

Issue Date

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**  
(xxxx xxxx xxxx xxxx xxxx)

16-xxxE CAB  
File No. 0793

Mr. Anthony G. Taparra  
Manager, Generation Operations  
Hawaiian Electric Company, Inc.  
P.O. Box 2750  
Honolulu, Hawaii 96840-0001

Dear Mr. Taparra:

**SUBJECT: Covered Source Permit (CSP) No. 0793-01-C**  
**Application for Initial Permit No. 0793-01**  
**Hawaiian Electric Company, Inc.**  
**Schofield Generating Station**  
**Six (6) Engine Generators**  
**Located At: Schofield Barracks, Wahiawa, Oahu**  
**Date of Expiration: 5 Years from Issue Date**

The subject covered source permit is issued in accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control and 40 Code of Federal Regulations §52.21, Prevention of Significant Deterioration (PSD). The issuance of this permit is based on the plans, specifications, and information that you submitted as part of your application received on July 22, 2013, and the additional information as part of your application received on April 30, 2014, September 16, 2014, January 23, 2015, and September 11, 2015.

The temporary covered source permit is issued subject to the conditions/requirements set forth in the following attachments:

- Attachment I: Standard Conditions
- Attachment II: Special Conditions
- Attachment II – INSIG: Special Conditions – Insignificant Activities
- Attachment III: Annual Fee Requirements
- Attachment IV: Annual Emissions Reporting Requirements

Mr. Anthony G. Taparra  
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The following forms are enclosed for your use and submittal as required:

Compliance Certification Form  
Annual Emissions Report Form: Engine Generators  
Monitoring Report Form: Engine Generators  
Excess Emission and Monitoring System Performance Summary Report

This permit: (a) shall not in any manner affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment; and (c) in no manner implies or suggests that the Department of Health, Clean Air Branch (herein after referred to as Department), or its officers, agents, or employees, assumes any liability, directly or indirectly, for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment.

If you have any questions, please contact Mr. Mark Saewong of the Clean Air Branch at (808) 586-4200.

Sincerely,

STUART YAMADA, P.E., CHIEF  
Environmental Management Division

MS:xx

Enclosures

**APPROVAL TO CONSTRUCT A STATIONARY SOURCE  
(CSP NO. 0793-01-C)  
HAWAIIAN ELECTRIC COMPANY, INC.  
SCHOFIELD GENERATING STATION, WAHIAWA, OAHU**

In compliance with the provisions of the Clean Air Act, as amended, and the PSD delegation agreement of August 15, 1983, as amended on January 5, 1989, between the U.S. Environmental Protection Agency (EPA), Region 9, and the State of Hawaii, Hawaiian Electric Company, Inc., is hereby granted approval to construct a stationary source for the operation of Schofield Generating Station which includes six (6) engine generators, in accordance with the plans submitted with the applications and with the federal regulations governing the prevention of significant air quality deterioration (40 CFR §52.21) and other conditions attached to this document and made part of this approval.

Failure to comply with any condition or term set forth in this approval will be considered grounds for enforcement action pursuant to Section 113 of the Clean Air Act.

This approval to construct and operate a stationary source grants no relief from the responsibility for compliance with any other applicable provisions of 40 CFR, Parts 52, 60, 61, and 63 or any applicable federal, state, or local air quality regulations.

This approval shall become effective thirty (30) days after the service of notice on the final permit action unless so appealed.

\_\_\_\_\_  
Stuart Yamada  
Chief, Environmental Management Division  
Hawaii Department of Health

Date: \_\_\_\_\_

\_\_\_\_\_  
Deborah Jordan  
Director, Air Division  
U.S. Environmental Protection Agency, Region 9

Date: \_\_\_\_\_

**ATTACHMENT I: STANDARD CONDITIONS  
COVERED SOURCE PERMIT NO. 0793-01-C****Issuance Date:****Expiration Date:**

This permit is granted in accordance with the Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control, and is subject to the following standard conditions:

1. Unless specifically identified, the terms and conditions contained in this permit are consistent with the applicable requirement, including form, on which each term or condition is based.  
  
(Auth.: HAR §11-60.1-90)
2. This permit, or a copy thereof, shall be maintained at or near the source and shall be made available for inspection upon request. The permit shall not be willfully defaced, altered, forged, counterfeited, or falsified.  
  
(Auth.: HAR §11-60.1-6; SIP §11-60-11)<sup>2</sup>
3. This permit is not transferable whether by operation of law or otherwise, from person to person, from place to place, or from one piece of equipment to another without the approval of the Department, except as provided in HAR, Section 11-60.1-91.  
  
(Auth.: HAR §11-60.1-7; SIP §11-60-9)<sup>2</sup>
4. A request for transfer from person to person shall be made on forms furnished by the Department.  
  
(Auth.: HAR §11-60.1-7)
5. In the event of any changes in control or ownership of the facilities to be constructed or modified, this permit shall be binding on all subsequent owners and operators. The permittee shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, copies of which will be forwarded to the Department and the U.S. Environmental Protection Agency (EPA), Region 9.  
  
(Auth.: HAR §11-60.1-5, §11-60.1-7, §11-60.1-94)
6. The facility covered by this permit shall be constructed and operated in accordance with the application, and any information submitted as part of the application, for the Covered Source Permit. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department, and the permit is amended to allow such deviation.  
  
(Auth.: HAR §11-60.1-2, §11-60.1-4, §11-60.1-82, §11-60.1-84, §11-60.1-90)

7. This permit (a) does not release the permittee from compliance with other applicable statutes of the State of Hawaii, or with applicable local laws, regulations, or ordinances, and (b) shall not constitute, nor be construed to be an approval of the design of the covered source.

(Auth.: HAR §11-60.1-5, §11-60.1-82)

8. The permittee shall comply with all the terms and conditions of this permit. Any permit noncompliance constitutes a violation of HAR, Chapter 11-60.1, and the Clean Air Act and is grounds for enforcement action; for permit termination, suspension, reopening, or amendment; or for denial of a permit renewal application.

(Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-19, §11-60.1-90)

9. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid.

(Auth.: HAR §11-60.1-90)

10. The permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the terms and conditions of this permit.

(Auth.: HAR §11-60.1-90)

11. This permit may be terminated, suspended, reopened, or amended for cause pursuant to HAR, Sections 11-60.1-10 and 11-60.1-98, and Hawaii Revised Statutes (HRS), Chapter 342B-27, after affording the permittee an opportunity for a hearing in accordance with HRS, Chapter 91.

(Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-90, §11-60.1-98)

12. The filing of a request by the permittee for the termination, suspension, reopening, or amendment of this permit, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(Auth.: HAR §11-60.1-90)

13. This permit does not convey any property rights of any sort, or any exclusive privilege.

(Auth.: HAR §11-60.1-90)

14. The permittee shall notify the Department and U.S. EPA, Region 9, in writing of the following dates:
- The **anticipated date of initial start-up** for each emission unit of a new source or significant modification not more than sixty (60) days or less than thirty (30) days prior to such date;
  - The **actual date of construction commencement** within fifteen (15) days after such date; and
  - The **actual date of start-up** within fifteen (15) days after such date.

