

**PROPOSED**

date

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

08-xxxE CAB  
File No. 0218-01

Mr. E. Alan Kennett  
President  
Gay and Robinson, Inc.  
P.O. Box 156  
Kaunakani, Hawaii 96747

Dear Mr. Kennett:

**Subject: Amendment of Covered Source Permit (CSP) No. 0218-01-C**  
**Application for Modification No. 0218-04**  
**Gay and Robinson, Inc.**  
**347 MMBtu/hr Bagasse and Oil-Fired Boiler and 6.7 MMBtu/hr Seed**  
**Plant Boiler**  
**Located at: TMK: 1-7-06-1, Kaunakani, Kauai**  
**Date of Expiration: March 29, 2009**

The subject Covered Source Permit is issued in accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1. The issuance of this permit renewal is based on the plans, specifications, and information submitted as part of your application for modification dated August 29, 2006 and the additional information submitted on November 3, 2006, December 3, 2006, January 15, 2007, arch 15, 2007, and March 16, 2007.

This Covered Source Permit supersedes in its entirety CSP No. 0218-01-C, issued on March 30, 2004.

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

|                        |   |
|------------------------|---|
| Attachment I:          | Standard Conditions   |
| Attachment IIA:        | Special Conditions for the 6.7 MMBtu/hr Seed Plant Boiler               |
| Attachment IIB:        | Special Conditions for the 347 MMBtu/hr Bagasse and Oil<br>Fired Boiler |
| Attachment II - INSIG: | Special Conditions - Insignificant Activities                           |
| Attachment III:        | Annual Fee Requirements   |
| Attachment IV:         | Annual Emissions Reporting Requirement                                  |

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Mr. E. Alan Kennett  
date  
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The following forms are enclosed for your use and submittal:

- Monitoring Report Form: Specification Used Oil Consumption/Operating Hours - Seed Plant Boiler
- Monitoring Report Form: Specification Used Oil Certification
- Monitoring Report Form: Fuel Oil No. 2 Certification
- Monitoring Report Form: Fuel Oil No. 2 and Specification Used Oil Consumption - Bagasse and Oil Fired Boiler
- Monitoring Report Form: Bagasse Consumption - Bagasse and Oil Fired Boiler
- Monitoring Report Form: Visible Emissions - Seed Plant Boiler
- Visible Emissions Form Requirements
- Visible Emissions Form
- Annual Emissions Report Form: Boilers - Seed Plant Boiler
- Annual Emissions Report Form: Boilers - Bagasse and Oil Fired Boiler
- Excess Emissions Report Form
- Ringelmann Chart

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

Sincerely,

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

SS:nn  
Enclosures

c: Rodney Yama, EHS - Kauai  
CAB Enforcement Section

**ATTACHMENT I: STANDARD CONDITIONS  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:**

**Expiration Date: March 29, 2009**

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

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

(b) shall not constitute, nor be construed to be an approval of the design of the covered source.

(Auth.: HAR §11-60.1-5, §11-60.1-82)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

14. The permittee shall notify the Department of Health and U.S. EPA Region 9 in writing of the following dates:

- 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 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:
  - 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)<sup>2</sup>

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

soon as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:

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

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

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

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

(Auth.: HAR §11-60.1-14, §11-60.1-90)

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

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

(Auth.: HAR §11-60.1-9, §11-60.1-90)

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

(Auth.: HAR §11-60.1-9, §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

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

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

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

(Auth.: HAR §11-60.1-11, §11-60.1-90)

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

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

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

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

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

(Auth.: HAR §11-60.1-93)

27. The compliance plan and compliance certification submittal requirements shall be in accordance with HAR, Sections 11-60.1-85 and 11-60.1-86. As specified in HAR, Section 11-60.1-86, the compliance certification shall be submitted to the Department of

Health and the U.S. EPA Region 9 once per year, or more frequently as set by any applicable requirement.

(Auth.: HAR §11-60.1-90)

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

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

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

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

(Auth.: HAR §11-60.1-5, §11-60.1-90)

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

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

**ATTACHMENT IIA: SPECIAL CONDITIONS FOR THE  
6.7 MMBtu/hr SEED PLANT BOILER  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:**

**Expiration Date: March 29, 2009**

In addition to the standard conditions of the Covered Source Permit, the following special conditions shall apply to the permitted facility:

**Section A. Equipment Description**

1. This permit encompasses one (1) 6.7 MMBtu/hr (200 horsepower) Orr and Sembower Boiler, model Powermester H-3 and its' associated appurtenances.  
  
(Auth.: HAR §11-60.1-3)
2. The permittee shall permanently attach an identification tag or name plate on the seed plant boiler which identifies the model no., serial no., and manufacturer. The identification tag or name plate shall be permanently attached to the seed plant boiler at a conspicuous location.  
  
