

**PROPOSED**

June 9, 2006

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

06-XXXE CAB  
File No. 0239-01

Mr. Thomas C. Simmons  
Vice President  
Power Supply  
Hawaiian Electric Company, Inc.  
P. O. Box 2750  
Honolulu, Hawaii 96840-0001

Dear Mr. Simmons:

**Subject: Covered Source Permit (CSP) No. 0239-01-C**  
**Application for Renewal No. 0239-02**  
**Hawaiian Electric Company, Inc. (HECO)**  
**Waiau Generating Station**  
**Six (6) Boilers and Two (2) Combustion Turbines**  
**Located at: Pearl City, Oahu**  
**UTM: Zone 4, 607,337m E; 2,365,837m N (Old Hawaiian)**  
**Date of Expiration: [Five-Year Period from Issuance Date]**

The subject Covered Source Permit is issued in accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1. The issuance of this permit is based on the application dated February 28, 2005, and its revisions dated March 23, August 23, October 19, 2005, and February 7, 2006. A check for \$3,000.00 has been processed for a renewal of a major covered source permit application. CSP No. 0239-01-C dated April 2, 2001, will be superseded in its entirety upon issuance of this renewal.

The Covered Source Permit is issued subject to the conditions/requirements set forth in the following Attachments:

- Attachment I: Standard Conditions
- Attachment IIA: Special Conditions for the Boilers
- Attachment IIB: Special Conditions for the Combustion Turbines
- Attachment II – INSIG: Special Conditions - Insignificant Activities
- Attachment III: Annual Fee Requirements
- Attachment IV: Annual Emissions Reporting Requirements

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Mr. Thomas C. Simmons  
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The forms for submission are as follows:

Monitoring Report Forms: Fuel Certification; Spec Used Oil; and Visible Emissions  
Annual Emissions Report Forms: Boilers  
Annual Emissions/Monitoring Report Form: Combustion Turbines  
Compliance Certification Form

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 Hawaii Department of Health, 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.

Sincerely,

THOMAS E. ARIZUMI, P.E., CHIEF  
Environmental Management Division

CBS:lk

Enclosures

c: CAB Monitoring Section

**ATTACHMENT I: STANDARD CONDITIONS  
COVERED SOURCE PERMIT NO. 0239-01-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 of Health, 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 of Health.  
  
(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 of Health 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 of Health, 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 of Health 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 of Health 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 of Health copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health may require the permittee to furnish such records not only to the Department of Health 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 of Health 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 Health 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 of Health 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 of Health.

(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 of Health, 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 the facility covered by this permit**, the discontinuance shall be reported in writing to the Department of Health 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 of Health and the U.S. EPA Region 9 no less than twelve months and no more than eighteen months prior to the permit expiration date. The director may allow a permit renewal application to be submitted no less than six 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 of Health 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  
State of Hawaii Department of Health  
P.O. Box 3378  
Honolulu, HI 96801-3378**

**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 IIA: SPECIAL CONDITIONS FOR THE BOILERS  
COVERED SOURCE PERMIT NO. 0239-01-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:

HECO

<u>Unit No.</u>	<u>Description (power outputs are nominal and the units are situated from west to east)</u>
3	49 MW Babcock and Wilcox Boiler (576 MMBtu/hr, serial no. RB-43, built in 1947)
4	49 MW Babcock and Wilcox Boiler (585 MMBtu/hr, serial no. RB-92, built in 1950)
5	57 MW Babcock and Wilcox Boiler (633 MMBtu/hr, serial no. RB-324, built in 1958)
6	58 MW Babcock and Wilcox Boiler (637 MMBtu/hr, serial no. RB-328, built in 1961)
8	92 MW Combustion Engineering Boiler (923 MMBtu/hr, serial no. 20694, built in 1967)
7	92 MW Combustion Engineering Boiler (922 MMBtu/hr, serial no. 20177, built in 1965)

Note: The boilers may be fired on fuel oil nos. 2 and 6, and specification (spec) used oil. For ignition, boiler unit nos. 3 to 6 use propane while unit nos. 7 and 8 use fuel oil no. 2.

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or name plate on each boiler, which identifies the model no., serial no., and manufacturer. The identification tag or name plate shall be attached to the equipment at a conspicuous location.

