

PROPOSED

[Issuance Date]

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

03-XXXE CAB
File No. 0087-02

Mr. Patrick G. Murphy
President and General Manager
AES Hawaii, Inc.
91-086 Kaomi Loop
Kapolei, Hawaii 96707-1883

Dear Mr. Murphy:

Subject: Covered Source Permit (CSP) No. 0087-02-C
Application for Renewal 0087-03
AES Hawaii, Inc.
180 MW Coal-Fired Cogeneration Plant
Located at: 91-086 Kaomi Loop, Campbell Industrial Park, Kapolei, Oahu
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 your application for a renewal dated January 25, 2002, and additional information dated May 8, 2003, and August 19, 2003. This permit shall supersede CSP No. 0087-01-C dated February 18, 1998, and its amendments CSP No. 0087-02-C dated July 9 and August 17, 1999, in its entirety. A receipt for the application filing fee of \$3,000.00 is enclosed.

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 - CFB Boilers
Attachment IIB:	Special Conditions - Coal Processing
Attachment IIC:	Special Conditions - Limestone Processing
Attachment IID:	Special Conditions - Cooling Tower
Attachment IIE:	Special Conditions - Ash Handling
Attachment IIF:	Special Conditions - Storage Tanks
Attachment III:	Annual Fee Requirements
Attachment IV:	Annual Emission Reporting Requirements
Attachment V:	Compliance Certification

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

Monitoring Report Forms: Fuel Usage/Certification; Spec Used Oil;
Visible Emissions; and Storage Tanks
Annual Emissions Report Form: Boilers/Dryers
Annual Emissions / Monitoring Report Form: Cooling Tower
Excess Emission and Monitoring System Performance Summary Report

This permit: (a) shall not in any manner affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment; and (c) in no manner implies or suggests that the Department of Health, 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 Enforcement Section

**ATTACHMENT I: STANDARD CONDITIONS
COVERED SOURCE PERMIT NO. 0087-02-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 wilfully defaced, altered, forged, counterfeited, or falsified.

(Auth.: HAR §11-60.1-6; SIP §11-60-11)²

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)²

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:
- a. 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;
 - b. The **actual date of construction commencement** within fifteen (15) days after such date; and
 - c. 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:
- a. Identification of the specific equipment to be taken out of service, as well as its location and permit number;
 - b. The expected length of time that the air pollution control equipment will be out of service;
 - c. The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
 - d. Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
 - e. 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)²

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 each 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)²

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:

- a. Construction shall be commenced within eighteen (18) months after the permit takes effect, shall not be discontinued for a period of eighteen (18) months or more, and shall be 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, §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 assure 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)²

26. Each permit renewal application shall be submitted to the Department of Health no fewer than twelve (12) months and no more than eighteen (18) months prior to the permit expiration date. The Department of Health may allow a permit renewal application to be submitted no fewer than six (6) months prior to the permit expiration date, if the Department of Health determines that there is reasonable justification.

(Auth.: HAR §11-60.1-101, 40 CFR §70.5 (a)(1)(iii))¹

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

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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)

¹ 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.

² 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.

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**ATTACHMENT IIA: SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0087-02-C
CFB BOILERS**

[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. Attachment IIA of the Covered Source Permit encompasses the following equipment and associated appurtenances:
 - a. CFB Boilers (A and B)

Two (2) Alhstrom Pyropower Corp. circulating fluidized bed (CFB) steam boilers with a total maximum design heat input of 2,150 MMBtu/hr.
 - b. Air Pollution Control Equipment for CFB Boilers:
 - 1) Limestone injection system;
 - 2) Selective non-catalytic reduction (SNCR) with ammonia/urea injection system (Thermal DeNO_x); and
 - 3) Two (2) Asea Brown Boveri (ABB) Baghouses (model no. 2 and serial nos. 1CCB-CAB-1A and 1CCB-CAB-2A).
 - c. 25,000 Gallon Pressurized Anhydrous Ammonia Storage Tank

(Auth.: HAR §11-60.1-3)
2. An identification tag or name plate shall be displayed on the equipment listed above 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. Applicable Federal Regulations

1. This equipment is subject to the provisions of the following sections:
 - a. 40 CFR Part 60, Standards of Performance for New Stationary Sources:
 - 1) Subpart A - General Provisions; and
 - 2) Subpart Da - Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978.

- b. 40 CFR Part 52.21, Prevention of Significant Deterioration of Air Quality

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

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR 60.1, 40 CFR 60.40a, 40 CFR 52.21)¹

2. The storage and use of ammonia in this facility is subject to the provisions of 40 CFR Part 68, Chemical Accident Prevention Provisions. The permittee shall comply with all applicable requirements, including submittal of:
- A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or
 - As part of the compliance certification submitted pursuant to Attachment I, Standard Condition No. 28, a certification statement that the facility is in compliance with all requirements of 40 CFR 68, including the registration and submission of the Risk Management Plan.

(Auth.: HAR §11-60.1-3, §11-60.1-90, 40 CFR §68)¹

Section C. Operational and Emission Limitations

1. The CFB boilers (boilers) shall be fired primarily on coal with a maximum sulfur content not to exceed 1.5 percent by weight. During hot or cold startups, the boilers may be fired on fuel oil no. 2 with a maximum sulfur content not to exceed 0.5 percent by weight.

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

2. Tire Derived Fuel (TDF)

- The boilers may also be fired on a mixture of coal and TDF such that the combined feed rate does not exceed 215,000 lb/hr.
- The maximum amount of TDF fired into the boilers shall not exceed 7.5 ton/hr.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

3. Spent Activated Carbon

The boilers may also be fired on spent activated carbon. The spent activated carbon shall be obtained only from the Board of Water Supply in Honolulu and Tesoro Refinery Hawaii. Spent activated carbon may 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 spent activated carbon.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

4. Specification (Spec) Used Oil

- a. The boilers may also be fired on spec used oil such that the total usage does not exceed 3,000,000 gallons in any rolling 12-month period.
- b. The permit conditions prescribed herein may at any time be revised by the Department of Health to reflect federal or state promulgated rules on used oil.
- c. 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.
- d. The used oil shall be obtained only from Unitek Solvent Services, Inc.; Phillips Services; and sources within AES Hawaii, Inc. Used oil may 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.
- e. Samples of the used oil generated from the facility shall be taken from the holding tanks or drums, and composited and analyzed for compliance with the limits in Attachment IIA, Special Condition No. C.4.i. prior to being emptied into the reclaim tank and burned. These samples shall be taken in such a manner that the composite sample is representative of all of the used oil generated by the facility for that period of time. The composite sample shall represent no more than 5,000 gallons of used oil or all of the used oil collected in any three (3) month period, whichever is less.
- f. Each composite sample shall be submitted in a timely manner to a qualified laboratory and an analysis obtained for the constituents/properties for which limits are given in Attachment IIA, Special Condition No. C.4.i.
- g. Analysis reports shall be obtained (for the twice monthly testing) for the constituents/properties for which limits are given in Attachment IIA, Special Condition No. C.4.i. for all deliveries of spec used oil.
- 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 spec used oil shall not exceed the specified units 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

