MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

Federal Operating Permit 008800567

For:

Naval Air Weapons Station, China Lake

Facility:

Naval Air Weapons Station, China Lake

Issue Date: October 1, 2015
Expiration Date: October 1, 2020

Issued by:

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Executive Director/
Air Pollution Control Officer

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Title V Federal Operating Permit History of Revisions

Date of Revision	Summary of Revision
05/15/2018	A significant modification to add five new emergency use diesel fueled generators while simultaneously reducing the authorized hours of operation for two currently permitted diesel fueled generators to provide simultaneous emissions reductions, to cancel two currently permitted equipment units, to remove 6 previously canceled equipment units from the FOP, and to update permit conditions for forty-two (42) currently permitted units. There is a slight decrease in emissions of pollutants to the atmosphere as a result of this change.
10/31/2016	An Administrative Amendment to increase the allowed number of operating hours for a diesel-fueled internal combustion engine (B012374) and to decrease the allowed number of operating hours for another diesel-fueled internal combustion engine (B010828). No BACT analysis is required and there is a slight decrease in emissions of pollutants to the atmosphere as a result of this change.
03/26/2016	A minor modification to permit the operation of a replacement aboveground storage tank-equipped Gasoline Dispensing Facility. The replacement system, described in District Permit N012461, will be of the same size and serve the same purpose as the original system described in District Permit N001503, and will produce fewer emissions of pollutants to the atmosphere.
01/25/2016	A significant revision to: a. Discontinue the use of and cancel the active permits for four currently permitted diesel fueled internal combustion engines (B008385, B010587, M008656, and M008657); b. Permit the operation of three new prime use and two emergency use internal combustion engines (B012343, B012344, B012374, E012364, and E012400); and c. Administratively incorporate the addition of one Negative Air machine to the facility's inventory (C012412).

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PART I
INTRODUCTORY INFORMATION

A. FACILITY IDENTIFYING INFORMATION

Owner/Company Name:	United States Navy
Owner's Mailing Address:	Department of the Navy Commanding Officer (Code N45NCW) Naval Air Weapons Station, China Lake 429 E. Bowen Rd, Stop 4014 China Lake, CA 93555-6108
Facility Name:	Naval Air Weapons Station, China Lake
Facility Location:	China Lake, CA
MDAQMD Federal Operating Permit Number:	008800567
MDAQMD Company Number:	0088
MDAQMD Facility Number:	00567
Responsible Official's Name:	P. M. Dale, CAPT, USN
Responsible Official's Title:	Commanding Officer
Responsible Official's Phone Number:	(760) 939-2211
Alternate Responsible Official's Name:	Matt Jackson, CDR, USN
Alternate Responsible Official's Title:	Executive Officer
Alternate Responsible Official's Phone Number:	(760) 939-2211
Facility Site Contact:	Ms. Brenda Abernathy
Facility Site Contact's Title:	Air Program Manager, Code N45NCW
Facility Site Contact's Phone Number:	(760) 939-3230
Facility's Nature of Business:	National Defense: Research, development, test, and evaluation of aircraft warfare systems, aircraft weapons integration, and airborne electronic warfare systems.
Facility's SIC Code:	9711
Facility's Latitude/Longitude (Main Gate)	35.651333° N, 117.668321° W

B. FACILITY DESCRIPTION

Naval Air Weapons Station, China Lake (NAWS) NAWS China Lake provides and maintains land, facilities and other assets that support the United States Navy's research, development, acquisition, testing and evaluation (RDAT&E) of cutting-edge weapons systems for America's warfighting forces.

C. EQUIPMENT SUMMARY

Permit #	Summary Description
A002952	ABRASIVE BLAST SYSTEM (BLDG 31192) 1. Maximum throughput is approximately 100 lbs of abrasive per hour 2. May operate 8760 hours per year 3. No control device
A003153	ABRASIVE BLASTER (SALT WELLS BLDG 15957) 1. Maximum throughput is approximately 1200 lbs of abrasive per hour 2. May operate 8 hours per day and 853 hours per year 3. Used with control device under MDAQMD Permit C003154
B001065	ROCKET TEST STAND (SKYTOP BAY I) 1. Tests solid propellant rocket motors up to 60,000 lbs of propellant each 2. Emissions are limited by controlling daily propellant weight limits, number of firings per day, maximum amount of propellant per test, etc. 3. No control devices are associated with this equipment
B001066	ROCKET TEST STAND (SKYTOP BAY IA) 1. Tests solid propellant rocket motors up to 10,000 lbs of propellant each 2. Emissions are limited by controlling daily propellant weight limits, number of firings per day, maximum amount of propellant per test, etc. 3. No control devices are associated with this equipment
B001067	ROCKET TEST STAND (SKYTOP BAY II) 1. Tests solid propellant rocket motors up to 60,000 lbs of propellant each 2. Emissions are limited by controlling daily propellant weight limits, number of firings per day, maximum amount of propellant per test, etc. 3. No control devices are associated with this equipment
B001068	ROCKET TEST STAND (SKYTOP BAY IIA) 1. Tests solid propellant rocket motors up to 300,000 lbs of propellant each 2. Emissions are limited by controlling daily propellant weight limits, number of firings per day, maximum amount of propellant per test, etc. 3. No control devices are associated with this equipment
B001069	ROCKET TEST STAND (SKYTOP BAY III) 1. Tests solid propellant rocket motors up to 300,000 lbs of propellant each 2. Emissions are limited by controlling daily propellant weight limits, number of firings per day, maximum amount of propellant per test, etc. 3. No control devices are associated with this equipment
B001070	ROCKET TEST STAND (SKYTOP BAY IV)

1. Tests solid propellant rocket motors up to 60,000 lbs of propellant each
2. Emissions are limited by controlling daily propellant weight limits, number of firings per day, maximum amount of propellant per test, etc.
3. No control devices are associated with this equipment

B001071 ROCKET TEST STAND (SKYTOP BAY VI)

1. Tests solid propellant rocket motors up to 131,000 lbs of propellant each
2. Emissions are limited by controlling daily propellant weight limits, number of firings per day, maximum amount of propellant per test, etc.
3. No control devices are associated with this equipment

B001072 ROCKET TEST STAND (SKYTOP BAY VII)

1. Tests solid propellant rocket motors up to 300,000 lbs of propellant each
2. Emissions are limited by controlling daily propellant weight limits, number of firings per day, maximum amount of propellant per test, etc.
3. No control devices are associated with this equipment

B001074 STEAM BOILER NO. 13

1. Natural gas fired with a maximum rated heat input is 16.5 MMBtu per hour
2. May operate 8760 hours per year

B001075 STEAM BOILER NO. 14

1. Natural gas fired with a maximum rated heat input is 11.3 MMBtu per hour
2. May operate 8760 hours per year

B002908 TEST STAND (CT-3)

1. Tests solid propellant rocket motors and energetic materials up to 400 lbs each
2. Emissions are limited by controlling maximum amount of material per test and limits maximum daily PM10 emissions to less than 250 lbs.
3. Used with control device under MDAQMD Permit C002909 unless specifically exempted by the District
4. May operate 8760 hours per year

B003132 TEST STANDS (T-RANGE, AEROHEAT)

1. High airflow rate static testing of air breathing engines and rocket motors, with or or without heated airflow.
2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B003133 TEST FACILITY (WEAPONS SURVIVABILITY RANGE – MAIN)

1. Open-air concrete test pad primarily used for live fire survivability, aerodynamic, cook-off tests, and remote controlled run-up/operation of aircraft, sea vehicles, and missile engines using four TF-33 jet engines to produce high velocity airflow
2. Emissions are limited by controlling daily and weekly energetic material (propellant, explosives, pyrotechnics, etc.) weight limits, fuel use limits, etc.
3. No control devices are associated with this equipment

B003139 OVEN

1. 1200 cubic foot oven using steam to cure propellants, explosives, and inert material
2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B003141 GRINDER/MILL SYSTEM (BLDG 15730)

1. Maximum capacity is 100 lbs per hour for the grinder and 50 lbs per hour for the Mill
2. Grinds and/or mills small batches of propellants/explosives for RDT&E purposes

3. Operates in a sealed room
4. May operate 8760 hours per year

B003142 OVEN (BLDG 15744)
1. 432 cubic foot oven using steam to cure propellants, explosives, and inert material
2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B003145 GRINDING/MILLING SYSTEM (SALT WELLS BLDG 15754)
1. Milling system composed of one 20-gallon, one 5-gallon, and one 1-gallon mill
2. Grinds and/or mills small batches of propellants/explosives for RDT&E purposes
3. Uses phenolic beads to grind material and an ethanol/water mixture for lubrication
4. May operate 8760 hours per year

B003146 MIXER (SALT WELLS BLDG 15813)
1. Maximum capacity is 150 gallons
2. Mixes small batches of propellants/explosives for RDT&E purposes
3. May operate 8760 hours per year

B003147 OVEN
1. 810 cubic foot oven using steam to cure rocket motor liners
2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B003148 OVEN (BLDG 15950)
1. 125 cubic foot oven using an electric heating element to cure rocket motor liners
2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B003155 HAMMER MILL (BLDG 15980)
1. Maximum capacity is 500 lbs
2. Mills small batches of propellants/explosives for RDT&E purposes
3. Used with control devices under MDAQMD Permits C003157 or C004010
4. May operate 8760 hours per year

B003156 MILL, FLUID ENERGY (BLDG 15980)
1. Maximum capacity is 400 lbs
2. Mills small batches of propellants/explosives for RDT&E purposes
3. Used with control devices under MDAQMD Permits C003157 or C004010
4. May operate 8760 hours per year

B003159 OVEN (BLDG 15590)
1. 126 cubic foot oven using steam to cure propellants, explosives, and inert material, to heat metal parts, and to melt TNT based explosives out of ordnance
2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B003160 OVEN (BLDG 15726)
1. 850 cubic foot oven using steam to cure rocket motor propellant
2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B003161 OVEN (BLDG 15707)
1. 2400 cubic foot oven using steam to cure propellants, explosives, and inert material, to heat metal parts, and to melt TNT based explosives out of ordnance

2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B003162 OVEN, ENVIRONMENTAL CHAMBER (BLDG 15707)
1. 3564 cubic foot oven using steam to cure propellants
2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B003277 TEST FACILITY (WEAPONS SURVIVABILITY RANGE K-2)
1. Open-air concrete test pads primarily used for live fire survivability, cook-off tests, and remote controlled run-up/operation of aircraft, sea vehicles, land vehicles, and missile engines
2. Emissions are limited by controlling daily and weekly energetic material (propellant, explosives, pyrotechnics, etc.) weight limits, fuel use limits, etc.
3. No control devices are associated with this equipment

B003315 BOILER No. 33
1. Natural gas fired with a maximum rated heat input is 2.1 MMBtu per hour
2. May operate 8760 hours per year

B003316 BOILER No. 21 (AREA R, BLDG 30851)
1. Natural gas fired with a maximum rated heat input is 2.36 MMBtu per hour
2. Emissions are controlled with a low-NOx burner, Oxygen Trim controls, and a Flue Gas Recirculation system
3. May operate 8345 hours per year

B004011 TURBINE, JP-8 (PORTABLE HIVAS)
1. Platform mounted TF-30P-6E jet engine primarily used for aerospace vehicle survivability testing
2. Emissions are limited by restricting use to 50 hours annually
3. No control devices are associated with this equipment

B004091 TEST STAND, ROCKET (SKYTOP BAY VIII)
1. Tests solid propellant rocket motors and propulsion systems up to 12,000 lbs of propellant each for exhaust plume studies
2. Emissions are limited by controlling daily propellant weight limits, monthly propellant weight limits, etc.
3. No control devices are associated with this equipment

B004375 TEST STAND, CONTAINED BURN TEST CHAMBER (CBAT)
1. Tests solid propellant rocket motors up to 50,000 lbs of propellant each
2. Used with control device under MDAQMD Permit C004376
3. May be operated 8760 hours per year

B004898 DIESEL IC ENGINE, PUMP (SKYTOP BAY VI)
1. Tier 0 engine manufactured prior to 1985
2. 2000 bhp
3. Powers a water pump
4. No control devices are associated with this equipment
5. Designated as a low-use engine and therefore limited to 20 hours of operation per 12 month period (State and District enforceable only)

B005156 FIRE DECK RESEARCH AND TEST FACILITY
1. Concrete pad with drainage troughs and fuel/water management systems

2. On-site 6,000 gallon fuel storage tank
3. No control devices associated with this equipment

B007890 TEST FACILITY (WEAPONS SURVIVABILITY RANGE, HIVAS2)
1. Open-air concrete test pad primarily used for live fire survivability, aerodynamic, cook-off tests, and remote controlled run-up/operation of aircraft, sea vehicles, and missile engines using four TF-33 jet engines to produce high velocity airflow
2. Emissions are limited by controlling daily and weekly energetic material (propellant, explosives, pyrotechnics, etc.) weight limits, fuel use limits, etc.
3. No control devices are associated with this equipment

B007946 DIESEL IC ENGINE, LOW USE, HYDRAULIC WINCH
1. Tier 0 engine manufactured in 1985
2. 160 bhp
3. Powers a hydraulically operated cable winch
4. No control devices are associated with this equipment
5. Exempt from CA State ATCM due to low use as authorized in 17 CCR 93115.3(j)