(Auth.: HAR §11-60.1-5)

**Section B. Operational and Emission Limitations**

1. Fuel Usage and Specifications

The boilers shall be fired only on fuel oil nos. 6 or 2 with a maximum sulfur content not to exceed 0.5 percent by weight, alternative fuels allowed in Attachment IIA, Special Condition Nos. B.2 and B.4.a.1), or any combination thereof. Propane and fuel oil no. 2 may be used for boiler ignition.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90)

2. Specification (Spec) Used Oil

- a. The permit conditions prescribed herein may be revised at any time by the Department of Health to reflect state or federal promulgated rules on used oil.
- b. This permit shall not release the permittee from compliance with all applicable state and federal rules and regulations on the handling, transporting, storing and burning of used oil.
- c. Used oil shall be obtained only from collected used oil, such as waste oil, lubricating oil and waste diesel oil, crank-case oil, laboratory samples of transformer oil, kerosene, and solvents obtained from the equipment operating at the Waiiau Generating Station. The used oil may be burned by the boilers in accordance with the procedures specified in this permit.
- d. Used oil may also be obtained from other sources, provided a written notification identifying the new source is submitted to the Department of Health, and approved, prior to the acceptance of the used oil. An analysis must accompany the delivery of each batch of used oil.
- e. The total amount of spec used oil fired in the boilers shall not exceed 20,000 gallons in any rolling twelve (12) month period.
- f. Used oil that is collected at the facility and is intended to be burned shall be tested to determine its constituents/properties when sufficient quantities are obtained. The samples shall be taken in such a manner that the composite sample obtained is representative of all the oil collected from the facility.
- g. Each composite sample shall be submitted in a timely manner to a qualified laboratory and an analysis report shall be obtained for the constituents/properties for which limits are given in Attachment IIA, Special Condition No. B.2.i.

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**Attachment IIA**  
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- h. This permit does not authorize the permittee to burn hazardous waste. The permittee shall not burn the used oil if declared or determined to be a hazardous waste.
- i. The following constituents/properties of the specification used oil shall not exceed the specified limits listed below:

<u>Constituent/Property</u>	<u>Allowable Limit</u>
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Sulfur	0.5% maximum by weight
Flash Point	100°F minimum
Polychlorinated Biphenyls (PCB)	<2 ppm maximum

- j. Should the results of any used oil analyses deem the sample to be hazardous, the contaminated containers shall be identified and isolated from the non-contaminated containers and properly disposed. Fuel blending to meet the constituents/properties limits given in Attachment IIA, Special Condition No. B.2.i is allowable only for spec used oil that was not deemed hazardous.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90; 40 CFR §279.11)

3. Opacity

The boilers shall not exhibit visible emissions of forty (40) percent or greater for any six (6) minute averaging period, except as follows: during start-up, shutdown, or equipment breakdown, the boilers may exhibit visible emissions greater than forty (40) but not exceeding sixty (60) percent opacity for a period aggregating not more than six minutes in any sixty (60) minutes.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90, SIP §11-60-24)<sup>2</sup>

4. Alternate Operating Scenario

- a. Terms and conditions for reasonably anticipated alternate operating scenarios identified by the permittee in the covered source permit application and approved by the Department of Health are as follows:
  - 1) The first alternate operating scenario is the ability to switch to alternate fuels. The permittee shall not be allowed to switch fuels unless all of the following information is provided, in writing, and approved by the Department of Health:

- a) Specific type of fuel provided;
  - b) Consumption rate of the fuel;
  - c) Fuel blending rate;
  - d) Calculations showing no increase in emissions;
  - e) Ambient air quality analyses verifying that State Ambient Air Quality Standards (SAAQS) will be met;
  - f) Fuel storage; and
  - g) Plan to monitor and record the fuel analyses and consumption.
- 2) The permittee may replace permitted boiler(s) with a temporary replacement boiler(s) if any repair work reasonably warrants the removal (i.e., equipment failure, engine overhaul, or any major equipment problems requiring maintenance for efficient operation) of a permitted equipment from its site and the following provisions are adhered to:
- a) Written notification identifying the reasons for the replacement of the boiler(s) from the site of operation is submitted to and approved by the Department prior to the exchange;
  - b) The unit is replaced with a temporary replacement boiler(s) with equal or less emissions and similar stack parameters;
  - c) The temporary replacement boiler(s) complies with all applicable conditions including all air pollution control equipment requirements, operating restrictions and emission limits;
  - d) The boiler(s) shall be repaired and returned to service at the same location in a timely manner; and
  - e) Prior to the removal and return of any boiler(s), 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 boiler(s) and installed boiler(s).
- b. 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 and, if required by any applicable requirement or the Department of Health, submit written notification to the Department of Health.
- c. The terms and conditions under each alternative operating scenario shall meet all applicable requirements including all conditions of this permit.

