

PROPOSED

Issue Date

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

11-xxxE CAB
File No. 0641

Mr. Rick Vidgen
CEO
Big Island Carbon, LLC
75-5722 Kuakini Highway
Kailua-Kona, Hawaii 96740

Dear Mr. Vidgen:

Subject: Covered Source Permit (CSP) No. 0641-02-C
Initial Application No. 0641-03
Big Island Carbon, LLC
470 lbs/hour Activated Carbon Facility
Located at: 61-3277 Maluokalani Street, Kawaihae, Hawaii
UTM: Zone 5; 203,440 m E; 2,219,308 m N
Date of Expiration: 5 Years from Issue Date

The subject covered source permit is issued in accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1. The issuance of this permit is based on the plans, specifications, and additional information that you submitted as part of your application on January 18, 2011, and additional information submitted as Amendment 01 on May 18, 2011, Amendment 02 on May 25, 2011, Amendment 03 on July 11, 2011, and Amendment 04 on July 25, 2011. This covered source permit supersedes the noncovered source permit (NSP) no. 0641-01-N issued on March 4, 2011.

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

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

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Mr. Rick Vidgen
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The following forms are enclosed for your use and submittal as required:

Compliance Certification Form
Monitoring/Annual Emissions Report Form: Fuel Certification and Consumption
Monitoring/Annual Emissions Report Form: Diesel Fuel No. 2 Consumption
Monitoring/Annual Emissions Report Form: PM Emissions
Monitoring Report Form: Operating Hours
Monitoring Report Form: Simultaneous Operation
Monitoring Report Form: Material Processed, SCR and PM Controls Use
Monitoring Report Form: Opacity Exceedances

The following are enclosed for your use in monitoring visible emissions:

Visible Emissions Form Requirements, State of Hawaii
Visible Emissions Form

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

Sincerely,

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

GS:smk

Enclosures

c: Ed Yamamoto, EHS, Hilo
CAB Monitoring Section

PROPOSED

ATTACHMENT I: STANDARD CONDITIONS COVERED SOURCE PERMIT NO. 0641-02-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 willfully 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 U.S. Environmental Protection Agency (EPA), Region 9.

(Auth.: HAR §11-60.1-5, §11-60.1-7, §11-60.1-94)

6. The facility covered by this permit shall be constructed and operated in accordance with the application, and any information submitted as part of the application, for the Covered Source Permit. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department of Health, and the permit is amended to allow such deviation.

(Auth.: HAR §11-60.1-2, §11-60.1-4, §11-60.1-82, §11-60.1-84, §11-60.1-90)

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

(Auth.: HAR §11-60.1-5, §11-60.1-82)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-14, §11-60.1-90)

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

(Auth.: HAR §11-60.1-15; SIP §11-60-16)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 the excess emission;
- e. Cause and nature of each excess emission;
- f. Description of the steps taken to remedy the situation, prevent a recurrence, limit the excessive emissions, and assure that the malfunction or breakdown does not interfere with the attainment and maintenance of the National Ambient Air Quality Standards and state ambient air quality standards;
- g. Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and
- h. A statement that the excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

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

(Auth.: HAR §11-60.1-16; SIP §11-60-16)²

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

(Auth.: HAR §11-60.1-14, §11-60.1-90)

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

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

(Auth.: HAR §11-60.1-9, §11-60.1-90)

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

(Auth.: HAR §11-60.1-9, §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

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

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

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

(Auth.: HAR §11-60.1-11, §11-60.1-90)

24. Within thirty (30) days of **permanent discontinuance of the construction, modification, relocation, or operation of a covered source 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

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

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

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

(Auth.: HAR §11-60.1-93)

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

(Auth.: HAR §11-60.1-90)

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

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

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

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

(Auth.: HAR §11-60.1-5, §11-60.1-90)

¹The 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.

²The 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 II: SPECIAL CONDITIONS COVERED SOURCE PERMIT NO. 0641-02-C

Issuance Date:

Expiration Date:

In addition to the standard conditions of the Noncovered Source Permit, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

1. This permit encompasses the following equipment and associated appurtenances for the 470 lbs/hour activated carbon facility:
 - a. Char reactor and reactor off-gas treatment system;
 - b. Activation kiln and kiln off-gas treatment system;
 - c. One (1) 29.5 MMBTU/hr steam boiler, CB Nebraska Model CP-NB-242D-56-600, serial no. CP-4136;
 - d. One (1) 2,639 bhp diesel engine generator, Cummins Model QSK60-G6-NR2 equipped with selective catalytic reduction (diesel engine serial no. 33183292) and heat recovery steam generator, Cain Industries Model ESG1-824D15.5CSS, serial no. 5875;
 - e. One (1) 2,639 bhp diesel engine generator, Cummins Model QSK60-G6-NR2 (backup unit);
 - f. Two (2) 4.5 MMBtu/hr steam boilers, Bryan Model RVS-150/15/FDG (serial nos. 97925 and 97922) (backup units);
 - g. One (1) 2.194 MMBtu/hr superheater, Broach (serial no. 20091260);
 - h. One (1) 29 MMBtu/hr thermal oxidizer (flare), Turner EnviroLogic Model ZCS-1-8-30-X-2/8-2/8 (serial no. T016CLF40R) (backup unit);
 - i. One (1) 258,200 cfm cooling tower, Evapco Model AT224018
 - j. One (1) 122,060 cfm cooling tower, Marley Model NC8401NAN2 (backup unit);
 - k. One (1) 25,000 cfm baghouse for the feed system;
 - l. Cartridge filter for the char bin;
 - m. Baghouse for the rotary cooler;
 - n. Cartridge filters for the feed silo; and
 - o. Cartridge filters for the two product silos.

