

PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY

33 North Stone Avenue, Suite 700 • Tucson, AZ 85701 • Phone: (520) 243-7400

AIR QUALITY OPERATING PERMIT

(As required by Title 17.12, Article II, Pima County Code)

ISSUED TO

SOUTHERN ARIZONA VA HEALTH CARE SYSTEM

**3601 S. SIXTH AVENUE
TUCSON, AZ 85723**

This air quality operating permit does not relieve applicant of responsibility for meeting all air pollution regulations

THIS PERMIT ISSUED SUBJECT TO THE SPECIFIC CONDITIONS AND ATTACHMENTS IDENTIFIED IN THIS PERMIT.

PERMIT NUMBER **1906**

PERMIT CLASS **II**

ISSUED: **JULY 1, 2010**

EXPIRES: **JUNE 30, 2015**

REVISED **July XX, 2014**

SIGNATURE

Scott Porter, Environmental Quality Manager, PDEQ

TITLE

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Proposed Permit

SUMMARY

Southern Arizona Veterans Affairs Health Care System, (VA Hospital) is a healthcare facility located at 3601 South Sixth Avenue, in South Tucson, Arizona. The plant has diesel and natural gas dual fuel-fired boilers, natural gas boilers and emergency generators. The boilers are used to supply steam and heating hot water. There are three boilers used as steam production sources and two smaller ones that are used as water heating boilers. The three boilers are used in rotation depending on requirements of the day. The generators are used for backup electrical power in the case of an emergency or power outage.

Emissions result from the burning of fuel in the boilers and generators. The primary air pollutants emitted from the source are PM₁₀, NO_x, SO_x, CO and VOCs and the most significant of these are the nitrogen oxides. The VA Hospital has three fuel storage tanks that have been classified as insignificant activities.

The source remains as a synthetic minor for NO_x, SO_x and CO. It is a true minor for PM₁₀, VOCs and HAPs.

The annual allowable Potential to Emit for individual pollutants, from all Southern Arizona VA Health Care System operations is given in the Table below. These numbers are for reference purposes only and are not intended for direct enforcement unless specified otherwise in the permit.

Table 1
Potential To Emit

Pollutant	Facility Wide Potential Emissions (tons/yr)
NO _x	45.76
CO	11.35
SO _x	90.00
VOC	1.86
PM ₁₀	3.24
HAPs	0.10

All requirements of this permit that are Federally Enforceable or Material Permit Conditions are specifically indicated as such. All conditions in Attachment 1 are Federally Enforceable.

SPECIFIC CONDITIONS

I. Applicability

The equipment in Attachment 2 and 3 are specified for operation at the VA Hospital and includes multiple dual fuel-fired boilers, a natural gas boiler, NSPS diesel fired engines and Non NSPS diesel fired engines.

II. Emission Limitations and Standards

A. Natural Gas and Dual Fuel-Fired Boilers

1. Fuel Limitation Standards

a. When combusting diesel fuel, the Permittee shall not consume a volume of diesel more than 1 (one) million gallons during any 12-consecutive month period. [PCC 17.12.190.B]
[Voluntarily Accepted, Federally Enforceable and Material Permit Condition]

b. When combusting diesel fuel in the boilers, the Permittee shall combust only low sulfur diesel fuel in the boilers. [PCC 17.16.165.G]
[Material Permit Condition]

2. Visibility Limiting Standards

a. The Permittee shall not cause, allow or permit to be emitted into the atmosphere from any fuel-burning operation, smoke, excluding water vapor, which exceeds 40 percent opacity. [PCC 17.16.040]

b. The Permittee shall not cause or permit the airborne diffusion of visible emissions, excluding water vapor, beyond the property boundary line without appropriately controlling the emissions at the point of discharge. [PCC 17.16.050.D]

B. Generators (Non NSPS Engines)

1. Operational Hour Limitation

The Permittee shall not operate any generator more than 500 hours during any 12-consecutive month period. [PCC 17.12.185.A.2]
[Material Permit Condition]

2. Fuel Limitation Standard

The Permittee burn only the specified fuel(s) allowed for each generator in Attachment 2 of this permit. The Permittee shall not fire high sulfur oil ($\geq 0.9\%$ by weight). [PCC 17.12.190.B & PCC 17.16.340.H]
[Federally Enforceable & Material Permit Condition]