(Auth.: HAR §11-60.1-90)

15. The permittee shall furnish, in a timely manner, any information or records requested in writing by the Department to determine whether cause exists for terminating, suspending, reopening, or amending this permit, or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Department copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health (Director) may require the permittee to furnish such records not only to the Department but also directly to the U.S. EPA, Region 9, along with a claim of confidentiality.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

16. The permittee shall notify the Department in writing, of the **intent to shut down air pollution control equipment for necessary scheduled maintenance** at least twenty-four (24) hours prior to the planned shutdown. The submittal of this notice shall not be a defense to an enforcement action. The notice shall include the following:
- Identification of the specific equipment to be taken out of service, as well as its location and permit number;
  - The expected length of time that the air pollution control equipment will be out of service;
  - The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
  - Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
  - The reasons why it would be impossible or impractical to shut down the source operation during the maintenance period.

(Auth.: HAR §11-60.1-15; SIP §11-60-16)<sup>2</sup>

17. **Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with HAR, Section 11-60.1-16.5, in the event any emission unit, air pollution control equipment, or related equipment malfunctions or breaks down in such a manner as to cause the emission of air pollutants in violation of HAR, Chapter 11-60.1, or this permit, the permittee shall immediately notify the Department of the malfunction or breakdown, unless the protection of personnel or public health or safety demands immediate attention to the malfunction or breakdown and makes**

such notification infeasible. In the latter case, the notice shall be provided as soon as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:

- a. Identification of each affected emission point and each emission limit exceeded;
- b. Magnitude of each excess emission;
- c. Time and duration of each excess emission;
- d. Identity of the process or control equipment causing the excess emission;
- e. Cause and nature of each excess emission;
- f. Description of the steps taken to remedy the situation, prevent a recurrence, limit the excessive emissions, and assure that the malfunction or breakdown does not interfere with the attainment and maintenance of the National Ambient Air Quality Standards and state ambient air quality standards;
- g. Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and
- h. A statement that the excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

The submittal of these notices shall not be a defense to an enforcement action.

(Auth.: HAR §11-60.1-16; SIP §11-60-16)<sup>2</sup>

18. The permittee may request confidential treatment of any records in accordance with HAR, Section 11-60.1-14.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

19. This permit shall become invalid with respect to the authorized construction if construction is not commenced as follows:

- a. Within eighteen (18) months after the permit takes effect, is discontinued for a period of eighteen (18) months or more, or is not completed within a reasonable time.
- b. For phased construction projects, each phase shall commence construction within eighteen (18) months of the projected and approved commencement dates in the permit. This provision shall be applicable only if the projected and approved commencement dates of each construction phase are defined in Attachment II, Special Conditions, of this permit.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

20. The Department may extend the time periods specified in Standard Condition No. 19 upon a satisfactory showing that an extension is justified. Requests for an extension shall be submitted in writing to the Department.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

21. The permittee shall submit fees in accordance with HAR, Chapter 11-60.1, Subchapter 6.

(Auth.: HAR §11-60.1-90)

22. All certifications shall be in accordance with HAR, Section 11-60.1-4.

(Auth.: HAR §11-60.1-4, HAR §11-60.1-90)

23. The permittee shall allow the Director, the Regional Administrator for the U.S. EPA and/or an authorized representative, upon presentation of credentials or other documents required by law:

- a. To enter the premises where a source is located or emission-related activity is conducted, or where records must be kept under the conditions of this permit and inspect at reasonable times all facilities, equipment, including monitoring and air pollution control equipment, practices, operations, or records covered under the terms and conditions of this permit and request copies of records or copy records required by this permit; and
- b. To sample or monitor at reasonable times substances or parameters to ensure compliance with this permit or applicable requirements of HAR, Chapter 11-60.1.

(Auth.: HAR §11-60.1-11, §11-60.1-90)

24. Within thirty (30) days of **permanent discontinuance of the construction, modification, relocation, or operation of a covered source covered by this permit**, the discontinuance shall be reported in writing to the Department by a responsible official of the source.

(Auth.: HAR §11-60.1-8; SIP §11-60-10)<sup>2</sup>

25. Each permit renewal application shall be submitted to the Department and the U.S. EPA, Region 9, no less than twelve (12) months and no more than eighteen (18) months prior to the permit expiration date. The Director may allow a permit renewal application to be submitted no less than six (6) months prior to the permit expiration date, if the Director determines that there is reasonable justification.

(Auth.: HAR §11-60.1-101; 40 CFR §70.5(a)(1)(iii))<sup>1</sup>

26. The terms and conditions included in this permit, including any provision designed to limit a source's potential to emit, are federally enforceable unless such terms, conditions, or requirements are specifically designated as not federally enforceable.

(Auth.: HAR §11-60.1-93)

27. The compliance plan and compliance certification submittal requirements shall be in accordance with HAR, Sections 11-60.1-85 and 11-60.1-86. As specified in HAR, Section 11-60.1-86, the compliance certification shall be submitted to the Department and the U.S. EPA, Region 9, once per year, or more frequently as set by any applicable requirement.

(Auth.: HAR §11-60.1-90)

28. **Any document (including reports) required to be submitted by this permit shall be certified as being true, accurate, and complete by a responsible official in accordance with HAR, Sections 11-60.1-1 and 11-60.1-4, and shall be mailed to the following address:**

**Clean Air Branch  
Environmental Management Division  
Hawaii Department of Health  
919 Ala Moana Boulevard, Room 203  
Honolulu, HI 96814**

**Upon request and as required by this permit, all correspondence to the State of Hawaii Department of Health associated with this Covered Source Permit shall have duplicate copies forwarded to:**

**Chief  
Permits Office, (Attention: Air-3)  
Air Division  
U.S. Environmental Protection Agency  
Region 9  
75 Hawthorne Street  
San Francisco, CA 94105**

(Auth.: HAR §11-60.1-4, §11-60.1-90)

29. To determine compliance with submittal deadlines for time-sensitive documents, the postmark date of the document shall be used. If the document was hand-delivered, the date received (“stamped”) at the Clean Air Branch shall be used to determine the submittal date.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

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<sup>1</sup>The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

<sup>2</sup>The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT II: SPECIAL CONDITIONS  
COVERED SOURCE PERMIT NO. 0793-01-C**

**Issuance Date:**

**Expiration Date:**

In addition to the standard conditions of the covered source permit, the following special conditions shall apply to the permitted facility:

**Section A. Equipment Description**

1. This permit encompasses the following equipment and associated appurtenances:

<u>Unit Nos.</u>	<u>Description</u>
S1, S2, S3, S4, S5, S6	8.3 MW/8.4 MW (peak) Wartsila engine generators, model no. 20V34DF, serial nos. TBD, equipped with selective catalytic reduction and oxidation catalyst.

Note: 8.3 MW when fired on diesel no. 2, biodiesel, and blends of diesel no. 2 and biodiesel, and 8.4 MW when fired on natural gas.