(Auth.: HAR §11-60.1-3)

2. An identification tag or name plate shall be displayed on equipment A.1.c, d, e, f, g and h listed above to show model no., serial no., and manufacturer. The identification tag or name plate shall be permanently attached to the equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

Section B. Applicable Federal Regulations

1. The 29.5 MMBTU/hr boiler is subject to the provisions of the following federal regulations:
 - a. 40 Code of Federal Regulations (CFR) Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Provisions;

- b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units;
- c. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart A, General Provisions; and
- d. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Area Sources, Subpart jjjjj, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boiler Area Sources.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.1, §60.40c, §63.1, §63.11193)¹

2. The two (2) diesel engine generators are subject to the provisions of the following federal regulations:

- a. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Provisions;
- b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines;
- c. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart A, General Provisions; and
- d. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.1, §60.4200, §63.1, §63.6580)¹

3. The permittee shall comply with all of the applicable provisions 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; CFR Parts 60 and 63)

Section C. Emission and Operational Limitations, and/or Standards

1. Fuel Specifications

- a. The 29.5 MMBTU/hr boiler shall only be fired on pyrolysis gas and pyrolysis oil from the reactor and kiln off-gas treatments systems and diesel fuel no. 2 with a maximum sulfur content not to exceed 0.0015% by weight.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90; 40 CFR §60.42c, §63.11193)

- b. The two (2) diesel engine generators shall only be fired on fuel oil no. 2 with:
 - i. A maximum sulfur content not to exceed 0.0015% by weight; and
 - ii. A cetane index or aromatic content as follows:
 - 1) Minimum cetane index of forty (40); or
 - 2) Maximum aromatic content of thirty-five (35) volume percent.
- c. The two (2) 4.5 MMBTU/hr boilers and superheater shall be fired only on LPG.
- d. The thermal oxidizer shall only be fired on gas from the reactor and kiln off-gas treatment systems and on LPG.
- e. The pyrolysis oil that is collected from the pyrolysis process shall be filtered so that the ash content of the oil does not exceed 0.030 percent by weight.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90; 40 CFR §60.4200, §63.6580)

2. Operating Limitations

- a. The fuel oil no. 2 consumption of the waste boiler shall not exceed 200,000 gallons in any rolling twelve-month (12-month) period.
- b. Only one (1) diesel engine generator shall be operated at a time. At no time shall both diesel engine generators be operated simultaneously except during transition for a period not to exceed fifteen (15) minutes.
- c. The total combined fuel consumption of the two (2) diesel engine generators shall not exceed 690,000 gallons in any rolling twelve-month (12-month) period.
- d. The total fuel consumption of the diesel engine generator that is not equipped with an SCR system (Special Condition No. A.1.d) shall not exceed 45,000 gallons in any rolling twelve-month (12-month) period as a backup unit.
- e. Only one (1) 4.5 MMBTU/hr boiler shall be operated at any time. At no time shall both 4.5 MMBTU/hr boilers be operated simultaneously. The combined operating time for the two 4.5 MMBTU/hr boilers shall not exceed 500 hours in any rolling twelve-month (12-month) period as backup units.
- f. The thermal oxidizer (flare) shall not exceed 500 hours in any rolling twelve-month (12-month) period as a backup unit.
- g. The 4.5 MMBTU/hr boilers and the thermal oxidizer, as backup units, shall not operate simultaneously with the 29.5 MMBTU/hr boiler.

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

3. Emission Limitations

- a. The 29.5 MMBTU/hr boiler shall not discharge into the atmosphere any gases that contain particulate matter in excess of 0.03 lb/MMBTU heat input.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, 40 CFR §63.11201)¹

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

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90; 40 CFR §60.92; SIP §11-60-24)¹

4. Raw Materials

Only macadamia nut shells shall be used as raw materials to be converted into activated carbon.

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

5. Air Pollution Controls

- a. The permittee shall operate and maintain a selective catalytic reduction (SCR) system on the diesel engine generator of Special Condition No. A.1.d. The SCR system shall be utilized for NOx emissions control at all times the diesel engine generator of Special Condition No. A.1.d is in operation.

Although not required at this time, the Department of Health may at any time require source performance testing for NOx and ammonia slip from the diesel engine generator equipped with the SCR system.

- b. The permittee shall follow a regular maintenance schedule to ensure the following items of the feed system baghouse of Special Condition No. A.1.k are operating properly:
 - i. The filter bags are checked for any tears, holes, abrasions and scuffs; and replaced as needed;
 - ii. The reverse air cleaning system is maintained and operated, as needed, to minimize particulate buildup or caking on the filter bags;
 - iii. Other miscellaneous items/equipment essential for the effective operation of the baghouse are maintained; and
 - iv. The baghouse shall be operated within the manufacturer's recommended pressure drop range.
- c. The permittee shall follow a regular maintenance schedule to ensure the baghouse for the rotary cooler and the cartridge filters for the char bin, feed silo, and two (2) product silos are operating properly:
 - i. The baghouse and cartridge filters are changed as recommended by the manufacturer or as needed, whichever is earlier, to minimize particulate buildup or caking on the filters; and

- ii. Other miscellaneous items/equipment essential for the effective operation of the baghouse and cartridge filters are maintained.
- d. The baghouses and cartridge filters shall be operated/utilized at all times during the operation of the activated carbon facility.
- e. The Department of Health may at any time require additional controls at pertinent locations if an inspection indicates poor or insufficient measures are being taken to control fugitive dust.

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

6. Work Practice Standards, Emission Reduction Measures and Management Practices

- a. The permittee shall minimize the 29.5 MMBTU/hr boiler's startup and shutdown periods following the manufacturer's recommended procedures. If manufacturer's recommended procedures are not available, the permittee must follow recommended procedures for a unit of similar design for which manufacturer's procedures are available.
- b. The permittee shall conduct a tune-up of the 29.5 MMBTU/hr boiler biennially.