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

**Section C. Monitoring and Recordkeeping Requirements**

1. Total Fuel Usage and Specification

The permittee shall maintain records of fuel deliveries identifying the delivery dates and the type and amount of fuel received. Include with the records, copies of the supplier's certificate of analysis showing the sulfur content of the fuel delivered.

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

2. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on the boilers. At a minimum, these records shall include: the date of the inspection; name and title of the inspector; a short description of the action and/or any such repair work; and a description of the part(s) inspected or repaired.

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

3. Visible Emissions (V.E.)

- a. The permittee shall conduct **monthly** (*calendar month*) V.E. observations for each boiler subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. For the monthly observation for each boiler, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*.
- b. The permittee shall conduct **annually** (*calendar year*) V.E. observations for each boiler subject to opacity limits by a certified reader in accordance with Method 9. For the annual observation for each boiler, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*.
- c. Upon written request and justification by the permittee, the Department of Health may waive the requirement for a specific annual V.E. observation. The waiver request is to be submitted prior to the required observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous observation.

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Please note that the waiving of the annual (Method 9) V.E. observation does not absolve the permittee from any monthly (Method 9 or Ringelmann Chart) V.E. requirements. Monthly V.E. observations should still be performed in accordance with Special Condition No. C.3.a.

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

4. Records

All records, including support information, shall be maintained for **at least five (5) years** following the date of the monitoring sample, measurement, test, report, or application. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or their representative upon request.

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

**Section D. Notification and Reporting Requirements**

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

- a. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and*
- b. *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; 40 CFR §60.48c(a); SIP §11-60-10, §11-60-16)<sup>1, 2</sup>

2. Deviations

The permittee shall report (in writing) **within five (5) working days** any deviations from the 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 stack testing, monitoring, or the implementation of a corrective action plan.

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

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3. Monitoring

The permittee shall submit **semi-annually**, the attached *Monitoring Report Forms: Fuel Certification; Spec Used Oil; and Visible Emissions* to the Department of Health. These reports shall be submitted **within sixty (60) days after the end of each semi-annual calendar period** (January 1 to June 30 and July 1 to December 31), and shall be signed and dated by a responsible official.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

4. Compliance Certification

a. During the permit term, the permittee shall submit at least **annually** to the Department of Health 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; and
- 6) Any additional information as required by the Department of Health including information to determine compliance.

b. *The compliance certification shall be submitted **within ninety (90) days after the end of each calendar year**, and shall be signed and dated by a responsible official.*

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

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

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5. Annual Emissions

- a. 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/yr 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 completion and submittal of *Annual Emissions Report Form: Boilers*, shall be used in reporting fuel usage.
- b. Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department of Health 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)

6. The Department may at any time require the permittee to install, operate, and maintain continuous emission monitors, or conduct additional stack testing, or ambient air monitoring.

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

**Section E. Agency Notification**

Any document (including reports) required to be submitted by this permit shall be done in accordance with Attachment I, Standard Condition 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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<sup>1</sup> The citation to the Code of Federal Regulations (CFR) identified under a particular condition, indicates 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 citation to the State Implementation Plan (SIP) identified under a particular condition, indicates that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT IIB: SPECIAL CONDITIONS FOR THE COMBUSTION TURBINES  
COVERED SOURCE PERMIT NO. 0239-01-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:

HECO

Unit No.      Description (power outputs are nominal and the units are situated from west to east)

10            50 MW General Electric MS7000 Combustion Turbine (682 MMBtu/hr, serial no. 217725, built in 1973)

9             52 MW General Electric MS7000 Combustion Turbine (691 MMBtu/hr, serial no. 217724, built in 1973)

Note: The combustion turbines (CTs) use fuel oil no. 2 for ignition and regular fuel.

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or name plate on each combustion turbine, which identifies the model no., serial no., and manufacturer. The identification tag or name plate shall be attached to the equipment at a conspicuous location.