(Auth.: HAR §11-60.1-3)

2. An identification tag or name plate shall be displayed on the equipment listed above to show the manufacturer, model no., and serial no., as applicable. The identification tag or name plate shall be permanently attached to the equipment at a conspicuous location.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

**Section B. Applicable Federal Regulations**

1. The engine generators are subject to the provisions of the following federal regulations:

- a. 40 Code of Federal Regulations (CFR) Part 52, §52.21, Prevention of Significant Deterioration of Air Quality;
- b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Provisions;
- c. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines;
- d. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart A, General Provisions; and
- e. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-132, §11-60.1-161, §11-60.1-174; 40 CFR §52.21, §60.1, §60.4200, §63.1, §63.6585)<sup>1</sup>

2. The permittee shall comply with all applicable requirements of these standards, including all emission and operating limits, monitoring, recordkeeping, notification, reporting, and testing requirements. The major requirements of these standards are detailed in the special conditions of this permit.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, §11-60.1-174; 40 CFR Part 60, Part 63)<sup>1</sup>

### **Section C. Operational and Emissions Limitations**

#### 1. Fuel Limits

- a. The engine generators shall be fired only on the following fuels:
  - i. Diesel no. 2, biodiesel (B99 or B100), and blends of diesel no. 2 and biodiesel (B99 or B100), with a maximum sulfur content not to exceed 0.0042% by weight (42 ppm);
  - ii. Natural gas with a maximum sulfur content not to exceed 1.75 grains per 100 SCF;
  - iii. Alternate fuels in accordance with Attachment II, Special Condition No. C.8; and
  - iv. Fuel additives in accordance with Attachment II, Special Condition No. C.8.
- b. Each engine generator shall be fired with an annual average of two (2) percent or more liquid fuel (diesel no. 2, biodiesel) of total fuel on an energy equivalent basis to comply with the definition of a compression ignition engine as defined in 40 CFR Part 60, Subpart IIII.

(Auth.: HAR §11-60.1-3, §11-60.1-38, §11-60.1-90; 40 CFR §60.4207, §60.4219)<sup>1</sup>

#### 2. Startup and Low Load Events

- a. Each startup period for each engine generator shall not exceed thirty (30) minutes.
- b. Upon completion of a thirty (30) minute startup period, the engine generator shall be at thirty (30) percent or more of peak load when fired on diesel no. 2/biodiesel or forty (40) percent or more of peak load when fired on natural gas, and the air pollution control equipment shall be operational.
- c. The total combined operating hours during startups and low load events for the engine generators shall not exceed 4,380 hours in any rolling twelve-month (12-month) period.
- d. Startup shall be defined as the period starting from the time fuel use at an engine generator begins and ending thirty (30) minutes later.
- e. Excluding startup, shutdown, and maintenance and testing, a low load event shall be defined as operation of an engine generator less than thirty (30) percent of peak load when fired on diesel no. 2/biodiesel and less than forty (40) percent of peak load when fired on natural gas.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-132; 40 CFR §52.21)<sup>1</sup>

3. Air Pollution Control Equipment

The permittee shall install, continuously operate, and maintain a selective catalytic reduction (SCR) system with urea injection and oxidation catalyst on each engine generator to meet the emission limits as specified in Attachment II, Special Condition No. C.4.a. The selective catalytic reduction system shall be fully functional and in operation whenever the engine generators are in operation, excluding startup and shutdown periods.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-132; 40 CFR §52.21)<sup>1</sup>

4. Emission Limits

- a. The permittee shall not discharge or cause the discharge of nitrogen oxides (NO<sub>x</sub>) as nitrogen dioxide (NO<sub>2</sub>), filterable particulate matter (PM), particulate matter 10 micrometers and 2.5 micrometers in diameter and smaller (PM<sub>10</sub>/PM<sub>2.5</sub>), volatile organic compounds (VOC) as methane (CH<sub>4</sub>), and ammonia (NH<sub>3</sub>) into the atmosphere from each engine generator in excess of the following limits. These emission limits shall apply at all times with the exception of NO<sub>x</sub> emission limits during startup as specified in Attachment II, Special Condition No. C.4.b:

Pollutant	Maximum Emission Limit (3-hour Average)			
	Diesel No. 2/Biodiesel		Natural Gas	
	(lb/hr)	(ppmvd @ 15% O <sub>2</sub> )	(lb/hr)	(ppmvd @ 15% O <sub>2</sub> )
NO <sub>x</sub> (as NO <sub>2</sub> )	24.4	90.9	1.67	13.4
PM (filterable)	2.75	0.0448*	1.21	0.0292*
PM <sub>10</sub> /PM <sub>2.5</sub>	4.95	0.0885*	2.42	0.0582*
VOC (as CH <sub>4</sub> )	4.77	98.0	3.56	94.1
NH <sub>3</sub>	0.991	10	0.925	10

\* Units are grains per dry standard cubic feet corrected to twelve (12) percent CO<sub>2</sub>.

- b. For NO<sub>x</sub> only, during periods of startup, the permittee shall not discharge or cause the discharge of emissions into the atmosphere from each engine generator in excess of the following limits:

Pollutant	Fuel	Maximum Emission Limit	
		1-hour Average (lb/hr)	Per Startup Event (lb)
NO <sub>x</sub> (as NO <sub>2</sub> )	Diesel No. 2/Biodiesel	114.4	102.2
	Natural Gas	8.9	8.1

- c. The permittee shall not discharge or cause the discharge of carbon dioxide (CO<sub>2</sub>) into the atmosphere from the engine generators in excess of the following total combined rolling twelve-month (12-month) limit:

Pollutant	Maximum Emission Limit (lb/MWh <sub>e</sub> , gross)
CO <sub>2</sub>	1,700

- d. The permittee shall not discharge or cause the discharge of NO<sub>x</sub> and filterable PM into the atmosphere from each engine generator in excess of the following limits. These emission limits shall apply at all times, except during startup, shutdown, and malfunction.

Pollutant	Maximum Emission Limit
NO <sub>x</sub> (as NO <sub>2</sub> )	1.8 g/HP-hr (2.4 g/KW <sub>m</sub> -hr)*
PM (filterable)	0.11 g/HP-hr (0.15 g/KW <sub>m</sub> -hr)

\* Listed rate is based on 720 RPM ( $6.7n^{-0.20}$  g/HP-hr ( $9.0n^{-0.20}$  g/KW-hr) where n is the maximum engine speed.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-132; 40 CFR §52.21, §60.4204)<sup>1</sup>

5. Visible Emissions

For any six (6) minute averaging period, the engine generators shall not exhibit visible emissions of twenty (20) percent opacity or greater, except as follows: during start-up, shutdown, or equipment breakdown, the engine generators may exhibit visible emissions not greater than sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90)

6. Stack Height

The exhaust stacks for the engine generators shall be at a minimum height of ninety-five (95) feet above ground elevation.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-132; 40 CFR §52.21)<sup>1</sup>

7. Operation and Maintenance

The permittee shall operate and maintain the engine generators and air pollution control equipment according to the manufacturer's emission-related written instructions and change only those emission-related settings that are permitted by the manufacturer. Scheduled inspections and maintenance shall be conducted as recommended by the manufacturer, and as needed.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; 40 CFR §60.4211)<sup>1</sup>