- 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. C.4.i. is allowable only for spec used oil that were not deemed hazardous.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-140, 40 CFR §279.11)

5. Air Pollution Control Equipment

The permittee shall continuously operate and maintain the following air pollution controls to meet the emissions limits as specified in Attachment IIA, Special Condition No. C.9 of this Covered Source Permit. The following controls shall be fully operational upon startup and thereafter:

- a. A limestone injection system shall be used to meet the sulfur dioxide and lead emission limits (3-hour average) as shown in Attachment IIA, Special Condition No. C.9; and a minimum sulfur dioxide removal efficiency of 75%.
- b. A SNCR system shall be used to meet the nitrogen oxide emission limit (3-hour average) as shown in Attachment IIA, Special Condition No. C.9.
- c. Baghouses shall be used to meet the particulate matter and lead emission limits (3-hour average) as shown in Attachment IIA, Special Condition No. C.9.
 - 1) The pressure drop across the baghouses shall be maintained at 1" to 9" H₂O.
 - 2) The permittee shall follow a regular maintenance schedule to ensure the following items of the baghouses are operating properly:
 - a) The filter bags are checked for any tears, holes, abrasions, and scuffs; and replaced as needed;
 - b) The hoppers are discharged in a timely manner to prevent excessive particulate buildup which could cause compaction, overflow or plugging;

- c) The cleaning systems are maintained and operated at sufficient intervals to minimize particulate buildup or caking on the filter bags; and
- d) Other miscellaneous items/equipment essential for the effective operation of the baghouses are maintained.

3) The baghouses shall be operated at all times during boiler operations.

- d. The equipment listed in **Section A** of this attachment shall be properly maintained and kept in good operating condition at all times with scheduled inspections and maintenance as recommended by the manufacturer or as needed to meet the emission limits as shown in Attachment IIA, Special Condition No. C.9.

(Auth.: HAR §11-60.1-3, §11-60.1-5, HAR §11-60.1-38, §11-60.1-90, §11-60.1-161; 40 CFR §60.42a, 40 CFR §60.43a, 40 CFR §68)¹

6. Ammonia Storage Tank

The 25,000 gallon anhydrous ammonia storage tank associated with the Thermal DeNO_x system shall be pressurized and equipped with an over pressure detection system. The filling of ammonia into the storage tank shall be done under a closed system where the displaced vapors from the storage tank are routed back to the delivery vessel.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §68)¹

7. Fugitive Particulate Emissions

- a. The permittee shall take measures to control fugitive dust (e.g., wet suppression, enclosures, etc.) at all material transfer points, stockpiles, and throughout the workyard. The Department of Health may at any time require the permittee to further abate fugitive dust emissions if an inspection indicates poor or insufficient control.
- b. The permittee shall not cause or permit fugitive dust to become airborne without taking reasonable precautions and shall not cause or permit the discharge of visible emissions or fugitive dust beyond the lot line of the property on which the emissions originate.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-33, §11-60.1-90)

8. Opacity of Stack Emissions

The permittee shall not cause the discharge into the atmosphere emissions from the boilers' stack exhibiting an opacity of twenty (20) percent or greater (six-minute average), except for one six (6) minute period per hour of not more than twenty-seven (27) percent opacity.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90, 40 CFR §60.42a)¹

9. Maximum Emission Limits

The permittee shall not discharge or cause the discharge into the atmosphere from the stack of the boilers, air pollutant emissions in excess of the following specified limits except during startup, shutdown, malfunction, and emergency conditions (as defined in 40 CFR 60.41a):

Compound	Maximum Emission Limits ¹			
	lb/hr	lb/mmBtu	ppmvd @ 15%O ₂	gr/dscf @ 12% CO ₂ , dry
SO ₂	645.0	1.2	48	--
NO _x baseload ²	236.5	0.5	25	--
NO _x low load ^{2,3}	236.5	0.5	59	--
CO	408.4	--	70	--
VOC ⁴	32.2	--	3.5	--
Lead (Pb)	5.7	--	--	1.2E-3
PM/PM ₁₀ ⁵	32.2	0.03	--	7.0E-3
Fluorides	0.20	9.3E-5	--	--
Mercury	0.17	8.1E-5	--	--
Beryllium	0.067	3.1E-5	--	--
Sulfuric Acid Mist	4.10	1.9E-3	--	--

- ^{1.} 3-hour average with standard conditions assumed to be 68°F and 29.92 inches Hg. Stack concentrations assumed to be 5% H₂O, 6.5% O₂ and 12% CO₂. Stack temperature at outlet is 265°F and stack pressure at outlet is atmospheric (29.92 inches Hg).
- ^{2.} Molecular weight of NO_x taken to be that of NO₂ (46).
- ^{3.} Low load is an individual boiler heat input of less than 450 mmBtu/hr.
- ^{4.} Molecular weight of VOC taken to be that of propane (44).
- ^{5.} PM₁₀ emission rate assumed to be 100% of the total particulate matter (TSP) emission rate.

(Auth.: HAR §11-60.1-3, HAR §11-60.1-5, HAR §11-60.1-38, §11-60.1-90, §11-60.1-161; 40 CFR §60.42a, 40 CFR §60.43a, 40 CFR §60.44a)¹

Section D. Monitoring and Recordkeeping Requirements

1. Fuel Monitoring & Recordkeeping

a. The sulfur content of the coal fired in the boilers shall be tested in accordance with the most current American Society for Testing and Materials (ASTM) methods. The sulfur content of the coal shall be verified by both of the following methods:

- 1) A representative sample of the coal used by the boilers shall be analyzed for its sulfur content by weight **at least once a month**; and
- 2) A certificate of analysis on the sulfur content of the coal shall be obtained from the respective suppliers **upon delivery of shipments**.

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

b. The permittee shall operate and maintain individual fuel measurement systems for the continuous measurement and recording of the amount of coal and TDF being fired in the boilers.

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

c. The permittee shall operate and maintain a non-resetting flow meter for the continuous measurement and recording of the amount of spec used oil being fired in the boilers. Monthly records shall be kept of the beginning meter readings and the total fuel usage. Monthly fuel summaries shall include the monthly total fuel usage and the total fuel used based on a 12-month rolling basis.