(Auth.: HAR §11-60.1-5)

**Section B. Operational and Emission Limitations**

1. Fuel Usage and Specifications

The combustion turbines shall be fired only on fuel oil no. 2 with a maximum sulfur content not to exceed 0.5 percent by weight, alternative fuel allowed in Attachment IIB, Special Condition Nos. B.5.a.1), or any combination thereof.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90)

2. Opacity

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

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90, SIP §11-60-24)<sup>2</sup>

3. "Start-up" and "Shut-down"

- a. The "start-up" time for any combustion turbine shall not exceed thirty (30) minutes. A "start-up" sequence shall be the time the combustion turbine is initially brought up to 10% load.
- b. The "shut-down" time for any combustion turbine shall not exceed thirty (30) minutes. A "shut-down" sequence shall be considered from the time when the combustion turbine is below 10% load, until fuel use at the combustion turbine ceases.

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

4. Minimum Operating Load

The minimum combustion turbine load shall not be less than 10% of the rated capacity at any one time, except during combustion turbine "start-up," "shut-down," and maintenance/testing.

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

5. Alternate Operating Scenario

- a. Terms and conditions for reasonably anticipated alternate operating scenarios identified by the permittee in the covered source permit application and approved by the Department of Health are as follows:
  - 1) The first alternate operating scenario is the ability to switch to alternate fuels. The permittee shall not be allowed to switch fuels unless all of the following information is provided, in writing, and approved by the Department:
    - a) Specific type of fuel provided;
    - b) Consumption rate of the fuel;
    - c) Fuel blending rate;
    - d) Calculations showing no increase in emissions;

- e) Ambient air quality analyses verifying that State Ambient Air Quality Standards (SAAQS) will be met;
  - f) Fuel storage; and
  - g) Plan to monitor and record the fuel analyses and consumption.
- 2) The second alternate operating scenario is to replace permitted combustion turbine(s) with a temporary replacement combustion turbine(s) if any repair work reasonably warrants the removal (i.e., equipment failure, engine overhaul, or any major equipment problems requiring maintenance for efficient operation) of a permitted equipment from its site and the following provisions are adhered to:
- a) Written notification identifying the reasons for the replacement of the combustion turbine(s) from the site of operation is submitted to and approved by the Department of Health prior to the exchange;
  - b) The unit is replaced with a temporary replacement combustion turbine(s) with equal or less emissions and similar stack parameters;
  - c) The temporary replacement combustion turbine(s) complies with all applicable conditions including all air pollution control equipment requirements, operating restrictions and emission limits;
  - d) The combustion turbine(s) shall be repaired and returned to service at the same location in a timely manner; and
  - e) Prior to the removal and return of any boiler(s), the permittee shall submit to the Department of Health written documentation on the removal and return dates and on the make, size, model and serial numbers for both the temporary replacement combustion turbine(s) and installed combustion turbine(s).
- b. 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 and, if required by any applicable requirement or the Department of Health, submit written notification to the Department of Health.
- c. The terms and conditions under each alternative operating scenario shall meet all applicable requirements including all conditions of this permit.

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

**Section C. Monitoring and Recordkeeping Requirements**

1. Total Fuel Usage and Specification

The permittee shall maintain records of fuel deliveries identifying the delivery dates and the type and amount of fuel received. Include with the records, copies of the supplier's certificate of analysis showing the sulfur content of the fuel delivered.

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

2. The permittee shall monitor and maintain records of the following combustion turbine operations:

- a. Date and time of "start-ups" and "shut-downs," and their durations;
- b. Operating loads of the combustion turbines at all times.

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

3. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on the combustion turbines. At a minimum, these records shall include: the date of the inspection; name and title of the inspector; a short description of the action and/or any such repair work; and a description of the part(s) inspected or repaired.

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

4. Visible Emissions (V.E.)

a. The permittee shall conduct **monthly** (*calendar month*) V.E. observations for each combustion turbine subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. For the monthly observation for each combustion turbine, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*.

b. The permittee shall conduct **annually** (*calendar year*) V.E. observations for each combustion turbine subject to opacity limits by a certified reader in accordance with Method 9. For the annual observation for each combustion turbine, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*.

- c. Upon written request and justification by the permittee, the Department of Health may waive the requirement for a specific annual V.E. observation. The waiver request is to be submitted prior to the required observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous observation.

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

## 5. Records

All records, including support information, shall be maintained for **at least five (5) years** following the date of the monitoring sample, measurement, test, report, or application. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or their representative upon request.