(Auth.: HAR §11-60.1-5)

**Section B. Operational and Emission Limitations**

1. Operational Limitations
  - a. The seed plant boiler shall be fired only on specification used oil, fuel oil No. 2, or a combination thereof.
  - b. The sulfur content of fuel oil no. 2 shall not exceed 0.5 percent by weight.
  - c. The seed plant boiler shall not burn more than 530 gallons of specification used oil in any 24-hour period.
  - d. The seed plant boiler shall operate no more than twelve (12) hours in any 24-hour period.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90)
2. Combustion of Specification Used Oil
  - a. The constituents/properties of all used oil fired in the boiler shall conform to the specified allowable limits listed below:

| <u>Constituent/Property</u> | <u>Allowable Limit</u> |
|-----------------------------|------------------------|
| Arsenic                     | 5 ppm maximum          |
| Cadmium                     | 2 ppm maximum          |
| Chromium                    | 10 ppm maximum         |
| Lead                        | 100 ppm maximum        |

| <u>Constituent/Property</u>     | <u>Allowable Limit</u> |
|---------------------------------|------------------------|
| Total Halogens                  | 1000 ppm maximum       |
| Sulfur                          | 0.5% maximum by weight |
| Flash Point                     | 100°F minimum          |
| Polychlorinated Biphenyls (PCB) | <2 ppm                 |

b. The specification used oil shall be from the following sources only:

- i. Plantation motor vehicle lubricating oil;
- ii. Plantation factory hydraulic oil and gear box lubricants;
- iii. Plantation turbine oils;
- iv. Pacific Missile Range Facility/ ITT Industries;
- v. Senter Petroleum; and
- vi. Niihau Ranch.

Specification used oil may be obtained from other sources, provided a written notification identifying the new source is submitted to the Department of Health, for approval prior to the acceptance of the specification used oil.

c. A sample of each shipment of specification used oil from sources other than Gay and Robinson shall be analyzed for compliance with the limits in Attachment IIA, Special Condition No. C.2.a. prior to being burned. Each of these samples shall:

- i. represent no more than 5,000 gallons of used oil;
- ii. be submitted in a timely manner to a qualified laboratory and analyzed for each constituent/property listed in Attachment IIA, Special Condition No.B.2.a.; and
- iii. have a laboratory report detailing the constituents/properties listed in Attachment IIA, Special Condition No.B.2.a.

d. For used oil generated within Gay and Robinson, composite samples shall be taken from the specification used oil tank, holding tanks, or drums, as applicable, and analyzed for compliance with the allowable limits listed in Attachment IIA, Special Condition No. B.2.a. prior to being emptied into the blend tank and burned. The composite samples shall be taken in such a manner that each one is representative of all the used oil in each batch. Each composite sample shall be submitted in a timely manner to a qualified laboratory and analyzed for each constituent/property listed in Attachment IIA, Special Condition No. B.2.a. A laboratory report detailing the constituents/properties shall be obtained and used to verify compliance with the allowable limits listed in Attachment IIA, Special Condition No. B.2.a.

Additional used oil generated by Gay and Robinson may be added to the batch provided that:

- i. A sample of the used oil in the specification used oil tank is analyzed by a qualified laboratory after the addition of the untested used oil; or
- ii. Samples from each of the untested used oil holding tanks or drums are analyzed by a qualified laboratory prior to adding the additional used oil to the specification used oil tank.

The laboratory report from each sample shall be used to verify compliance with the allowable limits listed in Attachment IIA, Special Condition No. B.2.a.

- e. In no case, shall any used oil that has not been analyzed and verified to meet the specification used oil requirements of Attachment IIA, Special Condition No. B.2.a. be burned.
- f. Fuel blending to meet the allowable limits for each constituent/property listed in Attachment IIA, Special Condition No. B.2.a. is allowable only for used oil that is not deemed hazardous. The permittee shall reanalyze or perform calculations to verify that the constituents/properties of the blended fuel are within the allowable limits for specification used oil listed in Special Condition No. B.2.a.
- g. This permit does not authorize the permittee to burn hazardous waste. The permittee shall not burn any used oil that is declared or determined to be a hazardous waste. Hazardous waste containers shall be clearly identified, isolated from all other containers, and properly disposed of.
- h. 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.
- i. The permit conditions prescribed herein may be revised at any time by the Department of Health to reflect federal or state promulgated rules on specification used oil.

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

3. Visible Emissions

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

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

**Section C. Monitoring and Recordkeeping Requirements**

All records, including support information, shall be maintained at the facility for at least five (5) years from the date of the monitoring samples, measurements, tests, reports, or application. Support information includes all calibration and maintenance records and copies of all reports required by the 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 their representative upon request.