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

2. Total Fuel Usage and Specification

Fuel delivery receipts shall be maintained, showing the supplier, fuel type, sulfur content (percent by weight), date of delivery, and amount (in gallons) of fuel oil no. 2 delivered to the facility.

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

3. Baghouses

The permittee shall operate and maintain pressure drop meters on each baghouse for continuous reading during operation. The permittee shall monitor these meters at least once daily during operation.

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

4. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on the equipment listed in **Section A** of this attachment. 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)

5. Continuous Emission Monitoring Systems (CEMS)

The permittee shall operate, maintain, and calibrate CEMS at the boilers' exhaust streams to measure opacity, NO_x (as NO₂), SO₂, and CO₂ or O₂ concentrations in the flue gas as follows:

- a. The CEMS shall be operated and data recorded during all periods of operation including periods of startup, shutdown, malfunction, or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.47a(e))¹

- b. Emissions data shall be obtained for at least 18 hours in at least 22 out of 30 successive boiler operating days. At least two data points must be used to calculate the 1-hr averages. If this minimum data requirement cannot be met with a CEMS, the permittee shall supplement emission data with other monitoring systems as approved by the DOH or the following:

- 1) For SO₂, EPA Reference Method 6, 6A, 6B, or 6C shall be used as specified in 40 CFR 60.47a(h) and (j);
- 2) For NO_x, EPA Reference Method 7, 7A, 7C, 7D or 7E shall be used as specified in 40 CFR 60.47a(h) and (j);
- 3) For O₂ or CO₂, EPA Reference Method 3, 3A, or 3B shall be used as specified in 40 CFR 60.47a(h) and (j); and
- 4) To compute each 1-hr average concentration in lb/MMBtu, EPA Reference Method 19 shall be used.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.47a(f), (g), and (h))¹

c. During each performance evaluation and calibration check for the CEMS, the following methods shall be used:

- 1) For SO₂, EPA Reference Method 6, 6A, 6B, or 6C shall be used as specified in 40 CFR §60.47a(j);
- 2) For NO_x, EPA Reference Method 7, 7A, 7C, 7D or 7E shall be used as specified in 40 CFR §60.47a(j); and
- 3) For O₂ or CO₂, EPA Reference Method 3, 3A, or 3B shall be used as specified in 40 CFR §60.47a(j).

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.47a(i) and (j))¹

d. The 1-hour averages for SO₂ and NO_x shall be expressed in pounds per hour (lb/hr) and pounds per million Btu (lb/MMBtu). All 6-minute average opacity readings shall be expressed in percent. Sulfur reduction shall be recorded in percent efficiency.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.47a)¹

e. The procedures under 40 CFR §60.13 shall be followed for installation, evaluation, and operation of the CEMS.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.13, 40 CFR §60.47a)¹

f. Quarterly accuracy audits and daily calibration drift tests shall be performed in accordance with 40 CFR Part 60, Appendix F. Successive quarterly audits shall occur no closer than two months. RATA must be conducted at least once every four calendar quarters.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.13, 40 CFR §60.47a)¹

g. The permittee shall maintain records of all measurements and monitoring data, including the CEMS performance evaluations; calibration checks; and adjustments and maintenance performed on the system or devices and all other information required to be recorded by 40 CFR §60.13 in a permanent form suitable for inspection.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.13, 40 CFR §60.47a)¹

6. 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, §11-60.1-5, §11-60.1-11, §11-60.1-90, SIP §11-60-15)²

Section E. Notification and Reporting Requirements

1. Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Conditions Nos. 16, 17 and 25, respectively:
 - a. *Intent to shut down air pollution control equipment for necessary scheduled maintenance;*
 - b. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and*
 - c. *Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.*

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

2. Deviations

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

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

3. 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 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 an authorized representative.***

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)

4. Semi-Annual Reports

a. The permittee shall submit summary reports as required by NSPS Subpart Da - 40 CFR 60.49a (submitted by August 1 and February 1 following the first calendar half and second calendar half, respectively) which includes the following:

- 1) Results of the annual source performance tests and RATAs.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.49a(a))¹

- 2) SO₂ and NO_x information for each 24-hr period

- a) Calendar date;
- b) The average SO₂ and NO_x emission rates (lb/MMBtu) for each 30 successive boiler operating days, reasons for non-compliance with the emission standards, and description of corrective actions taken;
- c) Percent reduction of the potential combustion concentration of SO₂;
- d) Identification of the boiler operating days for which pollutant or diluent data have not been obtained by an approved method for at least 18 hours of operation of the facility, justification for not obtaining sufficient data, and description of corrective actions taken;
- e) Identification of the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, malfunction (NO_x only), emergency conditions (SO₂ only), or other reasons, and justification for excluding data for reasons other than startup, shutdown, malfunction, or emergency conditions;

- f) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
- g) Identification of the times when hourly averages have been obtained based on manual sampling methods;
- h) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system; and
- i) Description of any modifications to the CEMS which would affect the ability of the CEMS to comply with the Performance Specifications 2 or 3.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.49a(b))¹

- 3) If the minimum quantity of emission data is not obtained for any 30 successive boiler operating days (as required by Attachment IIA, Special Condition No. D.5.b.), the following information obtained using the applicable procedures in section 7 of Method 19 for that 30-day period:
 - a) The number of hourly averages available for outlet emission rates (n_o) and inlet emission rates (n_i) as applicable;
 - b) The standard deviation of hourly averages for outlet emission rates (s_o) and inlet emission rates (s_i) as applicable;
 - c) The lower confidence limit for the mean outlet emission rates (E_o^*) and the upper confidence limit for the mean inlet emission rate (E_i^*) as applicable;
 - d) The applicable potential combustion concentration; and
 - e) The ratio of the upper confidence limit for the mean outlet emission rate (E_o^*) and the allowable emission rate (E_{std}) as applicable.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.49a(c))¹

- 4) If any SO₂ emissions are exceeded during emergency conditions because of control system malfunction, the permittee shall submit a signed statement indicating if emergency conditions existed and requirements under 40 CFR 46a(d) were met during each period and listing the following information;
 - a) Time periods the emergency condition existed;
 - b) Electrical output and demand on the utility system;
 - c) Amount of power purchased from interconnected neighboring utility companies during the emergency period;
 - d) Percent reduction in emissions achieved;
 - e) Atmospheric emission rate (lb/MMBtu) of SO₂ discharged; and
 - f) Actions taken to correct control system malfunction.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.49a(d))¹

- 5) For any periods for which opacity, SO₂, or NO_x emissions data are not available, the permittee shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and boilers during periods of data unavailability are to be compared with operation of the control system and boiler before and following the period of data unavailability.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.49a(f))¹

- 6) The permittee shall submit a signed statement whether:
- The required CEMS calibration, span, and drift checks or other periodic audits have or have not been performed as specified;
 - The data used to show compliance was or was not obtained in accordance with approved methods and procedures and is representative of plant performance;
 - The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable; and
 - Compliance with the standards has or has not been achieved during the reporting period.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.49a(g))¹

- 7) The permittee shall submit all 6-minute periods during which the average opacity exceeds the opacity standards in Attachment IIA, Special Condition No. C.8. The information shall include the dates and percent opacity of those periods.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.49a(h))¹

b. Excess Emissions

The permittee shall submit a written report of all excess emissions to the Department of Health **semi-annually** (submitted by August 1 and February 1 following the first calendar half and second calendar half, respectively) which includes the following:

- The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any concurrent data, any conversion factors used, the date and time of commencement and completion of each time period of excess emissions, and corrective actions taken.
- Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the boiler(s). The nature and cause of any malfunction (if known) and the corrective action taken or preventative measures adopted, shall also be reported.