## 8. Alternate Operating Scenarios

- a. The permittee may replace each engine generator with a temporary replacement unit if any repair reasonably warrants the removal of the engine generator from its site (i.e., equipment failure, engine overhaul, or any major equipment problems requiring maintenance for efficient operation) and the following provisions are adhered to:
  - i. A request for the replacement unit shall be submitted in accordance with Attachment II, Special Condition No. E.8.a;
  - ii. The temporary replacement unit must be similar in size with equal or lesser emissions and with similar stack parameters;
  - iii. The temporary replacement unit shall comply with all applicable conditions including all air pollution control equipment requirements, operating restrictions, and emission limits;
  - iv. The installation and operation of the temporary replacement unit shall not exceed twelve (12) consecutive months;
  - v. The engine generator shall be repaired and returned to service at the same location in a timely manner; and
  - vi. Removal and return information shall be submitted in accordance with Attachment II, Special Condition No. E.8.b.
- b. Upon receiving written approval from the Department, the permittee may fire the engine generators on an alternate fuel if burning the fuel does not require PSD review, or compliance with NSPS or NESHAP requirements that would not otherwise apply, or compliance with a requirement that is different from those specified in this permit. Requests for burning an alternate fuel shall be in accordance with Attachment II, Special Condition No. E.8.c.
- c. Upon receiving written approval from the Department, the permittee may use specific fuel additives to control algae, lubricity, improve combustion, inhibit corrosion, or other reasons. Request for using fuel additives shall be in accordance with Attachment II, Special Condition No. E.8.d.
- d. Records shall be maintained in accordance with Attachment II, Special Condition No. D.10.
- e. The terms and conditions under each operating scenario shall meet all applicable requirements, including special conditions of this permit.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

## **Section D. Monitoring and Recordkeeping Requirements**

### 1. Records

All records, including support information, shall be maintained for at least five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes all calibration, maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be true, accurate, and maintained

in a permanent form suitable for inspection and made available to the Department or its representative(s) upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

2. Fuel Consumption and Sulfur Content

- a. For each fuel delivery, records shall be maintained for sulfur content, gross heat content, and quantity of fuel delivered for the engine generators. For diesel no. 2 and biodiesel, records for density shall also be maintained. Fuel sulfur content, gross heat content, and density may be demonstrated by providing the supplier's fuel specification sheet for the type of fuel purchased and received.
- b. Records shall be maintained for the quantity of each type of fuel fired in each engine generator on a monthly basis.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

3. Startup and Low Load Events

The following records shall be maintained for the engine generators:

- a. The date, start time, and end time of each startup event;
- b. The date, start time, and end time of each low load event;
- c. The total combined hours of operation during startups and low load events for each month; and
- d. The total combined hours of operation during startups and low load events on a rolling twelve-month (12-month) basis.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

4. Ammonia Slip

Records shall be maintained on the amount of ammonia slip from the operation of the SCR system. Estimates of ammonia slip shall be based on the ammonia emission rates measured during the initial and subsequent annual performance tests required by Attachment II, Section F. Back-up data, calculations, and the resulting ammonia emissions shall be maintained on a monthly basis.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

5. Greenhouse Gas Emissions

The permittee shall calculate on a monthly basis the amount of CO<sub>2</sub> emitted from the engine generators in tons per year in accordance with 40 CFR Part 98 Subpart C, converted to short tons. Compliance shall be based on a rolling twelve-month (12-month) basis.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

6. Continuous Monitoring Systems (CMS)

a. NO<sub>x</sub> and PM (filterable)

The permittee shall submit to EPA Region 9 for approval a plan for complying with the requirements of 40 CFR Part 60, Subpart IIII. The plan shall include the information described in §§60.4211(d)(2)(i) through (v) to establish operating parameters to be monitoring continuously to ensure that each engine generator continues to meet the emission standards for NO<sub>x</sub> and PM (filterable) as specified in Attachment II, Special Condition No. C.4.d.

b. NO<sub>x</sub>

- i. The permittee shall at its own expense install, operate, and maintain a continuous emission monitoring system (CEMS) for the engine generators to measure NO<sub>x</sub> (as NO<sub>2</sub>) and CO<sub>2</sub> or O<sub>2</sub> concentrations in the stack gas. The system shall meet the requirements of 40 CFR §60.13 and 40 CFR Part 60, Appendix B and Appendix F. If CO<sub>2</sub> is measured with the CEMS to adjust the pollutant concentration, the CO<sub>2</sub> correction factor equations listed in 40 CFR §60.4213(d)(3) shall be used to determine compliance with the applicable emission limit. The emissions for NO<sub>x</sub> shall be recorded in parts per million by volume dry (ppmvd) at fifteen (15) percent O<sub>2</sub> and pounds per hour (lb/hr). CEMS data shall be reduced to one-hour (1-hour) averages in accordance with 40 CFR §60.13(h) for all operating hours, including startup. For startup periods, emission rates shall be recorded in one-minute (1-minute) increments.
- ii. Quarterly accuracy audits and daily calibration drift tests shall be performed in accordance with 40 CFR Part 60, Appendix F. Successive quarterly audits shall occur no closer than two (2) months. The relative accuracy test audit (RATA) must be conducted at least once every four (4) calendar quarters. The RATA reports shall be postmarked by the **60th day** after completion of the RATA.

c. Opacity

- i. The permittee shall at its own expense install, operate, and maintain a continuous opacity monitoring system (COMS) for the engine generators to measure stack percent opacity in the stack gas. The system shall meet the requirements of 40 CFR §60.13 and 40 CFR Part 60, Appendix B and Appendix F.
- ii. A quality control program shall be developed and implemented to include, at a minimum, procedures for daily instrument zero and upscale drift checks, daily status indicator checks, quarterly performance audits, annual zero alignments, and a program for corrective action for a malfunctioning COMS in accordance with 40 CFR Part 60, Appendix F.

d. Operating Load

The permittee shall operate and maintain a continuous monitoring system to measure and record the following for each engine generator:

- i. The date and time of the monitored data;
- ii. The operating load (gross) in megawatts;
- iii. The operating load (gross) at which SCR operations are initiated and terminated; and
- iv. The operating load (gross) at the end of each thirty (30) minute startup period.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.13, §60.4211)<sup>1</sup>

#### 7. Malfunctions

The permittee shall maintain records of the occurrence and duration of any malfunction in the operation of the engine generators, air pollution control equipment, or any periods during which the continuous monitoring system or monitoring device is inoperative.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR §60.7)<sup>1</sup>

#### 8. Performance Tests

Performance tests shall be conducted on the engine generators pursuant to Attachment II, Section F. Test plans, summaries, and results shall be maintained in accordance with the requirements of this section.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

#### 9. Inspection, Maintenance, and Repair Log

An inspection, maintenance, and repair log shall be maintained for the equipment covered under this permit. Inspection and replacement of parts and repairs shall be well documented. At a minimum, the following records shall be maintained:

- a. The date of the inspection/maintenance/repair work;
- b. A description of the part(s) inspected or repaired;
- c. A description of the findings and any maintenance or repair work performed; and
- d. The name and title of the personnel performing the inspection/work.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

#### 10. Alternate Operating Scenarios

- a. The permittee shall contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility, the scenario under which it is operating.
- b. The permittee shall maintain all records corresponding to the implementation of an alternate operating scenario specified in Attachment II, Special Condition No. C.8.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