(Auth: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, 40 CFR §63.11201, §63.11223)¹

7. Stack Height

- a. The exhaust stack of the 29.5 MMBTU/hr boiler shall be constructed to a minimum height of 34.5 feet (10.52 meters) above ground elevation.
- b. The exhaust stack of each diesel engine generator shall be constructed to a minimum height of 38 feet (11.58 meters) above ground elevation.
- c. The exhaust stack of each 4.5 MMBTU/hr boiler shall be constructed to a minimum height of 34.5 feet (10.52 meters) above ground elevation.
- d. The exhaust stack of the superheater shall be constructed to a minimum height of 38 feet (11.58 meters) above ground elevation.
- e. The exhaust stack of the thermal oxidizer shall be constructed to a minimum height of 40 feet (12.19 meters) above ground elevation.

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

8. Equipment Maintenance

The diesel engine generators, steam boilers, superheater, thermal oxidizer and baghouses shall be properly maintained and kept in good operating condition at all times. The permittee shall follow a regular maintenance schedule to ensure proper operation of the equipment, as recommended by the manufacturers.

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

9. Alternate Operating Scenarios

- a. In the event the 29.5 MMBTU/hr boiler becomes temporarily inoperable due to equipment failure or maintenance requirements, the permittee may operate one (1) 4.5 MMBTU/hr boiler, the 120,060 cfm cooling tower, and the 29 MMBTU/hr thermal oxidizer until the 29.5 MMBTU/hr boiler is returned to service provided that the following provisions are adhered to:
 - i. The temporary operation of this backup equipment shall comply with all applicable requirements including all air pollution control equipment requirements, operating limitations, and emission limits.
 - ii. Notification is provided to the Department of Health in accordance with Special Condition No. E.7.a.
- b. The permittee may replace the diesel engine generators with a temporary replacement unit if any repair reasonably warrants the removal of the diesel engine generator from its site (i.e., equipment failure, engine overhaul, or any major equipment problems requiring maintenance for efficient operation), permit requirements for the permitted diesel engine generator do not conflict with those required for the replacement unit, and the following provisions are adhered to:
 - i. The installation/operation of the temporary replacement diesel engine generator shall not exceed twelve (12) consecutive months.
 - ii. A request for replacing the diesel engine generator with a temporary replacement unit shall be submitted in accordance with Special Condition No. E.5.b.
 - iii. The temporary replacement unit must be similar in size to the diesel engine generator being replaced with equal or lesser emissions.
 - iv. The temporary replacement unit shall comply with all applicable conditions required for the primary unit including all air pollution control equipment requirements, operating restrictions, and emission limits.
 - v. The diesel engine generator shall be repaired and returned to service at the same location in a timely manner.
 - vi. Removal and return information shall be submitted as required by Special Condition No. E.7.c.
- c. The Department of Health may require an ambient air quality assessment of the temporary units, and/or provide a conditional approval to impose additional monitoring, testing, recordkeeping, and reporting requirements to ensure the temporary unit is in compliance with the applicable requirements of the permitted unit being temporarily replaced.
- d. Records shall be maintained in accordance with Special Condition No. D.14.
- e. The terms and conditions under each operating scenario shall meet all applicable requirements, including the special conditions of this permit.

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

Section D. Monitoring and Recordkeeping Requirements

1. 29.5 MMBTU/hr Boiler

- a. Non-resetting volumetric fuel flow meters shall be installed, operated, and maintained for each liquid fuel type used by the 29.5 MMBTU/hr boiler for the permanent recording of the total quantity of liquid fuel consumed by fuel type. The non-resetting meters shall not allow the manual resetting or other manual adjustments of the meter readings. The installation of any new non-resetting meters or the replacement of any existing non-resetting meters shall be designed to accommodate a minimum of five (5) years of equipment operation, considering any operational limitations, before the meter returns to a zero reading.

The meters shall permanently record the total quantity of liquid fuels consumed by the 29.5 MMBTU/hr boiler for the purpose of the fuel consumption and emission limitations specified in Special Condition Nos. C.2.a and C.3.a. The following information shall be recorded for each meter :

- i. Date of meter readings;
 - ii. Beginning and ending meter readings for each month;
 - iii. Total fuel consumed by type (gallons) for each month; and
 - iv. Total fuel oil no. 2 consumed by the 29.5 MMBTU/hr boiler on a rolling twelve-month (12-month) basis.
- b. A steam flow meter and recording system shall be installed on the 29.5 MMBTU/hr boiler for the permanent recording of steam flow (pounds). The flow meter and recording system shall permanently record the quantity of steam produced (pounds) for the purpose of the emission limitation in Special Condition No. C.3.a.

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

2. Diesel Engine Generators

A non-resetting volumetric fuel flow meter shall be installed, operated, and maintained on each diesel engine generator for the permanent recording of the total quantity of fuel consumed by each diesel engine generator. The non-resetting meter shall not allow the manual resetting or other manual adjustments of the meter readings. The installation of any new non-resetting meters or the replacement of any existing non-resetting meters shall be designed to accommodate a minimum of five (5) years of equipment operation, considering any operational limitations, before the meter returns to a zero reading.

The meter shall permanently record the total quantity of fuel consumed by each diesel engine generator for the purpose of the fuel consumption limitations specified in Special Condition Nos. C.2.c and C.2.d. The following information shall be recorded for each diesel engine generator:

- a. Date of meter readings;
- b. Beginning and ending meter readings for each month;

- c. Total fuel consumed by each diesel engine generator for each month;
- d. Total combined fuel consumption for the two (2) diesel engine generators for each month;
- e. Total fuel consumed by the diesel engine generator not equipped with the SCR (Special Condition No. A.1.d) on a rolling twelve-month (12-month) basis; and
- f. Total combined fuel consumption for the two (2) diesel engine generators on a rolling twelve-month (12-month) basis.