- 3) The date and time identifying each period during which CEMS was inoperable except for zero and span checks. The nature of each system repair or adjustment shall be described.
- 4) The report shall so state if no excess emissions have occurred. Also, the report shall so state if the CEMS operated properly during the period and was not subject to any repairs or adjustments except for zero and span checks.
- 5) For purposes of this Covered Source Permit, excess emissions shall be defined as follows:
 - a) Any three (3)-hour period during which the average emissions of NO_x and SO₂, as measured by the continuous monitoring system, exceed the emission limits set forth in Attachment IIA, Special Condition No. C.9.
 - b) Any opacity measurements, as measured by the transmissometer continuous monitoring system exceeding the opacity limits and corresponding averaging times set forth in Attachment IIA, Special Condition No. C.8.
- 6) The enclosed **Excess Emission and Monitoring System Performance Summary Report** shall be used in conjunction to the reporting of excess emissions of NO_x, SO₂, and opacity.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-32, §11-60.1-38, §11-60.1-90, §11-60.1-161; SIP§11-60-15, §11-60-24; 40 CFR 60.47a, 60.48a, 60.49a)^{1,2}

c. Fuel Monitoring Reports

The permittee shall submit **semi-annually**, the attached *Monitoring Report Forms: Fuel Usage/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)

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/Dryers*, 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)

Section F. Testing Requirements

1. On an annual basis or at other such times as may be specified by the Department, the permittee shall conduct or cause to be conducted source performance tests on the boilers for opacity, NO_x as (NO₂), SO₂, volatile organic compounds (VOC), carbon monoxide (CO), lead (Pb), particulate matter (PM), fluorides (Fl), mercury (Hg), beryllium (Be) and sulfuric acid mist. The following test methods (referenced in Appendix A of 40 CFR, Part 60.8) or U.S. EPA-approved equivalent methods with prior written approval from the Department of Health shall be used:
 - a. Method 9 for opacity;
 - b. Methods 1-4 and 19 for the emissions of NO_x;
 - c. Methods 1-4 and 6 for the emissions of SO₂;
 - d. Methods 1-4 and 25 for the emissions of VOC;
 - e. Methods 1-4 and 10 for the emissions of CO;
 - f. Methods 1-4 and 12 for the emissions of Pb;
 - g. Methods 1-4 and 5 for the emissions of PM;
 - h. Methods 1-4 and 13b for the emissions of Fl;
 - i. Methods 1-4 and 101 for the emissions of Hg;
 - j. Methods 1-4 and 103 for the emissions of Be; and
 - k. Methods 1-4 and 8 for the emissions of Sulfuric Acid Mist.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; SIP§11-60.-15; 40 CFR 60.47a)^{1, 2}

2. Note that Method 1 cannot be used under the following conditions:
 - a. Cyclonic or swirling gas flow at the sampling location;
 - b. Stack or duct with a diameter less than 12 inches or a cross-sectional area less than 113 square inches; or
 - c. Sampling location less than two stack or duct diameters downstream or less than a half diameter upstream from a flow disturbance.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR 60, App. A, Meth. 1)¹

3. Each source performance test shall consist of three (3) separate runs using the applicable test method. For the purpose of determining compliance with the applicable regulation, the arithmetic mean of the results from the three (3) runs shall apply.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; SIP§11-60.-15; 40 CFR 60.8)^{1, 2}

4. The source performance tests shall be conducted at the maximum expected operating capacity of the boilers.

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

5. The permittee, at its own expense, shall be responsible for installing, providing and maintaining the necessary ports in stacks or ducts and such other safe and proper sampling and testing facilities as may be necessary for the determination of the air pollutant emissions. The Department of Health may monitor any of the required source performance tests.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP§11-60-15)²

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

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP§11-60.-15)²

7. **Within sixty (60) days after completion of the source performance test**, the permittee shall submit to the Department of Health and U.S. EPA Regional Administrator, the test report which shall include the operating conditions of the equipment at the time of the test, the analysis of the fuel, the summarized test results, comparative results with the permit emission limits, and other pertinent field and laboratory data.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR 60.48a, 60.49a; SIP§11-60-15)^{1, 2}

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

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

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

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

Section G. Agency Notification

Any document (including reports) required to be submitted by this Covered Source Permit shall be in accordance with Attachment I, Standard Conditions, Condition 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹ 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.

² 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 IIB: SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0087-02-C
COAL PROCESSING**

[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. Attachment IIB of the Covered Source Permit encompasses the following equipment and associated appurtenances:

275 tph Coal Processing Equipment:

- a. Overland Coal Conveyor;
- b. Two (2) Coal Lowering Wells;
- c. Three (3) Coal Conveyors;
- d. Coal Reclaim Hopper;
- e. 275 tph Coal Crusher;
- f. Four (4) Coal Storage Silos; and
- g. Mikro-Pulsaire Baghouse for the Coal Crusher (model no. 64S-8-40 "C", serial no. 1CHD-DCO-1)

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or name plate on each piece of equipment which identifies the model number, serial or I.D. number and manufacturer. The identification tag or nameplate shall be attached to all equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. This equipment is subject to the provisions of the following sections of 40 CFR Part 60, Standards of Performance for New Stationary Sources:
 - a. Subpart A - General Provisions
 - b. Subpart Y - Standards of Performance for Coal Preparation Plants

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

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.1, 40 CFR §60.250)¹

Section C. Operational and Emission Limitations

1. Air Pollution Control Equipment

A baghouse shall be used to meet the particulate matter emission limit (3-hour average) as shown in Attachment IIB, Special Condition No. C.2.