1. The permittee shall maintain records of the following:
  - a. Date and start and end times of operation;
  - b. Number of hours operated on a daily basis;
  - c. The sampling date for every used oil analysis, amount of used oil the sample represents, date of analyses, and results of the analyses;
  - d. Date when the used oil is blended or burned and the total amount blended;
  - e. The total amount of specification used oil combusted on a daily and monthly basis;
  - f. The amount and the date specification used oil was received from other sources; the analyses accompanying the specification used oil; the date the specification used oil was blended or burned; and all documentation identifying the source of the specification used oil; and
  - g. Inspection, maintenance, and repair log. The permittee shall maintain records on inspections, maintenance, and any repair work conducted on the equipment listed in 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, §11-60.1-90)

2. **Petroleum Storage Tanks**

The permittee shall keep readily accessible records showing the dimensions and the capacity of the fuel oil No. 2 storage tank (tank 3) for the life of the tank.

(Auth.: HAR §11-60.1-3, §11-60.1-90; 40 CFR 60.116b(b))<sup>1</sup>

3. **Visible Emissions (V.E.)**

- a. The permittee shall conduct **monthly** (*calendar month*) V.E. observations for the seed plant boiler in accordance with Method 9 or by use of a Ringlemann Chart as

provided. For each period, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each equipment. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*.

- b. The permittee shall conduct **annually** (*calendar year*) V.E. observations for the seed plant boiler by a certified reader in accordance with Method 9. For the opacity limits specified in Special Condition B.3., the annual source performance test shall satisfy visible emission monitoring requirements for the month the source test was performed. For each period, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each equipment. Records shall be completed and maintained in accordance with the *Visible Emissions Form Requirements*.
- c. Upon written 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 test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous source observation.

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §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 17 and 24, respectively:
  - a. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and
  - b. Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90)

2. The permittee shall submit **semi-annually** the following written 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 to June 30 and July 1 to December 31), and shall be signed and dated by a responsible official.
  - a. The used oil analysis which indicated exceedances of the limits specified in this permit. If there were no exceedances, the permittee shall submit in writing a statement indicating that there were no exceedances for that semi-annual period.

- b. All dates when the Seed Plant Boiler consumed more than 530 gallons of specification used oil per 24-hour period.
- c. All dates when the seed plant boiler operated more than twelve (12) hours in any 24-hour period.
- d. Any opacity exceedances as determined by the required visible emissions monitoring. Each exceedance reported shall include the date, six (6) minute average opacity reading, possible reasons for exceedance, duration of exceedance, and corrective actions taken. If there were no exceedances, the permittee shall submit in writing a statement indicating that for each equipment there were no exceedances for that semi-annual period.

The enclosed **Monitoring Report Forms:** *Visible Emissions - Seed Plant Boiler, Specification Used Oil Certification, Fuel Oil No. 2 Certification, and Specification Used Oil Consumption/Operating Hours - Seed Plant Boiler*, shall be used.

(Auth.: HAR §11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-16)<sup>2</sup>

3. The permittee shall report **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 requirements for stack testing or more frequent monitoring, or an implementation of a corrective action plan.

(Auth.: HAR §11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-16)<sup>2</sup>

4. Compliance Certification

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

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

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

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

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

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

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

5. Annual Emissions

As required by Attachment IV and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall report **annually** the total tons/yr. emitted of each regulated air pollutant, including hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following the end of each calendar year**. The enclosed Annual Emissions Report Form, *Boilers - Seed Plant Boiler*, shall be used.

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

(Auth.: HAR §11-60.1-3, §11-60.1-90)

**Section F. Agency Notification**

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

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

**ATTACHMENT IIB: SPECIAL CONDITIONS FOR THE  
347 MMBtu/hr BAGASSE AND OIL FIRED BOILER  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:**

**Expiration Date: March 29, 2009**

In addition to the standard conditions of the Covered Source Permit, the following special conditions shall apply to the permitted facility:

**Section A. Equipment Description**

1. This permit encompasses the following equipment and associated appurtenances:
  - a. One (1) 347 MMBtu/hr Combustion Engineering Boiler, model VU-50X; bagasse and fuel oil fired boiler with three (3) each 37.5 MMBtu/hr Coen DAZ oil burners;
  - b. Zurn Industries Mechanical Dust Collector, model MTSA-224-9CYT-XD-NR-TA ; and
  - c. Crews Evaporator & Drier Company Multi-Throated Jet Scrubber.

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or name plate 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**

The boiler is subject to the provisions of the following federal regulations:

1. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Provisions; and
2. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

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, §60.40b)<sup>1</sup>

**Section C. Operational and Emission Limitations**

1. The boiler shall be properly maintained and kept in good operating condition at all times. The permittee shall follow a regular maintenance schedule, as recommended by the manufacturer or as needed, to ensure proper operation of the boilers.