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

- 3. The permittee shall record all dates and times the two (2) diesel engine generators are operated simultaneously. The following information shall be recorded:
 - a. Start and end dates and times of simultaneous operation; and
 - b. Reason for operating the diesel engine generators simultaneously.

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

- 4. The permittee shall record all dates and times the two (2) 4.5 MMBTU/hr boilers are operated individually and/or simultaneously. The following information shall be recorded:
 - a. Start and end dates and times of individual and simultaneous operation; and
 - b. Reason for operating the steam boilers simultaneously.

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

- 5. The permittee shall record all dates and times the thermal oxidizer is operated individually or with either or both of the 4.5 MMBTU/hr boilers. The following information shall be recorded:
 - a. Start and end dates and times of operation; and
 - b. Reason for operating the thermal oxidizer individually or simultaneously with the boilers.

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

- 6. The permittee shall record all dates and times any of the two (2) 4.5 MMBTU/hr boilers and/or the thermal oxidizer are operated simultaneously with the 29.5 MMBTU/hr boiler. The following information shall be recorded:
 - a. Start and end dates and times of simultaneous operation with identification of operating units; and
 - b. Reason for operating any of the steam boiler and/or thermal oxidizer simultaneously with the 29.5 MMBTU/hr boiler.

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

7. The permittee shall record the processing of raw materials other than macadamia nut shells for conversion to activated carbon. The following information shall be recorded:
- Type of material processed other than macadamia nut shells;
 - Date and time material other than macadamia nut shells are processed; and
 - Reason for processing materials other than macadamia nut shells.

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

8. The permittee shall record all periods of time:
- The diesel engine generator equipped with the SCR is operated without the SCR in operation;
 - The Feed System Baghouse of Special Condition No. A.1.i is not operated during operation of the activated carbon facility; and
 - Any of the baghouses or cartridge filters of Special Condition No. A.1.i, A.1.m, A.1.n, or A.1.o are not utilized.

The permittee shall record the following information for each occurrence: a description of the control system, the date, and the start and end times the control system is not operational or utilized.

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

9. Equipment inspection, maintenance, and repair work. At a minimum, a log shall be maintained to include the date of the inspection/work, name and title of personnel performing inspection/work, and a description of the findings and any work performed on the equipment covered by this permit. This includes work performed on the 470 lbs/hour activated carbon facility inclusive of all equipment listed in Special Condition No. A.1.

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

10. Records shall be maintained of all invoices of the fuel oil no. 2 and LPG received for the two (2) diesel engine generators, the three (3) steam boilers, the superheater, and the thermal oxidizer. At a minimum, the records shall include the fuel type, sulfur content (percent by weight for fuel oil no. 2 only), minimum cetane index or maximum aromatic content (volume percent for fuel oil no. 2 only), date of delivery, and amount (gallons) of fuel delivered. The records shall be maintained for the purposes of the operational limits of Special Condition No. C.2 and annual emissions reporting. Fuel sulfur content, cetane index, and aromatic content may be demonstrated by providing the supplier's fuel specification sheet for the type of fuel purchased and received in accordance with 40 CFR 60, Subpart Dc, §60.48c(f)(1).

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

11. A pressure gauge shall be installed, operated, and maintained to monitor the pressure drop (in inches of water) of the feed system baghouse (Special Condition No. A.1.k). The pressure gauge shall be inspected at least once daily.

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

12. Visible Emissions (VE)

- a. The permittee shall conduct **monthly** (calendar month), VE observations by a certified reader for the 29.5 MMBTU/hr boiler, the superheater, and the SCR-equipped diesel engine generator in accordance with 40 CFR Part 60, Appendix A, Method 9, or EPA approved equivalent methods, or alternative methods with prior approval from the Department of Health. For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each emission point subject to opacity limits. For the visible emissions observations, the observer shall comply with the following additional requirements:
- i. The distance between the observer and the emission source shall be at least three (3) stack heights, but not more than 402 meters (0.25 miles); and
 - ii. The observer shall, when possible, select a position that minimizes interference from other sources of visible emissions. The required observer position relative to the sun (Method 9, Section 2.1) shall be followed.
- b. Records shall be completed and maintained in accordance with the **Visible Emissions Form** Requirements.

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

13. Alternate Operating Scenarios

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.

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

14. Records

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

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-81, §11-60.1-90)

Section E. Notification and Reporting Requirements

1. Standard Conditions Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 13,15, 16, and 23, respectively:

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

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

2. Within one hundred twenty (120) days of commencing construction, the permittee shall submit an Initial Notification to the Department of Health and EPA, Region 9, in accordance with 40 CFR 63, Subpart A, §63.9(b)(2).

(Auth: §11-60.1-3, §11-60.1-5, §11-60.1-90, 40 CFR §63.9, §63.1225)¹

3. Deviations

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

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

4. Stack Heights

Within 30 days after startup, the permittee shall provide the Department of Health with written confirmation of the final stack height, in feet, above ground elevation for the two (2) diesel engine generators, the three (3) steam boilers, the superheater, and the thermal oxidizer in accordance with Special Condition No. C.7.

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

5. Monitoring Reports

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

Monitoring/Annual Emissions Report Form: Fuel Certification and Consumption

Monitoring/Annual Emissions Report Form: Diesel Fuel No. 2 Consumption

Monitoring/Annual Emissions Report Form: PM Emissions

Monitoring Report Form: Operating Hours

Monitoring Report Form: Simultaneous Operation

Monitoring Report Form: Material Processed, SCR and PM Controls Use

Monitoring Report Form: Opacity Exceedances

(Auth.: HAR §11-60.1-3, §11-60.1-90)

6. Annual Emissions

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 enclosed *Monitoring/Annual Emissions Report Forms*, shall be used.