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

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

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

- a. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 of this permit (excluding technology-based emission exceedances due to emergencies); and*
- b. *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; 40 CFR §60.48c(a); SIP §11-60-10, §11-60-16)<sup>1, 2</sup>

## 2. Deviations

The permittee shall report (in writing) **within five (5) working days** any deviations from the 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 stack testing, monitoring, or the 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. Monitoring

The permittee shall submit **semi-annually**, the attached *Monitoring Report Forms: Fuel Certification; and Visible Emissions; and Annual Emissions/Monitoring Report Form: Combustion Turbines* to the Department of Health. These reports shall be submitted **within sixty (60) days after the end of each semi-annual calendar period** (January 1 to June 30 and July 1 to December 31), and shall be signed and dated by a responsible official.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

4. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA Region 9, *Attachment V: Compliance Certification* 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. During the permit term, the permittee shall submit at least **annually** to the Department of Health 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; and
  - 6) Any additional information as required by the Department of Health including information to determine compliance.
- b. *The compliance certification shall be submitted **within ninety (90) days after the end of each calendar year**, and shall be signed and dated by a responsible official.*

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

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

5. Annual Emissions

- a. 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/yr 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 completion and submittal of *Annual Emission/Monitoring Report Form: Combustion Turbines*, shall be used in reporting fuel usage.

- b. Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department of Health 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)

6. The Department may at any time require the permittee to install, operate, and maintain continuous emission monitors, or conduct additional stack testing, or ambient air monitoring.

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

**Section E. Agency Notification**

Any document (including reports) required to be submitted by this permit shall be done in accordance with Attachment I, Standard Condition 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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<sup>1</sup> The citation to the Code of Federal Regulations (CFR) identified under a particular condition, indicates 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 citation to the State Implementation Plan (SIP) identified under a particular condition, indicates that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT II - INSIG  
SPECIAL CONDITIONS - INSIGNIFICANT ACTIVITIES  
COVERED SOURCE PERMIT NO. 0239-01-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:

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 of Health 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 of Health 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 in a permanent form suitable for inspection and made available to the Department of Health or their 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 of Health 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; and
6. Any additional information as required by the Department of Health including information to determine compliance.

The compliance certification shall be submitted **within ninety (90) 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 of Health determines that reasonable justification exists for the extension.

In lieu of addressing each emission unit as specified in *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. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

**PROPOSED**

**ATTACHMENT III: ANNUAL FEE REQUIREMENTS  
COVERED SOURCE PERMIT NO. 0239-01-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 **sixty (60) 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 of Health.
4. The annual fees and the emission data shall be mailed to:

**Clean Air Branch  
Environmental Management Division  
Hawaii Department of Health  
P. O. Box 3378  
Honolulu, HI 96801-3378**

**PROPOSED**

**ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS  
COVERED SOURCE PERMIT NO. 0239-01-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 of Health the nature and amounts of emissions.

1. Complete the attached forms:

Annual Emissions Report Form: Boilers

Annual Emissions/Monitoring Report Form: Combustion Turbines

2. The reporting period shall be from January 1 to December 31 of each year. All reports shall be submitted to the Department of Health 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  
P. O. Box 3378  
Honolulu, HI 96801-3378**

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 of Health upon request.
4. Any information submitted to the Department of Health 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. 0239-01-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 certification at least annually, or more frequently as set by an applicable requirement:

(Make Copies for Future Use)

For 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 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.**

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

TITLE: \_\_\_\_\_

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

Complete the following information for **each** term or condition of the permit that applies to **each** emissions unit at the source. Also include any additional information as required by the director. The compliance certification may reference information contained in a previous compliance certification submittal to the director, provided such referenced information is certified as being current and still applicable.

1. Current permit number: \_\_\_\_\_

2. Emissions Unit No./Description: \_\_\_\_\_

3. Identify the permit term(s) or condition(s) that is/are the basis of this certification:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Compliance status during the reporting period:

a. Has the emissions unit been in compliance with the identified permit term(s) or condition(s)?

YES  NO

b. If YES, was compliance continuous or intermittent?

Continuous  Intermittent

**COMPLIANCE CERTIFICATION FORM  
COVERED SOURCE PERMIT NO. 0239-01-C  
(CONTINUED, PAGE 2 OF 2)**

c. If NO, explain.