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

2. **Fuels and Fuel Limitations**

The boiler may be fired on any of the following fuels:

- a. Bagasse

- i. The bagasse feed rate shall not exceed 42.6 tons per hour.
- ii. The consumption of bagasse shall not exceed 190,000 tons in any rolling 12-month period.
- iii. The annual amount of bagasse burned in the boiler shall have a total BTU value greater than the "minimum biomass BTU" calculated in the equation below:

Actual annual heat input = (A) + (B) + (C)

A = total heat input for the year from biomass fuel

B = total heat input for the year from fossil fuels

C = total heat input for the year from other fuels

Potential annual heat input = boiler capacity (BTU/hr) x 8,760 hours

Annual capacity factor (ACF) =  $\frac{\text{actual annual heat input}}{\text{potential annual heat input}}$

Biomass qualification factor (BQF) = ACF x 0.50

Minimum biomass BTU = (BQF) x (potential annual heat input)

- b. Fuel oil no. 2

- i. The maximum sulfur content of fuel oil no. 2 shall not exceed 0.5 percent by weight.
- ii. The maximum nitrogen content of fuel oil no. 2 shall not exceed 0.3 percent by weight.
- iii. The consumption of fuel oil no. 2 shall not exceed 1,000,000 gallons in any rolling 12-month period.

- c. Specification Used Oil

- i. The constituents/properties of all used oil fired in the boiler shall conform to the specified allowable limits listed below:

| <u>Constituent/Property</u>     | <u>Allowable Limit</u> |
|---------------------------------|------------------------|
| Arsenic                         | 5 ppm maximum          |
| Cadmium                         | 2 ppm maximum          |
| Chromium                        | 10 ppm maximum         |
| Lead                            | 100 ppm maximum        |
| Total Halogens                  | 1000 ppm maximum       |
| Sulfur                          | 0.5% maximum by weight |
| Nitrogen                        | 0.3% maximum by weight |
| Flash Point                     | 100°F minimum          |
| Polychlorinated Biphenyls (PCB) | <2 ppm                 |

- ii. The consumption of specification used oil shall not exceed 26,000 gallons in any rolling 12-month period. The total combined consumption of specification used oil and fuel oil no. 2 shall not exceed 1,000,000 gallons in any rolling 12-month period.
- iii. The specification used oil shall be from the following sources only:
  - 1) Plantation motor vehicle lubricating oil;
  - 2) Plantation factory hydraulic oil and gear box lubricants;
  - 3) Plantation turbine oils;
  - 4) Pacific Missile Range Facility/ ITT Industries;
  - 5) Senter Petroleum; and
  - 6) Niihau Ranch.

Specification used oil may be obtained from other sources, provided a written notification identifying the new source is submitted to the Department of Health, for approval prior to the acceptance of the specification used oil.

- iv. A sample of each shipment of specification used oil from sources other than Gay and Robinson shall be analyzed for compliance with the limits in Attachment IIB, Special Condition No. C.2.c.i. prior to being burned. Each of these samples shall:
  - (1) represent no more than 5,000 gallons of used oil;
  - (2) be submitted in a timely manner to a qualified laboratory and analyzed for each constituent/property listed in Attachment IIB, Special Condition No. C.2.c.i.; and
  - (3) have a laboratory report detailing the constituents/properties listed in Attachment IIB, Special Condition No. C.2.c.i.
- v. For used oil generated within Gay and Robinson, composite samples shall be taken from the specification used oil tank, holding tanks, or drums, as applicable, and analyzed for compliance with the allowable limits listed in Attachment IIB, Special Condition No. C.2.c.i. prior to being emptied into the blend tank and burned. The composite samples shall be taken in such a manner that each one is representative of all the used oil in each batch. Each

composite sample shall be submitted in a timely manner to a qualified laboratory and analyzed for each constituent/property listed in Attachment IIB, Special Condition No. C.2.c.i.. A laboratory report detailing the constituents/properties shall be obtained and used to verify compliance with the allowable limits listed in Attachment IIB, Special Condition No. C.2.c.i. .

Additional used oil generated by Gay and Robinson may be added to the batch provided that:

- 1) A sample of the used oil in the specification used oil tank is analyzed by a qualified laboratory after the addition of the untested used oil; or
- 2) Samples from each of the untested used oil holding tanks or drums are analyzed by a qualified laboratory prior to adding the additional used oil to the specification used oil tank.

The laboratory report from each sample shall be used to verify compliance with the allowable limits listed in Attachment IIB, Special Condition No. C.2.c.i.