## 11. Post-Construction Ambient Air Quality Monitoring

- a. The permittee shall install, operate, and maintain an ambient air quality monitoring station for CO, NO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and SO<sub>2</sub>. The monitoring period shall commence within **sixty (60) days** after the completion of construction, or if the monitoring plan is disapproved, the monitoring period shall commence within sixty (60) days after approval and shall continue for a minimum of one (1) year. The data recovery should be at least eighty (80) percent of the data possible for each air pollutant during the monitoring period. The monitoring station shall continue to operate and record data until such time that written approval is obtained from the Department authorizing the termination of its operation.
- b. The permittee shall install, operate, and maintain a meteorological monitoring station to monitor and record data. Data shall include horizontal wind speed and direction, and temperature. Each month's data recovery should be at least eighty (80) percent of the data possible for each variable measured during the monitoring period. An alternative meteorological monitoring station may be used in lieu of the required monitoring station provided that approval of the monitoring station is obtained from the Department. The monitoring period shall commence within **sixty (60) days** after the completion of construction, or if the monitoring plan is disapproved, the monitoring period shall commence within sixty (60) days after approval and shall continue for a minimum of one (1) year. The monitoring station shall continue to operate and record data until such time that written approval is obtained from the Department authorizing the termination of its operation.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-13, §11-60.1-90, §11-60.1-132; 40 CFR §52.21)<sup>1</sup>

## **Section E. Notification and Reporting Requirements**

### 1. Standard Conditions Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 14, 16, 17, and 24, respectively:

- a. Anticipated date of initial start-up, actual date of construction commencement, and actual date of start-up;
- b. Intent to shut down air pollution control equipment for necessary scheduled maintenance;
- c. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and
- d. Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)<sup>2</sup>

2. Deviations

The permittee shall report in writing within **five (5) working days** any deviations from permit requirements, including those attributable to upset conditions, the probable cause of such deviations and any corrective actions or preventive measures taken. Corrective actions may include a requirement for additional source testing, more frequent monitoring, or could trigger implementation of a corrective action plan.

(Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

3. Annual Emissions Reports

As required by Attachment IV, Annual Emissions Reporting Requirements, and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall report **annually** the total tons per year emitted of each regulated air pollutant, including hazardous air pollutants. The reporting of annual emissions is due within **sixty (60) days** following the end of each calendar year. The following enclosed form, or equivalent form, shall be used for reporting:

**Annual Emissions Report Form: Engine Generators.**

Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

4. Monitoring Reports

The permittee shall submit **semi-annually** the following reports to the Department. The reports shall be submitted within **sixty (60) days** after the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31), and shall be signed and dated by a responsible official. The following enclosed form, or equivalent form, shall be used for reporting:

**Monitoring Report Form: Engine Generators.**

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

5. Excess Emissions

The permittee shall submit **semi-annually** to the Department and U.S. EPA, Region 9, an excess emissions and monitoring systems performance report and/or summary report for the engine generators in accordance with 40 CFR §§60.7(c) and (d).

- a. If the total duration of excess emissions for the reporting period is less than one (1) percent of the total operating time for the reporting period and CMS downtime for the

reporting period is less than five (5) percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR §60.7(c) need not be submitted unless requested by the Department.

- b. If the total duration of excess emissions for the reporting period is one (1) percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is five (5) percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR §60.7(c) shall both be submitted. The excess emissions report shall include the following information:
  - i. The magnitude of excess emissions computed in accordance with 40 CFR §60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.
  - ii. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the engine generators. The nature and cause of any malfunction (if known) and the corrective action taken or preventive measures adopted.
  - iii. The date and time identifying each period during which the CMS was inoperative except for zero and span checks, and the nature of the system repairs or adjustments.
  - iv. When no excess emissions have occurred or the CMS has not been inoperative, repaired, or adjusted, such information shall be stated in the report.
- c. Excess emissions of NO<sub>x</sub> (as NO<sub>2</sub>) shall be defined as any period in which any engine generator exceeds the NO<sub>x</sub> emission limits specified in Attachment II, Special Condition No. C.4.
- d. Excess emissions of PM (filterable) shall be defined as any period in which any engine generator exceeds the PM (filterable) emission limits specified in Attachment II, Special Condition No. C.4.d.
- e. Excess emissions of opacity shall be defined as any period in which any engine generator exceeds the opacity limits specified in Attachment II, Special Condition No. C.5.
- e. Excess emissions indicated by the continuous monitoring systems shall be considered violations of the applicable emission limit for the purposes of this permit.
- f. All reports shall be postmarked by the **30th day** following the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31). The enclosed **Excess Emission and Monitoring System Performance Summary Report** form or an equivalent form shall be submitted.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.7)<sup>1</sup>

6. Performance Tests

- a. At least **thirty (30) days** prior to conducting a source performance test pursuant to Attachment II, Section F, the permittee shall submit a performance test plan in accordance with Attachment II, Special Condition No. F.4.
- b. Within **sixty (60) days** after completion of a source performance test, the permittee shall submit a test report in accordance with Attachment II, Special Condition No. F.6.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8)<sup>1</sup>

7. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

- a. The identification of each term or condition of the permit that is the basis of the certification;
- b. The compliance status;
- c. Whether compliance was continuous or intermittent;
- d. The methods used for determining the compliance status of the source currently and over the reporting period;
- e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification, including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act;
- f. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedances as defined in 40 CFR Part 64 occurred; and
- g. Any additional information as required by the Department, including information to determine compliance.

The compliance certification shall be submitted within **sixty (60) days** after the end of each calendar year, and shall be signed and dated by a responsible official.

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

8. Alternate Operating Scenarios

- a. The permittee shall submit a written request and receive prior written approval from the Department before exchanging the engine generator with a temporary replacement unit.

The written request shall identify, at a minimum, the reasons for the replacement of the engine generator from the site of operation and the estimated time period/dates for the temporary replacement, type and size of the temporary unit, emissions data, and stack parameters. The Department may require an ambient air quality assessment of the temporary unit, and/or provide a conditional approval to impose additional monitoring, testing, recordkeeping, and reporting requirements to ensure the temporary unit is in compliance with the applicable requirements of the permitted unit being temporarily replaced.

- b. Prior to the removal and return of the engine generator, the permittee shall submit to the Department written documentation on the removal and return dates and on the make, size, model, and serial numbers for both the temporary replacement unit and the installed unit.
- c. The permittee shall submit a written request and receive prior written approval from the Department before firing the engine generators on an alternate fuel. The written request shall include, but not be limited to, the following:
  - i. The type of fuel proposed;
  - ii. Reason for using the alternate fuel;
  - iii. Emission rates for burning the alternate fuel;
  - iv. Documentation that burning the alternate fuel will not constitute a major modification subject to PSD review (e.g., an actual-to-potential applicability test; an actual-to-projected-actual applicability test; or documentation establishing that burning the alternate fuel would not involve a physical change or change in method of operation);
  - v. Documentation that burning the alternate fuel will not constitute a modification that would require compliance with NSPS or NESHAP requirements that would not otherwise apply; and
  - vi. Documentation that burning the alternate fuel will not require compliance with an applicable requirement that is different from those specified in this permit.

The Department may require an ambient air quality assessment for firing the alternate fuel and/or provide a conditional approval to impose additional monitoring, testing, recordkeeping, and reporting requirements.

- d. For written requests to use fuel additives, the permittee shall, at a minimum, provide the Department the specifications of the fuel additive(s), maximum expected emission rates of any criteria or non-criteria pollutant, certification that corresponding emission rates will not exceed permitted rates, and any other information requested by the Department. The Department may provide a conditional approval to impose additional monitoring, testing, recordkeeping, and reporting requirements to ensure the use of the fuel additive is in compliance with the applicable requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

## 9. Post-Construction Ambient Air Quality and Meteorological Monitoring

- a. At least **sixty (60) days** prior to the completion of construction of Schofield Generating Station, the permittee shall submit to the Department for approval an ambient air

quality and meteorological monitoring plan for the post-construction monitoring requirements specified in Attachment II, Special Condition No. D.11. The plan shall include the proposed siting location.

