

**PROPOSED**

[Issuance Date]

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

04-XXE CAB  
File No. 0234-01

Mr. Dan V. Giovanni  
Manager, Production Department  
Hawaii Electric Light Company, Inc.  
P. O. Box 1027  
Hilo, Hawaii 96721-1027

Dear Mr. Giovanni:

**Subject: Covered Source Permit (CSP) No. 0234-01-C  
Renewal Application No. 0234-02  
HELCO Kanoelehua Hill Generating Station  
Two (2) Boilers, One (1) Combustion Turbine, and Four (4) Diesel Engines  
Located at: Hilo, Hawaii  
Date of Expiration: [Five (5) year period from Date of Issuance]**

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 plans, specifications, and additional information that you submitted as part of your renewal application dated April 30, 2003, and the additional information dated March 10, 2004, and August 26, 2004.

This permit supersedes CSP No. 0234-01-C issued on May 17, 1999, in its entirety.

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

- Attachment I: Standard Conditions
- Attachment IIA: Special Conditions Diesel Engine Generators
- Attachment IIB: Special Conditions Combustion Turbine
- Attachment IIC: Special Conditions Boilers
- Attachment IID: Insignificant Activities
- Attachment III: Annual Fee Requirements
- Attachment IV: Annual Emissions Reporting Requirements
- Attachment V: Compliance Certification

The following forms are enclosed for some of the monitoring and reporting required by this Covered Source Permit:

- Annual Emissions Report Form: Boilers
- Annual Emissions Report Form: Diesel Engines
- Annual Emissions Report Form: Combustion Turbines
- Monitoring Report Form: Spec Used Oil Consumption
- Monitoring Report Form: Visible Emissions

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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

SS:lk

Enclosures

c: DHO, Hawaii  
Ed Yamamoto, EHS - Hawaii  
CAB Enforcement Section

**ATTACHMENT I: STANDARD CONDITIONS  
COVERED SOURCE PERMIT NO. 0234-01-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 Regional Administrator for the U.S. Environmental Protection Agency (EPA).  
  
(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 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 Administrator 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:
- Identification of each affected emission point and each emission limit exceeded;
  - Magnitude of each excess emission;
  - Time and duration of each excess emission;
  - Identity of the process or control equipment causing the excess emission;
  - Cause and nature of each excess emission;
  - 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;
  - Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and
  - 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. A copy of applicable correspondence or records submitted to the Department of Health shall be provided to the U.S. EPA Administrator.

(Auth.: HAR §11-60.1-90)

19. 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)

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

- 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)

21. The Department of Health may extend the time periods specified in Standard Condition No. 20 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)

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

(Auth.: HAR §11-60.1-90)

23. All certifications shall be in accordance with HAR, section 11-60.1-4.

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

24. 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)

25. 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>

26. Each permit renewal application shall be submitted to the Department of Health 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>

27. 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)

28. 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 Regional Administrator once per year, or more frequently as set by any applicable requirement.

(Auth.: HAR §11-60.1-90)

29. **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, 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)

30. 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.

**PROPOSED**

**ATTACHMENT IIA: SPECIAL CONDITIONS FOR DIESEL ENGINE GENERATORS  
COVERED SOURCE PERMIT NO. 0234-01-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</u>	<u>Description</u>
D-11	2.0 MW Fairbanks Morse Diesel Engine Generator;
D-15	2.75 MW General Motors Diesel Engine Generator, model no. EMD 20-645;
D-16	2.75 MW General Motors Diesel Engine Generator, model no. EMD 20-645; and
D-17	2.75 MW General Motors Diesel Engine Generator, model no. EMD 20-645.

(Auth.: HAR §11-60.1-3)

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

(Auth.: HAR §11-60.1-5)

**Section B. Operational Emissions and Limitations**

1. Fuel Specifications

The diesel engine generators shall be fired only on the following fuels:

- a. Diesel fuel no. 2 with a maximum sulfur content not to exceed 0.4 percent by weight;
- or
- b. An alternative fuel allowed under Special Condition B.3.b. of Attachment IIA.

The permittee may use fuel additives in combination with diesel fuel no. 2 provided all conditions of this permit are met. The Department may at any time request further information on the fuel additives. The permittee shall provide the documentation to the Department within 30 days of the request.