- vi. In no case, shall any used oil that has not been analyzed and verified to meet the specification used oil requirements of Attachment IIB, Special Condition No. C.2.c.i. be burned.
- vii. Fuel blending to meet the allowable limits for each constituent/property listed in Attachment IIB, Special Condition No. C.2.c.i. is allowable only for used oil that is not deemed hazardous. The permittee shall reanalyze or perform calculations to verify that the constituents/properties of the blended fuel are within the allowable limits for specification used oil listed in Special Condition No. C.2.c.i.
- viii. This permit does not authorize the permittee to burn hazardous waste. The permittee shall not burn any used oil that is declared or determined to be a hazardous waste. Hazardous waste containers shall be clearly identified, isolated from all other containers, and properly disposed of.
- ix. 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.
- x. The permit conditions prescribed herein may be revised at any time by the Department of Health to reflect federal or state promulgated rules on specification used oil.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-140, 40 CFR §279.11)<sup>1</sup>

3. Air Pollution Control Equipment

- a. All exhaust gases from the boiler shall be ducted through the multi-throated jet scrubber dust collection system.
- b. The following monitoring devices shall be installed, maintained, operated, and remain a permanent part of the multi-throated jet scrubbing system. The monitoring devices shall be compatible with the continuous monitoring system required in Special Condition E.4. of this attachment.
  - i. Orifice meters or similar water flow gauges shall be used to measure the water flow rate, in gallons per minute (gpm), to each stage of the multi-throated jet scrubber. The minimum water flow rates and the allowable deviation margin to the first and second stage of the multi-throated jet scrubber system shall be determined by the U.S. EPA after the initial source performance test, and possible subsequent source performance tests, required in Special Conditions G.1. and G.2. of this attachment; and
  - ii. Differential pressure transducers shall be used to measure the upstream and downstream static pressure in the throats of the multi-throated jet scrubber. The pressure differentials shall be recorded in inches of water. The minimum pressure differentials and the allowable deviation margins across the throats shall be determined by the U.S. EPA after the initial source performance test, and possible subsequent source performance tests, required in Special Conditions G.1. and G.2. of this attachment.
- c. The permittee shall follow a regular maintenance schedule as recommended by the manufacturer on the dust collection and wet scrubber system to ensure proper operation.
- d. The dust collection and wet scrubber system shall be operated continuously while the boiler is in operation.
- e. The air pollution control equipment shall be properly maintained and kept in good operating condition at all times. The dust collection and wet scrubber system shall be inspected on a daily basis. If the inspection indicates there is a problem affecting the efficiency of these systems, the boiler shall not be operated. The permittee shall correct the problem before resuming operation.

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

4. Fugitive 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 facility. 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.
- c. Potential sources of fugitive emissions in the fuel oil and specification used oil transfer and storage systems shall be inspected and maintained on a regular schedule to control VOC emissions.
- d. The permittee shall maintain records of inspections to the fuel oil and specification used oil transfer and storage systems as part of the operational log. The permittee shall provide the Department of Health with copies of the log upon request.
- e. The permittee shall provide access to the Department of Health to inspect all potential sources of fugitive emissions. These source include, but are not limited to tank welds, tank seams, gauge hatches, sampling ports, pressure relief valves, conveyors, and storage vessels.

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

#### **Section D. Emission Limitations**

##### 1. Maximum Emission Limits

The permittee shall not discharge or cause the discharge into the atmosphere from the exhaust stack of the boiler particulate matter, sulfur dioxide, and nitrogen oxides, in excess of the following specified limits.

- a. Particulate matter (PM) emissions shall not exceed 0.4 pounds per hundred pounds of bagasse burned;
- b. Sulfur dioxide emissions shall not exceed 0.5 lb/MMBtu heat input;
- c. Nitrogen oxides (expressed as NO<sub>2</sub>) emissions shall not exceed 0.20 lb/MMBtu heat input while firing on fuel oil no. 2 and specification used oil; and
- d. Nitrogen oxides (expressed as NO<sub>2</sub>) emissions shall not exceed 0.15 lb/MMBtu heat input while firing on bagasse.

Compliance with the sulfur dioxide and nitrogen oxide emission limits shall be determined on a 30-day rolling average.

(Auth.: HAR §11-60.1-3, 11-60.1-36, §11-60.1-90, §11-60.1-161; 40 CFR §60.42b, §60.44b)<sup>1</sup>

2. The sulfur dioxide and nitrogen oxide emission limits listed in Special Condition D.1. of this Attachment shall apply at all times of operation including periods of startup, shutdown, or malfunction.

(Auth.: HAR §11-60.1-3, 11-60.1-36§11-60.1-90, §11-60.1-161; 40 CFR §60.42b, §60.44b, §60.46b)<sup>1</sup>

3. Except during periods of startup, shutdown or equipment breakdown, the boiler shall not exhibit visible emissions of 20 percent or greater (6-minute average), except for one period aggregating not more than six (6) minutes in any sixty (60) minute period, of not more than 27 percent opacity.