3. Opacity Standard

The Permittee shall not cause, allow, or permit to be emitted into the atmosphere from any stationary rotating machinery, smoke for any period greater than ten consecutive seconds that exceeds 40 percent opacity. Visible emissions when starting cold equipment shall be exempt from this requirement for the first ten minutes. [PCC 17.16.340.E]

4. Visibility Limiting Standard

The Permittee shall not cause or permit the airborne diffusion of visible emissions, excluding water vapor, beyond the property boundary line without appropriately controlling the emissions at the point of discharge. [PCC 17.16.050.D]

C. Generators (NSPS Engines)

Specific Conditions for NSPS for Stationary Compression Ignition Internal Combustion Engines are identified in Attachment 1 of this permit.

D. Surface Coating (Spray Paint Operations)

1. Operational Limitation

The Permittee shall not conduct any spray paint operation without minimizing organic solvent emissions. Such operations other than architectural coating and spot painting shall be conducted in an enclosed area equipped with controls containing no less than 96 percent of the overspray. [PCC 17.16.400.C.1]

2. Volatile Organic Compounds (VOC) Limitation

The Permittee shall not transport or store VOCs without taking necessary and feasible measures to control evaporation, leakage and other discharge into the atmosphere. [PCC 17.16.400.A]

III. Monitoring and Recordkeeping Requirements

A. Natural Gas and Dual Fuel-Fired Boilers

[PCC 17.12.185.A.3 & PCC 17.12.185.A.4]

1. In order to demonstrate compliance with the fuel limitation standard in II.A.1.a of the Specific Conditions, the Permittee shall monitor and record the monthly volume of diesel fuel fired in each boiler at the close of each month and recalculate a rolling twelve (12) month total. If no diesel fuel is fired in any given month, the records shall state the fact. Recording and recalculation of fuel volume shall be completed within 5 business days of the end of each month.
2. In order to demonstrate compliance with the fuel limitation standards in II.A.1.b of the Specific Conditions, the Permittee shall maintain records of the fuel supplier specifications or bill of lading sheets which verify the sulfur content of the fuel, piped and/or delivered. When using diesel fuel, the Permittee shall maintain an operation log for each dual fired boiler showing: [PCC 17.16.010.C]
 - a. The dates on which diesel fuel was fired in the boiler;
 - b. The maximum sulfur content in percent by weight for each load of diesel fuel purchased as certified by the supplier using Test Method ASTM D 2880-71 or an equivalent to determine the sulfur content of liquid fuels;
 - c. The dates that diesel fuel was purchased or delivered;
 - d. The basis for the determination of the sulfur content of the diesel fuel.
 - e. The amount of diesel fuel combusted in gallons.

Maintaining original copies of delivery sheets on site will satisfy maintenance of the operation log.

3. In order to demonstrate compliance with the visibility limitation standard in II.A.2 of the Specific Conditions, the Permittee shall observe the exhaust stacks of each dual-fired boiler at least once during each quarter when the units are firing diesel fuel for evidence of visible emissions. The Permittee shall record the results of each of these in a log containing the date of the check, the person making the check, the specific stack observed, and whether visible emissions were observed. If the visible emissions observed were greater than the standard in II.A.2 of the Specific Conditions, the Permittee shall include in the log entry any corrective action taken and report to the Control Officer according the requirements in the Additional Permit Conditions of this permit.

B. Emergency Generators (Non NSPS Engines)

[PCC 17.12.185.A.3 & PCC 17.12.185.A.4]

1. In order to demonstrate compliance with the operational hour limitation standard in II.B.1 of the Specific Conditions, the Permittee shall monitor and keep records of the following items for each generator:
 - a. Monthly totals of the engine-hours of operation for each generator. The totals for each month shall be recorded within five working days after the end of the month.
 - b. Monthly totals of the engine-hours of operation for each generator for the most recent 12-consecutive month period. These shall be kept by adding the totals from III.B.1.a of the Specific Conditions to the record of the previous 11 consecutive months.
2. In order to demonstrate compliance with the fuel limitation required in II.B.2 of the Specific Conditions, the Permittee shall maintain records of the fuel supplier specifications which verify the sulfur content of the fuel, piped and/or as delivered.
3. In order to demonstrate compliance with the opacity standard required in II.B.3 of the Specific Conditions, the Permittee shall observe the exhaust stacks of each generator at least once each quarter when the units are firing diesel fuel for evidence of visible emissions. The Permittee shall record the results of each of these in a log containing the date of the check, the person making the check, the specific stack observed, and whether visible emissions were observed. If the visible emissions observed were greater than the standard in II.B.3 of the Specific Conditions, the Permittee shall include in the log entry any corrective action taken and report to the Control Officer according the requirements in the Additional Permit Requirements of this permit.