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

## 2. Opacity Limits

Unit nos. D-11, D-15 and D-16 shall not exhibit visible emissions of forty (40) percent opacity or greater for any six (6) minute averaging period, except as follows: during start-up, shut-down, or equipment breakdown, the engines may exhibit visible emissions greater than forty (40) percent but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.

Unit no. D-17, shall not exhibit visible emissions of twenty (20) percent opacity or greater for any six (6) minute averaging period, except as follows: during start-up, shut-down, or equipment breakdown, unit no. D-17 may exhibit visible emissions greater than twenty (20) percent but not exceeding 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, §11-60.1-5, §11-60.1-32, §11-60.1-90; SIP §11-60-24)<sup>2</sup>

## 3. Alternate Operating Scenarios

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:

- a. The permittee may replace the diesel engine generators with a temporary replacement unit 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 diesel engine generator from its site and the following provisions are adhered to:
  - i. Written notification identifying the reasons for the replacement from the site of operation is submitted to and approved by the Department of Health prior to the exchange;
  - ii. The unit is replaced with a diesel engine generator of the same make, model, and size;
  - iii. The temporary replacement unit complies with all applicable conditions including all air pollution control equipment requirements, operating restrictions and emission limits;
  - iv. The diesel engine generator shall be repaired and returned to service at the same location in a timely manner; and
  - v. Prior to the removal and return of any diesel 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 installed unit.

- b. Upon receiving written approval from the Department of Health, the permittee may burn an alternative fuel provided the permittee demonstrates compliance with all applicable State and Federal requirements and applicable conditions of this covered source permit. The alternative fuel shall be burned only temporarily, and shall not result in an increase in emissions of any air pollutant or in the emission of any air pollutant not previously emitted. The permittee shall not be allowed to switch fuels unless all of the following information is provided:
  - i. Specific type of fuel provided;
  - ii. Consumption rate of the fuel;
  - iii. Fuel blending rate;
  - iv. Emissions calculations;
  - v. Ambient air quality analyses verifying that SAAQS will be met;
  - vi. Fuel storage; and
  - vii. Plan to monitor and record the fuel analyses and consumption.
- c. The permittee may operate the diesel engine generators above 100% peak load for no more than thirty minutes in duration. The permittee shall record in a log the date, time, and duration of each instance the diesel engine generators operated above 100% peak load.
- d. 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 submit written notification to the Department of Health.
- e. The terms and conditions under each alternative operating scenario shall meet all applicable requirements including conditions of this permit.

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

### **Section C. Monitoring and Record keeping Requirements**

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

#### **1. Fuel Specifications**

The sulfur content of the fuel to be fired in the diesel engine generators shall be tested in accordance with the most current American Society for Testing and Materials (ASTM) methods. ASTM Method D4294-90 is a suitable alternative to Method D129-91 for determining the sulfur content. A representative sample of each batch of fuel received shall be analyzed for its sulfur content.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §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 diesel engine generators. At a minimum, these records shall include: the date of the inspection; 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 diesel engine generator subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. For each period, two (2) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for each diesel engine generator. 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 diesel engine generator subject to opacity limits by a certified reader in accordance with Method 9. For each period, two (2) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for each diesel engine generator. 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. 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 continuing compliance, and further that operations of the source have not changed since the previous source test.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §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 1, Standard Condition Nos. 17 and 25, respectively:
  - a. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedences 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, §11-60.1-16, §11-60.1-90)

2. The permittee shall report **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, or more frequent monitoring, or the implementation of a corrective action plan.

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

3. The permittee shall submit **semiannually** the following written reports to the Department of Health. The report 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 include the following:
  - a. Any deviation from the permit conditions shall be clearly identified. At a minimum, the report shall include the information identified in HAR §11-60.1-16(b).
  - b. Analysis of the sulfur content in the diesel fuel no.2 for which there are exceedences of the limit specified in Special Condition B.1 of Attachment IIA. If there were no exceedences, the permittee shall submit in writing a statement indicating that there were no exceedences for that semi-annual period.
  - c. Any opacity exceedences as determined by the required V.E. monitoring. Each exceedence reported shall include the date, six (6) minute average opacity reading, possible reason for exceedence, duration of exceedence, and corrective actions taken. If there were no exceedences, the permittee shall submit in writing a statement indicating that for each equipment there were no exceedences for that semi-annual period. The enclosed Monitoring Report Form: *Visible Emissions* shall be used.
  - d. Any instance where the diesel engine generators operated over 100% peak load for longer than thirty minutes in duration.