During startup, shutdown, or equipment breakdown, the boiler 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, §11-60.1-161; SIP §11-60-24; 40 CFR §60.43b, §60.46b)<sup>1,2</sup>

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

All records, including support information, shall be maintained at the facility for at least five (5) years from the date of the monitoring samples, measurements, tests, reports, or application. Support information includes all calibration and maintenance records and copies of all reports required by the 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 their representative upon request.

#### **1. Fuel Consumption**

##### **a. Bagasse**

The permittee shall maintain records of the daily and annual bagasse feed rate. The feed rate may be determined from the amount measured with a weigh scale or other reasonable method (i.e., truck loads).

##### **b. Fuel Oil No. 2 and Specification Used Oil**

i. The permittee shall maintain records of the fuel purchase receipts showing the supplier, fuel type, date of delivery, and amount (gallons) of fuel delivered.

ii. The permittee shall install, operate, and maintain non-resetting flow meters for the continuous measurement and recording of the amount of fuel oil no. 2 and specification used oil being fired in the boiler. Daily records of the beginning meter readings and the total daily fuel consumption shall be kept for each type of fuel.

iii. The permittee shall record and maintain records of the amounts of fuel oil no. 2 combusted during each day and calculate the annual capacity factor for the reporting period. The annual capacity factor is determined on a 12-month rolling

average basis with a new annual capacity factor calculated at the end of each calendar month.

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

2. Fuel Analysis - Fuel Oil No. 2 and Specification Used Oil

- a. The permittee shall maintain records of the supplier's certificate of analysis showing the sulfur content and nitrogen content of the fuel delivered and all test analysis. At a minimum, the test analysis shall include the following:
  - i. Type of fuel;
  - ii. Date and time the fuel sample was drawn;
  - iii. Date the analyses were performed;
  - iv. Name and address of the company or entity that performed the analyses;
  - v. Means and methods used to analyze the fuel; and
  - vi. Analysis results.
- b. The permittee shall maintain records of the nitrogen content of the fuel oil no. 2 combusted in the boiler and calculate the average fuel nitrogen content for the reporting period. The nitrogen content shall be determined using ASTM Method D3431-80, Test Method for Trace Nitrogen in Liquid Petroleum Hydrocarbons (IBR-see §60.17) or the fuel suppliers certificate of analysis. If fuel oil no. 2 is blended with specification used oil, the nitrogen content may be estimated based on the blending ratio of fuel oil no. 2 to specification used oil and the nitrogen content of the specification used oil.
- c. The permittee shall obtain and maintain fuel receipts from the supplier which certifies that the fuel oil no. 2 meets the definition of distillate oil as defined in 40 CFR Part 60.41b. For this Special Condition only, the fuel oil no. 2 does not need to meet the fuel nitrogen content specification in the definition of distillate oil.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40CFR §60.46b, §60.49b)<sup>1</sup>

3. Inspection, Maintenance, and Repair Log

An inspection, maintenance, and repair log shall be maintained for the equipment covered under this permit. Replacement of parts and repairs to the boiler, air pollution control equipment, and continuous monitoring systems shall be documented. At a minimum, the following records shall be maintained:

- a. The date of the inspection/repair;
- b. A description of the findings or any maintenance or repair work performed;

- c. The water flow rate (gpm) of the water lines servicing the multi-throated jet scrubbing system and pressure differential across the throats (inches of water) of the multi-throated jet scrubbing system; and
- d. The name and title of the inspector.

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

4. Continuous Monitoring System (CMS)

The permittee shall install, calibrate, operate, and maintain a continuous monitoring system on the multi-throated jet scrubber for the measurement and recording of the following parameters. The procedures under 40 CFR §60.13 and the appendices of 40 CFR part 60 shall be followed for installation, evaluation, operation, and testing of the CMS.

- a. The CMS shall continuously monitor and record the sixty (60) minute rolling average of the water flow rate to the scrubber; and
- b. The CMS shall continuously monitor and record the sixty (60) minute rolling average of the pressure differentials across the throats of the multi-throated jet scrubber.

The sixty (60) minute rolling averages shall be calculated from all valid one (1) minute averages of each rolling sixty (60) minute period.

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

5. Continuous Emission Monitoring System (CEMS)

The permittee shall install, operate, maintain, and calibrate CEMS at the boiler exhaust streams to measure NO<sub>x</sub> (as NO<sub>2</sub>), and CO<sub>2</sub> or O<sub>2</sub> 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 and repairs. Data shall be recorded during 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; 40CFR §60.48b)<sup>1</sup>