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5. The methods used for determining the compliance status of the emissions unit currently and over the reporting period (e.g., monitoring, recordkeeping, reporting, test methods, etc.):

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Provide a detailed description of the methods used to determine compliance: (e.g., monitoring device type and location, test method description, or parameter being recorded, frequency of recordkeeping, etc.):

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6. Statement of Compliance with Enhanced Monitoring and Compliance Certification Requirements.

a. Is the emissions unit identified in this application in compliance with applicable enhanced monitoring and compliance certification requirements?

YES       NO

b. If YES, identify those requirements:

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c. If NO, describe below which requirements are not being met:

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**MONITORING REPORT FORM  
FUEL CERTIFICATION  
COVERED SOURCE PERMIT NO. 0239-01-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 of Health the following information semi-annually:

(Make Copies for Future Use)

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

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

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

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

Equipment Capacity/Rating (specify units): \_\_\_\_\_  
(Units such as Horsepower, kilowatt, tons/hour, etc.)

**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**

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

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

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

**Fuel Certification:**

Report the maximum weight percent sulfur in the fuel oil no. 2 and/or no. 6 during the reporting period for which this certification is required. \_\_\_\_\_

**MONITORING REPORT FORM  
SPEC USED OIL  
COVERED SOURCE PERMIT NO. 0239-01-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)

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

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

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

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

Equipment Capacity/Rating (specify units): \_\_\_\_\_  
(Units such as Horsepower, kilowatt, tons/hour, etc.)

Serial/ID No.: \_\_\_\_\_

**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.**

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

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

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

MONTH	MONTHLY FUEL CONSUMPTION (gallons)	12-MO. ROLLING BASIS (gallons)	NOTES
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			





**VISIBLE EMISSIONS FORM REQUIREMENTS  
STATE OF HAWAII  
COVERED SOURCE PERMIT NO. 0239-01-C**

**[Issuance Date]**

**[Expiration Date]**

The **Visible Emissions (V.E.) Form** shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits in accordance with 40 CFR Part 60, Appendix A, Method 9 or use of a Ringelmann Chart as provided. At least **annually** (*calendar year*), V.E. observation shall be conducted for each equipment subject to opacity limits by a certified reader in accordance with Method 9. The V.E. Form shall be completed as follows:

1. Visible emissions observations shall take place during the day only and shall be compared to the Ringelmann Chart provided. The opacity shall be noted in five (5) percent increments (e.g., 25%).
2. Orient the sun within a 140 degree sector to your back. Provide a source layout sketch on the V.E. Form using the symbols as shown.
3. Stand at least three (3) stack heights, but not more than a quarter mile from the stack.
4. Two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each stack or emission point.
5. The six (6) minute average opacity reading shall be calculated for each observation.
6. If possible, the observations shall be performed as follows:
  - a. Read from where the line of sight is at right angles to the wind direction.
  - b. The line of sight shall not include more than one (1) plume at a time.
  - c. Read at the point in the plume with the greatest opacity (without condensed water vapor), ideally while the plume is no wider than the stack diameter.
  - d. Read the plume at fifteen (15) second intervals only. Do not read continuously.
  - e. The equipment shall be operating at the maximum permitted capacity.
7. If the equipment was shut-down for that period, briefly explain the reason for shut-down in the comment column.

The permittee shall retain the completed V.E. Forms for recordkeeping. These records shall be in a permanent form suitable for inspection, retained for a minimum of five years, and made available to the Department of Health, or their representative upon request.

Any required initial and annual performance test performed in accordance with Method 9 by a certified reader shall satisfy the respective equipment's V.E. monitoring requirements for the month the performance test is performed.

**VISIBLE EMISSIONS FORM  
STATE OF HAWAII  
COVERED SOURCE PERMIT NO. 0239-01-C**

[Issuance Date]

[Expiration Date]

(Make Copies for Future Use for Each Stack or Emission Point)