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

(Auth.: HAR §11-60.1-3, §11-60.1-90)

7. Alternate Operating Scenarios

- a. The permittee shall submit written notification to the Department of Health whenever any of the backup equipment listed at Special Condition No. C.9(a) are placed into operation. This notification shall provide, at a minimum, the reasons for the operation and the estimated time period/dates for the temporary operation.
- b. The permittee shall submit a written request and receive prior written approval from the Department of Health before exchanging a permitted diesel engine generator with a temporary replacement unit. The written request shall identify, at a minimum, the reasons for the replacement of the diesel engine generator from the site of operation and the estimated time period/dates for the temporary replacement, type, size, and manufacturing date of the temporary unit, emissions data, and stack parameters.

- c. Prior to the removal and return of the permitted diesel engine generator, the permittee shall submit to the Department of Health written documentation on the removal and return dates, and on the make, size, model and serial numbers for both the temporary replacement unit and the installed unit.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

8. Testing

- a. At least **sixty (60) days prior** to conducting a source performance test pursuant to Attachment II, Section F, the permittee shall submit a Notification of Intent to conduct a performance test and a written performance test plan to the Department of Health and EPA, Region 9, in accordance with Attachment II, Special Condition No. F.7.
- b. Notification of Compliance Status and written reports of the results of the performance tests conducted to demonstrate compliance shall be submitted to the Department of Health and EPA, Region 9, **within sixty (60) days** after the completion of the performance test, and shall be in conformance with Attachment II, Special Condition No. F.9.
- c. Results of the pyrolysis oil testing required by Special Condition No. F.1 shall be reported in the *Monitoring/Annual Emissions Report Form - Fuel Certification and Consumption* listed in Special Condition No. E.5.
- d. At least **thirty (30) days** prior to conducting in-stack NO₂/NO_x testing pursuant to Special Condition No. F.1, the permittee shall submit a written test plan to the Department of Health.
- e. A written report of the results of the in-stack NO₂/NO_x ratio testing shall be submitted to the Department of Health **within sixty (60) days** after the completion of the testing.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR § 63.7, § 63.9, § 63.11225)¹

9. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR, §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 be submitted **within sixty (60) days after the end of each calendar year**, and shall be signed and dated by a responsible official. The compliance certification shall include, at a minimum, the following information:

- a. The identification of each term or condition of the permit that is the basis of the certification;
- b. The compliance status;
- c. Whether compliance was continuous or intermittent;
- d. The methods used for determining the compliance status of the source currently and over the reporting period;
- e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the

requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act;

- f. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedances as defined in 40 CFR 64 occurred; and
- g. Any additional information as required by the Department of Health including information to determine compliance.

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. Testing Requirements

1. Pyrolysis oil Testing

The permittee shall conduct or cause to be conducted annually a test of the pyrolysis oil collected from the pyrolysis process to determine its ash content on a percent by weight basis using ASTM Method D-482.

2. In-Stack NO₂/NO_x Testing

Within one hundred eighty (180) calendar days after initial start-up of the 29.5 MMBTU/hr boiler, the permittee shall conduct or cause to be conducted tests to determine the in-stack NO₂/NO_x ratio in the exhausts of the 29.5 MMBTU/hr boiler, the diesel engine generator equipped with an SCR unit, and the 2.194 MMBTU/hr superheater. Prior to the testing, the permittee shall submit a written test plan to the Department of Health for approval. A test plan that does not have the approval of the Department of Health may be grounds to invalidate any test and require a retest.

3. Performance Testing

Within **one hundred eighty (180) calendar days** after initial start-up of the 29.5 MMBTU/hr boiler, and every third year thereafter, the permittee shall conduct or cause to be conducted a performance test on the facility. The performance test shall be conducted for the emissions of particulate matter. Test results shall be reported in accordance with the test methods set forth in 40 CFR Part 63, Subpart A. The following test methods or U.S. EPA-approved equivalent methods shall be used:

- a. The performance test for particulate matter emissions shall be conducted using 40 CFR Part 60, Methods 1-5 and 19. For method 5, the sampling time for each run shall be at least sixty (60) minutes and the minimum sample volume shall be at least 1.0 dscm (35.3 dscf).

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR 60 Appendix A, §63.7, §63.11212; SIP §11-60-15)^{1,2}

4. Particulate Matter Test Runs

The performance test for the emissions of particulate matter shall consist of three (3) separate runs using the applicable test method. For the purpose of determining compliance with an applicable regulation, the arithmetic mean of the results from the three (3) runs shall apply. At a minimum, the following operating parameters shall be provided in the performance test report:

- a. For each run, the 29.5 MMBTU/hr boiler steam rate in pounds/hour shall be provided. The permittee shall document the method by which the steam rate in pounds/hour was determined.
- b. The fuel rates for pyrolysis oil and diesel fuel no. 2 in gallons per hour, shall be recorded and reported for each run. There shall be one (1) reading per run based on the volumetric flow meters readings at the start and end of each test.
- c. The test shall be conducted at the representative load conditions of the boiler while burning the type of fuel or mixture of fuels that have the highest emission potential for particulate matter.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §63.11212; SIP §11-60-15)^{1,2}

5. Test Method 1 Conditions

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 twelve (12) inches or a cross-sectional area less than one hundred thirteen (113) square inches; or
- c. Sampling location less than two (2) stack diameters downstream or less than a half diameter upstream from a flow disturbance.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8)¹

6. Emissions Reporting

Particulate matter emissions shall be reported in two (2) categories:

- a. Front half (filter and probe); and
- b. Front and back half (probe, filter, and impingers). When conducting back half clean-up, all connectors and tubing of the back half sampling train up to and including the first

impinger shall be properly rinsed with acetone. Connecting glassware after the first impinger and the other impingers shall be rinsed with water. All rinses shall be included in the analysis for back half.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR 60 App. A)¹