- b. Emissions data shall be obtained for at least 75 percent of the operating hours in at least 22 out of 30 successive boiler operating days. Each 1-hour average must be based on at least 30 minutes of operation and include at least 2 data points representing two 15-minute periods. 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 Department of Health or the following:
  - i. For NO<sub>x</sub>, U.S. EPA Reference Method 7, 7A, 7C, 7D or 7E shall be used;
  - ii. For O<sub>2</sub> or CO<sub>2</sub>, U.S. EPA Reference Method 3, 3A, or 3B shall be used; and
  - iii. 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; 40CFR §60.46b, §60.48b)<sup>1</sup>

c. Span Values

The span value of the NO<sub>x</sub> CEMS at the exhaust stack shall be 500 ppm while firing on fuel oil no. 2 and specification used oil and 125 percent of the maximum estimated hourly potential NO<sub>x</sub> emission rate while firing on bagasse.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40CFR §60.48b)<sup>1</sup>

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

- i. For NO<sub>x</sub>, EPA Reference Method 7, 7A, 7C, 7D or 7E shall be used; and
- ii. For O<sub>2</sub> or CO<sub>2</sub>, EPA Reference Method 3, 3A, or 3B shall be used;.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.13)<sup>1</sup>

e. The 1-hour averages for NO<sub>x</sub> shall be expressed in pounds per hour (lb/hr), parts per million by volume dry (ppmvd) at 3 percent O<sub>2</sub>, and pounds per million Btu (lb/MMBtu).

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40CFR §60.46b)<sup>1</sup>

f. The procedures under 40 CFR §60.13 shall be followed for installation, evaluation, and operation of the CEMS. The CEMS shall be operated in accordance with 40 CFR Part 60, Appendix B.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40CFR §60.13, 40CFR §60.47b, §60.48b)<sup>1</sup>

g. 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; 40CFR §60.13)<sup>1</sup>

h. 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)<sup>1</sup>

- i. The permittee shall maintain records of the following information for each boiler operating day:
  - i. Calendar date;
  - ii. The average hourly NO<sub>x</sub> emission rates measured or predicted;
  - iii. The 30-day average NO<sub>x</sub> emission rates calculated at the end of each boiler operating day from the measured or predicted hourly NO<sub>x</sub> emission rates for the preceding 30 boiler operating days;
  - iv. Identification of the boiler operating days when the calculated 30-day average NO<sub>x</sub> emission rates are in excess of the NO<sub>x</sub> emission limits listed in Attachment IIB, Special Condition No. D.1. with the reasons for such excess emissions as well as a description of corrective actions taken;
  - v. Identification of the boiler operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
  - vi. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
  - vii. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;
  - viii. Identification of the times when the pollutant concentration exceeded full span of the CEMS;
  - ix. Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with 40 CFR Part 60 Appendix B, Performance Specification 2 or 3; and
  - x. Results of daily CEMS drift tests and quarterly accuracy assessments as required under 40 CFR Part 60 Appendix F, Procedure 1.

(Auth.: HAR §11-60.1-5, §11-60.1-90, §11-60.1-161; 40CFR §60.49b)<sup>1</sup>

6. Petroleum Storage Tanks

The permittee shall keep readily accessible records showing the dimensions and the capacity of the fuel oil No. 2 storage tank (tank 3) for the life of the tank.

(Auth.: HAR §11-60.1-3, §11-60.1-90; 40 CFR 60.116b(b))<sup>1</sup>

**Section F. Notification and Reporting Requirements**

1. Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 14, 16, 17 and 24, respectively:
  - a. Anticipated date of initial startup, actual date of construction commencement, and actual date of startup. The notification shall include:
    - i. The design heat input capacity of the boiler and identify the fuels to be combusted in the boiler;
    - ii. A copy of the federally enforceable requirements that limit the annual capacity factor for all fuels; and

iii. The anticipated annual capacity factor based on all the fuels fired and based on each individual fuel fired.

- b. Intent to shut down air pollution control equipment for necessary scheduled maintenance;
- c. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and
- d. Permanent discontinuance of construction, modification, relocation, or operation of the facility, or any petroleum storage tank, 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; SIP §11-60-16; 40CFR §60.49b)<sup>1, 2</sup>

2. The permittee shall submit to the U.S. EPA Region 9 and Department of Health the source performance test data from the initial source performance test and the performance evaluation of the CEMS using the applicable performance specifications of 40 CFR Part 60 Appendix B.

(Auth.: HAR §11-60.1-5, §11-60.1-90, §11-60.1-161; 40CFR §60.49b)<sup>1, 2</sup>

3. Semi-Annual Reports

a. The permittee shall submit **semi-annually** a summary report required by 40 CFR §60.49b to the U.S. EPA Region 9 and the Department of Health. The report shall be submitted **within thirty (30) 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. The summary report shall include the following:

- i. The information recorded in Special Conditions E.5.j. and k. of this attachment; and
- ii. The annual capacity factor of each fuel fired in the boiler as required in Special Condition E.1.b.iii. of this attachment.