(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, Attachment V: Compliance Certification pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:
    - i. The identification of each term or condition of the permit that is the basis of the certification;

- ii. The compliance status;
  - iii. Whether compliance was continuous or intermittent;
  - iv. The methods used for determining the compliance status of the source currently and over the reporting period;
  - v. 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
  - vi. 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 the 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 §11-60.1-86, §11-60.1-90)

## 5. Annual Emissions

As required by Attachment IV 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 enclosed *Annual Emissions Report Form: Diesel Engines*, shall be used.

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, §11-60.1-90)

## **Section E. Agency Notification**

Any document (including reports) required to be submitted by this permit shall be done in accordance with Attachment 1, Standard Condition 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

<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.

# PROPOSED

## ATTACHMENT IIB: SPECIAL CONDITIONS FOR COMBUSTION TURBINE COVERED SOURCE PERMIT NO. 0234-01-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</u>	<u>Description</u>
CT-1	One (1) 11.6 MW General Electric Combustion Turbine, model no. MS5001D

(Auth.: HAR §11-60.1-3)

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

(Auth.: HAR §11-60.1-5)

### **Section B. Operational and Emission Limitations**

1. Fuel Specifications

The combustion turbine generator, CT-1, shall be fired only on the following fuels:

- a. Diesel fuel no. 2 with a maximum sulfur content not to exceed 0.4 percent by weight;  
or
- b. An alternative fuel allowed under Special Condition B.3.b. of Attachment IIB.

The permittee may use fuel additives in combination with diesel fuel no. 2 provided all conditions of this permit are met. The Department may at any time request further information on the fuel additives. The permittee shall provide the documentation to the Department within 30 days of the request.

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

2. Opacity Limits

On or after the date of start-up, the combustion turbine generator 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 combustion turbine generator may exhibit visible emissions greater than forty (40) but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60)

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**Attachment IIB**  
**Page 2 of 6**  
**[Issuance Date]**  
**[Expiration Date]**

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minute period.

Start-up shall be from the time fuel flow begins until the combustion turbine generator is brought up to between 25% and 35% load. Shut-down shall be from the time the combustion turbine generator is below 25% load, until fuel use at the combustion turbine generator ceases.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-32, §11-60.1-90)

3. Alternate Operating Scenarios

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:

- a. The permittee may replace the combustion turbine with a temporary replacement unit if any repair work reasonably warrants the removal (i.e., equipment failure, combustion turbine overhaul, or any major equipment problems requiring maintenance for efficient operation) of the combustion turbine from its site and the following provisions are adhered to:
  - i. Written notification identifying the reasons for the replacement from the site of operation is submitted to and approved by the Department of Health prior to the exchange;
  - ii. The unit is replaced with a combustion turbine of the same make, model, and size;
  - iii. The temporary replacement unit complies with all applicable conditions including all air pollution control equipment requirements, operating restrictions and emission limits;
  - iv. The combustion turbine shall be repaired and returned to service at the same location in a timely manner; and
  - v. Prior to the removal and return of any combustion turbine, 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 installed unit.
- b. Upon receiving written approval from the Department of Health, the permittee may burn an alternative fuel provided the permittee demonstrates compliance with all applicable State and Federal requirements and applicable conditions of this covered source permit. The alternative fuel shall be burned only temporarily, and shall not result in an increase in emissions of any air pollutant or in the emission of any air pollutant not previously emitted. The permittee shall not be allowed to switch fuels unless all of the following information is provided:

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- i. Specific type of fuel provided;
- ii. Consumption rate of the fuel;

- iii. Fuel blending rate;
  - iv. Emissions calculations;
  - v. Ambient air quality analyses verifying that SAAQS will be met;
  - vi. Fuel storage; and
  - vii. Plan to monitor and record the fuel analyses and consumption.
- c. The permittee may operate the combustion turbine above 100% peak load for no more than thirty minutes in duration. The permittee shall record in a log the date, time, and duration of each instance the combustion turbine operated above 100% peak load.
- d. 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 submit written notification to the Department of Health.
- e. The terms and conditions under each alternative operating scenario shall meet all applicable requirements including conditions of this permit.