7. Emission Rate

For each run, the emission rate of particulate matter shall be determined by converting the concentration of particulate matter (lb/dscf) determined in accordance with Method 5 to pounds per million BTU in accordance with Method 19.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR 60 App. A, §63.11212)¹

8. Performance Test Expense and Monitoring

The performance tests shall be made at the expense of the permittee. All performance tests may be monitored by the Department of Health.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161)

9. Performance Test Plan

At least sixty (60) days prior to conducting a performance test, the permittee shall submit a written performance test plan to the Department of Health and U.S. EPA, Region 9, that includes date(s) of the test, test duration, test locations, test methods, source operation, locations of visible emissions readings, and other parameters that may affect the test results. Such a plan shall conform to U.S. EPA guidelines including quality assurance procedures. A test plan or quality assurance plan that does not have the approval of the Department of Health may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §63.7; §63.11212, SIP §11-60.1-15)^{1,2}

10. Deviations

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

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

11. Performance Test Report

Within sixty (60) days after completion of the performance test, the permittee shall submit to the Department of Health and U.S. EPA, Region 9, the test report which shall include the operating conditions of the facility at the time of the test (e.g., fuel oil rates in gallons per

hour, steam rate in pounds per hour, etc.), summarized test results, comparative results with the permit emission limits, other pertinent support calculations, and field/laboratory data. The results shall be recorded and reported in accordance with 40 CFR Part 60, Appendix A, §60.8, and §63.7.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §63.7, §63.11212, SIP §11-60-15)^{1,2}

12. Test Waivers

- a. Upon written request and justification, the Department of Health may waive the requirement for a specific annual pyrolysis oil 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 reports of recent prior tests indicating results consistently below the limit established in Special Condition No. C.1.e.
- b. Upon written request and justification, the Department of Health may waive the requirement for, or a portion of, a specific performance test. The waiver request is to be submitted prior to the required test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior performance test indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous source test.

(Auth.: HAR §11-60.1-3, §11-60.1-90, 40 CFR §63.7)

Section G. Agency Notification

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹The 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.

²The 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.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

**ATTACHMENT III – INSIG
SPECIAL CONDITIONS – INSIGNIFICANT ACTIVITIES
COVERED SOURCE PERMIT NO. 0641-02-C**

Issuance Date:

Expiration Date:

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

Section A. Equipment Description

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

(Auth.: HAR §11-60.1-3)

Section B. Operational Limitations

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

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

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

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

Section C. Monitoring and Recordkeeping Requirements

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

(Auth.: HAR §11-60.1-3, §11-60.1-90)

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

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

Section D. Notification and Reporting

Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR, §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 be submitted **within sixty (60) days** after the end of each calendar year, and shall be signed and dated by a responsible official. The compliance certification shall include, at a minimum, the following information:

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

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

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

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

Section E. Agency Notification

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

**ATTACHMENT IV: ANNUAL FEE REQUIREMENTS
COVERED SOURCE PERMIT NO. 0641-02-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 be submitted on forms furnished by the Department of Health.
4. The annual fees and the emission data shall be mailed to:

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

PROPOSED

**ATTACHMENT V: ANNUAL EMISSIONS REPORTING REQUIREMENTS
COVERED SOURCE PERMIT NO. 0641-02-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 nature and amounts of emissions.

1. Complete the attached form(s):

Monitoring/Annual Emissions Report Form: Fuel Certification and Consumption
Monitoring/Annual Emissions Report Form: Diesel Fuel No. 2 Consumption
Monitoring/Annual Emissions Report Form: PM Emissions

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

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

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

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0641-02-C
PAGE 1 OF ____**

Issuance Date: _____

Expiration Date: _____

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

(Make copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

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

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0641-02-C
PAGE 1 OF ____**

Issuance Date:

Expiration Date:

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

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

Instructions:

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

A. Attachment I, Standard Conditions

| | | |
|---|--|---|
| <u>Permit term/condition</u> All standard conditions | <u>Equipment(s)</u> All Equipment(s) listed in the permit | <u>Compliance</u> <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent |
|---|--|---|

B. Special Conditions - Monitoring, Recordkeeping, Reporting, Testing, and INSIG

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

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0641-02-C
(CONTINUED, PAGE 2 OF ___)**

Issuance Date:

Expiration Date:

C. Special Conditions - Operational and Emissions Limitations

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

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

(Make Additional Copies if Needed)

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0641-02-C
(CONTINUED, PAGE ___ OF ___)**

Issuance Date:

Expiration Date:

D. Deviations

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

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

(Make Additional Copies if Needed)

**MONITORING/ANNUAL EMISSIONS REPORT FORM
FUEL CERTIFICATION AND CONSUMPTION
COVERED SOURCE PERMIT NO. 0641-02-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 nature and amounts of emissions:

(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

1. 29.5 MMBTU/hr Boiler:

| Type of Fuel Fired | Maximum Sulfur Content (% by Weight), if applicable | Maximum Ash Content (% by Weight), if applicable | Total Fuel Consumption (gal/yr or scf/yr) (Report in 2 nd semi-annual reporting period for the calendar year) |
|--------------------|---|--|---|
| | | | |
| | | | |
| | | | |

2. Diesel Engine Generator with SCR:

| Type of Fuel Fired | Maximum Sulfur Content (% by Weight), if applicable | Cetane Index or Aromatic Content | Total Fuel Consumption (gal/yr) (Report in 2 nd semi-annual reporting period for the calendar year) |
|--------------------|---|----------------------------------|---|
| | | | |
| | | | |

**MONITORING/ANNUAL EMISSIONS REPORT FORM
FUEL CERTIFICATION AND CONSUMPTION
COVERED SOURCE PERMIT NO. 0641-02-C
(PAGE 2 OF2)**