C. Emergency Generators (NSPS Engines)

Specific monitoring and recordkeeping conditions for NSPS for Stationary Compression Ignition Internal Combustion Engines are identified in Attachment 1 of this permit.

D. Surface Coating (Spray Paint Operations)

The Permittee shall demonstrate compliance with the operational limitation for the surface coating operations required in II.C.1 of the Specific Conditions by retaining documentation with the specifications of the arrestance ratings of the filters used in the paint spray booth.

[PCC 17.12.185.A.3 & PCC 17.12.185.A.4]

E. Retention of Records

All records required by this permit shall be retained for at least five years.

[PCC 17.24.020.A]

IV. Reporting Requirements

See Additional Permit Requirements and Attachment 1 of this permit.

V. Testing Requirements

[PCC 17.12.185.A.3.a & PCC 17.20.010]

For purposes of demonstrating compliance, these test methods shall be used, provided that for the purpose of establishing whether or not the facility has violated or is in violation of any provision of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable federal requirements if the appropriate performance or compliance procedures or methods had been performed.

A. Applicable requirements for all NSPS Diesel Generators

Please refer to the NSPS for Stationary Compression Ignition Internal Combustion Engines, identified in Attachment 1 of this permit.

B. Applicable requirements for all Natural Gas, Dual Fuel-fired Boilers & Non NSPS Diesel Generators.

1. When required by the Control Officer, the Permittee shall determine compliance with the sulfur content standard in II.A.1.b and II.B.2 of the Specific Conditions as follows: ASTM D 2880-71 or an equivalent shall be used to determine the sulfur content of liquid fuels and ASTM D 1072-80, D 3031-81, D 4084-82, D 3246-81, or an equivalent shall be used for the sulfur content of gaseous fuels. When firing natural gas fuel in the dual-fired boilers, the Permittee need only demonstrate that pipeline quality natural gas was fired since the Federal Energy Regulatory Commission regulates the sulfur content of pipeline quality natural gas. When firing diesel fuel, the permittee may provide suppliers records certifying the sulfur content of the fuel in lieu of testing.
2. When required EPA Test Method 9 shall be used to monitor compliance with the opacity standard in II.A.2 and II.B.3 of the Specific Conditions. [PCC 17.12.185.A.3]

ADDITIONAL PERMIT REQUIREMENTS

I. Compliance with Permit Conditions

[PCC 17.12.185.A.7.a & b]

- A. The Permittee shall comply with all conditions of this permit including all applicable requirements of Arizona air quality statutes and the air quality rules. Any permit noncompliance constitutes a violation of the Arizona Revised Statutes and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. In addition, noncompliance with any federally enforceable requirement constitutes a violation of the Clean Air Act.
- B. The Permittee shall report to the Control Officer any emissions in excess of the limits established by this permit. The report shall be in 2 parts as specified below: [PCC 17.12.185.A.5 & PCC 17.12.040]
 - 1 Notification by telephone or facsimile within 24 hours of the time the Permittee first learned of the occurrence of excess emission that includes all available information pursuant to PCC 17.12.040.B. To report excess emissions call **520-724-7400** or fax to **520-838-7432**.
 - 2. Detailed written notification by submission of an excess emissions report within 72 hours of the notification in I.B.1 above. Send to **PDEQ 33 N. Stone Ave, Ste 700, Tucson, Arizona 85701**.
- C. It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- D. The permit does not convey any property rights of any sort, or any exclusive privilege to the permit holder.
- E. The Permittee shall pay fees to the Control Officer pursuant to PCC 17.12.510. [PCC 17.12.185.A.9 & PCC 17.12.510]

II. Permit Revision, Reopening, Revocation and Reissuance, or Termination for Cause

[PCC 17.12.185.A.7.c]

The permit may be revised, reopened, revoked and reissued, or terminated for cause pursuant to PCC 17.12.270. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination; or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

III. Duty to Provide Information

[PCC 17.12.165.G & PCC 17.12.185.A.7.e]

- A. The Permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee shall furnish a copy of such records to the Control Officer along with a claim of confidentiality.
- B. If the Permittee has failed to submit any relevant facts or if the Permittee has submitted incorrect information in the permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.