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

**Section C. Monitoring and Record keeping Requirements**

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 and maintenance records and copies of all reports required by the 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.

1. Fuel Specifications

The sulfur content of the fuel to be fired in the combustion turbine, shall be tested in accordance with the most current American Society for Testing and Materials (ASTM) methods. ASTM Method D4294-90 is a suitable alternative to Method D129-91 for determining the sulfur content. A representative sample of each batch of fuel received shall be analyzed for its sulfur content.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §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 combustion turbine. At a minimum, these records shall include: the date of the inspection; 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)

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**Attachment IIB**  
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**PROPOSED**

3. Visible Emissions (V.E.)

- a. The permittee shall conduct **monthly** (*calendar month*) V.E. observations for the combustion turbine in accordance with Method 9 or by use of a Ringelmann Chart as provided. For each period, two (2) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for the combustion turbine. 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 the combustion turbine in accordance with Method 9. For each period, two (2) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for the combustion turbine. 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. 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 continuing compliance, and further that operations of the source have not changed since the previous source test.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §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 1, Standard Condition Nos. 17 and 25, respectively:
  - a. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedences 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, §11-60.1-16, §11-60.1-90)

2. The permittee shall report **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, or more frequent monitoring, or the implementation of a corrective action plan.

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

3. The permittee shall submit **semiannually** the following written reports to the Department of Health. The report 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 include the following:
- a. Any deviation from the permit conditions shall be clearly identified. At a minimum, the report shall include the information identified in HAR §11-60.1-16(b).
  - b. Analysis of the sulfur content in the diesel fuel no.2 for which there are exceedences of the limit specified in Special Condition B.1 of Attachment IIB. If there were no exceedences, the permittee shall submit in writing a statement indicating that there were no exceedences for that semi-annual period.
  - c. Any opacity exceedences as determined by the required V.E. monitoring. Each exceedence reported shall include the date, six (6) minute average opacity reading, possible reason for exceedence, duration of exceedence, and corrective actions taken. If there were no exceedences, the permittee shall submit in writing a statement indicating that for each equipment there were no exceedences for that semi-annual period. The enclosed Monitoring Report Form: *Visible Emissions*, shall be used.
  - d. Any instance where the combustion turbine operated over 100% peak load for longer than thirty minutes in duration.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §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, Attachment V: Compliance Certification pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:
  - i. The identification of each term or condition of the permit that is the basis of the certification;
  - ii. The compliance status;
  - iii. Whether compliance was continuous or intermittent;
  - iv. The methods used for determining the compliance status of the source currently and over the reporting period;
  - v. 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

vi. 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 the 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 §11-60.1-86, §11-60.1-90)

#### 5. Annual Emissions

As required by Attachment IV 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 enclosed Annual Emissions Report Form *Combustion Turbine*, shall be used.

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, §11-60.1-90)

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

Any document (including reports) required to be submitted by this permit shall be done in accordance with Attachment 1, Standard Condition 29.

(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.

# PROPOSED

## ATTACHMENT IIC: SPECIAL CONDITIONS FOR BOILERS COVERED SOURCE PERMIT NO. 0234-01-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</u>	<u>Description</u>
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Hill 5	One (1) 14.1 MW Combustion Engineering Boiler, model no. VU 60; and
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Hill 6	One (1) 23 MW Combustion Engineering Boiler, model no. VU 60.
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(Auth.: HAR §11-60.1-3)

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

(Auth.: HAR §11-60.1-5)

### **Section B. Operational and Emission Limitations**

1. Fuel Specifications

Hill 5 and Hill 6 shall be fired only on the following fuels:

- a. Fuel oil no. 2 with a maximum sulfur content not to exceed 2.0 percent by weight;
- b. Fuel oil no. 6 with a maximum sulfur content not to exceed 2.0 percent by weight;
- c. Specification used oil as specified in Special Condition B.4. of Attachment IIC;
- d. An alternative fuel allowed under Special Condition B.3.a. of Attachment IIC; or
- e. any combination of the above.

The permittee may use fuel additives in combination with fuel oil nos. 2 and 6 provided all conditions of this permit are met. The Department may at any time request further information on the fuel additives. The permittee shall provide the documentation to the Department within 30 days of the request.