- a. The pressure drop across the baghouse shall be maintained at 1" to 7" H₂O.
- b. The permittee shall follow a regular maintenance schedule to ensure the following items of the baghouses are operating properly:
 - 1) The filter bags are checked for any tears, holes, abrasions, and scuffs; and replaced as needed;
 - 2) The hoppers are discharged in a timely manner to prevent excessive particulate buildup which could cause compaction, overflow or plugging;
 - 3) The cleaning systems are maintained and operated at sufficient intervals to minimize particulate buildup or caking on the filter bags; and
 - 4) Other miscellaneous items/equipment essential for the effective operation of the baghouses are maintained.
- c. The baghouse shall be operated at all times during coal crushing operations.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-37, §11-60.1-90, §11-60.1-161, 40 CFR 60.252)¹

2. Emission Limitations

The permittee shall not discharge or cause the discharge into the atmosphere:

- a. From the baghouse servicing the coal crushing operations, particulate matter in excess of 0.3 lb/hr (3-hour average).
- b. From the baghouse servicing the coal crushing operations, opacity of seven percent or greater (six-minute average).

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-32, §11-60.1-33, §11-60.1-90, §11-60.1-161, 40 CFR 60.252)¹

3. Fugitive Particulate Emissions

- a. The permittee shall take measures to control fugitive dust (e.g., wet suppression, enclosures, etc.) at all material transfer points, stockpiles, and throughout the workyard. The Department of Health may at any time require the permittee to further abate fugitive dust emissions if an inspection indicates poor or insufficient control.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

- b. The permittee shall not cause or permit fugitive dust to become airborne without taking reasonable precautions and shall not cause or permit the discharge of visible emissions or fugitive dust beyond the lot line of the property on which the emissions originate.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

4. Alternate Operating Scenarios

- a. Terms and conditions for a reasonably anticipated operating scenario identified by the permittee in the covered source permit application and approved by the Department of Health is to use haul trucks to transport coal into the facility in lieu of the covered overland conveyor.
- 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 submit a written notification to the Department of Health, **within five (5) working days**, the date and expected duration of the operating scenario.
- c. 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 D. Monitoring and Recordkeeping Requirements

1. The permittee shall operate and maintain pressure drop meters on each baghouse for continuous reading during operation. The permittee shall monitor these meters at least once daily during operation.

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

2. Visible Emissions (V.E.)

- a. The permittee shall conduct **monthly** (*calendar month*) V.E. observations for each equipment subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. For the monthly observation for each equipment, 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. Annual V.E. observation requirements for each equipment subject to opacity limits shall be satisfied with the annual source performance testing or waiver covered in **Section F**.

(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 equipment listed in **Section A** of this attachment. 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. 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 E. Notification and Reporting Requirements

1. Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Conditions Nos. 16, 17 and 25, respectively:
 - a. *Intent to shut down air pollution control equipment for necessary scheduled maintenance;*

- b. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and*
- c. *Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.*

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

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 additional stack testing, or more frequent 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. 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 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 an authorized representative.*

- 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)

4. 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/Dryers*, shall satisfy the requirement for annual emissions reporting.
- 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)

Section F. Testing Requirements

1. On an annual basis or at other such times as may be specified by the Department, the permittee shall conduct or cause to be conducted source performance tests on the baghouse for opacity. Method 9 (referenced in Appendix A of 40 CFR, Part 60.8) or U.S. EPA-approved equivalent methods with prior written approval from the Department of Health shall be used.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR §60.254)¹

2. Each source performance test shall consist of three (3) separate runs using the applicable test method. For the purpose of determining compliance with the applicable regulation, the arithmetic mean of the results from the three (3) runs shall apply.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; SIP§11-60.-15; 40 CFR 60.8)^{1, 2}

3. The source performance tests shall be conducted at the maximum expected operating capacity of the coal processing equipment. The Department of Health may monitor any of the required tests.

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

4. **At least 30 calendar days prior to performing a source performance test**, the permittee shall submit a written source performance test plan to the Department of Health that describes the test date(s), duration, locations, test methods, source operation, fuel consumption, and other parameters that may affect test results. Such a plan shall conform

to U.S. EPA guidelines including quality assurance procedures. A test plan or quality assurance plan that does not have the approval of the Department of Health may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP§11-60.-15)²

5. **Within sixty (60) days after completion of the source performance test**, the permittee shall submit to the Department of Health and U.S. EPA Regional Administrator, the test report which shall include the operating conditions of the equipment at the time of the test, the analysis of the fuel, the summarized test results, comparative results with the permit emission limits, and other pertinent field and laboratory data.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, SIP§11-60-15)²

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

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

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

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

Section G. Agency Notification

Any document (including reports) required to be submitted by this Covered Source Permit shall be in accordance with Attachment I, Standard Conditions, Condition 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹ 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.

² 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 IIC: SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0087-02-C
LIMESTONE PROCESSING**

[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. Attachment IIC of the Covered Source Permit encompasses the following equipment and associated appurtenances:

One (1) Limestone storage hopper with two (2) Complete Micron Powder Systems Limestone Processing Systems each with a maximum feed rate of 22 tph and each consisting of the following equipment:

- a. Limestone Feeder;
- b. 4.75 MMBtu/hr limestone dryer (1A and 1B total);
- c. Mikro pulverizer (model no. 300 ACM);
- d. Mikro-Pulsaire baghouse (model no. 420S-10-50 "C", serial nos. 1BMC-BGH-1A and 1BMC-BGH-1B); and
- e. Conveyors.

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or nameplate on each piece of equipment which identifies the model number, serial or I.D. number and manufacturer. The identification tag or nameplate shall be attached to the equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. This equipment is subject to the provisions of the following sections of 40 CFR Part 60, Standards of Performance for New Stationary Sources:

- a. Subpart A - General Provisions
- b. Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants

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

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.1, 40 CFR §60.670)¹

Section C. Operational and Emission Limitations

1. Limestone Dryers

- a. The limestone dryers shall be fired on fuel oil no. 2 with a maximum fuel sulfur content not to exceed 0.5 percent by weight, or specification (spec) used oil as allowed in Attachment IIC, Special Condition No. B.1.b., or any combination thereof.
- b. Spec Used Oil
 - 1) The limestone dryers may also be fired on spec used oil such that the total usage does not exceed 250,000 gallons in any rolling 12-month period.
 - 2) The permit conditions prescribed herein may at any time be revised by the Department of Health to reflect federal or state promulgated rules on used oil.
 - 3) 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.
 - 4) The used oil shall be obtained only from Unitek Solvent Services, Inc.; Phillips Services; and sources within AES Hawaii, Inc. Used oil may 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.
 - 5) Samples of the used oil generated from the facility shall be taken from the holding tanks or drums, and composited and analyzed for compliance with the limits in Attachment IIC, Special Condition No.C.1.b.9) prior to being emptied into the reclaim tank and burned. These samples shall be taken in such a manner that the composite sample is representative of all of the used oil generated by the facility for that period of time. The composite sample shall represent no more than 5,000 gallons of used oil or all of the used oil collected in any three (3) month period, whichever is less.
 - 6) Each composite sample shall be submitted in a timely manner to a qualified laboratory and an analysis obtained for the constituents/properties for which limits are given in Attachment IIC, Special Condition No. C.1.b.9).
 - 7) An analysis report shall be obtained for the constituents/properties for which limits are given in Attachment IIC, Special Condition No. C.1.b.9) for each delivery of spec used oil.
 - 8) 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.