IV. Severability Clause

[PCC 17.12.185.A.6]

The provisions of this permit are severable. If any provision of this permit is held invalid, the remainder of this permit shall not be affected thereby.

ATTACHMENT 1

NEW SOURCE PERFORMANCE STANDARDS FOR POST-MODEL YEAR 2007 EMERGENCY COMPRESSION IGNITION ENGINES

I. Applicability

[40 CFR 60.4200(a)(1)(i)]

The standards contained in this Attachment apply to owners/operators of emergency stationary compression ignition engines (CI ICE) that are not certified National Fire Protection Association (NFPA) fire pump engines and are model year 2007 or later. Specifically applicable units are identified in Attachment 4 of this permit. These standards are required in addition to those in the Specific Conditions and the Additional Permit Requirements. **All conditions in this Attachment 1 are Federally Enforceable Conditions.**

II. Operational Limitations

[PCC 17.12.185.A.2]

A. Hourly Limitation

1. The Permittee shall not operate the generator(s) for more than the number of hours per year allowed for the NSPS equipment list associated with this permit on a rolling twelve (12) month total basis.
2. For each generator identified as having an operational limitation in Attachment 4 of this permit, the Permittee shall record the monthly operating hours and recalculate a rolling twelve (12) month total within 10 calendar days of the end of the month. All records shall be maintained for five years.

[PCC 17.12.185.A.3 & 4]

B. Emission Limitations

[40 CFR 60.4203, 40 CFR 60.4202(a) & 40 CFR 4205(b)]

1. Certified Emission Limits

- a. New CI ICE subject to this Attachment shall be certified by the manufacturer at or below the applicable emission standards and shall continue to meet them for the useful life of the engine.
- b. Modified or reconstructed CI ICE subject to this Attachment shall be certified by the entity that conducts the modification or reconstruction (via the appropriate testing according to 40 CFR 60.4212, if appropriate). This certification shall state that emissions will be at or below the applicable emission standards and the unit shall continue to meet them for the useful life of the engine.
- c. Applicable emission standards and the useful life of the engine are identified in Attachment 4 of this permit.
- d. The Permittee must operate and maintain applicable units according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer, over the entire life of the engine.

[40 CFR 60.4206]

2. Opacity Standards

[40 CFR 60.4202(a)(1) & (a)(2), 40 CFR 89.113 & 40 CFR 1039.105]

Except for constant-speed engines, opacity shall not exceed:

- a. 20 percent during the acceleration mode;

- b. 15 percent during the lugging mode; and
- c. 50 percent during the peaks in either the acceleration or lugging modes.

C. Fuel Requirements

[40 CFR 60.4207]

1. Beginning October 1, 2007, stationary CI ICE subject to this Attachment that use diesel fuel must use diesel fuel that meets the following requirements on a per-gallon basis:
 - a. Sulfur content: 500 parts per million (ppm) maximum; [40 CFR 60.4207(a) & 40 CFR 80.510(a)]
 - b. Cetane index or aromatic content, as follows:
 - i. A minimum cetane index of 40; or
 - ii. A maximum aromatic content of 35 volume percent.
2. Beginning October 1, 2010, stationary CI ICE subject to this Attachment that use diesel fuel must use diesel fuel that meets the following requirements on a per-gallon basis:
 - a. Sulfur content: 15 ppm maximum; [40 CFR 60.4207(b) & 40 CFR 80.510(b)]
 - b. Cetane index or aromatic content, as follows:
 - i. A minimum cetane index of 40; or
 - ii. A maximum aromatic content of 35 volume percent.
3. With respect to pre-2011 model year stationary CI ICE subject to this Attachment, the Permittee may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of II.C.1 & 2 of this Attachment beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the Permittee shall be required to submit a new petition.