B007947 DIESEL IC ENGINE, LOW-USE, HYDRAULIC WINCH
1. Tier 0 engine manufactured in 1985
2. 160 bhp
3. Powers a hydraulically operated cable winch
4. No control devices are associated with this equipment
5. Exempt from CA State ATCM due to low use as authorized in 17 CCR 93115.3(j)

B009083 OVEN, CURING AND DRYING (SALT WELLS)
1. 175 cubic foot oven using an electric heating element to cure energetic materials
2. May operate 8760 hours per year
3. No control devices are associated with this equipment

B009391 FLUIDIZED BED DRYING OVEN (SALT WELLS, BLDG 15730)
1. 130 inch by 150 inch fluidized bed oven using heated process air to cure a variety of inert and energetic materials
2. May operate 8760 hours per year
3. Has an integral reverse pulsejet baghouse to capture energetic particles: Baghouse is used for safety reasons and not for air pollution control

B009475 GRINDING MILL SYSTEM (SALT WELLS BLDG 15730)
1. Maximum capacity is 100 lbs per hour
2. Mills small batches of propellants/explosives for RDT&E purposes
3. Has integral dust collector, HEPA filtration system, and exhaust fan: Baghouse is used for safety reasons and not for air pollution control
4. May operate 8760 hours per year

B009915 FLASHING FURNACE (G RANGE)
1. Direct fired by two Natural Gas / LPG burners, total 6.6 MMBtu/hour heat input
2. Used for heating range scrap above auto ignition temperatures of energetic materials to render it inert prior to recycling.
3. May be operated 8760 hours per year

B010539 TEST STAND, WEAPONS SURVIVABILITY (LFT&E)
1. Open-air concrete test pad primarily used for live fire survivability, aerodynamic, cook-off tests, and remote controlled run-up/operation of aircraft, sea vehicles, and

missile engines
2. Emissions are limited by controlling daily and weekly energetic material (propellant, explosives, pyrotechnics, etc.) weight limits, fuel use limits, etc.
3. No control devices are associated with this equipment

B010828 DIESEL IC ENGINE, GENERATOR, SUPERIOR VALLEY TESTING AREA
1. Certified Tier III engine, USEPA Family 9JDXL09.0114
2. 315 bhp
3. Level 3 VDECS certified by ARB Executive Order DE-05-002-02 installed
4. May be operated 8420 hours per year

B011470 ROCKET MOTOR TEST FACILITY, SKYTOP BAY IX
1. Tests solid propellant rocket motors up to 250 lbs of propellant each
2. Emissions are limited by controlling daily propellant weight limits, number of firings per day, maximum amount of propellant per test, etc.
3. No control devices are associated with this equipment

B012343 DIESEL IC ENGINE, GENERATOR (MOM SITE UNIT #1)
1. Certified Tier IV(i) engine, USEPA Family EPKXL04.4MK1
2. 146.6 bhp
3. May be operated with B012344 for a combined total of 7850 hours per year

B012344 DIESEL IC ENGINE, GENERATOR (MOM SITE UNIT #2)
1. Certified Tier IV(i) engine, USEPA Family EPKXL04.4MK1
2. 146.6 bhp
3. May be operated with B012343 for a combined total of 7850 hours per year

B012374 DIESEL IC ENGINE, GENERATOR (SEABEE TRAINING SITE)
1. Certified Tier IV(i) engine, USEPA Family EKHXL2.48TCR
2. 63 bhp
3. May be operated 3276 hours per year

C002909 SCRUBBING SYSTEM (CT-3)
1. Controls emissions from Test Stand CT-3 under MDAQMD Permit B002908 utilizing a cartridge style dust collector and a gas scrubber. Use may be specifically exempted by the District on a test-by-test basis
2. May operate 8760 hours per year

C003154 KNOCKOUT BOX
1. Controls emissions from Abrasive Blaster under MDAQMD Permit A003153
2. May operate 8760 hours per year

C003157 BAGHOUSE
1. Controls emissions from Grinders under MDAQMD Permits B003155 & B003156
2. May operate 8760 hours per year

C003396 NEGATIVE AIR MACHINE
1. HEPA Certified with 99.97% removal efficiency for particles ≥ 0.30 microns
2. Rated at 2000 ACFM flow rate
3. Controls asbestos emissions during asbestos remediation projects
4. Combined operation of <u>all</u> Negative Air Machines District wide must be less than 26,000 hours/year

C003397 NEGATIVE AIR MACHINE
1. HEPA Certified with 99.97% removal efficiency for particles ≥ 0.30 microns
2. Rated at 2000 ACFM flow rate

3. Controls asbestos emissions during asbestos remediation projects
4. Combined operation of all Negative Air Machines District wide must be less than 26,000 hours/year

C003398 NEGATIVE AIR MACHINE
1. HEPA Certified with 99.97% removal efficiency for particles ≥ 0.30 microns
2. Rated at 2000 ACFM flow rate
3. Controls asbestos emissions during asbestos remediation projects
4. Combined operation of all Negative Air Machines District wide must be less than 26,000 hours/year

C003491 SOIL REMEDIATION SYSTEM
1. Combined thermal oxidizer (propane fueled) and catalytic oxidizer system
2. Maximum Benzene concentration is 0.01 ppm at exit
3. Maximum Total Petroleum Hydrocarbon (TPH) concentration is 100 ppm at exit
4. May operate 8760 hours per year

C003657 SOIL REMEDIATION SYSTEM
1. Combined thermal oxidizer (propane fueled) and catalytic oxidizer system
2. Maximum Benzene concentration is 0.01 ppm at exit
3. Maximum Total Petroleum Hydrocarbon (TPH) concentration is 100 ppm at exit
4. May operate 8760 hours per year

C004010 BAGHOUSE
1. Controls emissions from Grinders under MDAQMD Permits B003155 & B003156
2. May operate 8760 hours per year

C004376 SCRUBBER - GAS
1. Controls emissions from the CBAT MS3 Test Bay under MDAQMD Permit B004375
2. Use may be specifically exempted by the District on a case-by-case basis
2. May operate 8760 hours per year

C009072 BURN ROOM (FIRE SCIENCES LAB, AREA 'R')
1. Controls emissions from Fire Sciences Lab
2. In addition to Venturi Scrubber and Mist Eliminator, emissions are further controlled by limiting annul amounts of combustible materials
2. May operate 8760 hours per year

C012412 NEGATIVE AIR MACHINE
1. HEPA Certified with 99.97% removal efficiency for particles ≥ 0.30 microns
2. Rated at 2000 ACFM flow rate
3. Controls asbestos emissions during asbestos remediation projects
4. Combined operation of all Negative Air Machines District wide must be less than 26,000 hours/year

E004897 GASOLINE IC ENGINE, EMERGENCY FIRE PUMP, K-2
1. Engine produces 140 bhp using 87 Octane unleaded gasoline fuel
2. Engine operation limited to 20 hours per year for maintenance and testing purposes
3. Engine operation not limited during emergency use as defined in permit conditions
4. No control devices are associated with this equipment

E004899 DIESEL IC ENGINE, EMERGENCY FIRE PUMP (SKYTOP BAY VI)
1. Tier 0 engine manufactured prior to 1985
2. Engine produces 393 bhp using Ultra-Low Sulfur Diesel fuel

3. Engine operation limited to 20 hours per year for maintenance and testing purposes unless authorized by NFPA-25 and approved by District
4. Engine operation not limited during emergency use as defined in permit conditions
5. No control devices are associated with this equipment

E007945 DIESEL IC ENGINE, EMERGENCY FIRE PUMP (SEA SITE 1)

1. Tier 0 engine manufactured in 1985
2. Engine produces 160 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 20 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. No control devices are associated with this equipment

E007948 DIESEL IC ENGINE, EMERGENCY GENERATOR (SOUTH RANGE, ECHO SITE 7)

1. Certified Tier 1 engine, USEPA Family TBD
2. Engine produces 202 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 20 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. No control devices are associated with this equipment

E008521 DIESEL IC ENGINE, EMERGENCY GENERATOR (BLDG 14050)

1. Certified Tier 1 engine, USEPA Family 1CEXL0505ACD
2. Engine produces 207 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 20 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. No control devices are associated with this equipment

E008555 DIESEL IC ENGINE, EMERGENCY GENERATOR (BLDG 01111 WATER TANKS)

1. Certified Tier 1 engine, USEPA Family 2CEXL0505ACD
2. Engine produces 207 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 20 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. No control devices are associated with this equipment

E009973 DIESEL IC ENGINE, EMERGENCY GENERATOR (ECHO RANGE, BLDG 70049)

1. Certified Tier III engine, USEPA Family 7CEXL0661AAH
2. Engine produces 470 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 50 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. No control devices are associated with this equipment

E010633 DIESEL IC ENGINE, EMERGENCY GENERATOR (RANDSBURG WASH)

1. Certified Tier III engine, USEPA Family 9JDXL06.8101
2. Engine produces 470 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 50 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. No control devices are associated with this equipment

E012400 LPG/PROPANE IC ENGINE, EMERGENCY GENERATOR (T-PAD SITE)

1. 40 CFR 63, Subpart JJJJ Compliant Spark-Ignition engine
2. Engine produces 471 bhp usig commercial grade LPG/Propane
3. Engine operation limited to 100 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. Factory-installed emission control devices are installed on this engine

E012364 DIESEL IC ENGINE, EMERGENCY FIRE PUMP (SKYTOP BAY IX)
1. Certified Tier 4i engine, USEPA Family CJDXL04.5130
2. Engine produces 74 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 50 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. Factory-installed emission control devices are installed on this engine

E012793 DIESEL IC ENGINE, EMERGENCY GENERATOR
1. Certified Tier 4f engine, USEPA Family FPKXL04.4MU1
2. Engine produces 173 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 25 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. Factory-installed emission control devices are installed on this engine

E012799 DIESEL IC ENGINE, EMERGENCY GENERATOR
1. Certified Tier 4f engine, USEPA Family GPKXL07.0BN1
2. Engine produces 321 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 25 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. Factory-installed emission control devices are installed on this engine

E012800 DIESEL IC ENGINE, EMERGENCY GENERATOR
1. Certified Tier 4f engine, USEPA Family FPKXL07.0BN1
2. Engine produces 247 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 25 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. Factory-installed emission control devices are installed on this engine

E012801 DIESEL IC ENGINE, EMERGENCY GENERATOR
1. Certified Tier 4f engine, USEPA Family FPKXL04.4MU1
2. Engine produces 173 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 25 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. Factory-installed emission control devices are installed on this engine

E012802 DIESEL IC ENGINE, EMERGENCY GENERATOR
1. Certified Tier 4f engine, USEPA Family FPKXL04.4MU1
2. Engine produces 173 bhp using Ultra-Low Sulfur Diesel fuel
3. Engine operation limited to 25 hours per year for maintenance and testing purposes
4. Engine operation not limited during emergency use as defined in permit conditions
5. Factory-installed emission control devices are installed on this engine

I001063 TEST STANDS, CT-4
1. Open-air concrete test pads primarily used for ordnance live fire survivability and cook-off tests, and aircraft structural testing in aviation fuel fire environments
2. Emissions are limited by controlling daily ordnance weight limits, fuel use limits, etc.
3. No control devices are associated with this equipment
4. May operate 8760 hours per year.

I001064 TEST STAND, CT-6
1. Open-air concrete test pad primarily used for ordnance live fire survivability and cook-off tests, and aircraft structural testing

2. Emissions are limited by controlling daily ordnance weight limits, fuel use limits, etc.
3. No control devices are associated with this equipment
4. May operate 8760 hours per year.

I003131 TEST STANDS, CT-1
1. Open-air concrete test pads primarily used for ordnance live fire survivability and cook-off tests
2. Emissions are limited by controlling daily ordnance weight limits, fuel use limits, etc.
3. No control devices are associated with this equipment
4. May operate 8760 hours per year.

I009100 TEST STAND, SKYTOP ENERGETICS DETONATION SITE (SEDS)
1. Open-air concrete test pad primarily used for ordnance live fire survivability and cook-off tests, and aircraft structural testing
2. Emissions are limited by controlling daily ordnance weight limits, fuel use limits, etc.
3. No control devices are associated with this equipment
4. May operate 8760 hours per year.