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

2. Opacity Limits

On and after the date of start-up, Hill 5 shall not exhibit visible emissions of forty (40) percent opacity or greater for any six (6) minute averaging period, except as follows. During start-up, shut-down, or equipment breakdown, Hill 5 may exhibit visible emissions greater than forty (40) percent but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.

Hill 6 shall not exhibit visible emissions of twenty (20) percent opacity or greater for any six (6) minute averaging period, except as follows: during start-up, shut-down, or equipment breakdown, Hill 6 may exhibit visible emissions greater than twenty (20) percent but not exceeding 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, §11-60.1-5, §11-60.1-32, §11-60.1-90)

3. Alternate Operating Scenarios

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:

- a. Upon receiving written approval from the Department of Health, the permittee may burn an alternative fuel provided the permittee demonstrates compliance with all applicable State and Federal requirements and applicable conditions of this covered source permit. The alternative fuel shall be burned only temporarily, and shall not result in an increase in emissions of any air pollutant or in the emission of any air pollutant not previously emitted. The permittee shall not be allowed to switch fuels unless all of the following information is provided:
  - i. Specific type of fuel;
  - ii. Consumption rate of the fuel;
  - iii. Fuel blending rate;
  - iv. Emissions calculations;
  - v. Ambient air quality analyses verifying that SAAQS will be met;
  - vi. Fuel storage; and
  - vii. Plan to monitor and record the fuel analyses and consumption.
- b. The permittee may operate the boilers above 100% peak load for no more than thirty minutes in duration. The permittee shall record in a log the date, time, and duration of each instance the boilers operated above 100% peak load.
- c. 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 submit written notification to the Department of Health.

- d. The terms and conditions under each alternative operating scenario shall meet all applicable requirements including conditions of this permit.

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

4. Combustion of Specification (Spec) Used Oil

- a. The permit conditions prescribed herein may at any time be revised by the Department of Health to conform to any 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 handling, transporting, storing, and burning of used oil. If this permit is determined to be in conflict with any state or federal rules, the permit shall be surrendered upon request to the Department of Health.
- c. The used oil shall consist only of lube oil, waste diesel oil, crank-case oil, dielectric fluid, thinners, solvents, and kerosene obtained from equipment operating at Hawaii Electric Light Co. (HELCO) facilities. The used oil shall not be contaminated with hazardous spent halogenated solvents or other chlorinated hazardous waste.

Used oil may be obtained from other sources, provided written approval from the Department of Health is obtained prior to accepting used oil from any other source. An analysis shall accompany each delivery of spec used oil received from other sources.

- d. The consumption of used oil shall not exceed 36,500 gallons in any rolling twelve-month period.
- e. Prior to blending the used oil with any fuel oil and/or burning the used oil in units Hill 5 and Hill 6, a composite sample representing a batch of no more than 5,000 gallons of used oil shall be taken from the sources identified in Special Condition B.4.c. of this Attachment.
- f. Each sample shall be submitted to a qualified laboratory and analyzed for each of the constituents/properties listed in Special Condition B.4.h. of Attachment II.C. The laboratory analysis of each batch shall be used to demonstrate compliance with Special Condition no. B.4.h. and shall be obtained prior to burning in units Hill 5 and Hill 6. Under no circumstance shall any used oil be burned without being sampled and analyzed.
- g. This permit does not authorize the permittee to burn hazardous waste or off-specification used oil. The permittee shall not burn the used oil if declared or determined to be a hazardous waste or off-specification used oil.

- h. The following constituents/properties of the used oil shall not exceed the specified limits listed below:

<u>Constituent/Property</u>	<u>Specification Allowable Limit</u>
Sulfur	2% maximum
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1,000 ppm maximum
Polychlorinated Biphenyls (PCB)	<2 ppm maximum
Flash Point	100° F minimum

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

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

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 and maintenance records and copies of all reports required by the 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.

#### 1. Fuel Specifications

The permittee shall maintain records of fuel deliveries identifying the delivery dates and the type and amount of fuel received. The sulfur content of the fuel to be fired in the boilers, shall be tested in accordance with the most current American Society for Testing and Materials (ASTM) methods. ASTM Method D4294-90 is a suitable alternative to Method D129-91 for determining the sulfur content. A representative sample of each batch of fuel received shall be analyzed for its sulfur content. Fuel consumption records shall be maintained annually for the boilers in accordance with the *Annual Emissions Report Form: Boilers*.