- 9) The following constituents/properties of the spec used oil shall not exceed the specified units 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

- 10) 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 IIC, Special Condition No. C.1.b.9) is allowable only for spec used oil that were not deemed hazardous.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-140, 40 CFR §279.11)

2. Air Pollution Control Equipment

Baghouses shall be used to meet the particulate matter emission limit (3-hour average) as shown in Attachment IIC, Special Condition No. C.3.

- a. The pressure drop across the baghouses shall be maintained at 1" to 7" H₂O.
- b. The permittee shall follow a regular maintenance schedule to ensure the following items of the baghouses are operating properly:
 - 1) The filter bags are checked for any tears, holes, abrasions, and scuffs; and replaced as needed;
 - 2) The hoppers are discharged in a timely manner to prevent excessive particulate buildup which could cause compaction, overflow or plugging;
 - 3) The cleaning systems are maintained and operated at sufficient intervals to minimize particulate buildup or caking on the filter bags; and
 - 4) Other miscellaneous items/equipment essential for the effective operation of the baghouses are maintained.
- c. The baghouse shall be operated at all times during limestone processing.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

3. Emission Limits

From the baghouses servicing the limestone dryers and pulverizers, the permittee shall not exceed the following emission limitations:

Compound	Maximum Emission Limits (lb/hr) (3-hr average)
Particulate Matter	0.04
Sulfur Dioxides	4.8
Nitrogen Oxides	1.4

(Auth.: HAR §11-60.1-5, §11-60.1-90)

4. For any six (6) minute averaging period, each baghouse shall not exhibit visible emissions of greater than seven (7) percent opacity.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90; SIP§11-60-24; 40 CFR §60.670)^{1,2}

5. Fugitive Particulate Emissions

- a. The permittee shall take measures to control fugitive dust (e.g., wet suppression, enclosures, etc.) at all material transfer points, stockpiles, and throughout the workyard. The Department of Health may at any time require the permittee to further abate fugitive dust emissions if an inspection indicates poor or insufficient control.
- b. The permittee shall not cause or permit fugitive dust to become airborne without taking reasonable precautions and shall not cause or permit the discharge of visible emissions or fugitive dust beyond the lot line of the property on which the emissions originate.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

Section D. Monitoring and Recordkeeping Requirements

1. Limestone Dryers

a. Fuel Monitoring

The permittee shall, operate and maintain a non-resetting fuel meter on the limestone dryers for the permanent recording of the total usage of spec used oil. Monthly records shall be kept of the beginning meter readings and the total spec used oil usage. Monthly fuel summaries shall include the monthly total spec used oil usage and the total fuel used based on a 12-month rolling basis.

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

b. Total Fuel Usage and Specification

Fuel delivery receipts shall be maintained, showing the supplier, fuel type, sulfur content (percent by weight), date of delivery, and amount (in gallons) of fuel delivered to the facility for subsequent transfer to the limestone dryers covered under this permit.

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

2. The permittee shall operate and maintain pressure drop meters on each baghouse for continuous reading during operation. The permittee shall monitor these meters at least once daily during operation.

(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 equipment listed in **Section A.** of this attachment. 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 equipment subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. For the monthly observation for each equipment, 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 equipment subject to opacity limits by a certified reader in accordance with Method 9. For the annual observation for each equipment, 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 annual V.E. observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior V.E. observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous annual V.E. 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, §11-60.1-5, §11-60.1-11, §11-60.1-90, SIP §11-60-15)²

Section E. Notification and Reporting Requirements

1. Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Conditions Nos. 16, 17 and 25, respectively:
 - a. *Intent to shut down air pollution control equipment for necessary scheduled maintenance;*
 - b. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and*
 - c. *Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.*

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

2. Deviations

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

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

3. 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 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 an authorized representative.*
- 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)

4. Fuel Monitoring Reports

The permittee shall submit **semi-annually**, the attached *Monitoring Report Forms: Fuel Usage/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)

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/Dryers*, shall satisfy the requirements for annual emissions reporting.*
- 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)

Section F. Testing Requirements

1. On an annual basis or at other such times as may be specified by the Department, the permittee shall conduct or cause to be conducted source performance tests on the baghouses for opacity. Method 9 (referenced in Appendix A of 40 CFR, Part 60.8) or U.S. EPA-approved equivalent methods with prior written approval from the Department of Health shall be used.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR §60.675)¹

2. Each source performance test shall consist of three (3) separate runs using the applicable test method. For the purpose of determining compliance with the applicable regulation, the arithmetic mean of the results from the three (3) runs shall apply.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; SIP§11-60.-15; 40 CFR 60.8)^{1, 2}

3. The source performance test shall be conducted at the maximum expected operating capacity of the limestone processing equipment. The Department of Health may monitor any of the required source performance test .

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

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

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP§11-60.-15)²

5. **Within sixty (60) days after completion of the source performance test** , the permittee shall submit to the Department of Health and U.S. EPA Regional Administrator, the test report which shall include the operating conditions of the equipment at the time of the test, the analysis of the fuel, the summarized test results, comparative results with the permit emission limits, and other pertinent field and laboratory data.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, SIP§11-60-15)²

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

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

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

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

8. Although stack tests for particulate matter, sulfur dioxide, and nitrogen dioxide are not required at this time, the Department of Health reserves the right to require, at any time, a source performance test (s) to be performed for the baghouses in Attachment IIB.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP§11-60-15)²

Section G. Agency Notification

Any document (including reports) required to be submitted by this Covered Source Permit shall be in accordance with Attachment I, Standard Conditions, Condition 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹ 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.