Issuance Date:

Expiration Date:

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

3. Superheater:

| Type of Fuel Fired | Maximum Sulfur Content (% by Weight) | Total Fuel Consumption (gal/yr) (Report in 2 nd semi-annual reporting period for the calendar year) |
|--------------------|--------------------------------------|---|
| | | |
| | | |

4. 4.5 MMBTU/hr Boilers:

| Type of Fuel Fired | Maximum Sulfur Content (% by Weight) | Total Fuel Consumption (gal/yr) (Report in 2 nd semi-annual reporting period for the calendar year) |
|--------------------|--------------------------------------|---|
| | | |
| | | |

5. Diesel Engine Generator without SCR:

| Type of Fuel Fired | Maximum Sulfur Content (% by Weight) | Cetane Index or Aromatic Content | Total Fuel Consumption (gal/yr) (Report in 2 nd semi-annual reporting period for the calendar year) |
|--------------------|--------------------------------------|----------------------------------|---|
| | | | |
| | | | |

- Types of Fuel: ● Residual Oil: Specify Grade, No. 6, 5, or 4;
 ● Liquefied Petroleum Gas, Butane or Propane;
 ● Distillate Oil (No. 2);
 ● If Other, specify, e.g., pyrolysis oil, reactor/kiln off-gases

**MONITORING/ANNUAL EMISSIONS REPORT FORM
DIESEL FUEL NO. 2 CONSUMPTION
COVERED SOURCE PERMIT NO. 0641-02-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:

(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

1. Diesel Engine Generators:

| Month | DEG with SCR Monthly Total (gallons) | DEG with SCR Rolling 12-Month Total (gallons) | DEG without SCR Monthly Total (gallons) | DEG without SCR Rolling 12-Month Total (gallons) | Both DEG's Rolling 12-Month Total (gallons) | Notes |
|-----------|--------------------------------------|---|---|--|---|-------|
| January | | | | | | |
| February | | | | | | |
| March | | | | | | |
| April | | | | | | |
| May | | | | | | |
| June | | | | | | |
| July | | | | | | |
| August | | | | | | |
| September | | | | | | |
| October | | | | | | |
| November | | | | | | |
| December | | | | | | |

**MONITORING/ANNUAL EMISSIONS REPORT FORM
DIESEL FUEL NO. 2 CONSUMPTION
COVERED SOURCE PERMIT NO. 0641-02-C
(PAGE 2 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:

2. 29.5 MMBTU/hr Boiler:

| Month | Monthly Total (gallons) | Rolling 12-Month Total (gallons) | Notes |
|--------------|------------------------------------|---|--------------|
| January | | | |
| February | | | |
| March | | | |
| April | | | |
| May | | | |
| June | | | |
| July | | | |
| August | | | |
| September | | | |
| October | | | |
| November | | | |
| December | | | |

**MONITORING REPORT FORM
OPERATING HOURS
COVERED SOURCE PERMIT NO. 0641-02-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:

(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

1. 4.5 MMBTU/hr Boilers:

| Month | Monthly Total for Both Boilers (Hours) | Rolling 12-Month Total for Both Boilers (Hours) | Notes |
|-----------|--|---|-------|
| January | | | |
| February | | | |
| March | | | |
| April | | | |
| May | | | |
| June | | | |
| July | | | |
| August | | | |
| September | | | |
| October | | | |
| November | | | |
| December | | | |

**MONITORING REPORT FORM
OPERATING HOURS
COVERED SOURCE PERMIT NO. 0641-02-C
(PAGE 2 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:

2. Thermal Oxidizer:

| Month | Monthly Total (Hours) | Rolling 12-Month Total (Hours) | Notes |
|--------------|----------------------------------|---|--------------|
| January | | | |
| February | | | |
| March | | | |
| April | | | |
| May | | | |
| June | | | |
| July | | | |
| August | | | |
| September | | | |
| October | | | |
| November | | | |
| December | | | |

**MONITORING/ANNUAL EMISSIONS REPORT FORM
PM EMISSIONS
COVERED SOURCE PERMIT NO. 0641-02-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:
(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

29.5 MMBTU/hr Boiler:

| Month | B: Monthly Total Pyrolysis Oil Consumption (gallons) | D: Monthly Total Diesel Fuel No. 2 Consumption (gallons) | S: Monthly Total Steam Production (pounds) | PM Emissions (lb/MMBTU)* |
|-----------|--|--|--|--------------------------|
| January | | | | |
| February | | | | |
| March | | | | |
| April | | | | |
| May | | | | |
| June | | | | |
| July | | | | |
| August | | | | |
| September | | | | |
| October | | | | |
| November | | | | |
| December | | | | |

MONITORING/ANNUAL EMISSIONS REPORT FORM
PM EMISSIONS
COVERED SOURCE PERMIT NO. 0641-02-C
(PAGE 2 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:

* PM Emissions (lb/MMBTU) Calculated by:

$$E = \frac{0.00211 \times P + 0.002 \times D + 0.00745 \times G}{0.001317 \times S}$$

- where:
- E = PM emission rate (lb/MMBTU)
 - P = pyrolysis oil (gal/mo.)
 - D = diesel fuel no. 2 (gal/mo.)
 - G = reactor/kiln off-gases (MMBTU/mo.)
= total heat input - heat from DF2 - heat from pyrolysis oil
= $0.001317 \times S - 0.1372 \times D - 0.1357 \times B$
 - S = steam production (lb/mo.)

**MONITORING REPORT FORM
SIMULTANEOUS OPERATION
COVERED SOURCE PERMIT NO. 0641-02-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:
(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

1. List all dates and times two (2) diesel engine generators were operated simultaneously:

| Date | Start Time | End Time | Notes (reason for simultaneously operation) |
|------|------------|----------|---|
| | | | |
| | | | |
| | | | |
| | | | |

Please indicate in the table above if no such incidences occurred.