- b. The permittee shall submit on a monthly basis, a printed summary of the ambient air quality and meteorological monitoring data collected in each calendar month. The summary shall be submitted within **sixty (60) days** after the end of each calendar month.
- c. As required by EPA guidance, the permittee shall submit audit reports. Quarterly and semi-annual audit periods shall be based on a calendar year and submitted within **sixty (60) days** after the following events:
  - i. Completion of the post-installation equipment audit;
  - ii. Completion of the independent performance and system audits;
  - iii. Completion of the quarterly audits required for the ambient air quality data collection system; and
  - iv. Completion of the semi-annual audits required for the meteorological data collection system.
- d. Within **ninety (90) days** after the end of each calendar year and following the completion of the collection of monitoring data, the permittee shall submit to the Department annual/final reports in text (i.e., summary), tabular, and graphic forms, including data in digitized format. The digitized form of the measured air quality and meteorological data shall be in: (1) EPA Air Quality System (AQS) format and (2) ASCII format accessible by an IBM compatible PC. Within **ninety (90) days** after completion of data collection, the permittee shall also submit the final report for the system and performance audit required prior to monitoring termination.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-13, §11-60.1-90, §11-60.1-132; 40 CFR §52.21)<sup>1</sup>

## **Section F. Testing Requirements**

### 1. Performance Testing

- a. For each engine generator, within **sixty (60) days** after achieving the maximum production rate at which the engine generator will be operated, but not later than **one hundred eighty (180) days** after initial start-up, and **annually** thereafter, the permittee shall conduct or cause to be conducted performance tests on the engine generator to demonstrate compliance with the emission limits specified in Attachment II, Special Condition Nos. C.4.a and C.4.d, with the exception of the NO<sub>x</sub> emission limits as specified in Attachment II, Special Condition No. C.4.a. Performance tests shall be conducted on each engine generator for NO<sub>x</sub> (as NO<sub>2</sub>), PM (filterable), PM<sub>10</sub>/PM<sub>2.5</sub>, VOC, and NH<sub>3</sub>.
- b. The performance tests shall be conducted using the primary fuel at the time of the tests or other fuels as specified by the Department. The performance tests to demonstrate compliance with the emission limits specified in Attachment II, Special Condition No. C.4.a, shall be conducted at the maximum expected operating capacity of the engine generators or highest achievable load. The performance tests to demonstrate compliance with the emission limits specified in Attachment II, Special Condition No. C.4.d, shall be conducted

within ten (10) percent of one hundred (100) percent peak load or the highest achievable load. The performance tests shall consist of three (3) separate test runs and each test run must last at least one (1) hour. For the purpose of determining compliance with an applicable standard, the arithmetic mean of results of the three (3) runs shall apply. The performance tests shall not be conducted during periods of startup, shutdown, or malfunction.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §60.4213)<sup>1</sup>

## 2. Performance Test Methods

The performance tests shall be conducted and the results reported in accordance with the test methods and procedures set forth in 40 CFR §60.8 and 40 CFR Part 60, Appendix A. The following test methods, U.S. EPA approved equivalent methods, or alternate methods with prior written approval from the Department shall be used:

- a. For the emissions of NO<sub>x</sub> and PM (filterable), methods and requirements in 40 CFR §60.8 and specific conditions specified in Table 7 of 40 CFR Part 60, Subpart IIII. Mass emission rates of NO<sub>x</sub> shall be reported on an NO<sub>2</sub> basis.
- b. For the emissions of PM<sub>10</sub>/PM<sub>2.5</sub>, EPA Methods 1–4 and 201A for the filterable portion and EPA Method 202 for the condensable portion.
- c. For the emissions of VOC, EPA Methods 1–4 and 25A or Method 18.
- d. For the emissions of NH<sub>3</sub>, EPA Conditional Test Method 027 (CTM-027).

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §60.4213)<sup>1</sup>

## 3. Performance Test Expense and Monitoring

The performance tests shall be made at the expense of the permittee and the Department may monitor the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

## 4. Performance Test Plan

At least **thirty (30) days** prior to conducting a performance test, the permittee shall submit a written performance test plan to the Department and U.S. EPA, Region 9, that includes date(s) of the test, test duration, test locations, test methods, source operation, and other parameters that may affect the test results. Such a plan shall conform to U.S. EPA guidelines including quality assurance procedures. A test plan or quality assurance plan that does not have the approval of the Department may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8)<sup>1</sup>

5. Deviations

Any deviations from these conditions, test methods, or procedures may be cause for rejection of the test results unless such deviations are approved by the Department before the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

6. Performance Test Report

Within **sixty (60) days** after completion of a performance test, the permittee shall submit to the Department and U.S. EPA, Region 9, the test report which shall include the operating conditions of the equipment at the time of the test, summarized test results, comparative results with the permit emission limits, other pertinent support calculations, and field/laboratory data.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8)<sup>1</sup>

7. Performance Test Waiver

Except for annual performance tests for NO<sub>x</sub> and filterable PM to demonstrate compliance with the emission limits specified in Attachment II, Special Condition No. C.4.d, upon written request and justification, the Department may waive the requirement for, or a portion of, a specific performance test. The waiver request is to be submitted prior to the required test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior performance test indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous source test.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

**Section G. Agency Notification**

Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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<sup>1</sup>The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

<sup>2</sup>The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT II – INSIG  
SPECIAL CONDITIONS – INSIGNIFICANT ACTIVITIES  
COVERED SOURCE PERMIT NO. 0793-01-C**

**Issuance Date:**

**Expiration Date:**

In addition to the standard conditions of the covered source permit, the following special conditions shall apply to the permitted facility:

**Section A. Equipment Description**

This attachment encompasses insignificant activities listed in HAR, §11-60.1-82(f) and (g) for which provisions of this permit and HAR, Subchapter 2, General Prohibitions apply.

(Auth.: HAR §11-60.1-3)

**Section B. Operational Limitations**

1. The permittee shall take measures to operate applicable insignificant activities in accordance with the provisions of HAR, Subchapter 2 for visible emissions, fugitive dust, incineration, process industries, sulfur oxides from fuel combustion, storage of volatile organic compounds, volatile organic compound water separation, pump and compressor requirements, and waste gas disposal.

(Auth.: HAR §11-60.1-3, §11-60.1-82, §11-60.1-90)

2. The Department may at any time require the permittee to further abate emissions if an inspection indicates poor or insufficient controls.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-82, §11-60.1-90)

**Section C. Monitoring and Recordkeeping Requirements**

1. The Department reserves the right to require monitoring, recordkeeping, or testing of any insignificant activity to determine compliance with the applicable requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

2. All records shall be maintained for at least five (5) years from the date of any required monitoring, recordkeeping, testing, or reporting. These records shall be true, accurate and maintained in a permanent form suitable for inspection and made available to the Department or its authorized representative upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

#### **Section D. Notification and Reporting**

##### Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

1. The identification of each term or condition of the permit that is the basis of the certification;
2. The compliance status;
3. Whether compliance was continuous or intermittent;
4. The methods used for determining the compliance status of the source currently and over the reporting period;
5. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification, including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act;
6. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedances as defined in 40 CFR 64 occurred; and
7. Any additional information as required by the Department, including information to determine compliance.