² 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
COVERED SOURCE PERMIT NO. 0087-02-C
COOLING TOWER**

[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. Attachment IID of the Covered Source Permit encompasses the following equipment and associated appurtenances:

One (1) GEA Integrated Cooling Technologies, Inc. five-cell cooling tower (model no. 545438-5I-32FCF, fiberglass counter flow, maximum water circulating rate is 104,000 gal/min, maximum drift rate is 0.002%)

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or nameplate on each piece of equipment which identifies the model number, serial or I.D. number and manufacturer. The identification tag or nameplate shall be attached to the equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Operational and Emission Limitations

1. Chromium-containing water treatment chemicals shall not be used in to the cooling tower.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-180; 40 CFR 63.402)¹

2. The design circulating rate of the cooling tower shall not exceed 104,000 gallons per minute (gal/min).

(Auth.: HAR §11-60.1-5, §11-60.1-90)

3. The cooling tower maximum drift loss shall not exceed 0.002% of the total circulating rate of the water.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

4. The cooling tower circulating water shall not contain the following:

- a. Total dissolved solids in excess of 44,000 mg/l; and
- b. Chlorine in excess of 1 mg/l.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

Section C. Monitoring and Recordkeeping Requirements

1. Manufacturer's data on the design total drift rate and maximum design circulating flow rate of the cooling tower shall be kept on file at the facility for the life of the equipment.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

2. Records shall be maintained on the type and quantities of water treatment chemicals used in the cooling tower on a monthly basis. All Material Safety Data Sheets (MSDSs) associated with each chemical shall be maintained on site and made available for Department of Health's inspection upon request.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

3. The cooling tower blowdown water shall be analyzed monthly for the following:

- a. Total dissolved solids; and
- b. Chlorine

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

4. An on-site log shall be kept of the cooling tower blowdown water analysis test results.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

5. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on the cooling tower. 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)

6. The Department of Health at any time may require the permittee to conduct water sample analysis for chromium based water treatment chemicals.

(Auth.: HAR §11-60.1-5, §11-60.1-90, 40 CFR 63.404)

7. 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 25, 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; SIP §11-60-10, §11-60-16)^{1, 2}

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 additional stack testing, or more frequent 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 *Annual Emissions / Monitoring Report Form: Cooling Tower* 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, *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:
- 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 an authorized representative.*
- 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 Emissions / Monitoring Report Form: Cooling Tower*, shall be used.
- 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)

Section E. Agency Notification

Any document (including reports) required to be submitted by this Covered Source Permit shall be in accordance with Attachment I, Standard Conditions, Condition 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹ 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.

² 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 IIE: SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0087-02-C
ASH HANDLING**

[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. Attachment IIE of the Covered Source Permit encompasses the following equipment and associated appurtenances:

Ash Handling Equipment

- a. Fly Ash Reinjection Surge Hopper;
- b. Bed Ash Hopper;
- c. One (1) Fly Ash Silo;
- d. One (1) Bed Ash Silo; and
- e. Aggregate Mixer

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or nameplate on each piece of equipment which identifies the model number, serial or I.D. number and manufacturer. The identification tag or nameplate shall be attached to all equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Operational and Emission Limitations

1. Emissions Limitations

The permittee shall not discharge or cause the discharge into the atmosphere:

- a. From the ash handling operations, particulate matter in excess of 31.9 lb/hr (3-hour average).
- b. Emissions from the ash handling operations exhibiting an opacity of twenty percent or greater (six-minute average).

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-37, §11-60.1-90)

2. Fugitive Particulate Emissions

- a. The permittee shall take measures to control fugitive dust (e.g., wet suppression, enclosures, etc.) at all material transfer points, stockpiles, and throughout the workyard.

The Department of Health may at any time require the permittee to further abate fugitive dust emissions if an inspection indicates poor or insufficient control.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

- b. The permittee shall not cause or permit fugitive dust to become airborne without taking reasonable precautions and shall not cause or permit the discharge of visible emissions or fugitive dust beyond the lot line of the property on which the emissions originate.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90)

Section C. Monitoring and Recordkeeping Requirements

1. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on the equipment listed in **Section A** of this attachment. 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)

2. 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 Conditions 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 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; SIP §11-60-10, §11-60-16)²

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 additional stack testing, or more frequent 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. 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 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 an authorized representative.*
- 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)

Section E. Testing Requirements

Although a stack test or opacity test is not required at this time, the Department of Health reserves the right to require, at any time, a stack test or opacity test to be performed for these sources.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90, SIP §11-60.1-15)²

Section F. Agency Notification

Any document (including reports) required to be submitted by this Covered Source Permit shall be in accordance with Attachment I, Standard Conditions, Condition 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹ 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.

² 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 IIF: SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0087-02-C
STORAGE TANKS**

[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. Attachment IIF of the Covered Source Permit encompasses the following equipment and associated appurtenances:

60,000 gallons (230.7 m³) Above Ground Storage Tank:

- a. Storing fuel oil no. 2;
- b. Dimensions are: 18 ft. high and 24 ft. in diameter; and
- c. Tank Characteristics are: cone roof, white shell, and vertical fixed-roof

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or nameplate on each piece of equipment which identifies the model number, serial or I.D. number and manufacturer. The identification tag or nameplate shall be attached to the equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. This equipment is subject to the provisions of the following section of 40 CFR Part 60, Standards of Performance for New Stationary Sources:

Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 (specifically 40 CFR §60.116b - Monitoring of Operations).

2. The storage tank is exempt from the remaining sections of Subpart Kb due to the type of fuel stored in the tank. Should there be any relaxation in this restriction by storing any volatile organic liquid (VOL) with a true vapor pressure greater than or equal to 3.5 kPa, the petroleum storage tank will be subject to all applicable requirements of Subpart Kb, including all notification, monitoring and reporting requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.110b and §60.116b)¹

Section C. Operational and Emission Limitations

Only fuel oil no. 2 shall be stored in the tank.

(Auth.: HAR §11-60.1-5, §11-60.1-39, §11-60.1-90, §11-60.1-161; 40 CFR 60.110b)¹

Section D. Monitoring and Recordkeeping Requirements

1. Records showing the dimensions (meters) and capacity (cubic meters) of the storage tank shall be maintained on-site for the life of the storage tank.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR 60.116b(b); SIP§11-60-15)^{1,2}

2. Records shall be maintained on the type of fuel stored in the tank, the period of storage and the maximum true vapor pressure (kPa) of the fuel stored during the respective storage period. Determination of the maximum true vapor pressure shall be in accordance with 40 CFR Part 60, Section 116b(e).

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR 60.116b; SIP§11-60-15)^{1,2}

3. 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 E. Notification and Reporting Requirements

1. Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Conditions 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 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; SIP §11-60-10, §11-60-16)²

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 additional stack testing, or more frequent 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 Form: Storage Tanks* 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, *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:

- 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 an authorized representative.*

- 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)

Section F. Agency Notification

Any document (including reports) required to be submitted by this Covered Source Permit shall be in accordance with Attachment I, Standard Conditions, Condition 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹ 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.

² 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 III: ANNUAL FEE REQUIREMENTS
COVERED SOURCE PERMIT NO. 0087-02-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 submitted on forms furnished by the State of Hawaii 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. 0087-02-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 Hawaii Department of Health the nature and amounts of emissions.