2. List all dates and times the two (2) 4.5 MMBTU/hr boilers were operated simultaneously:

| Date | Start Time | End Time | Notes (reason for simultaneously operation) |
|------|------------|----------|---|
| | | | |
| | | | |
| | | | |
| | | | |

Please indicate in the table above if no such incidences occurred.

**MONITORING REPORT FORM
SIMULTANEOUS OPERATION
COVERED SOURCE PERMIT NO. 0641-02-C
(PAGE 2 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:

3. List all dates and times the any of the two (2) 4.5 MMBTU/hr boilers and/or the thermal oxidizer were operated simultaneously with the 29.5 MMBTU/hr boiler:

| Date | Start Time | End Time | Notes (reason for simultaneously operation) |
|------|------------|----------|---|
| | | | |
| | | | |
| | | | |
| | | | |

Please indicate in the table above if no such incidences occurred.

**MONITORING REPORT FORM
MATERIAL PROCESSED, SCR, AND PM CONTROLS USE
COVERED SOURCE PERMIT NO. 0641-02-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:
(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

1. All periods of time raw materials other than macadamia nut shells were processed in the 470 lb/hr activated carbon facility:

| Date | Start Time | End Time | Notes (e.g. type of material processed, reason for processing the material, etc.) |
|------|------------|----------|---|
| | | | |
| | | | |
| | | | |
| | | | |

Please indicate in the table above if no such incidences occurred.

2. All periods of time the diesel engine generator equipped with the SCR was operated without the SCR in operation:

| Date | Start Time | End Time | Notes (e.g. reason for operating the DEG without the SCR) |
|------|------------|----------|---|
| | | | |
| | | | |
| | | | |
| | | | |

Please indicate in the table above if no such incidences occurred.

**MONITORING REPORT FORM
MATERIAL PROCESSED, SCR, AND PM CONTROLS USE
COVERED SOURCE PERMIT NO. 0641-02-C
(PAGE 2 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:

3. All periods of time the 470 lb/hr activated carbon facility was operated without the Feed System Baghouse of Special Condition No. A.1.i. in operation and all periods of time the facility was operated without the baghouses or cartridge filters of Special Condition No. A.1.j, A.1.k, A.1, and A.1.m utilized:

| Description of Control Not Operational/Utilized | Date | Start Time | End Time | Notes (e.g. reason for not operating/utilizing control) |
|---|------|------------|----------|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Please indicate in the table above if no such incidences occurred.

VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII
COVERED SOURCE PERMIT NO. 0641-02-C

Issuance Date:

Expiration Date:

The **Visible Emissions (VE) Form** shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits in accordance with 40 CFR Part 60, Appendix A, Method 9, or EPA approved equivalent methods, or alternative methods with prior written approval from the Department of Health. The VE Form shall be completed as follows:

1. Visible emissions observations shall take place during the day only.
2. Orient the sun within a 140 degree sector to your back. Provide a source layout sketch on the VE Form using the symbols as shown.
3. For VE observations of stacks, stand at least three (3) stack heights but not more than a quarter mile from the stack.
4. For VE observations of fugitive emissions from crushing and screening plants, stand at least 4.57 meters (15 feet) from the visible emissions source, but not more than a quarter mile from the visible emission source.
5. Two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each stack or emission point.
6. The six (6) minute average opacity reading shall be calculated for each observation.
7. If possible, the observations shall be performed as follows:
 - a. Read from where the line of sight is at right angles to the wind direction.
 - b. The line of sight shall not include more than one (1) plume at a time.
 - c. Read at the point in the plume with the greatest opacity (without condensed water vapor), ideally while the plume is no wider than the stack diameter.
 - d. Read the plume at fifteen (15) second intervals only. Do not read continuously.
 - e. The equipment shall be operating at the maximum permitted capacity.
8. If the equipment was shut-down for that period, briefly explain the reason for shut-down in the comment column.

Deleted:

Deleted: or use of a Ringelmann Chart as provided. At least **annually** (*calendar year*), VE observation shall be conducted for each equipment subject to opacity limits by a certified reader in accordance with Method 9.

Deleted: and shall be compared to the Ringelmann Chart provided. The opacity shall be noted in five (5) percent increments (e.g., 25%).¶

The permittee shall retain the completed VE 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.

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

**VISIBLE EMISSIONS FORM
COVERED SOURCE PERMIT NO. 0641-02-C**

Issuance Date: _____

Expiration Date: _____

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

Company Name: _____

For stacks, describe equipment and fuel: _____

For fugitive emissions from crushers and screens, describe:

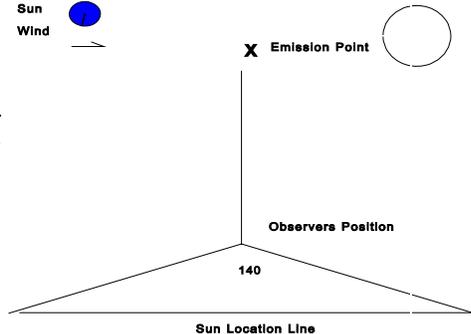
Fugitive emission point: _____

Plant Production (tons/hr): _____

(During observation)



Draw North Arrow



Site Conditions:

Emission point or stack height above ground (ft): _____

Emission point or stack distance from observer (ft): _____

Emission color (black or white): _____

Sky conditions (% cloud cover): _____

Wind speed (mph): _____

Temperature (°F): _____

Observer Name: _____

Certified? (Yes/No): _____

Observation Date and Start Time: _____

Method of observation (Ringelmann Chart or Method 9): _____

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

Observation Date and Start Time: _____

Method of observation (Ringelmann Chart or Method 9): _____

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