The compliance certification shall be submitted within **sixty (60) days** after the end of each calendar year, and shall be signed and dated by a responsible official.

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department determines that reasonable justification exists for the extension.

In lieu of addressing each emission unit as specified in the **Compliance Certification Form**, the permittee may address insignificant activities as a single unit provided compliance is met with all applicable requirements. If compliance is not totally attained, the permittee shall identify the specific insignificant activity and provide the details associated with the noncompliance.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

#### **Section E. Agency Notification**

Any document (including reports) required to be submitted by this Covered Source Permit shall be done in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

**ATTACHMENT III: ANNUAL FEE REQUIREMENTS  
COVERED SOURCE PERMIT NO. 0793-01-C**

**Issuance Date:**

**Expiration Date:**

The following requirements for the submittal of annual fees are established pursuant to Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control. Should HAR, Chapter 60.1 be revised such that the following requirements are in conflict with the provisions of HAR, Chapter 60.1, the permittee shall comply with the provisions of HAR, Chapter 60.1:

1. Annual fees shall be paid in full:
  - a. Within **one-hundred twenty (120) days** after the end of each calendar year; and
  - b. Within **thirty (30) days** after the permanent discontinuance of the covered source.
2. The annual fees shall be determined and submitted in accordance with Hawaii Administrative Rules, Chapter 11-60.1, Subchapter 6.
3. The annual emissions data for which the annual fees are based shall accompany the submittal of any annual fees and be submitted on forms furnished by the Department.
4. The annual fees and the emission data shall be mailed to:

**Clean Air Branch  
Environmental Management Division  
Hawaii Department of Health  
919 Ala Moana Boulevard, Room 203  
Honolulu, HI 96814**

**ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS  
COVERED SOURCE PERMIT NO. 0793-01-C**

**Issuance Date:**

**Expiration Date:**

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department the nature and amounts of emissions.

1. Complete the attached form(s):

Annual Emissions Report Form: Engine Generators

2. The reporting period shall be from January 1 to December 31 of each year. All reports shall be submitted to the Department within **sixty (60) days** after the end of each calendar year and shall be mailed to the following address:

**Clean Air Branch  
Environmental Management Division  
Hawaii Department of Health  
919 Ala Moana Boulevard, Room 203  
Honolulu, HI 96814**

3. The permittee shall retain the information submitted, including all emission calculations. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department upon request.
4. Any information submitted to the Department without a request for confidentiality shall be considered public record.
5. In accordance with HAR, Section 11-60.1-14, the permittee may request confidential treatment of specific information, including information concerning secret processes or methods of manufacture, by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.

**COMPLIANCE CERTIFICATION FORM  
COVERED SOURCE PERMIT NO. 0793-01-C  
(CONTINUED, PAGE 1 OF \_\_\_)**

**Issuance Date:** \_\_\_\_\_

**Expiration Date:** \_\_\_\_\_

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following certification at least annually, or more frequently as requested by the Department of Health.

(Make Copies of the Compliance Certification Form for Future Use)

For Period: \_\_\_\_\_ Date: \_\_\_\_\_

Company/Facility Name: \_\_\_\_\_

Responsible Official (Print): \_\_\_\_\_

Title: \_\_\_\_\_

Responsible Official (Signature): \_\_\_\_\_

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

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**COMPLIANCE CERTIFICATION FORM  
COVERED SOURCE PERMIT NO. 0793-01-C  
(CONTINUED, PAGE 2 OF \_\_\_)**

**Issuance Date:**

**Expiration Date:**

The purpose of this form is to evaluate whether or not the facility was in compliance with the permit terms and conditions during the covered period. If there were any deviations to the permit terms and conditions during the covered period, the deviation(s) shall be certified as *intermittent compliance* for the particular permit term(s) or condition(s). Deviations include failure to monitor, record, report, or collect the minimum data required by the permit to show compliance. In the absence of any deviation, the particular permit term(s) or condition(s) may be certified as *continuous compliance*.

**Instructions:**

Please certify Sections A, B, and C below for continuous or intermittent compliance. Sections A and B are to be certified as a group of permit conditions. Section C shall be certified individually for each operational and emissions limit condition as listed in the Special Conditions section of the permit (list all applicable equipment for each condition). Any deviations shall also be listed individually and described in Section D. The facility may substitute its own generated form in verbatim for Sections C and D.

**A. Attachment I, Standard Conditions**

<u>Permit term/condition</u> All standard conditions	<u>Equipment</u> All Equipment listed in the permit	<u>Compliance</u> <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
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**B. Special Conditions - Monitoring, Recordkeeping, Reporting, Testing, and INSIG**

<u>Permit term/condition</u> All monitoring conditions	<u>Equipment</u> All Equipment listed in the permit	<u>Compliance</u> <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
<u>Permit term/condition</u> All recordkeeping conditions	<u>Equipment</u> All Equipment listed in the permit	<u>Compliance</u> <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
<u>Permit term/condition</u> All reporting conditions	<u>Equipment</u> All Equipment listed in the permit	<u>Compliance</u> <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
<u>Permit term/condition</u> All testing conditions	<u>Equipment</u> All Equipment listed in the permit	<u>Compliance</u> <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
<u>Permit term/condition</u> All INSIG conditions	<u>Equipment</u> All Equipment listed in the permit	<u>Compliance</u> <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent

<b>COMPLIANCE CERTIFICATION FORM</b> <b>COVERED SOURCE PERMIT NO. 0793-01-C</b> <b>(CONTINUED, PAGE ___ OF ___)</b>	
<b>Issuance Date:</b>	<b>Expiration Date:</b>

**C. Special Conditions - Operational and Emissions Limitations**

Each permit term/condition shall be identified in chronological order using attachment and section numbers (e.g., Attachment II, B.1, Attachment IIA, Special Condition No. B.1.f, etc.). Each piece of equipment shall be identified using the description stated in Section A of the Special Conditions (e.g., unit no., model no., serial no., etc.). Check all methods (as required by permit) used to determine the compliance status of the respective permit term/condition.

<u>Permit term/condition</u>	<u>Equipment</u>	<u>Method</u>	<u>Compliance</u>
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
		<input type="checkbox"/> monitoring <input type="checkbox"/> recordkeeping <input type="checkbox"/> reporting <input type="checkbox"/> testing <input type="checkbox"/> none of the above	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent

**(Make Additional Copies if Needed)**

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<b>COMPLIANCE CERTIFICATION FORM</b> <b>COVERED SOURCE PERMIT NO. 0793-01-C</b> <b>(CONTINUED, PAGE ___ OF ___)</b>	
<b>Issuance Date:</b>	<b>Expiration Date:</b>

**D. Deviations**

<u>Permit Term/ Condition</u>	<u>Equipment / Brief Summary of Deviation</u>	<u>Deviation Period time (am/pm) &amp; date (mo/day/yr)</u>	<u>Date of Written Deviation Report to DOH (mo/day/yr)</u>
		Beginning:  Ending:	

\*Identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR 64 occurred.