Permit No.: \_\_\_\_\_

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

Equipment and Fuel: \_\_\_\_\_

**Site Conditions:**

Stack height above ground (ft): \_\_\_\_\_

Stack distance from observer (ft): \_\_\_\_\_

Emission color (black or white): \_\_\_\_\_

Sky conditions (% cloud cover): \_\_\_\_\_

Wind speed (mph): \_\_\_\_\_

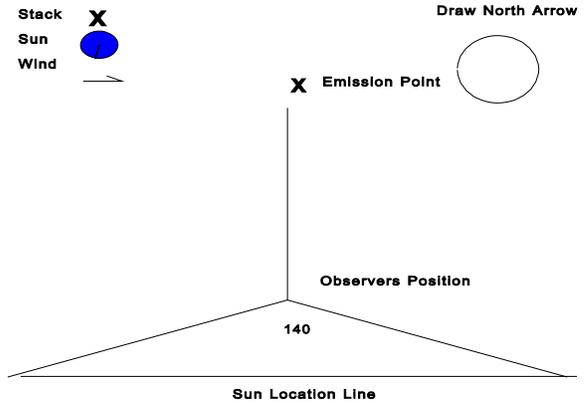
Temperature (°F): \_\_\_\_\_

Observer Name: \_\_\_\_\_

Certified? (Yes/No): \_\_\_\_\_

Observation Date and Start Time: \_\_\_\_\_

Method of Observation (Ringelmann Chart or Method 9): \_\_\_\_\_



SECONDS	0	15	30	45	COMMENTS
MINUTES					
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

Observation Date and Start Time: \_\_\_\_\_

Method of Observation (Ringelmann Chart or Method 9): \_\_\_\_\_

SECONDS	0	15	30	45	COMMENTS
MINUTES					
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

**ANNUAL EMISSIONS REPORT FORM  
BOILERS  
COVERED SOURCE PERMIT NO. 0239-01-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 of Health the nature and amounts of emissions.

Fill out a separate form for each Boiler. (Make Copies for Future Use)

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

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

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

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

Serial/ID No.: \_\_\_\_\_

**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**

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

TITLE: \_\_\_\_\_

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

Classification of Boiler or Kiln by Heat Input (Check one):

- \_\_\_\_\_ Utility: > 106 x 10<sup>9</sup> J/hr. (> 100 x 10<sup>6</sup> BTU/hr.)  
 *Tangentially-fired*       *Vertical-fired*       *Other*
- \_\_\_\_\_ Industrial: 10.6 x 10<sup>9</sup> to 106 x 10<sup>9</sup> J/hr. (10 x 10<sup>6</sup> to 100 x 10<sup>6</sup> BTU/hr.)
- \_\_\_\_\_ Commercial: 0.5 x 10<sup>9</sup> to 10.6 x 10<sup>9</sup> J/hr. (0.5 x 10<sup>6</sup> to 10 x 10<sup>6</sup> BTU/hr.)
- \_\_\_\_\_ Residential: < 0.5 x 10<sup>9</sup> J/hr. (<0.5 x 10<sup>6</sup> BTU/hr.)

Type of Fuel Fired	Fuel Usage Gallons per year	% Sulfur Content by weight	Identify % Nitrogen, %Ash, & % Lead, if applicable

- Types of Fuel:
- Residual Oil: Specify Grade, No. 6, 5, or 4;
  - Distillate Oil (No. 2);
  - Fuel Oil Reclaimed or Spec Used Oil;
  - Liquefied Petroleum Gas, Butane or Propane;
  - Bagasse in tons/yr;
  - If Other, specify.

Type of Air Pollution Control	In Use?	Pollutant Controlled	Control Efficiency (% Reduction)
_____	Yes or No	_____	_____
_____	Yes or No	_____	_____

**ANNUAL EMISSIONS/MONITORING REPORT FORM  
COMBUSTION TURBINES  
COVERED SOURCE PERMIT NO. 0239-01-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 of Health the nature and amounts of emissions.

*Fill out a separate form for each Turbine.*

(Make Copies for Future Use)

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

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

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

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

Serial/ID No.: \_\_\_\_\_

**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**

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

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

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

\_\_\_\_\_ MMBTU/Hr. (Maximum Design Heat Input; MM =  $1 \times 10^6$ )  
\_\_\_\_\_ kilowatt rating

Type of Fuel Fired	Fuel Usage Gallons per Year	% Sulfur Content by Weight	Identify % Nitrogen, % Ash, & % Lead, if Applicable

Types of Fuel:      Distillate Oil (No. 2);                      If Other, specify.

<u>Type of Air Pollution Control</u>	<u>In Use?</u>	<u>Pollutant Controlled</u>	<u>Control Efficiency (% Reduction)</u>
_____	<u>Yes or No</u>	_____	_____
_____	<u>Yes or No</u>	_____	_____

**Combustion Turbine Certification:**

Provide date, time, and duration when "start-up" and "shut-down" periods exceeded thirty (30) minutes:

\_\_\_\_\_

Provide date, time, and duration when the minimum load fell below 10% during normal operations:

\_\_\_\_\_

\_\_\_\_\_