N003062 GASOLINE DISPENSING FACILITY (NON-RETAIL) at Bldg 11040
1. Aboveground Storage Tank with a 2,000 gallon capacity
2. Coaxial Phase I System and Balance Phase II System
3. Annual gasoline throughput limited to ≤ 500,000 gallons, operating hours unlimited

N003570 GASOLINE DISPENSING FACILITY (NON-RETAIL) at Bldg 32571
1. Aboveground Storage Tank with a 6,000 gallon capacity
2. Two-Point Phase I System and Balance Phase II System
3. Annual gasoline throughput limited to ≤ 500,000 gallons, operating hours unlimited

N012461 GASOLINE DISPENSING FACILITY (NON-RETAIL) at Randsburg Wash Facility
1. Aboveground Storage Tank with a 2,000 gallon capacity
2. Two-Point Phase I System and Balance Phase II System
3. Annual gasoline throughput limited to ≤ 500,000 gallons, operating hours unlimited

P005142 PAINT SPRAY GUN, PORTABLE
1. Certified HVLP
2. Used when impractical to paint inside a spray booth
3. May be used 8760 hours per year

P008346 PAINT SPRAY GUN, PORTABLE
1. Certified HVLP
2. Used when impractical to paint inside a spray booth
3. May be used 8760 hours per year

P009549 PAINT SPRAY GUN, PORTABLE
1. Certified HVLP, Airless
2. Used when impractical to paint inside a spray booth
3. May be used 8760 hours per year

S002204 PAINT SPRAY BOOTH, WEAPONS SURVIVABILITY BLDG 31198
1. Interior dimensions are approximately 16 feet x 18 feet x 34 feet
2. Exhausted through sixty filters each measuring 20 inches x 20 inches x 1 inch
3. Exhaust fan flow rate is 28,800 acfm
4. May be used 8760 hours per year

S003135 PAINT SPRAY BOOTH, CHINA LAKE AREA BLDG 15950
1. Interior dimensions are approximately 9.5 feet x 11 feet x 8 feet

2. Exhausted through double layer, 4-inch thick
3. Exhaust fan flow rate is TBD
4. May be used 8760 hours per year

S003138 PAINT SPRAY BOOTH, SALT WELLS BLDG 11680

1. Interior dimensions are 7 feet, 7 inches x 7 feet, 9 inches x 7 feet, 6 inches
2. Exhausted through twenty filters, each measuring 20 inches x 25 inches x 2 inches
3. Exhaust fan flow rate is 6400 acfm
4. May be used 8760 hours per year

S007809 PAINT SPRAY BOOTH (AREA R)

1. Interior dimensions are 16 feet x 16 feet x 45 feet
2. Exhaust filters are 99.8% efficient by USEPA's Filtration Efficiency Method 319
3. Exhaust fan flow rate is 25,600 acfm
4. May be used 8760 hours per year

T003150 DIP TANK, SALT WELLS BLDG 15956

1. Primarily used to remove residual linings, carbon, propellants, and other post-firing materials from rocket motor cases and associated hardware
2. Uses Citrikleen® or equivalent at ambient temperature for solvent
3. Surface area is approximately 26.1 square feet and holds 1170 gallons of solvent
4. May be used 8760 hours per year

T003152 DIP TANK, SALT WELLS BLDG 15956

1. Primarily used to remove residual linings, carbon, and propellants from rocket motor cases and associated hardware
2. Uses paint thinner (CAS 64742-88-7) at ambient temperature for solvent
3. Surface area is approximately 26.1 square feet and holds 1170 gallons of solvent
4. May be used 8760 hours per year

T005063 DIP TANK, SALT WELLS BLDG 15950

1. Primarily used to remove residual materials from RDT&E hardware
2. Uses paint thinner (CAS 64742-88-7) at ambient temperature for solvent
3. Surface area is approximately 7.5 square feet and holds 80 gallons of solvent
4. May be used 8760 hours per year

T009804 DIP TANK, LOCATION TBD

1. Primarily used to remove residual materials from RDT&E hardware
2. Uses "Breakthrough!®" or equivalent (low VOC) at ambient temperature for solvent
3. Surface area is approximately 4.7 square feet and holds 30 gallons of solvent
4. May be used 8760 hours per year

T010868 DIP TANK, CENTRAL SITE BLDG 70150

1. Primarily used to remove residual materials from RDT&E hardware
2. Uses "EcoLink New II® Environmentally Preferred" at ambient temperature for solvent
3. Surface area is approximately 6.4 square feet and holds 44 gallons of solvent
4. May be used 8760 hours per year

PART II
FACILITY-WIDE
APPLICABLE REQUIREMENTS AND EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS; TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; AND COMPLIANCE ASSURANCE MONITORING (CAM) PLANS

A. REQUIREMENTS APPLICABLE TO THE ENTIRE FACILITY AND ALL EQUIPMENT

1. A permit is required to operate this facility.
   [Rule 203 – *Permit to Operate*]

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*]

3. The Air Pollution Control Officer (APCO) may impose written conditions on any permit.
   [Rule 204 - *Permit Conditions*]

4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
   [Rule 204 - *Permit Conditions*]

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*]

6. Owner/Operator shall not willfully deface, alter, forge, or falsify any permit issued under District rules.
   [Rule 207 - *Altering or Falsifying of Permit*]

7. Permits are not transferrable.
   [Rule 209 – *Transfer and Voiding of Permit*]

8. The APCO may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing.
   Rule 217 – *Provisions for Sampling and Testing Facilities*]

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.
[Rule 219 - *Equipment Not Requiring a Written Permit*]

10. The owner/operator of this facility shall obtain a Federal Operating Permit for operation of this facility.
[Rule 221 - *Federal Operating Permit Requirement*]

11. The owner/operator of this facility shall pay all applicable MDAQMD permit fees.
[Rule 301 – *Permit Fees*]

12. The owner/operator of this facility shall pay all applicable MDAQMD Title V permit fees.
[Rule 312 - *Fees for Federal Operating Permits*]

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*]

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.
[Rule 431 – *Sulfur Content of Fuels*]

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*]

16. Owner/Operator shall comply with the applicable requirements of Rule 403.1 unless an "Alternative PM_{10} Control Plan" (ACP) pursuant to Rule 403.1(G) has been approved.
[Rule 403.1 - *Fugitive Dust Control for the Searles Valley Planning Area*]

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*]

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*]

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 (SO2), greater than or equal to 500 ppm by volume.
[Rule 406 - *Specific Contaminants*]

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.

(a) The provisions of this condition shall not apply to emissions from internal combustion engines.
[Rule 407 - *Liquid and Gaseous Air Contaminants*]

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.
[Rule 408 – *Circumvention*]

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 (CO2) at standard conditions averaged over a minimum of 25 consecutive minutes.
[Rule 409 - *Combustion Contaminants*]

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.
[Rule 430 - *Breakdown Provisions*]

24. 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 use of pesticides including insecticides, rodenticides 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, methylene chloride and trichlorotrifluoroethane.
(6) Aerosol products
[Rule 442 – *Usage of Solvents*]

25. 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)].
[Rule 444 – *Open Outdoor Fires*]

26. 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) 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^{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) 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, which 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 carry-out 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 either 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) 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)).
[Rule 1104 - *Organic Solvent Degreasing Operations*]

27. 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, Part C-Requirements, as listed in Table 1 below:

Table 1
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Limits are expressed in grams of VOC per liter[a] 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	VOC Limit
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 Preventive Coatings	250
Shellacs, Clear	730
Shellacs, 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
Waterproof Membranes	250
Wood Coatings	275
Wood Preservatives	350
Zinc-Rich Primers	340

[a]: Limit is expressed as VOC Actual, as defined in Rule 1301(G)(1)(a)(ii)

28. 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) VOC Content of Coatings & Adhesives

(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) is in compliance with this subsection.

LIMITS

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

Coating Category	VOC Limit	
	g/l	lb/gal
Clear Sealers	275	2.3
Clear Topcoat	275	2.3
Pigmented Primers, Sealers, Undercoats	275	2.3
Pigmented Topcoats	275	2.3
Fillers	275	2.3
High-Solids 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

[Rule 1114 - *Wood Products Coating Operations*]

29. 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:

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

	Air Dried		Baked	
Coating	g/l	(lb/gal)	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)
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)

[Rule 1115 - *Metal Parts and Products Coating Operations*]

30. 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 as of 07/01/2011, 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 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)

(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

b. The facility 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.
[Rule 1116 - *Automotive Finishing Operations*]

31. Owner/Operator's use of Aerospace Vehicle Parts and Products Coating Operations at this facility shall comply with the applicable requirements of Rule 1118, including the VOC limits specified in Rule 1118, as listed below:
Any person who manufactures or reworks aerospace vehicles by applying or specifying the use of surface coatings for aerospace vehicle parts and products shall comply with the following requirements:

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):

Coating Types and VOC Limits
(Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds)

Coating Type	VOC Limit g/L	lb/gal
Adhesive		
- 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
Extreme Performance		
- Coating	420	3.5
- Interior Topcoat	420	3.5
Fire-Resistant Coating		
- 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
Maskant for		
- Chemical Processing	600	5.0
- Chemical Milling, Type I Etchant	622	5.2
- Chemical Milling, 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
Space Vehicle Coating		
- 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

[Rule 1118 - *Aerospace Vehicle Parts and Products Coating Operations*]

32. 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.
[Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*]

33. Owner/Operator shall not release into the atmosphere any elemental Beryllium or compounds containing Beryllium.
[Rule 204 - *Permit Conditions*]

B. FACILITY-WIDE MONITORING, RECORDKEEPING, & 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*]

3. The 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 ASTM method D2622-10 or ASTM

method D2880-03 (or equivalent). Vendor data meeting this requirement are sufficient.
[40 CFR 70.6(a)(3)(B) – Periodic Monitoring Requirements]
[Rule 204 - *Permit Conditions*]

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 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) The Owner/Operator shall submit a Compliance Certification Report to the APCO every year pursuant to District Rule 1203. This report shall cover the period from October 1st of the previous year through September 30th of the current year, and shall be received by the District no later than December 31st of the current year. Each report shall be certified to be true, accurate, and complete by "The Responsible Official" and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.
[40 CFR 72.90.a and Rule 1203 (D)(1)(g)(v - x)]

5. The Owner/Operator shall submit a Monitoring Report to the APCO twice each year. The first such report shall cover the period from October 1st through March 31st and shall be received by the District no later than June 30th. The second such report shall cover the period from April 1st through September 30th and shall be received by the District no later than December 31st. These Monitoring Reports shall be certified to be true, accurate, and complete by "The Responsible Official" and shall include, as a minimum, 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)]

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.
[Rule 430 – *Breakdown Provisions*]

(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 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)]

8. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.
[Rule 204 - *Permit Conditions*]

9. Naval Air Weapons Station, China Lake's Hazardous Air Pollutant (HAP) Limits

(a). *General Status of Entire Facility*: HAPs are defined in 40 CFR 61.01 "Lists of pollutants" and are the chemical compounds listed in section 112(b) of the Clean Air Act (Act). The total potential emissions of Hazardous Air Pollutants (HAPs) for the Naval Air Weapons Station, China Lake exceed 25 tons per year (calculated on a rolling twelve month basis) for all combined HAPs and is therefore considered a Major Source for HAPs.

(b). Annualized HAP emissions from fuel burning and other HAP emitting equipment for purposes of this condition shall be determined by use of HAP emission factors (as set forth by District approved emission factors),or by annualized actual HAP emissions as determined by source test of the equipment, or by methods and emission factors established in an approved Comprehensive Emission Inventory Plan (CEIP).
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]
[California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq., and the Federal Clean Air Act, §110(a)(2)(F)(ii), codified in 40 CFR 60 Subpart Q]
[Rule 204 - *Permit Conditions*]

C. FACILITY-WIDE COMPLIANCE CONDITIONS

1. Subject to safety, national security, and when operational constraints preclude safe access to specific portion(s) of the facility, the 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.
[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.
[Rule 1201 (I)(2); Rule 1203(D)(1)(g)(v)]

7. Owner/Operator shall ensure 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]

D. COMPLIANCE ASSURANCE MONITORING (CAM)

There are currently no Pollutant Specific Emission Units (PSEUs) located at the Naval Air Weapons Station, China Lake that meet the applicability requirements of 40 CFR 64.2, *Compliance Assurance Monitoring: Applicability*. In the event that CAM is deemed applicable for any PSEU at a future date, a CAM Plan will be submitted by the facility.
[40 CFR 64, District Rule 204]

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

Unless Otherwise Stated, All Following Conditions Result From 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

A. ABRASIVE BLASTING SYSTEMS

District Permit Numbers: A002952, A003153

1. This equipment 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.
[District Rule 204]

2. Visible emissions shall not exceed 20% opacity (Ringelmann 1) while conducting outdoor abrasive blasting operations.
[District Rule 401]

3. This unit may be used for outdoor abrasive blasting of any size and type of non-HAP substrate if Steel or iron shot/grit is used exclusively. "Steel or iron shot/grit" means abrasives which meet either the Society of Automotive Engineers (SAE) recommended practices J827 and J444 or Steel Founders' Society of America Standards 21-68 or 20T-66, as those practices existed on 2-24-84.
[17 CCR 92500(b), 17 CCR 92000(m)]
DISTRICT AND STATE ENFORCEABLE ONLY

4. If Steel or iron shot/grit is not being used for outdoor abrasive blasting as allowed in condition 3 above, then the item to be blasted must either exceed eight (8) feet in any direction or be situated at its permanent location or no further away from its permanent location than is necessary to allow the surface to be blasted AND this unit shall only use abrasives that have been certified for outdoor use by the California Air Resources Board (CARB) as listed in Executive Order G-14-091 (or current version, if revised). Abrasive material usage or purchase records shall be made available to District personnel upon request to document such certification.
[17 CCR 92000-92530]
DISTRICT AND STATE ENFORCEABLE ONLY

5. 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 for each date of use:
a. Number of hours used;
b. Manufacturer's name and product name/code number of each abrasive material used; and
c. Quantity of each abrasive material used, in pounds.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

6. [FOR A003153 ONLY] This unit shall not be operated unless it is vented to the dust collection unit (knockout box) described District Permit C003154.
[District Rule 204]

B. NATURAL GAS FIRD BOILERS (Over 10 MMBtu per hour heat input)
District Permit Numbers: B001074, B001075

1. This equipment 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 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, Subpart DDDDD: 63.7500, District Rule 204]

2. This boiler shall only be fueled with utility grade natural gas and shall be equipped with a meter measuring fuel consumption in standard cubic feet.
[District Rules 204 and 1303]