**(Make Additional Copies if Needed)**

**ANNUAL EMISSIONS REPORT FORM  
ENGINE GENERATORS  
COVERED SOURCE PERMIT NO. 0793-01-C  
(PAGE 1 OF 2)**

**Issuance Date:** \_\_\_\_\_

**Expiration Date:** \_\_\_\_\_

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions:

(Make Copies for Future Use)

For Reporting Period: \_\_\_\_\_ Date: \_\_\_\_\_

Company/Facility Name: \_\_\_\_\_

**I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.**

Responsible Official (Print): \_\_\_\_\_

Title: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Responsible Official (Signature): \_\_\_\_\_

1. Report the total fuel consumption and maximum sulfur content of each type of fuel fired during the calendar year:

<b>S1</b>			
Maximum Design Heat Input Rate	Fuel Type	Fuel Use	Maximum Sulfur Content

<b>S2</b>			
Maximum Design Heat Input Rate	Fuel Type	Fuel Use	Maximum Sulfur Content

<b>S3</b>			
Maximum Design Heat Input Rate	Fuel Type	Fuel Use	Maximum Sulfur Content

<b>S4</b>			
Maximum Design Heat Input Rate	Fuel Type	Fuel Use	Maximum Sulfur Content

**ANNUAL EMISSIONS REPORT FORM  
ENGINE GENERATORS  
COVERED SOURCE PERMIT NO. 0793-01-C  
(CONTINUED, PAGE 2 OF 2)**

**Issuance Date:**

**Expiration Date:**

<b>S5</b>			
Maximum Design Heat Input Rate	Fuel Type	Fuel Use	Maximum Sulfur Content

<b>S6</b>			
Maximum Design Heat Input Rate	Fuel Type	Fuel Use	Maximum Sulfur Content

**MONITORING REPORT FORM  
ENGINE GENERATORS  
COVERED SOURCE PERMIT NO. 0793-01-C  
(PAGE 1 OF 4)**

**Issuance Date:** \_\_\_\_\_

**Expiration Date:** \_\_\_\_\_

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Future Use)

For Reporting Period: \_\_\_\_\_ Date: \_\_\_\_\_

Company/Facility Name: \_\_\_\_\_

**I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.**

Responsible Official (Print): \_\_\_\_\_

Title: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Responsible Official (Signature): \_\_\_\_\_

1. Report the maximum sulfur content of each type of fuel fired in the engine generators:

Fuel Type	Maximum Sulfur Content

2. Report the total combined operating hours during startups and low load events for the engine generators:

Month	Total Combined Operating Hours During Startups and Low Load Events Monthly Basis	Total Combined Operating Hours During Startups and Low Load Events Rolling 12-Month Basis
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

**MONITORING REPORT FORM  
ENGINE GENERATORS  
COVERED SOURCE PERMIT NO. 0793-01-C  
(CONTINUED, PAGE 2 OF 4)**

**Issuance Date:**

**Expiration Date:**

3. Report the total fuel consumption of liquid fuels (diesel no. 2, biodiesel) and gaseous fuels (natural gas) on an energy equivalent basis for the engine generators for the calendar year:

<b>S1</b>			
Period	Liquid Fuels (MMBtu)	Gaseous Fuels (MMBtu)	Percentage of Liquid Fuel to Total Fuel
Calendar Year			

<b>S2</b>			
Period	Liquid Fuels (MMBtu)	Gaseous Fuels (MMBtu)	Percentage of Liquid Fuel to Total Fuel
Calendar Year			

<b>S3</b>			
Period	Liquid Fuels (MMBtu)	Gaseous Fuels (MMBtu)	Percentage of Liquid Fuel to Total Fuel
Calendar Year			

<b>S4</b>			
Period	Liquid Fuels (MMBtu)	Gaseous Fuels (MMBtu)	Percentage of Liquid Fuel to Total Fuel
Calendar Year			

<b>S5</b>			
Period	Liquid Fuels (MMBtu)	Gaseous Fuels (MMBtu)	Percentage of Liquid Fuel to Total Fuel
Calendar Year			

<b>S6</b>			
Period	Liquid Fuels (MMBtu)	Gaseous Fuels (MMBtu)	Percentage of Liquid Fuel to Total Fuel
Calendar Year			



**MONITORING REPORT FORM  
ENGINE GENERATORS  
COVERED SOURCE PERMIT NO. 0793-01-C  
(CONTINUED, PAGE 4 OF 4)**

**Issuance Date:**

**Expiration Date:**

6. Report the total combined emissions of carbon dioxide (CO<sub>2</sub>) from the engine generators:

Month	Total Combined CO <sub>2</sub> Emissions Monthly Basis (lb/MWh <sub>e</sub> , gross)	Total Combined CO <sub>2</sub> Emissions Rolling 12-Month Basis (lb/MWh <sub>e</sub> , gross)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

**EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE  
SUMMARY REPORT  
COVERED SOURCE PERMIT NO. 0793-01-C  
(PAGE 1 OF 2)**

**Issuance Date:** \_\_\_\_\_

**Expiration Date:** \_\_\_\_\_

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Future Use)

Company Name: \_\_\_\_\_

Facility Name: \_\_\_\_\_

Equipment Location: \_\_\_\_\_

Equipment Description: \_\_\_\_\_

Serial/ID Number: \_\_\_\_\_

**Pollutant Monitored:** \_\_\_\_\_

From: Date: \_\_\_\_\_ Time: \_\_\_\_\_

To: Date: \_\_\_\_\_ Time: \_\_\_\_\_

Emission Limitation: \_\_\_\_\_

Date of Last CMS Certification/Audit: \_\_\_\_\_

**Total Source Operating Time<sup>1</sup>:** \_\_\_\_\_

EMISSION DATA SUMMARY<sup>1</sup>

1. Duration of Excess Emissions in Reporting Period Due to:
  - a. Startup/Shutdown..... \_\_\_\_\_
  - b. Cleaning/Soot Blowdown..... \_\_\_\_\_
  - c. Control Equipment Failure..... \_\_\_\_\_
  - d. Process Problems..... \_\_\_\_\_
  - e. Other Known Causes..... \_\_\_\_\_
  - f. Unknown Causes..... \_\_\_\_\_
  - g. Fuel Problems..... \_\_\_\_\_

Number of incidents of excess emissions..... \_\_\_\_\_
2. Total Duration of Excess Emissions..... \_\_\_\_\_
3. Total Duration of Excess Emissions..... \_\_\_\_\_  
(% of Total Source Operating Time)

**EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE  
SUMMARY REPORT  
COVERED SOURCE PERMIT NO. 0793-01-C  
(CONTINUED, PAGE 2 OF 2)**

**Issuance Date:**

**Expiration Date:**

CMS PERFORMANCE SUMMARY<sup>1</sup>

- 1. CMS Downtime in Reporting Period Due to:
  - a. Monitor Equipment Malfunctions..... \_\_\_\_\_
  - b. Non-Monitor Equipment Malfunctions..... \_\_\_\_\_
  - c. Quality Assurance Calibration..... \_\_\_\_\_
  - d. Other Known Causes..... \_\_\_\_\_
  - e. Unknown Causes..... \_\_\_\_\_
  - Number of incidents of monitor downtime..... \_\_\_\_\_
- 2. Total CMS Downtime..... \_\_\_\_\_
- 3. Total CMS Downtime..... \_\_\_\_\_  
(% of Total Source Operating Time)

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

**CERTIFICATION by Responsible Official**

**I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.**

Responsible Official (Print): \_\_\_\_\_

Title: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Responsible Official (Signature): \_\_\_\_\_