[40 CFR 60.4207(c)]

D. Installation Restrictions

[40 CFR 60.4208]

1. After December 31, 2008, the Permittee may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable NSPS requirements for 2007 model year engines. [40 CFR 60.4208(a)]
2. After December 31, 2009, the Permittee may not install stationary CI ICE with a maximum engine power of less than 25 hp (excluding fire pump engines) that do not meet the applicable NSPS requirements for 2008 model year engines. [40 CFR 60.4208(b)]
3. The requirements of II.D.1 and 2 of this Attachment do not apply to stationary CI ICE that have been modified or reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location. This provision does not extend to imported units which shall be treated as new sources. [40 CFR 60.4208(g) & (h)]

E. Emergency Designation

[40 CFR 60.4211(e)]

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The Permittee may petition the Control Officer for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Any operation other than emergency operation, and maintenance and testing as permitted in this Attachment, is prohibited.

F. Compliance

[40 CFR 60.4211]

1. The Permittee must operate and maintain the applicable stationary CI ICE according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer. In addition, the Permittee may only change those settings that are permitted by the manufacturer. [40 CFR 60.4211(a)]
2. With respect to 2007 model year and later stationary CI ICE subject to this Attachment, the Permittee shall demonstrate compliance with the emission standards specified in Attachment 4 of this permit by purchasing an engine certified to those standards. The engine must be installed and configured according to the manufacturer's specifications. [40 CFR 60.4211(c)]

III. Monitoring Requirements

[40 CFR 60.4209]

A. Hour Meter Installation

The Permittee shall install a non-resettable hour meter on each applicable stationary CI ICE prior to startup of each engine. [40 CFR 60.4209(a)]

B. Opacity

[40 CFR 89.113(b), 40 CFR 86.884]

1. Opacity levels in II.B.2 of this Attachment 1 are to be measured and calculated as set forth in 40 CFR Part 86, subpart I. Notwithstanding the provisions of 40 CFR Part 86, subpart I, two-cylinder nonroad engines may be tested using an exhaust muffler that is representative of exhaust mufflers used with the engines in use.
2. The following engines are exempt from the requirements of III.B.1 above of this Attachment 1. [40 CFR 89.113 (c)(1) & (3)]
 - a. Single-cylinder engines;
 - b. Constant-speed engines.

IV. Recordkeeping Requirements

[PCC 17.12.185.A.4]

A. Hourly Operational Records

[40 CFR 60.4214(b)]

Starting with the model years in Table 2 below, if the applicable engine(s) does not meet the standards for a non-emergency unit for the same model year and maximum horsepower, the Permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee shall also record the time of operation of the engine and the reason the engine was in operation during that time. All records shall be maintained for five years.

Table 2
Labeling and Recordkeeping Requirements for New Stationary Emergency Engines
Beginning in the Following Years:

Engine Power	Starting Model Year
$19 \leq \text{KW} < 56$ ($25 \leq \text{HP} < 75$)	2013
$56 \leq \text{KW} < 130$ ($75 \leq \text{HP} < 175$)	2012
$\text{KW} \geq 130$ ($\text{HP} \geq 175$)	2011

B. Diesel Fuel Recordkeeping

The Permittee shall maintain records that verify compliance with the diesel fuel requirements in II.C of this Attachment.

C. Opacity

The Permittee shall keep all records generated to show compliance with the opacity level measurement requirements of III.B of this Attachment.

V. Testing Requirements

[40 CFR 60.4212 & PCC 17.12.185.A.3.a]

Should the Permittee elect to or be required to conduct performance testing to demonstrate compliance with the applicable standards of this Attachment, the Permittee shall do so in accordance with 40 CFR 60.4212.

VI. Additional Requirements

[40 CFR 60.4218 & 40 CFR 60.4214(b)]

The General Provisions of 40 CFR 60.1 through 60.19 apply to applicable sources as indicated in Table 8 of 40 CFR 60.4218 except that the Permittee is not required to submit an initial notification.

VII Facility Recordkeeping

[PCC 17.12.185.A.4]

All records required by, or generated to verify compliance with this attachment shall be maintained for five years.

ATTACHMENT 2

REQUIREMENTS SPECIFICALLY IDENTIFIED AS APPLICABLE

Code of Federal Regulations (CFR), Title 40, Chapter I, Subchapter C-Air Programs:

Part 60 Subpart III New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines.