3. The operator shall maintain a log for this equipment, which at a minimum contains the information specified below. This log shall be maintained current and on-site for a minimum of five years and shall be provided to District personnel upon request:
a. Monthly fuel use in cubic feet;
b. Cumulative rolling twelve month period fuel use in cubic feet; and
c. Fuel certification (sulfur concentration)
[40 CFR 70.6(a)(3)(ii)(b), 40 CFR Part 60 Subpart Dc: 60.48c, District Rule 1303]

4. [For B001074 only] Pollutant emission rates (concentrations) at full load shall be limited to 9 ppmvd NOx and 100 ppmvd CO, corrected to 3% oxygen. Records of the initial source test for this boiler shall be kept on file to demonstrate compliance. Although the District does not currently require periodic source testing of this boiler, such testing may be required in the future.
[District Rules 204 and 1303]
or

4. [For B001075] Pollutant emission rates (concentrations) at full load shall be limited to 9 ppmvd NOx and 50 ppmvd CO, corrected to 3% oxygen. Records of the initial source test for this boiler shall be kept on file to demonstrate compliance. Although the District does not currently require periodic source testing of this boiler, such testing may be required in the future.
[District Rules 204 and 1303]

5. This boiler must have a one-time energy assessment performed by a qualified energy assessor completed on or after 01/01/2008 that meets the energy assessment requirements of 40 CFR 63.7500 and Table 3. This energy assessment shall be completed no later than 01/31/2016 and results of this energy assessment must be kept on file and made available to District and Federal personnel upon request.
[40 CFR 63.7500 and Table 3, District Rule 204]

6. Effective 01/31/2016, this boiler must be tuned up annually. The first such tune up must be conducted no later than 01/31/2016.
[40 CFR 63.7540(a)(10), District Rule 204]

C. NATURAL GAS FIRD BOILERS (Less than 5 MMBtu per hour heat input)
District Permit Numbers: B003315, B003316

1. This equipment 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 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, Subpart DDDDD: 63.7500, District Rule 204]

2. This boiler shall only be fueled with utility grade natural gas and shall be equipped with a meter measuring fuel consumption in standard cubic feet.
[District Rules 204 and 1303]

3. This boiler must be tuned up at least once every five (5) years. The first such tune up must be conducted no later than 01/31/2016.
[40 CFR 63.7495, 40 CFR 63.7540(a)(12), District Rule 204]

4. [For B003315] The owner/operator shall maintain an operations log for this boiler 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. Monthly operation in terms of total fuel burned;
b. Maintenance and repair actions conducted on the boiler and burner; and
c. Results of all boiler tune-ups and tests.
[40 CFR 63.10(b), 40 CFR 63.7555, District Rule 204]
or
4. [For B003316] The owner/operator shall maintain an operations log for this boiler 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. Monthly operation in terms of total fuel burned;
b. Rolling consecutive twelve month period operation in terms of total hours;
c. Maintenance and repair actions conducted on the boiler, burner, oxygen trim, and FGR systems; and
d. Results of all boiler tune-ups and tests.

[40 CFR 63.10(b), District Rule 204]

5. This boiler must have a one-time energy assessment performed by a qualified energy assessor completed on or after 01/01/2008 that meets the energy assessment requirements of 40 CFR 63.7500 and Table 3. This energy assessment shall be completed no later than 01/31/2016 and results of this energy assessment must be kept on file and made available to District and Federal personnel upon request.
[40 CFR 63.7500 and Table 3, District Rule 204]

6. [For B003316 only] This boiler shall not be operated for more than 8,345 hours in any consecutive twelve month period.
[District Rules 204 and 1303]

D. ROCKET TEST STANDS, SKYTOP AREA

District Permit Numbers: B001065, B001066, B001067, B001068, B001069, B001070, B001071, B001072, B004091, B004375, and B011470

1. This equipment 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 contaminants. 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 204]

2. [For District Permit numbers B001065, B001066, B001067, B001068, B001071, B001072, and B004375] This test stand shall be limited to the use of solid propellant rocket motors.
[District Rule 204]

or

2. [For District Permit numbers B001069 and B004091] This test stand shall be limited to the use of solid propellant rocket motors unless prior written approval of a test plan is obtained from the District.
[District Rule 204]

or

2. [For District Permit numbers B001070] This test stand shall be limited to the use of solid propellant rocket motors unless prior written approval of a test plan is obtained from the District. This limitation does not apply to liquid propellant fueling/defueling of aerial targets.
[District Rule 204]

or

2. [For District Permit number B011470] This test stand shall be limited to the use of solid propellant.
[District Rule 204]

3. [For District Permit numbers B001065, B001067, and B001070] The maximum amount of solid propellant which shall be used on this stand in any 24 hour period from midnight to midnight is 60,000 pounds.
[District Rule 204]

or

3. [For District Permit number B001066] The maximum amount of solid propellant which shall be used on this stand in any 24 hour period from midnight to midnight is 10,000 pounds.
[District Rule 204]

or

3. [For District Permit number B001068] The maximum amount of solid propellant which shall be used on this stand in any 24 hour period from midnight to midnight is 60,000 pounds motors unless prior written approval of a test plan is obtained from the District.
[District Rule 204]

or

3. [For District Permit number B001069] The maximum amount of solid propellant which shall be used on this stand in any 24 hour period from midnight to midnight is 100,000 pounds unless prior written approval of a test plan is obtained from the District.
[District Rule 204]

or

3. [For District Permit number B001071] The maximum amount of solid propellant which shall be used on this stand in any 24 hour period from midnight to midnight is 130,000 pounds.
[District Rule 204]

or

3. [For District Permit number B001072] The maximum amount of solid propellant which shall be used on this stand in any 24 hour period from midnight to midnight is 150,000 pounds unless prior approval of a test plan is obtained from the District.
[District Rule 204]

or

3. [For District Permit number B004091] The maximum amount of solid propellant which shall be used on this stand in any 24 hour period from midnight to midnight is 12,000 pounds. Furthermore, the maximum amount of solid propellant which shall be used on this stand in any consecutive 30 day period is 72,000 pounds.
[District Rule 204]

or

3. [For District Permit number B004375] This equipment shall not be operated unless vented to the properly functioning air pollution control device described in District permit C004376, except as required in a test program that has received prior written approval from the District.
[District Rule 204]

or

3. [For District Permit number B011470] The maximum number of tests per seven (7) day running period is two (2) unless prior approval of a test plan is obtained from the District.
[District Rule 204]

4. [For District Permit numbers B001065, B001067, and B001070] The maximum amount of solid propellant which shall be used in any one test is 60,000 pounds.
[District Rule 204]

or

4. [For District Permit number B001066] The maximum amount of solid propellant which shall be used in any one test is 10,000 pounds.
[District Rule 204]

or

4. [For District Permit number B001068] The maximum amount of solid propellant which shall be used in any one test is 60,000 pounds unless prior written approval of a test plan is obtained from the District.
[District Rule 204]

or

4. [For District Permit number B001069] The maximum amount of solid propellant which shall be used in any one test is 100,000 pounds unless prior written approval of a test plan is obtained from the District.
[District Rule 204]

or

4. [For District Permit number B004091] The maximum amount of solid propellant which shall be used in any one test is 12,000 pounds.
[District Rule 204]

or

4. [For District Permit number B004375] The maximum amount of solid propellant which shall be used in any one test is 50,000 pounds.
[District Rule 204]

or

4. [For District Permit number B001071] The maximum amount of solid propellant which shall be used in any one test is 130,000 pounds.
[District Rule 204]

or

4. [For District Permit number B001072] The maximum amount of solid propellant which shall be used in any one test is 150,000 pounds unless prior approval of a test plan is obtained from the District. [District Rule 204]

or

4. [For District Permit number B011470] The maximum amount of solid propellant which shall be used in any one test is 250 pounds unless prior approval of a test plan is obtained from the District. [District Rule 204]

5. The maximum number of large rocket motor tests (>10,000 pounds of solid propellant) that can be conducted in any 24 hour period from midnight to midnight is one (1).
[District Rule 204]

6. The maximum number of test stands at the Skytop Area, Permits B001065 through B001072, B004091, and B004375, that can be used for large rocket motor tests in any 24 hour period from midnight to midnight is one (1).
[District Rule 204]

7. The meteorological conditions that are required for a test firing are as follows:
a. The wind speed from any and all directions shall be less than 20 mph.
[District Rule 204]

8. The owner/operator shall maintain operating logs which contain at least the following information:
a. Test Bay number and/or District Permit number;
b. Date and time of test;
c. Purpose of each test;
d. Amount, in pounds, of propellant used in each test; and
e. Meteorological conditions (see Condition 7) before each test.
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

9. No more than one test shall be permitted at the Skytop Area within an interval such that measurable exposure from one test is added to the emissions from other tests or other activities emitting significant pollutants.
[District Rule 204]

E. COOK-OFF, HEATING, AND DROP TEST STANDS (CT-1, CT-4, CT-6, and SEDS)
District Permit Numbers: I003131, I001063, I001064, and I009100)

1. This equipment 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 contaminants. 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 204]

2. The maximum combined amount of energetic material which shall be tested at the sites with valid District permits I003131, I001063, I001064, and I009100 during any rolling consecutive 24 hour period is 13,000 lbs.
[District Rule 204]

3. The maximum volumes of fuel burned at the sites with valid District permits I003131, I001063, I001064, and I009100 during any rolling consecutive 24 hour period shall not exceed 15,500 gal of aviation fuel, 100 gal of gasoline, and 300 gal of propane. The total volume of all combined fuels burned in any rolling consecutive 24 hour period shall not exceed 15,900 gallons.
[District Rule 204]

4. The meteorological conditions that are required for a test firing are as follows:
a. The wind speed from any and all directions shall be less than 15 mph.
[District Rule 204]

5. The owner/operator shall maintain operating logs which contain at least the following information:
a. Test Plan number and/or District Permit number;
b. Date, start time, and duration of each test;
c. Weight of ordnance tested, in pounds;
d. Type and amount, in gallons, of fuel(s) burned in each test; and
e. Wind speed and direction during each test
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

6. [For District Permit number I003131 only] No more than one test shall be permitted at the CT-1 Test Area within an interval such that measurable exposure from one test is added to the emissions from other tests or other activities emitting significant pollutants.
[District Rule 204]

or

6. [For District Permit number I001063 only] No more than one test shall be permitted at the CT-4 Test Area within an interval such that measurable exposure from one test is added to the emissions from other tests or other activities emitting significant pollutants.
[District Rule 204]

or

6. [For District Permit number I001064 only] No more than one test shall be permitted at the CT-6 Test Area within an interval such that measurable exposure from one test is added to the emissions from other tests or other activities emitting significant pollutants.
[District Rule 204]

or

6. [For District Permit number I009100 only] No more than one test shall be permitted at the SEDS Test Area within an interval such that measurable exposure from one test is added to the emissions from other tests or other activities emitting significant pollutants.
[District Rule 204]

F. CONTAINED BURN TEST STAND (CT-3)
District Permit Number: B002908

1. This equipment 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 contaminants. 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 204]

2. A test program for each series of tests shall be submitted to the District for written approval prior to operating this equipment.
[District Rule 204]

3. This equipment shall not be operated unless it is vented to the air pollution control system described in valid District permit C002909, except as required in a test program that has received prior written approval from the District.
[District Rule 204]

4. The maximum amount of solid propellant which shall be used in any one test is 400 pounds.
[District Rule 204]

5. The owner/operator shall maintain operating logs which contain at least the following information:
a. Test Bay number and/or District Permit number;
b. Date and time of test;
c. Purpose of each test; and
d. Amount, in pounds, of propellant used in each test
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

6. The total daily emissions for particulate matter (PM10) from this test stand to the atmosphere shall be limited to 250 pounds per day. Furthermore, the rolling consecutive 12 month period total Pre-Control PM10 emissions from this equipment shall not exceed 90 tons.
[40 CFR 64, District Rules 204 and 1302]

G. ROCKET AND AIR-BREATHING ENGINE TEST STANDS, T-RANGE AREA (AEROHEAT)

District Permit Number: B003132

1. This equipment 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 contaminants. 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 204]

2. The maximum volume of propane/LPG used at this test stand shall not exceed the following limits:
a. 10,000 gallons in any one test.
b. 20,000 gallons in any one rolling consecutive seven day period.
c. 420,000 gallons in any one rolling consecutive twelve month period.
[District Rule 204]

3. The maximum volume of non-propane/LPG liquid hydrocarbons used at this test stand shall not exceed the following limits:
a. 2,000 gallons in any 24 hour period, midnight to midnight.
b. 11,000 gallons in any one rolling consecutive twelve month period.
[District Rule 204]

4. The maximum weight of solid propellant used at this test stand shall not exceed the following limits:
a. 1,000 pounds in any 24 hour period, midnight to midnight.
b. 6,000 pounds in any one rolling consecutive twelve month period.
[District Rule 204]

5. The meteorological conditions that are required for a test firing are as follows:
a. For tests involving solid rocket motors in a vertical test configuration (i.e. nozzle up) - Average wind speed greater than one mph and less than 15 mph;
b. For tests involving solid rocket motors in a horizontal test configuration - Average wind speed less than 30 mph; and
c. For all other tests - No wind speed limitation.
[District Rule 204]

6. The owner/operator shall maintain operating logs which contain at least the following information:
a. Test Bay number and/or District Permit number;
b. Date, time, and duration of test;
c. Purpose of each test;
d. Amount, in pounds of propellant and gallons of liquid hydrocarbons (including propane/LPG) used in each test; and
e. Meteorological conditions (see Condition 5) before each test
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