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

#### 2. Specification Used Oil

- a. The permittee shall maintain records of the laboratory analysis of each used oil sample required in Special Conditions no B.4.e. and f. At a minimum, the records shall indicate the date the batch sample was taken, the date of the laboratory analysis, and the date that the batch of used oil was initially burned.

- b. A log shall be maintained on the consumption of used oil. At a minimum, the log shall include:
  - i. The supplier, date, and amount for each shipment of used oil received;
  - ii. The sample date, amount of used oil the sample represents, date of analysis, and reports of the analysis;
  - iii. The date when the used oil is consumed; and
  - iv. The rolling twelve month total of used oil consumed.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §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 boilers. At a minimum, these records shall include: the date of the inspection; 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 boiler subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. For each period, two (2) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for each boiler. 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 each period, two (2) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for each boiler. 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. 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 continuing compliance, and further that operations of the source have not changed since the previous source test.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §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 1, Standard Condition Nos. 17 and 25, respectively:
  - a. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedences 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, §11-60.1-16, §11-60.1-90)

2. The permittee shall report **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, or more frequent monitoring, or the implementation of a corrective action plan.

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

3. The permittee shall submit **semi-annually** the following written reports to the Department of Health. The report 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 include the following:

- a. The used oil analysis which indicated exceedences of the limits specified in Special Condition B.4.h of Attachment IIC. If there were no exceedences, the permittee shall submit in writing a statement indicating that there were no exceedences for that semi-annual period.
- b. Analysis of the sulfur content in the fuel oil nos.2 and 6 for which there are exceedences of the limit specified in Special Condition B.1. of Attachment IIC. If there were no exceedences, the permittee shall submit in writing a statement indicating that there were no exceedences for that semi-annual period.
- c. The total amount of specification used oil consumed on a monthly and 12-month rolling period. The enclosed Monitoring Report Form: *Spec Used Oil Consumption*, shall be used.
- d. Any opacity exceedences as determined by the required V.E. monitoring. Each exceedence reported shall include the date, six (6) minute average opacity reading, possible reason for exceedence, duration of exceedence, and corrective actions taken. If there were no exceedences, the permittee shall submit in writing a statement indicating that for each equipment there were no exceedences for that semi-annual period. The enclosed Monitoring Report Form: *Visible Emissions*, shall be used.

- e. Any deviation from the permit conditions shall be clearly identified. At a minimum, the report shall include the information identified in HAR §11-60.1-16(b).
- f. Any instance where the boilers operated over 100% peak load for longer than thirty minutes in duration.

(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 USEPA Region 9, Attachment V: Compliance Certification pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:
  - i. The identification of each term or condition of the permit that is the basis of the certification;
  - ii. The compliance status;
  - iii. Whether compliance was continuous or intermittent;
  - iv. The methods used for determining the compliance status of the source currently and over the reporting period;
  - v. 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
  - vi. 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 the 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 §11-60.1-86, §11-60.1-90)

5. Annual Emissions

As required by Attachment IV 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 enclosed Annual Emissions Report Form *Boilers*, shall be used.

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, §11-60.1-90)

**Section E. Agency Notification**

Any document (including reports) required to be submitted by this permit shall be done in accordance with Attachment 1, Standard Condition 29.

(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 IID: SPECIAL CONDITIONS FOR INSIGNIFICANT ACTIVITIES  
COVERED SOURCE PERMIT NO. 0234-01-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 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

1. 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. 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;
  - c. 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; and
  - f. Any additional information as required by the Department of Health including information to determine compliance.

In lieu of addressing each emission unit as specified in Attachment V, 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.

2. 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.
3. 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)

**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)

**ATTACHMENT III: ANNUAL FEE REQUIREMENTS  
COVERED SOURCE PERMIT NO. 0234-01-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 days** after the end of each calendar year; and
  - b. **Within thirty 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 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**

**ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS  
COVERED SOURCE PERMIT NO. 0234-01-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 Forms:** *Diesel Engines, Boilers and 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  
State 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 by submitting a written request to the Director of Health and clearly identifying the specific information that is to be accorded confidential treatment.