Pima County Code (PCC) Title 17, Chapters:

- 17.16.010 Local Rules and Standards; Applicability of more than one Standard.
- 17.16.040 Standards and Applicability (Includes NESHAP).
- 17.16.050 Visibility Limiting Standard.
- 17.16.165 Standards of Performance for Fossil-Fuel Fired Industrial and Commercial Equipment.
- 17.16.340 Standards of Performance for Stationary Rotating Machinery.
- 17.16.400.C Organic Solvents and Other Organic Materials.
- 17.20.010 Source Sampling, Monitoring, and Testing.

ATTACHMENT 3

NON NSPS EQUIPMENT LIST

Type of Equipment	Location/Building Number	Make	Model	Serial Number	Maximum Rated Capacity	Fuel(s)	Date of Manufacture	Allowable Hours of Operation*
Boiler	17-1	York-Shipley Global	584L-S3W-300-S200	09-22296	12.5 MM BTU (4912 hp)	Natural Gas Or #2 Diesel	2009	N/A
Boiler	17-2	York-Shipley Global	584L-S3W-300-S200	09-22331	12.5 MM BTU (4912 hp)	Natural Gas or #2 Diesel	2009	N/A
Boiler	17-3	York-Shipley Global	584L-S3W-300-S200	09-22295	12.5 MM BTU (4912 hp)	Natural Gas or #2 Diesel	2009	N/A
Boiler	80-2	Patterson-Kelley	PK1500	FY01-07-30410 X-B	1.5 MM BTU (589.5 hp)	Natural Gas	1/2007	N/A
Boiler	80-1	Bryan	AB 150-W-FDG	88695	1.5 MM BTU (589.5 hp)	Natural Gas	2002	N/A
Generator	80	Daewoo	18.0L	2EASOA200126	752 hp	#2 Diesel	12/9/2002	500
Generator	60	Cummins	KTA19-G3	B050747734	685 hp	#2 Diesel	2/8/2006	500
Generator	40-1	Cummins	750DFJA	D930505096	1050 hp	#2 Diesel	3/18/1993	500
Generator	40-2	Cummins	KTA50-G3	70810-19	1850 hp	#2 Diesel	2/2003	500
Generator	78	Cummins	QSX15-G9 NR2	79244151	755 hp	#2 Diesel	8/2005	500

* Allowable Hours of Operation limited to maintenance and routine operational checks. No operational hour limitation for emergency provision as defined in PCC 17.04.340.A.75.

ATTACHMENT 4

NSPS GENERATOR EQUIPMENT LIST

Generator ID	Manufacturer	Model #	Serial Number/ ID number	Maximum Rated Capacity (hp)	Allowable Hours of Operation	Model year/ Applicability Date	Allowable Fuel(s)
1	Cummins	QSB5-G3 NR3	J070121222	145	100	1/2007	#2 Diesel
2	John Deere	6068HF275	PE6068H559379	220	100	2/2007	#2 Diesel
3	Cummins	QSK50-G4NR2	C070032091	2220	100	2/2007	#2 Diesel
4	Cummins	DSGAE	J130577454	303	100	10/16/2013	#2 Diesel

SUPPLEMENTAL REQUIREMENTS

The following requirements apply in addition to the Specific Conditions in Attachment 1 of this Permit

Generator ID (As Referenced in Table Above)	NOx (g/hp-hr)	NMHC (g/hp-hr)	NMHC+NOx (g/hp-hr)	CO (g/hp-hr)	PM (g/hp-hr)	Useful Life (term, date)
1	-	-	3.0	3.7	0.22	8,000 hours or 10 years, whichever comes first
2	-	-	3.0	2.6	0.15	
3	-	-	4.8	2.6	0.15	
4	-	-	3.0	2.6	0.15	

ATTACHMENT 5

NON ROAD ENGINE EQUIPMENT LIST

Manufacturer	Model #	Serial Number/ ID number	Maximum Rated Capacity (hp)	Allowable Hours of Operation	Model year/ Applicability Date	Location
Wenzlau/John Deere	1DB165J2	5SLBG15279L004671	200	N/A	11/2009	Portable
Wenzlau/Isuzu	DCA-25SSIU	8439-001	31	N/A	11/2010	Portable
Isuzu	DCA-45USI2	8202360	67.1	N/A	10/2011	Portable
Isuzu	DCA-45USI2	8202361	67.1	N/A	10/2011	Portable
Denyo Power Multiquip	DCA-85UUSJ2	8401258	115	N/A	12/2012	Portable
Denyo Power Multiquip	DCA-85USJ2	8401261	115	N/A	12/2012	Portable

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