 CFR 52.220(c)(39)(iv)(C), and 40 CFR 52.220(c)(39)(vi)(B)	Y	
442	<i>Usage of Solvents</i>	2/27/06	[SIP: Approved 09/17/2007, 72 FR 52791, 40 CFR 52.220(c)(347)(i)(C)(1)]	Y	
444	<i>Open Outdoor Fires</i>	9/25/06	[SIP: Approved 10/31/2007, 72 FR 61525, 40 CFR 52.220(c)(350)(B)(1)]	Y	
900	<i>Standards of Performance for New Stationary Sources</i>	2/28/11	Delegated by USEPA	Y	Adopts NSPSs by reference. See NSPSs Delegation Listing.

1000	<i>National Emissions Standards from Hazardous Air Pollutants</i>	2/28/11	Delegated by USEPA	Y	Adopts NESHAPs by reference. See NESHAP Delegation Listing.
1104	<i>Organic Solvent Degreasing Operations</i>	9/28/94	[SIP: Approved: 4/30/96, 61 FR 18962, 40 CFR 52.220(c)(207)(I)(D)(2)]	Y	
1113	<i>Architectural Coatings</i>	4/23/12	[SIP: Approved: 1/03/14, 79 FR 364, 40 CFR 52.220(c)(428)(i)(C)]	Y	
1115	<i>Metal Parts and Products Coating Operations</i>	4/22/96	[SIP: Approved 12/23/97, 62 FR 67002, 40 CFR 52.220(c)(239)(i)(A)(2)]	Y	
1118	<i>Aerospace Vehicle Parts and Products Operations</i>	10/28/96	[SIP: Approved 8/17/98, 63 FR 43884, 40 CFR 52.220(c)(242)(I)(A)(1)]	Y	
1302	<i>NSR - Procedure</i>	3/25/96	[SIP: Approved 11/13/1996, 61 FR 58133, 40 CFR 52.220(c)(239)(i)(A)(1)]	Y	

Regulation XII	<i>Federal Operating Permits</i>	<i>1201-1210: 9/26/05 1200 & 1211: 2/28/11</i>	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]		
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