7. No more than one test shall be permitted at the T-Range Area within an interval such that measurable exposure from one test is added to the emissions from other tests or other activities emitting significant pollutants.
[District Rule 204]

H. TEST FACILITIES, WEAPONS SURVIVABILITY RANGE

District Permit Numbers: B003133, B003277, B007890, and B010539

1. This equipment 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 contaminants. 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 204]

2. No more than one test shall be permitted at this facility within an interval such that measurable emissions from one test are added to the emissions from other tests, or other activities emitting significant pollutants.
[District Rule 204]

3. The following per test limits shall not be exceeded, unless previously approved in writing by the District:
a. Fuel in test item per live fire or cookoff test - 2000 gallons
b. Fuel in test item per aerodynamic test or run up - 4000 gallons
c. Exterior fuel per cookoff test - 2000 gallons
d. Any combination of Explosives, Propellants, and Flares per live fire, aerodynamic or cookoff test - 150 lbs
e. [For B003133 and B007890 only] HIVAS fuel per live fire test - 5000 gallons

f. [For District Permit number B003133 only] HIVAS fuel per aerodynamic test - 20,000 gallons
or
f. [For District Permit number B007890 only] HIVAS fuel per aerodynamic test - 30,000 gallons
[District Rule 204]

4. No more than 3,000 lb of energetic material (propellant, explosives, or pyrotechnics) shall be used for tests within any consecutive 24 hour period, unless previously approved in writing by the District.
[District Rule 204]

5. No more than 50,000 gallons of fuel shall be used for all tests in the Weapons Survivability Lab complex within any consecutive 24 hour period, unless previously approved in writing by the District.
[District Rule 204]

6. No more than forty-five (45) tests shall be conducted within any seven (7) consecutive day period, unless previously approved in writing by the District.
[District Rule 204]

7. The owner/operator shall maintain operating logs which contain at least the following information:
a. Type of test;
b. [For B003277and B010539] Amounts (in gallons) and types of fuels used in each test;
or
b. [For B003313 and B007890] Amounts (in gallons) and types of fuels used in each test, including amount used by HIVAS;
c. Amounts (in pounds) and types of energetic materials used in each test;
d. Date of each test; and
e. [For B003313 and B007890] Meteorological conditions for each test involving ordnance (maximum wind speed).
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

8. [For B003313 and B007890] For tests involving the use of ordnance, the wind speed from any and all directions must be less than 25 knots.
[District Rule 204]

I. DRYING OVENS

District Permit Numbers: B003139, B003142, B003147, B003148, B003159, B003160, B003161, B003162, B009083, and B009391

1. This equipment 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 contaminants. 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 204]

2. [For B003139, B003142, B003147, B003148, B003160, B003161, B003162, B009083, and B009391] This oven shall only be used to dry, cure, or melt propellants, explosives, casings, and inert simulate formulations for research and development. [District Rule 204]

or

2. [For B003159] This oven shall only be used to heat metal parts and/or to dry, cure, or melt propellants, explosives, casings, and inert simulate formulations for research and development. [District Rule 204]

3. The owner/operator shall maintain operating logs which contain at least the following information:

a. Date, time, and duration of each use; and

b. Type and amount of material processed.

The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request. [40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

J. GRINDERS and MILLS

District Permit Numbers: B003141, B003145, B003155, B003156, and B009475

1. This equipment 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 contaminants. 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 204]

2. This equipment shall be used to grind explosives or other material for research and development. [District Rule 204]

3. The owner/operator shall maintain operating logs which contain at least the following information:
a. Date, time, and duration of each use; and
b. Type and amount of material processed.
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

4. [For B003145 only] This system shall operate only one grinding mill at a time.
[District Rule 204]
or
4. [For B003155 and B003156 only] This equipment shall not be used unless vented to a properly functioning dust collector described in District permit C003157 or District permit C004010. The dust collectors are used for explosive safety reasons and not for air pollution control purposes.
[District Rule 204]

5. [For B003156 only] This mill shall not process more than 1,200lbs in any consecutive seven day period.
[District Rule 204]

K. MIXER
District Permit Number: B003146

1. This equipment 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 contaminants. 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 204]

2. This mixer shall only be used to mix propellants, explosives, or inert simulate formulations for research and development.
[District Rule 204]

3. The owner/operator shall maintain operating logs which contain at least the following information:
a. Date, time, and duration of each use; and
b. Type and amount of material processed.
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

M. DIESEL INTERNAL COMBUSTION ENGINES, NEW PRIME
District Permit Numbers: B010828, B012343, B012344, and B012374

1. This certified stationary compression-ignited internal combustion engine and its associated emission control systems 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) and (c), District Rule 204]

2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[Title 17 CCR 93115.10(d), District Rule 204]

3. This engine 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:
1. A minimum cetane index of 40; or,
2. A maximum aromatic content of 35 volume percent.
[17 CCR 93115.5(a) and 40 CFR 80.510(b)]
Note: Use of CARB certified ULSD fuel satisfies the above requirements.

4. [For B010828] The owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of five (5) years, and shall include, at a minimum, the following information:
a. Monthly and consecutive 12 month rolling period operation in terms of fuel consumption (in total hours);
b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content. Such certification may be stored separately from the remainder of the log);
c. Maintenance and repair actions performed on the engine;
d. Maintenance and repair actions performed on both the Diesel Particulate Filter and its associated backpressure monitor; and
e. Records of all performance tests and evaluations.
[40 CFR 70.6(a)(3)(ii)(b) and 17 CCR 93115.10]
or
4. [For B012343 and B012344] The owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of five (5) years, and shall include, at a minimum, the following information:

a. Monthly and consecutive 12 month rolling period operation in terms of fuel consumption (in total hours);
b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content. Such certification may be stored separately from the remainder of the log);
c. Maintenance and repair actions performed on the engine;
d. Maintenance and repair actions performed on both the Diesel Oxidation Catalyst and the Continuous Trap Oxidizer; and
e. Records of all performance tests and evaluations.
[40 CFR 70.6(a)(3)(ii)(b) and 17 CCR 93115.10]

or

4. [For B012374] The owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of five (5) years, and shall include, at a minimum, the following information:
a. Monthly and consecutive 12 month rolling period operation in terms of fuel consumption (in total hours);
b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content. Such certification may be stored separately from the remainder of the log);
c. Maintenance and repair actions performed on the engine;
d. Maintenance and repair actions performed on the Diesel Oxidation Catalyst; and
e. Records of all performance tests and evaluations.
[40 CFR 70.6(a)(3)(ii)(b) and 17 CCR 93115.10]

5. [For B010828] The Diesel Particulate Filter must be equipped with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.
STATE AND DISTRICT ENFORCEABLE ONLY
[17 CCR 93115.10(d)]

or

5. [For B012343 and B012344] The Continuous Trap Oxidizer must be equipped with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.
[40 CFR 60.4209(b), District Rule 204]

or

5. [For B012374] The Diesel Oxidation Catalyst must be equipped with a pressure differential sensor/gauge.
[40 CFR 60.4209(b), District Rule 204]

6. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS).
[District Rule 1302]

7. [For B010828] This engine shall not be operated unless all of the following emission control systems are properly functioning:
a. Diesel Particulate Filter;
b. Electronic Control Module; and
c. Backpressure Monitor
Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[40 CFR 60.4211, MDAQMD Rule 1302]

or

7. [For B012343 and B012344] This engine shall not be operated unless all of the following emission control systems are properly functioning:
a. Continuous Trap Oxidizer;
b. Diesel Oxidation Catalyst;
c. Electronic Control Module; and
d. Backpressure Monitor
Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[40 CFR 60.4211, MDAQMD Rule 1302]

or

7. [For B012374] This engine shall not be operated unless the following emission control systems are properly functioning:
a. Diesel Oxidation Catalyst; and
b. Electronic Control Module
Furthermore, no changes shall be made to either of the above systems unless done so by a factory certified technician.
[40 CFR 60.4211, MDAQMD Rule 1302]

8. [For B012343 and B012344] The total combined operating hours for the two engines described in District permits B012343 and B012344 shall not exceed 7,850 hours in any consecutive 12 month period.
[District Rules 204, 1303 and 1305]

or

8. [For B012374 only] This engine shall not be operated for more than 3,276 hours in any consecutive 12 month period.
[District Rules 204, 1303 and 1305]

or

8. [For B010828 only] This engine shall not be operated for more than 8,362 hours in any consecutive 12 month period.
[District Rules 204, 1303 and 1305]

N. DIESEL INTERNAL COMBUSTION ENGINES, EXISTING LIMITED USE OVER 500 HP
District Permit Number: B004898

1. This equipment 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 contaminants. 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 204]

2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[Title 17 CCR 93115.10(d), District Rule 204]

3. This engine 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:
1. A minimum cetane index of 40; or,
2. A maximum aromatic content of 35 volume percent.
[17 CCR 93115.5(a) and 40 CFR 80.510(b)]
Note: Use of CARB certified ULSD fuel satisfies the above requirements.

4. The owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of five (5) years, and shall include, at a minimum, the following information:
a. Monthly and consecutive 12 month rolling period operation in terms of fuel consumption (in total hours);
b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content. Such certification may be stored separately from the remainder of the log);
c. Maintenance and repair actions performed on the engine; and
d. Records of all performance tests and evaluations.
[40 CFR 70.6(a)(3)(ii)(b) and 17 CCR 93115.10]

5. This engine shall not operate for more than 20 hours in any consecutive 12 month period in order to maintain its low-use designation. Furthermore, this engine shall not be operated within 500 feet of a K-12 school.
STATE AND DISTRICT ENFORCEABLE ONLY

[17 CCR 93115.3(j)]

6. This engine shall not operate for more than 100 hours in any consecutive 12 month period in order to maintain its limited use designation.
[40 CFR 63.6675 and District Rule 204]

7. As authorized in 40 CFR 63.6590(b)(3)(iv), this engine is exempt from the requirements of 40 CFR 63, subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (the RICE NESHAP).
[40 CFR 63.6590(b)(3)(iv)]

8. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines.
STATE AND DISTRICT ENFORCEABLE ONLY
[District Rule 204]

9. As authorized in 17 CCR 93115.3(j), this low-use engine is exempt from the emission standards established in 17 CCR 93115.7(b)(1), the Airborne Toxic Control Measure for Stationary Compression Ignition Engines (the Stationary ATCM).
[Title 17 CCR 93115.3(j), District Rule 1320]

10. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.
[District Rule 204]

O. DIESEL INTERNAL COMBUSTION ENGINES, EXISTING LIMITED USE UNDER 500 HP
District Permit Numbers: B007946 and B007947

1. This equipment 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 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 63.6640(a), District Rule 204]

2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[Title 17 CCR 93115.10(d), District Rule 204]

3. This engine 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:
1. A minimum cetane index of 40; or,
2. A maximum aromatic content of 35 volume percent.
[17 CCR 93115.5(a) and 40 CFR 80.510(b)]
Note: Use of CARB certified ULSD fuel satisfies the above requirements.

4. The owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of five (5) years, and shall include, at a minimum, the following information:
a. Monthly and consecutive 12 month rolling period operation in terms of fuel consumption (in total hours);
b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content. Such certification may be stored separately from the remainder of the log);
c. Maintenance and repair actions performed on the engine; and
d. Records of all performance tests and evaluations.
[40 CFR 70.6(a)(3)(ii)(b) and 17 CCR 93115.10]

5. This engine is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines Title 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ (RICE NESHAP).
[District Rule 204]

6. This engine shall not operate for more than 20 hours in any consecutive 12 month period in order to maintain its low-use designation. Furthermore, this engine shall not be operated within 500 feet of a K-12 school.
STATE AND DISTRICT ENFORCEABLE ONLY
[17 CCR 93115.3(j)]

7. This engine shall not operate for more than 100 hours in any consecutive 12 month period in order to maintain its limited use designation.
[40 CFR 63.6675 and District Rule 204]

8. This engine shall be limited to a maximum CO emission rate of 230 parts per million, volume, dry (ppmvd) corrected to 15% O2 using the procedures outlined in 40 CFR 63.6620. Furthermore, you must conduct an initial performance test to verify the CO emission rate prior to using this engine for normal operations.
[40 CFR 63.6620 and Table 2c(3), 40 CFR 63.6612, and 40 CFR 63.6595]

9. This engine is currently not in compliance with the Carbon Monoxide (CO) emission standards established in 40 CFR 63, subpart ZZZZ, the National Emissions Standards for Hazardous Air Pollutants for stationary Reciprocating Internal Combustion Engines (the RICE NESHAP). It is a violation to operate this engine for any reason other than authorized emissions testing without first installing a retrofit device capable of meeting those emission limits. A Title V Significant Permit Modification Request must be submitted to and adopted by the District prior to installing any control device.
[40 CFR 63.6620 and Table 2c(3), 40 CFR 63.6612, and 40 CFR 63.6595]

10. As authorized in 17 CCR 93115.3(j), this engine is exempt from the emission standards established in 17 CCR 93115.7(b)(1), the Airborne Toxic Control Measure for Stationary Compression Ignition Engines (the Stationary ATCM).
[Title 17 CCR 93115.3(j), District Rule 1320]

11. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.
[District Rule 204]

P. TURBINE, PORTABLE, JP-8/F-24 FUELED (PORTABLE HIVAS)
District Permit Number: B004011

1. This equipment 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 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 63.6640(a), District Rule 204]