**ATTACHMENT V: COMPLIANCE CERTIFICATION  
COVERED SOURCE PERMIT NO. 0234-01-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 certification at least annually, or more frequently as set by an applicable requirement:

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

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** applicable requirement and/or 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 applicable requirement(s), and/or 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 applicable requirement(s) and/or permit term(s) or condition(s)?

YES                       NO

- b. If YES, was compliance continuous or intermittent?

Continuous               Intermittent

**PROPOSED**

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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**ANNUAL EMISSIONS REPORT FORM  
DIESEL ENGINES  
COVERED SOURCE PERMIT NO. 0234-01-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.

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

Facility Name: HELCO Kanoelehua-Hill Generating Station

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) \_\_\_\_\_

\_\_\_\_\_ Megawatt Rating

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; ● If Other, specify.  
● Distillate Oil (no. 2); ● Liquefied Petroleum Gas, Butane or Propane;

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

**ANNUAL EMISSIONS REPORT FORM  
COMBUSTION TURBINES  
COVERED SOURCE PERMIT NO. 0234-01-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.

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

Facility Name: HELCO Kanoelehua-Hill Generating Station

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) \_\_\_\_\_

\_\_\_\_\_ Megawatt Rating

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;                      ● If Other, specify.  
                     ● Distillate Oil (no. 2);  
                     ● Liquefied Petroleum Gas, Butane, or Propane;

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

**ANNUAL EMISSIONS REPORT FORM  
BOILERS  
COVERED SOURCE PERMIT NO. 0234-01-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.

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

Facility Name: HELCO Kanoelehua-Hill Generating Station

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 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? Yes or No	Pollutant Controlled	Control Efficiency, % Reduction
_____	_____	_____	_____
_____	_____	_____	_____

**MONITORING REPORT FORM  
SPEC USED OIL CONSUMPTION  
COVERED SOURCE PERMIT NO. 0234-01-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.

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

Facility Name: HELCO Kanoelehua-Hill Generating Station

Equipment Description: \_\_\_\_\_ Serial/ID no.: \_\_\_\_\_

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

Arsenic (ppm): \_\_\_\_\_ Cadmium (ppm): \_\_\_\_\_ Chromium (ppm): \_\_\_\_\_

Lead (ppm): \_\_\_\_\_ Total Halogens (ppm): \_\_\_\_\_ Flash Point (°F): \_\_\_\_\_

PCBs (ppm): \_\_\_\_\_ Sulfur (% by weight): \_\_\_\_\_

**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	12-MONTH ROLLING BASIS	NOTES
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
<b>TOTAL</b>			



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**VISIBLE EMISSIONS FORM REQUIREMENTS  
STATE OF HAWAII**

The following Visible Emissions (V.E.) Form shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. At least **annually** (*calendar year*), V.E. observations 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 5 percent increments (i.e., 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) observations shall be taken at fifteen (15) second intervals for six (6) consecutive minutes for each equipment.
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 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 (5) years, and made available to the Department of Health, or their representative upon request.

**VISIBLE EMISSIONS FORM  
STATE OF HAWAII**

Permit no.: 0234-01-C

Company Name: Hawaii Electric Light Co. Ltd.

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

Fuel: \_\_\_\_\_

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

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

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

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

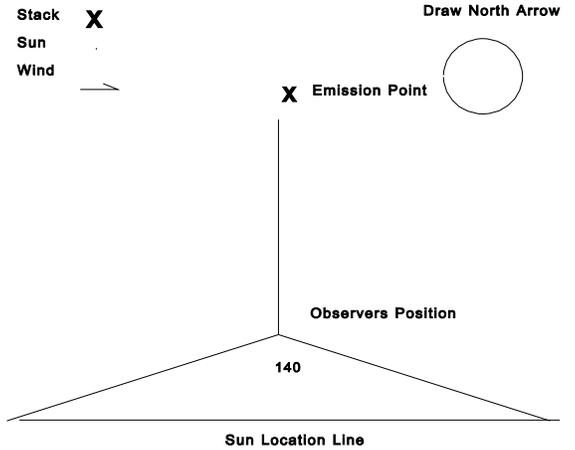
Wind speed (mph): \_\_\_\_\_

Temperature (°F): \_\_\_\_\_

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

Observer Certified? Yes / No

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



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

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

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

**PROPOSED**