1. Complete the attached **Annual Emissions Report Form: Boilers/Dryers; and Annual Emissions/Monitoring Report Form: Cooling Tower**.
2. The reporting period shall be from January 1 to December 31 of each year. All reports shall be submitted to the State of Hawaii 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 State of Hawaii Department of Health upon request.
4. Any information submitted to the State of Hawaii 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
(CONTINUED, PAGE 2 OF 2)**

c. If NO, explain.

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.):

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.)

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:

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

**MONITORING REPORT FORM
FUEL USAGE/CERTIFICATION
COVERED SOURCE PERMIT NO. 0087-02-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:

Boilers

1. Report the maximum sulfur content (percent by weight) of the coal and fuel oil no. 2 during this period. Coal _____% Fuel oil no. 2 _____%
2. Report the maximum feed rate (ton/hr) of TDF during this period.
TDF _____ ton/hr
3. Report the maximum feed rate (lb/hr) of coal and/or TDF during this period.
Coal/TDF _____ lb/hr

Limestone Dryers

Report the maximum sulfur content (percent by weight) of the fuel oil no. 2 during this period.
Fuel oil no. 2 _____%

**MONITORING REPORT FORM
SPEC USED OIL
COVERED SOURCE PERMIT NO. 0087-02-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:

Fill out separate forms for the boilers and limestone dryers (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			

**MONITORING REPORT FORM
SPEC USED OIL
(CONTINUED, PAGE 2 OF 2)**

Number of used oil analyses received/performed for this report period: _____

Did any of the used oil analyses indicate exceedances of the permitted limits: YES NO

If Yes, indicate the number of exceedances: _____

Indicate the average of the Used Oil analyses results received/performed:

<u>Constituent/Property</u>	<u>Average Results</u>
Arsenic	_____ ppm by weight
Cadmium	_____ ppm by weight
Chromium	_____ ppm by weight
Lead	_____ ppm by weight
Total Halogens	_____ ppm by weight
Sulfur	_____ % by weight
Flash Point	_____ °F
Polychlorinated Biphenyls (PCB)	_____ ppm by weight

**MONITORING REPORT FORM
STORAGE TANKS
COVERED SOURCE PERMIT NO. 0087-02-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: _____

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): _____

Storage Tanks:

1. Report the type of fuel stored in the 60,000 gallon above ground storage tank during this period. _____
2. Certify that there were no changes to the dimensions of the above ground storage tank.

**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) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals 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.

PROPOSED

**VISIBLE EMISSIONS FORM
STATE OF HAWAII**

(Make Copies for Future Use For Each Equipment)

Permit No.: 0087-02-C

Company Name: _____

Equipment and Fuel: _____

Site Conditions:

Stack height above ground (ft): _____

Stack distance from observer (ft): _____

Emission color (black or white): _____

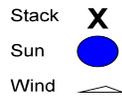
Sky conditions (% cloud cover): _____

Wind speed (mph): _____

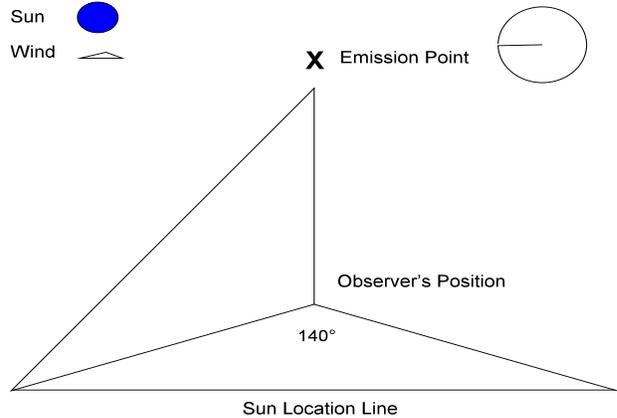
Temperature (°F): _____

Observer Name: _____

Certified? (Yes/No): _____



Draw North Arrow



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 (%):					

**ANNUAL EMISSIONS REPORT FORM
BOILERS/DRYERS
COVERED SOURCE PERMIT NO. 0087-02-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 annually:

(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 x 10⁶)

_____ kilowatt rating

_____ horse-power rating

Type of Fuel Fired	Fuel Usage gal/yr or ton/yr	% Sulfur Content by Weight	Notes

- Types of Fuel:
- Residual Oil: Specify Grade, No. 6, 5, or 4;
 - Distillate Oil (No. 2);
 - Specification (Spec) Used Oil;

- Coal;
- Tire Derived Fuel (TDF);
- If Other, specify.

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

PROPOSED

**ANNUAL EMISSIONS/MONITORING REPORT FORM
COOLING TOWER
COVERED SOURCE PERMIT NO. 0087-02-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): _____

Cooling Tower:

1. Report the maximum total dissolved solids (mg/l) during this period. _____ mg/l
2. Report the maximum chlorine (mg/l) during this period. _____ mg/l
3. Certify that chromium-containing water treatment chemicals were not used during this period.

PROPOSED

**EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE
SUMMARY REPORT
(PAGE 1 OF 2)**

(Make Copies for Future Use)

Facility Name: _____

Equipment Location: _____

Equipment Description: _____

State Permit No.: _____ Condition No.: _____

PSD Permit No.: _____ Condition No.: _____

Code of Federal Regulations (CFR): _____

Pollutant Monitored: _____

From: Date _____ - Time _____

To: Date _____ - Time _____

Emission Limit: _____

Date of Last CEMS Certification/Audit _____

Total Source Operating Time _____

EMISSION DATA SUMMARY

1. Duration (Hours/Periods) of Excess Emissions in Reporting Period due to:
 - a. Start-Up/Shutdown _____
 - b. Cleaning/Soot Blowing _____
 - c. Control Equipment Failure _____
 - d. Process Problems _____
 - e. Other Known Causes _____
 - f. Unknown Causes _____
 - g. Fuel Problems _____

Number of incidents of excess emissions _____

2. Total Duration of Excess Emissions _____

3. Total Duration of Excess Emissions
(% of Total Source Operating Time) _____

CEMS PERFORMANCE SUMMARY

1. CEMS Downtime (Hours/Periods) in Reporting Period Due to:
 - a. Monitor Equipment Malfunctions _____
 - b. Non-Monitor Equipment Malfunctions _____
 - c. Quality Assurance Calibration _____
 - d. Other Known Causes _____
 - e. Unknown Causes _____

Number of incidents of monitor downtime. _____

PROPOSED

EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE

SUMMARY REPORT

(CONTINUED, PAGE 2 OF 2)

- 2. Total CEMS Downtime _____
- 3. Total CEMS Downtime
(% of Total Source Operating Time) _____

CERTIFICATION by Responsible Official

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

Name (Print/Type): _____

Title: _____

(Signature): _____