2. This turbine shall not be operated for more than 50 hours in any one consecutive twelve month period without the prior written approval from the APCO.
[District Rule 204]

3. The meteorological conditions that are required for a test firing are as follows:
a. The wind speed from any and all directions shall be less than 25 mph.
[District Rule 204]

4. The owner/operator shall maintain operating logs which contain at least the following information:
a. Date, time, and location of each use;
b. Purpose of each use, including the unique test identification number;
c. Amount, in gallons, of fuel used in each use; and

d. The meteorological conditions before each use.
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

5. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.
[District Rule 204]

Q. FIRE DECK RESEARCH AND TEST FACILITY
District Permit Number: B005156

1. This equipment 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 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 63.6640(a), District Rule 204]

2. The owner/operator shall maintain operating logs which contain at least the following information:
a. Date of each use and fuel usage in terms of type and quantity; and
b. Calendar year operation in terms of fuel consumption (in gallons) to ensure accurate Emission Inventory inputs;
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

3. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.
[District Rule 204]

R. FLASHNG FURNACE, LPG/PROPANE OR NATURAL GAS FUELED (G RANGE)
District Permit Number: B009915

1. This equipment 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 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 63.6640(a), District Rule 204]

2. This furnace shall use only LPG/propane or natural gas as fuel and shall be equipped with a meter measuring fuel consumption in standard cubic feet or gallons.
[District Rule 204]

3. The owner/operator shall maintain operating logs which contain at least the following information:
a. Monthly fuel usage in terms of type (LPG/Propane or Natural Gas) and quantity (Standard Cubic Feet or Gallons); and
b. Calendar year operation in terms of fuel consumption (in standard cubic feet or gallons) to ensure accurate Emission Inventory inputs;
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

4. The facility must submit accurate emissions inventory data to the District, in a format approved by the District, upon District request.
[District Rule 204]

S. SCRUBBING SYSTEMS

District Permit Number: C002909 and C004376

1. This equipment 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 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 63.6640(a), District Rule 204]

2. A test plan for each new series of tests utilizing this equipment shall be submitted to the District and must be approved in writing by the APCO prior to commencement of the tests and operation of this equipment.
[District Rule 204]

3. [For C002909] This equipment shall be properly functioning whenever tests are conducted in the Test Stand described in District Permit B002908, except when exempted in writing by the APCO.
[District Rule 204]

or

3. [For C004376] This equipment shall be properly functioning whenever tests are conducted in the Contained Burn Test Chamber described in District Permit B004375, except when exempted in writing by the APCO.
[District Rule 204]

T. KNOCKOUT BOX (SALT WELLS BLDG 15957)
District Permit Number: C003154

1. This equipment 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 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 63.6640(a), District Rule 204]

2. This equipment shall be fully functional and in use whenever the abrasive blaster described in District permit A003153 is being operated.
[District Rule 204]

3. The opening for the rocket motor casings shall be equipped with tight fitting seals.
[District Rule 204]

U. BAGHOUSES (SALT WELLS BLDG 15980)
District Permit Numbers: C003157 and C004010

1. This equipment 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 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 63.6640(a), District Rule 204]

2. This baghouse, or the one under valid Permit C004010, shall be properly functioning and in operation when either the mill described in District Permit B003155 or the mill described in District Permit B003156 are operating.
[District Rule 204]

3. An operating air lock device shall be fitted in each material discharge port.
[District Rule 204]

4. The owner/operator shall maintain operating logs which contain at least the following information:
a. Date and duration of each use; and

b. Date and description of all filter bag replacements.
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

V. BURN ROOM, FIRE SCIENCES LAB (AREA R)
District Permit Number: C009072

1. This equipment 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 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 63.6640(a), District Rule 204]

2. This system shall be used whenever there is any material being burned in the room.
[District Rule 204]

3. Burn Room operations shall be restricted to the following rolling consecutive 12 month period limits (rolling annual limit) unless a specific test plan is approved in advance by the APCO:
a. Class A (cellulose materials): 9000 pounds
b. Class B (petroleum based liquid fuels/JP-8): 1000 gallons
c. Class C (electrical): none
d. Class D (flammable metals): 1000 pounds
[District Rule 204]

4. The owner/operator shall maintain operating logs which contain at least the following information:
a. Date of each use; and
b. Type of material(s) used; and
c. Amount of each material used.
The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

W. SOIL REMEDIATION SYSTEMS
District Permit Numbers: C003491 and C003657

1. This equipment 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 63.6640(a), District Rule 204]

2. Liquified Petroleum Gas (LPG) / Propane shall be continuously co-fired in this equipment in order to optimize combustion of the extracted soil vapors.
[District Rule 204]

3. Benzene concentration at the exit of the system, must not exceed 0.01 ppm by volume as determined by method 410A of the California Air Resources Board.
[District Rule 1320]

4. A portable hydrocarbon analyzer (Foxboro OVA-FID, Horiba Mexa 324GE or equivalent) shall be used for the first 10 days and monthly thereafter to measure the total petroleum hydrocarbon (TPH) concentration in the inlet and outlet of this system. The hydrocarbon analyzer shall be calibrated in ppmv of hexane.
[District Rule 204]

5. The TPH concentration measured at the inlet shall not exceed 30,000 ppm and at the outlet shall not exceed 100 ppm.
[District Rule 1320]

6. Temperature measuring devices shall be installed and maintained at the outlet of both the thermal and catalyst oxidizers.
[District Rule 204]

7. Whenever the vapor extraction system is operating, the temperature shall be as follows:
a. At the outlet of the thermal oxidizer: 1400 degrees Fahrenheit or greater.
b. At the outlet of the catalytic oxidizer: 650 degrees Fahrenheit or greater.
This requirement is not in effect during periods of startup and shutdown, not to exceed 30 minutes each.
[District Rule 204]

8. A flow indicator and recorder must be installed and maintained at the at the system inlet to measure and record the total rate in standard cubic feet per minute (SCFM).
[District Rule 204]

9. The flow rate measured at the inlet of the system shall not exceed 250 SCFM.
[District Rule 204]

10. Within ninety (90) days of commencement of operation the owner/operator shall conduct a compliance/certification test (source test) for benzene and total petroleum hydrocarbons as gasoline (TPHg) in accordance with the District's "Compliance Test Procedural Manual".

a. At least thirty (30) days prior to the commencement of operation of this soil vapor extraction and treatment system the o/o shall submit to the District a written test plan for review and approval.
b. At least ten (10) days prior to the scheduled test date, the o/o shall give written notice of the test date(s) to the District so that an observer may be present.
c. A written test report with the results of such test shall be submitted to the District within forty-five (45) days after completion of sample collections on-site.
[District Rule 204]

11. The owner/operator shall notify the District Engineering Section, in writing, within 10 working days of each of the following:
a. Commencement of construction or installation;
b. Completion of construction or installation;
c. Commencement of operation; and
d. Completion of operation.
[District Rule 204]

X. NEGATIVE AIR MACHINES
District Permit Numbers: C003396, C003397, C003398, and C012412

1. This equipment 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 63.6640(a), District Rule 204]

2. The final filter in this Negative Air Machine must be a certified High Efficiency Particulate Air (HEPA) filter with a 99.97% minimum capture efficiency for particles with an aerodynamic diameter of 0.3 microns and larger.
[District Rule 204]

3. This unit may be used on any asbestos project in the District with proper 10 day notification consistent with 40 CFR 61.145. This requirement shall be met by submitting written communication a minimum of 10 District working days prior to actual placement of the unit at each new site.
[40 CFR 61.145, District Rule 204]

4. During full containment projects, view ports shall be provided for inspection purposes. The view port dimensions shall be at least 18 inches by 18 inches square and the bottom of the port shall be no less than 3 feet from the floor. Furthermore, these viewing ports shall be sufficient in number to allow observation of all stripping and removal of regulated asbestos containing material.

[District Rule 204]

5. The total combined operating hours for all Negative Air Machines operated at this facility shall not exceed 26,000 hours in any rolling consecutive 12 month period.
[District Rule 204]

6. The owner/operator shall maintain operating logs which contain at least the following information:
a. Date of each use; and
b. Beginning and ending hour meter readings for each day's use.
The logs shall be used to verify the operating limit in Condition 5 and must be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

Y. GASOLINE INTERNAL COMBUSTION ENGINE, IN-USE EMERGENCY FIRE PUMP UNDER 500 BHP

District Permit Number: E004897

1. This equipment 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 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 63.6625(e) and Table 6; Rule 204]

2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[40 CFR 63.6625(f)]

3. This engine shall be limited to emergency use only, 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 100 hours per year for testing and maintenance, excluding compliance source testing. Time used for source testing will not be counted toward the 100 hour per year limit.
[40 CFR 63.6640(f)]

4. The owner/operator shall maintain an operations log for this engine which shall include, at a minimum, the information specified below:
a. Date of each use and duration of each use (in hours, from hour meter);
b. Reason for use (testing & maintenance, emergency, emissions /source testing);
c. Calendar year operation in terms of fuel consumption (in gallons or total hours); and
d. Records of all maintenance actions performed as required in Condition 7.

The logs shall be maintained current, on-site for a minimum of five (5) years, and made available to District personnel upon request.
[40 CFR 70.6(a)(3)(ii)(b), 40 CFR 63.6655, District Rule 204]

5. The owner/operator shall 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.
[40 CFR 63.6625(h)]

6. This unit 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.
[District Rule 204]

7. The owner/operator shall conduct maintenance actions and inspections in accordance with the following schedule. All inspections must occur at least annually regardless of operating hours.
a. Change oil and filter every 500 hours of operation or annually, whichever comes first, or use an oil change analysis program to extend oil change frequencies per the requirements in 40 CFR 63.6625(j);
b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR 63.6640(b), Table 2c, Table 6, and 40 CFR 63.6650(d)]

8. This engine 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.
[District Rule 204]

Z. DIESEL INTERNAL COMBUSTION ENGINES, IN-USE EMERGENCY FIRE PUMPS AND GENERATORS UNDER 500 BHP

District Permit Numbers: E004899, E007945, E007948, E008521, and E008555

1. This equipment 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 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 63.6640(a) and Table 2c; District Rule 204]

2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[40 CFR 63.6625(f); Title 17 CCR 93115.10(d)]

3. This engine 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:
1. A minimum cetane index of 40; or,
2. A maximum aromatic content of 35 volume percent.
[17 CCR 93115.5(a) and 40 CFR 80.510(b)]
Note: Use of CARB certified ULSD fuel satisfies the above requirements.

4. [For E004899 and E007945] This unit shall be limited to emergency use only, 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 rolling consecutive twelve month period for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour rolling annual limit. Additional maintenance and testing time may be authorized if it is required by NFPA-25 ("Water-Based Fire Protection Systems Handbook, current edition) and approved in advance by the District.
STATE AND DISTRICT ENFORCEABLE ONLY
[17 CCR 93115.6(b)]
or
4. [For E007948, E008521, and E008555] This unit shall be limited to emergency use only, 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 30 hours per rolling consecutive twelve month period for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 30 hour rolling annual limit.
STATE AND DISTRICT ENFORCEABLE ONLY
[17 CCR 93115.6(b), District Rule 204]

5. This unit shall be limited to emergency use only, as defined in 40 CFR 63.6640(f). In addition, this unit shall be operated no more than 100 hours per rolling consecutive twelve month period for testing and maintenance, including compliance source testing.
[40 CFR 63.6640(f), District Rule 204]

6. 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 per hour meter);
b. Reason for use (testing & maintenance, emergency, required emission testing);
c. Rolling consecutive twelve month period operation in terms of fuel consumption (in gallons or total hours);
d. Records of all required maintenance and inspection actions listed in condition #9 and,
e. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content. Such certification may be stored separately from the remainder of the log).
[40 CFR 70.6(a)(3)(ii)(b), 40 CFR 63.6655, 17 CCR 93115.10(f), District Rule 204]

7. The owner/operator shall 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.
[40 CFR 63.6625(h)]

8. This unit shall not be used to provide power during a voluntarily 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.
[40 CFR 63.6640(f), 17 CCR 93115.6(c)(2); Rule 204]

9. The owner/operator shall conduct inspections in accordance with the following schedule. All inspections must occur at least annually regardless of operating hours.
a. Change oil and filter every 500 hours of operation or annually, whichever comes first, or use an oil change analysis program to extend oil change frequencies per the requirements in 40 CFR 63.6625(i);
b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR 63.6630(a), Table 2c, 40 CFR 63.6640(b), and 40 CFR 63.6650(d)]

10. This engine 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), District Rule 204]

11. This engine is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines Title 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ (RICE NESHAPs).

[District Rule 204]

AA. DIESEL INTERNAL COMBUSTION ENGINES, NEW EMERGENCY GENERATORS AND FIRE PUMPS UNDER 500 BHP

District Permit Numbers: E009973, E010633, and E012364

1. This equipment 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 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; District Rule 204]

2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
[40 CFR 60.4209; Title 17 CCR 93115.10(d)]

3. This engine 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:
1. A minimum cetane index of 40; or,
2. A maximum aromatic content of 35 volume percent.
[17 CCR 93115.5(a) and 40 CFR 80.510(b)]
Note: Use of CARB certified ULSD fuel satisfies the above requirements.

4. [For E009973 and E010633] This unit shall be limited to emergency use only, 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 50 hours per rolling consecutive twelve month period for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 50 hour rolling annual limit.
STATE AND DISTRICT ENFORCEABLE ONLY
[17 CCR 93115.6(b), District Rule 204]

or

4. [For E012364 only] This unit shall be limited to emergency use only, 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 50 hours per rolling consecutive twelve month period for testing and maintenance, unless NFPA (current edition) authorizes additional time: If the 50 hour limit is exceeded due to NFPA requirements, the owner/operator is to have the authorizing section of NFPA 25 available for review at all times. Time required for source testing will not be counted toward the 50 hour rolling annual limit.

STATE AND DISTRICT ENFORCEABLE ONLY
[17 CCR 93115.6(b), District Rule 204]

5. This unit shall be limited to emergency use only, as defined in 40 CFR 60.4219. In addition, this unit shall be operated no more than 100 hours per rolling consecutive twelve month period for testing and maintenance, including compliance source testing.
[40 CFR 60.4211(f), District Rule 204]

6. 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 per hour meter);
b. Reason for use (testing & maintenance, emergency, required emission testing);
c. Rolling consecutive twelve month period operation in terms of fuel consumption (in gallons or total hours);
d. Records of all maintenance and inspections; and,
e. Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content. Such certification may be stored separately from the remainder of the log).
[40 CFR 70.6(a)(3)(ii)(b), 40 CFR 60.4214, 17 CCR 93115.10(f), District Rule 204]

7. [For E009973 and E010633] This unit shall not be used to provide power during a voluntarily 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.
[40 CFR 60.4211 and 60.4219, 17 CCR 93115.6(a); Rule 204]

8. This engine 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(a), District Rule 204]

9. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines, and 40 CFR 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
[District Rule 204]

BB. NON-RETAIL GASOLINE DISPENSING FACILITIES (GDFs)
District Permit Numbers: N003062, N003570, and N012461

1. The toll-free number that must be conspicuously posted in the gasoline dispensing area in accordance with District Rule 461 is: 1-800-635-4617.
[District Rule 461]

2. The owner/operator shall maintain an operations log for this GDF 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 and results of each inspection;
b. Records of all maintenance and repairs;
c. Rolling consecutive twelve month period throughput, in gallons; and
d. Results of all tests conducted, including failed tests.
[40 CFR 70.6(a)(3)(ii)(b), District Rules 204 and 461]

3. Any modifications or changes to the piping or control fittings of the vapor recovery system require prior approval from the District.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[District Rule 461]

4. [For N003062 and N003570] The vapor vent pipe is to be equipped with either a Husky 5885 or a Franklin Fueling Systems PV-Zero pressure/vacuum relief vent valve (P/V Valve) as listed in CARB Executive Order VR-301-F.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Order VR-301-F, District Rule 461]

or

4. [For N012461 only] The vapor vent pipe is to be equipped with either a Husky 5885 or a Franklin Fueling Systems PV-Zero pressure/vacuum relief vent valve (P/V Valve) as listed in CARB Executive Order VR-402-C.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Order VR-402-C, District Rule 461]

5. [For N003062 and N003570] The owner/operator shall conduct and pass the following tests at least once in every rolling consecutive twelve month period:
a. Leak Rate and Cracking Pressure of P/V Valve in accordance with CARB Test Method TP-201.1E;
b. Liquid Removal Rate in accordance with CARB Test Method TP-201.6, if applicable;
c. Static Pressure Decay test in accordance with CARB Test Method TP-201.3B (2-inch test); and

d. Emergency vents and manways shall be leak free when tested at the operating pressure of the tank in accordance with CARB Test Method 21. A leak is defined as a meter concentration of 10,000 ppmv or higher, measured as methane.
The District shall receive all test reports no later than six (6) weeks prior to the expiration date of this permit.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Order VR-301-F IOM, District Rules 204 and 461]
or

5. [For N012461 only] The owner/operator shall conduct and pass the following tests at least once in every rolling consecutive twelve month period:
a. Leak Rate and Cracking Pressure of P/V Valve in accordance with CARB Test Method TP-201.1E;
b. Liquid Removal Rate in accordance with CARB Test Method TP-201.6, if applicable;
c. Static Pressure Decay test in accordance with CARB Test Method TP-201.3B (2-inch test); and
d. Emergency vents and manways shall be leak free when tested at the operating pressure of the tank in accordance with CARB Test Method 21. A leak is defined as a meter concentration of 10,000 ppmv or higher, measured as methane.
The District shall receive all test reports no later than six (6) weeks prior to the expiration date of this permit.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Order VR-402-C IOM, District Rules 204 and 461]

6. [For N003062 and N012461] The rolling consecutive twelve month period throughput shall not exceed 500,000 gallons. Before this throughput limit can be increased, the facility may be required to submit a site specific Health Risk Assessment in accordance with a District approved plan. In addition, public noticing and a comment period may be required.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[District Rules 204, 1302, and 1320]
or

6. [For N003570 only] The rolling consecutive twelve month period throughput shall not exceed 600,000 gallons. Before this throughput limit can be increased, the facility may be required to submit a site specific Health Risk Assessment in accordance with a District approved plan. In addition, public noticing and a comment period may be required.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[District Rules 204, 1302, and 1320]

7. [For N003602] The owner/operator shall operate and maintain this GDF in accordance with CARB Executive Orders G-70-167 and VR-301-F. The hanging hardware shall be replaced with EVR Phase II certified hardware during all future replacements of such items.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Orders G-70-167 and VR-301-F, District Rule 461]

or

7. [For N003570] The owner/operator shall operate and maintain this GDF in accordance with CARB Executive Orders G-70-139, VR-301-F, and VR-402-B. The hanging hardware shall be replaced with EVR Phase II certified hardware during all future replacements of such items.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Orders G-70-139, VR-301-F, and VR-402-B, District Rule 461]

or

7. [For N012461] The owner/operator shall operate and maintain this GDF in accordance with CARB Executive Orders G-70-213-C and VR-402-C. The hanging hardware shall be replaced with EVR Phase II certified hardware during all future replacements of such items.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Orders G-70-213-C, VR-402-C, and District Rule 461]

8. [For N003570] Maintenance and repair of EVR Phase I system components, including removal and installation of such components in the course of any required tests and inspections, shall be performed by factory certified technicians.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Order VR-402-B, District Rule 204]

9. [For N003570] At least once in any consecutive twelve-month period, the owner/operator shall conduct the following Hirt VCS-200 maintenance:
a. Check the vacuum turbine's ability to evacuate the vapor recovery system and maintain proper vacuum. While preparing to dispense fuel to motor vehicles (pump energized, but no dispensing), the system shall achieve a vacuum of at least 0.4 inches of water column. Otherwise, the system shall maintain a vacuum of at least 0.1 inches of water column. The system vacuum shall be verified at the dispensing pump which has the longest vapor path to the thermal oxidizer. This dispensing pump shall be fitted with a permanent pressure gauge in order to verify system vacuum. If needed, the o/o shall calibrate the Hirt pressure switches in accordance with Hirt instructions to meet the above specifications.
b. Check pilot light and main burner for proper operation. Upon activation of the vacuum turbine, the pilot solenoid should open and allow raw vapors to exit through the pilot light. Simultaneously, the ignitor module should cause an electric spark to be arced near the pilot light head and ignite the pilot flame. Thereafter, the electric spark should stop and the burner solenoid should open and allow vapors to exit through the burner where they are combusted. After the burner flame is ignited, a thermal switch should close the pilot solenoid and thereby extinguish the pilot flame. The pilot flame should ignite within one to five seconds. (Ignition is readily noted by the termination of the audible "clicking" sound of the electronic ignitor and observation of the pilot flame itself). Delayed ignition or burner cycling on and off indicates needed adjustment or system maintenance.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Order VR-402-B, District Rule 204]

10. [For N003570] At least once in any consecutive twelve-month period, the owner/operator shall demonstrate the vapor recovery systems capacity to clear a liquid blockage by completing the following:
a. Introduce 100 milliliters of gasoline into the dispensing nozzles vapor return line (through the bellows).
b. Then dispense 10 gallons of gasoline through the nozzle.
c. Verify that no more than 2 milliliters of liquid gasoline drains from the nozzle boot after dispensing.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Order G-70-139, District Rule 204]

11. [For N003570] The Hirt vacuum turbine shall be replaced at least once every ten years since the previous installation/replacement. A record of the most recent replacement shall be kept with the equipment at all times.
[STATE AND DISTRICT ENFORCEABLE ONLY]
[CARB Executive Order G-70-139, District Rule 204]

CC. PAINT SPRAY GUNS, HVLP

District Permit Numbers: P005142, P008346, and P009549

1. All coatings, diluents, thinners and solvents shall comply with District Rules 442, 1113, 1114, and 1115 in their entirety. These rules pertain to Photochemically Reactive Solvents, Architectural Coatings, Wood Products Coatings, and Metal Parts & Products Coatings Operations.
[District Rules 442, 1113, 1114, 1115, and 1116]

2. The owner/operator shall maintain an operations log for this paint gun 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. Equipment used to apply each coating (this District permit number);
b. Type of coating used and its VOC limit under each applicable rule;
c. Quantity of coating used and its VOC content (in pounds per gallon or grams per liter); and
d. Total VOC emissions for that day's operations.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

3. The total VOC emissions from this permit unit shall not exceed 20 lb/day, midnight to midnight.
[District Rules 204 and 1303]

4. This paint gun may be operated outside of the main areas of operation and/or a spray booth.
[District Rule 204]

DD. PAINT SPRAY BOOTHS

District Permit Numbers: S002204, S003135, S003138, and S007809

1. This equipment 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 contaminants. 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 204]

2. All coatings, diluents, thinners and solvents used within this paint booth shall comply with District Rules 442, 1113, 1114, and 1115 in their entirety. These rules pertain to Photochemically Reactive Solvents, Architectural Coatings, Wood Products Coatings, and Metal Parts & Products Coatings Operations.
[District Rules 442, 1113, 1114, 1115, and 1116]

3. The owner/operator shall maintain an operations log for this paint booth 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. Equipment used to apply each coating and the type of substrate being coated;
b. Type of coating used and its VOC limit under each applicable rule;
c. Quantity of coating used and its VOC content (in pounds per gallon or grams per liter);
d. Total VOC emissions for each day's operations;
e. Total VOC emissions for each rolling consecutive twelve month period; and
f. Differential pressure readings across the exhaust filters.
[40 CFR 70.6(a)(3)(ii)(b), District Rule 204]

4. The owner/operator shall not use an application method other than HVLP spray guns, hand-held Aerosol Coating Products or Hand Application methods unless prior written approval is obtained from the District.
[District Rules 442, 1113, 1114, 1115, and 1116]

5. Discharge filters shall be installed and maintained in a tightly mounted and dimensionally stable condition, free from excessive deposits or interference with air flow passages. Differential pressure drops across the discharge filters shall be maintained between 0.5 and 2.0 inches of water column as currently recommended by the manufacturer: If a change in any filter type requires a modification to this range, the District shall be notified in writing prior to the change.
Note: Currently, isocyanate emissions are not specifically regulated. However, the facility may be required to file a Toxics Emissions Inventory and/or conduct a Health Risk Assessment. Based on the Risk Assessment, control of the emissions may be required.
[District Rules 204 and 1320]

6. The total amount of VOCs emitted from this paint booth shall not exceed 20 pounds per day. Furthermore, the total amount of VOCs emitted from this paint booth shall not exceed more than 4,000 pounds per rolling consecutive twelve month period.
[District Rule 204]

7. The owner/operator shall not use any motor vehicle or mobile equipment coating that contains hexavalent chromium or cadmium as discussed in 17 CCR 93112 - Airborne Toxic Control Measure for Emissions of Hexavalent Chromium and Cadmium from Motor Vehicle and Mobile Equipment Coatings). Compliance with this condition shall be verified by the retention of MSDS sheets (or equivalent documentation of chemical content) for every applicable coating used at the facility for five (5) years, and these shall be provided to District, State or Federal personnel upon request.
[17 CCR 93112, District Rule 1116]

8. [For S007809 only] The exempt heater incorporated into this equipment shall be used only when necessary to maintain a comfortable working temperature within the paint booth.
[District Rules 204 and 219]

EE. DIP TANKS AND PARTS WASHERS

District Permit Numbers: T003150, T003152, T005063, T009804, and T010868

1. This tank shall be provided with a tight fitting cover, which shall be closed when the tank is not in use.
[District Rule 1104]

2. [For T003150] The solvent used in this tank is limited to Citrikleen parts cleaner or equivalent. This solvent shall not be heated above ambient temperature.
[District Rule 1104]

or

2. [For T003152, T005063, and T009804] The solvent used in this tank is limited to paint thinner (CAS 64742-88-7). This solvent shall not be heated above ambient temperature.
[District Rule 1104]

or

2. [For T010868] The solvent used in this tank is limited to EcoLink “New II” Environmentally Preferred Parts Cleaner or equivalent. This solvent shall not be heated above ambient temperature.
[District Rule 1104]

3. This tank shall have at least 6 inches of freeboard after immersion of items to be cleaned.
[District Rule 1104]

4. Parts shall be added and removed in such a manner to preclude splashing and parts being removed shall be visually dry before removal.
[District Rule 1104]

5. The vertical speed of the hoist shall not exceed eleven (11) feet per minute when such a hoist is used.
[District Rule 1104]

6. 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. Type of solvent used;
b. Dates and amounts of solvent added;
c. Records of all maintenance and repairs to the system; and
d. Total solvent usage for each rolling consecutive twelve month period;
[40 CFR 70.6(a)(3)(ii)(b), District Rules 204 and 1104]

7. Total solvent used in all Dip Tanks and Parts Washers under District permit numbers T003150, T003152, T005063, T009804 and T010868 shall not exceed 548 gallons in any consecutive twelve month period.
[District Rule 204]

FF. LPG/PROPANE INTERNAL COMBUSTION ENGINE, NEW EMERGENCY GENERATOR UNDER 500 BHP
District Permit Number: E012400

1. This stationary, spark-ignited, internal combustion engine, air-fuel ratio controller, and control device (three-way catalyst) 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 contaminants.
[40 CFR 60.4233(e), 60.4234, 60.4243(a),(d), and (g) - Subpart JJJJ - NSPS for Stationary Spark Ignition ICE]

2. 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 204]

3. This unit shall only be fired on Commercial Grade LPG/Propane fuel.
[District Rules 431 and 1303]

4. 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 each use (testing & maintenance, emergency, emission testing, etc.);

c. Monthly and calendar year operation in terms of total hours;

d. Records of all maintenance and repair actions performed on the engine, the AFRC, and the three-way catalyst; and,

e. Documentation from the engine manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR 1048.

[40 CFR 60.4245, 40 CFR 1048, District Rule 1302]

5. This engine 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.

[District Rule 1302]

6. This unit shall not be used to provide power during a voluntarily 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.

[40 CFR 60.4243(d), 60.4248]

7. The catalytic converter shall be cleaned in accordance with the manufacturer's written procedures when the pressure differential across the converter exceeds two (2) inches water column above its initial reading at startup.

[40 CFR 60.4243, District Rule 1302]

8. This engine is subject to the requirements of the New Source Performance Standards (NSPS) for Stationary Spark Ignition IC Engines (40 CFR 60, Subpart JJJJ).

[40 CFR 60, Subpart JJJJ, District Rule 1302]

GG. DIESEL INTERNAL COMBUSTION ENGINES, EMERGENCY GENERATORS

District Permit Numbers: E012793, E012799, E012800, E012801, and E012802

1. This certified stationary compression-ignited internal combustion engine and its associated emission control systems 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); District Rule 1160]

2. [For District Permit Units E012799 and E012800 only] This engine shall not be operated unless all of the following emission control systems are properly functioning:

a. Diesel Oxidation Catalyst
b. Electronic Control Module
c. Exhaust Gas Recirculation
d. Continuous Trap Oxidizer
e. SCR-Urea
f. Ammonia Oxidation Catalyst

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[40 CFR 60.4211, MDAQMD Rules 1302 and 1320]

2. [For District Permit Units E012793, E012801, and E012802 only] This engine shall not be operated unless all of the following emission control systems are properly functioning:
a. Diesel Oxidation Catalyst
b. Electronic Control Module
c. Exhaust Gas Recirculation
d. SCR-Urea
e. Ammonia Oxidation Catalyst

Furthermore, no changes shall be made to any of the above systems unless done so by a factory certified technician.
[40 CFR 60.4211, MDAQMD Rules 1302 and 1320]

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:
1. A minimum cetane index of 40; or,
2. A maximum aromatic content of 35 volume percent.
[17 CCR 93115.5(a) and 40 CFR 80.510(c)]
Note: Use of CARB certified ULSD fuel satisfies the above requirements.

4. The owner/operator shall maintain an operations log for this engine 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 following information:
a. Date of each use and duration of each use (in hours);
b. Reason for each use (testing & maintenance, emergency, emission testing, etc.);
c. Monthly and calendar year operation in terms of total hours; and
d. Records of all maintenance and repair actions performed on the engine and all emission control systems listed in Condition 2 above
[40 CFR 60.4245, 40 CFR 1048, District Rule 1302]

5. This engine 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.

[District Rule 1302]

6. This unit shall not be used to provide power during a voluntarily 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. [40 CFR 60.4243(d), 60.4248]

7. This engine is subject to the requirements of the New Source Performance Standards (NSPS) for Stationary Spark Ignition IC Engines (40 CFR 60, Subpart JJJJ).
[40 CFR 60, Subpart JJJJ, District Rule 1302]

8. This engine meets all emission limits of 40 CFR 60 subpart IIII and 17 CCR 93115 for use as a stationary emergency engine and therefore may be used to provide intermittent emergency power to stationary test sites throughout the South Range area of operations and relocated to protected locations when not in use to prevent exposure to severe weather.
[40 CFR 60 subpart IIII; 17 CCR 93115; District Rule 204]

PART IV
STANDARD FEDERAL OPERATING PERMIT 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 to determine whether cause exists for modifying, revoking and reissuing, terminating, or determining compliance with the Federal Operating Permit.
   [40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. Owner/Operator shall furnish to qualified District, CARB or EPA 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. This facility is not subject to 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]

23. If Owner/Operator emits 25,000 metric tons CO2e or more per year in combined emissions from all stationary fuel combustion sources, then Owner/Operator shall then comply with the provisions of 40 CFR 98 – Mandatory Greenhouse Gas Reporting.
    [40 CFR 98.2(a)(3)]

PART V
OPERATIONAL FLEXIBILITY

OFF PERMIT CHANGES

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

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

or

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

or

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

and

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

and

   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)]

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

   a. Permitee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. [See 1203(E)(1)(c)]
   b. In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:
      1. A notification that this application is also an application for an "Off Permit" Change pursuant to this condition [See 1203(E)(1)(c)];

      and

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

      and

      3. A list of any existing Applicable Requirements which would cease to apply as a result of the change. [See 1203(E)(1)(c)]
   c. Permitee shall forward a copy of the application and notification to USEPA upon submitting it to the District. [See 1203(E)(1)(c)]
   d. 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)]

e. 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)]
f. 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)]

3. 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)]

[District Rules 204 and 1203]

PART VI
CONVENTIONS, ABBREVIATIONS, DEFINITIONS

A. 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 70, State Operating Permit Programs
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 SO2 Emissions Data Protocol
40 CFR Part 75, Appendix F, Conversion Procedures
40 CFR Part 75, Appendix G, Determination of CO2 Emissions
40 CFR Part 80, Regulation of Fuels and Fuel Additives

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 used in this permit are as follows:

acfm..... Actual Cubic Feet per Minute
ACFM ..... Actual Cubic Feet per Minute

ACM..... Asbestos Containing Materials
AFFF ..... Aqueous Film Forming Foam

APCO ..... Air Pollution Control Officer
ARB ..... Air Resources Board (California Air Resources Board)
ASTM ..... American Society for Testing and Materials
BACT ..... Best Available Control Technology
bhp ..... Brake Horsepower
Btu ..... British Thermal Units
Btu/hour ..... British Thermal Units per Hour
CAM ..... Compliance Assurance Monitoring
CARB ..... California Air Resources Board
CBAT ..... Contained Burn Assessment Test
CCR ..... California Code of Regulations
CEMS ..... Continuous Emissions Monitoring System
CFR ..... Code of Federal Regulations
CFM ..... Cubic Feet per Minute
CO ..... Carbon Monoxide
CO2 ..... Carbon Dioxide
deg C ..... Degrees Celsius
deg F ..... Degrees Fahrenheit
District ..... Mojave Desert Air Quality Management District (formed July 1993)
EPA ..... Environmental Protection Agency
EtOH ..... Ethyl Alcohol
EtOH/H2O ... Ethyl alcohol mixed with water
Ex. Order ..... Executive Order
FOP ..... Federal Operating Permit
FR ..... Federal Register
ft ..... Feet
ft/min ..... Feet/Minute
gal/min ..... Gallons per Minute
gpm ..... Gallons per Minute
g/l ..... Grams per Liter
gr/L ..... Grains per Liter
HEPA ..... High Efficiency Particulate Air
HIVAS ..... High Velocity Airflow System
HVLP ..... High Volume Low Pressure
hp ..... Horsepower
hr ..... Hour
ICE ..... Internal Combustion Engine
in ..... Inch
Km ..... Kilometer
Kw ..... Kilowatt

kW ..... Kilowatt
lb..... Pound
lb/gal..... Pounds per gallon
lb/sec ..... Pounds per second
MCBAT ..... Modified Contained Burn Assessment Test
MDAQMD ... Mojave Desert Air Quality Management District (formed July 1993)
MMBtu/hr .... Million British Thermal Units per Hour
mm Hg..... Millimeters of Mercury (Pressure)
mph..... Miles Per Hour
NAWS ..... Naval Air Weapons Station, China Lake, California
NOx ..... Oxides of Nitrogen
NO_2..... Nitrogen Dioxide
Pb ..... Lead
PUC ..... Public Utility Commission
PM_{10} ..... Particulate matter less than 10 microns aerodynamic diameter
ppmv..... Parts Per Million by Volume
ppmvd..... Parts Per Million by Volume, Dry
psi ..... Pounds per Square Inch
psia ..... Pounds per Square Inch Absolute
psig ..... Pounds per Square Inch Gage
R&D ..... Research and Development
RDT&E ..... Research, Development, Test, and Evaluation
rpm ..... Revolutions Per Minute
SAE ..... Society of Automotive Engineers
SCC ..... Source Classification Code
scfm ..... Standard Cubic Feet per Minute
SCFM ..... Standard Cubic Feet per Minute
SIC ..... Standard Industrial Classification
SIP ..... State (of California) Implementation Plan
SO2..... Sulfur Dioxide
TNT ..... Trinitrotoluene
USEPA ..... United States Environmental Protection Agency
USN..... United States Navy
UTM..... Universal Transverse Mercator
VOC ..... Volatile Organic Compound(s)
WSL ..... Weapons Survivability Laboratory
µm ..... Micrometer (0.000001 meter)
^{o}C..... Degrees Celsius
°F ..... Degrees Fahrenheit

D. SIP Rule Citations for Mojave Desert Air Quality Management District Rules

District Rule Number	District Rule Title	SIP Rule Version	SIP Citation	Federally Enforceable	Notes
203	*Permit to Operate*	1/7/77	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	*Permit Conditions*	1/9/76	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	*Posting of Permit to Operate*	1/9/76	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	*Altering or Falsifying of Permit*	1/9/76	Approved 11/09/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C)	Y	
209	*Transfer and Voiding of Permit*	1/9/76	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	*Provision for Sampling And Testing Facilities*	1/9/76	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	*Stack Monitoring*	7/25/79	Approved 9/28/81, 46 FR 47451,40 CFR 52.220(c)(65)(ii)	Y	
219	*Equipment Not Requiring a Written Permit*	6/6/77	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)	Y	
221	*Federal Operating Permit Requirement*	12/21/94	Approved 2/5/96, 61 FR 4217, 40 CFR 52.220(c)(216)(i)(A)(2)	Y	

301	*Permit Fees*	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	*Fees for Federal Operating Permits*	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	
401	*Visible Emissions*	7/25/1977	Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(C)	Y	
403	*Fugitive Dust*	7/25/1977	Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(B)	Y	

403.2	*Fugitive Dust Control for the Mojave Desert Planning Area*	9/22/96	Approved 12/9/98, 63 FR 67784, 40 CFR 52.220(c)(194)(i)(H)(1)	Y	
404	*Particulate Matter Concentration*	7/25/77	Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)	Y	
405	*Solid Particulate Matter, Weight*	7/25/77	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	*Specific Contaminants*	7/25/1977 (subdivision (a))	Approved, 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)	Y	
407	*Liquid and Gaseous Air Contaminants*	5/7/76	Approved 9/8/78, 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C)	Y	

408	*Circumvention*	5/7/76	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	*Combustion Contaminants*	5/7/76	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	*Breakdown Provisions*	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	
431	*Sulfur Content of Fuels*	10/8/1976	Approved 9/8/1978, 43 FR 40011, 40 CFR 52.220(c)(37)(i)(B) and 40 CFR 52.220(c)(39)(ii)(B)	Y	
442	*Usage of Solvents*	2/27/06	Approved 09/17/2007, 72 FR 52791, 40 CFR 52.220(c)(347)(i)(C)(1)	Y	

900	*Standards of Performance for New Stationary Sources*	2/28/11	Delegated by USEPA	Y	Adopts NSPSs by reference. See NSPS Delegation Listing.
1000	*National Emissions Standards from Hazardous Air Pollutants*	2/28/11	Delegated by USEPA	Y	Adopts NESHAPs by reference. See NESHAP Delegation Listing.
1104	*Organic Solvent Degreasing Operations*	9/28/94	Approved: 4/30/96, 61 FR 18962, 40 CFR 52.220(c)(207)(I)(D)(2)	Y	
1113	*Architectural Coatings*	4/23/12	Approved: 1/03/14, 79 FR 364, 40 CFR 52.220(c)(428)(i)(C)	Y	
1115	*Metal Parts and Products Coating Operations*	4/22/96	Approved 12/23/97, 62 FR 67002, 40 CFR 52.220(c)(239)(i)(A)(2)	Y	
1161	*Cement Kilns*	3/25/02	Approved 1/2/02, 67 FR 19, 40 CFR 52.220(c)(287)(i)(A)(1)	Y	

1302	*NSR - Procedure*	3/25/96	Approved 11/13/1996, 61 FR 58133, 40 CFR 52.220(c)(239)(i)(A)(1)	Y	
Regulation XII	*Federal Operating Permits*	*1201-1210*: 9/26/05 1200 & 1211: 2/28/11	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		