(Auth.: HAR §11-60.1-5, §11-60.1-90, §11-60.1-161; 40CFR §60.49b)<sup>1, 2</sup>

b. Excess Emissions

The permittee shall submit **semi-annually** a written report of all excess emissions to the U.S. EPA Region 9 and the Department of Health. The report shall be submitted **within thirty (30) 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. The written report shall include the following:

- i. 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;

- ii. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the boiler. The nature and cause of any malfunction (if known) and the corrective action taken or preventative measures adopted, shall also be reported;
- iii. 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;
- iv. The report shall state if no excess emissions has occurred. The report shall also state if the CEMS operated properly during the period and was not subject to any repairs or adjustments except for zero and span checks;
- v. For purposes of this Covered Source Permit, excess emissions shall be defined as follows:
  - (1) Any one-hour period during which the average emissions of NO<sub>x</sub>, as measured by the CEMS, exceed the emission limits set forth in Special Condition No. D.1. of this attachment.
  - (2) Any one-hour period during which the average water flow rate to the multi-throated jet scrubber is less than the allowable margin determined by the U.S. EPA in Special Condition C.3.b.i. of this attachment.
  - (3) Any one-hour period during which the average pressure drop across the multi-throated jet scrubber is less than the allowable margin determined by the U.S. EPA in Special Condition C.3.b.ii. of this attachment.
- vi. The enclosed Excess Emission and Monitoring System Performance Summary Report shall be used in conjunction to the reporting of excess emissions of NO<sub>x</sub>.

(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 60.49b)<sup>1,2</sup>

c. Monitoring Reports

The permittee shall submit **semi-annually** the following written 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 to June 30 and July 1 to December 31), and shall be signed and dated by a responsible official.

- i. The monthly and rolling 12-month total of bagasse fired in the boiler;
- ii. Each instance the boiler consumed more than 42.6 tons per hour of bagasse;
- iii. The used oil analysis which indicated exceedances of the limits specified in this permit. If there were no exceedances, the permittee shall submit in writing a statement indicating that there were no exceedances for that semi-annual period;

- iv. The total amount of fuel oil no. 2 and specification used oil consumed on a monthly and rolling 12-month basis; and
- v. All instances where the air pollution controls were not properly operating while the boiler was in operation.

The enclosed **Monitoring Report Forms**: *Specification Used Oil Certification, Fuel Oil No. 2 Certification, Bagasse Consumption - Bagasse and Oil Fired Boiler, and Fuel Oil No. 2 and Specification Used Oil Consumption - Bagasse and Oil Fired Boiler* shall be used.

(Auth.: HAR §11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90, §11-60.1-161; 40 CFR 60.49b)<sup>1</sup>

4. The permittee shall submit **within sixty (60) days after the end of each calendar year** the calculations of Attachment IIB, Special Condition C.2.a.iii. which demonstrate that the boiler is operating as a biomass boiler.

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

5. The permittee shall report **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 stack testing or more frequent monitoring, or could trigger implementation of a corrective action plan.

(Auth.: HAR §11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-16)<sup>2</sup>

6. Compliance Certification

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

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

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

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

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

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

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

7. 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/year emitted of each regulated air pollutant, including any hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following the end of each calendar year**. The enclosed *Annual Emissions Report Form: Boilers- Bagasse and Oil Fired Boiler* or equivalent form shall be used in reporting emissions.

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, §11-60.1-90, §11-60.1-114)

8. Source Performance Tests

- a. **At least thirty (30) days prior to conducting a source performance test**, the permittee shall submit a written source performance test plan to the Department of Health that describes the test duration, test locations, test methods, source operation 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.
- b. **Within thirty (30) days after completion of the source performance test**, the permittee shall submit to the Department of Health the test report which includes the operating conditions of the facility at the time of the test, the summarized test results, other pertinent support calculations, and field/laboratory data. The results shall be recorded and reported in accordance with 40 CFR Part 60 Appendix A and 40 CFR §60.8.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; SIP §11-60-15; 40 CFR §60.45b)<sup>1,2</sup>

### **Section G. Testing Requirements**

1. **Within thirty (30) days** after achieving the maximum production rate of the boiler but not later than one-hundred eighty (180) days after the initial start-up as defined in 40 CFR Part 60.2., the permittee shall conduct or cause to be conducted performance tests on the boiler. The performance test shall be conducted for nitrogen oxides (NO<sub>x</sub>), particulate matter (PM), and opacity while firing on bagasse and fuel oil no.2/specification used oil. The following test methods shall be used:
  - a. NO<sub>x</sub> emissions from the boiler shall be monitored for the first thirty (30) successive boiler operating days and the 30-day average emission rate shall be used to determine compliance with the NO<sub>x</sub> emission limits. The 30-day average emission rate shall be the average of all hourly emissions data recorded by the continuous emission monitoring system (CEMS) during the 30-day test period.
  - b. The initial source performance test for the emissions of particulate matter shall be conducted using the test methods and procedures of 40 CFR §60.46b(d). For this portion of the initial source compliance test, the boiler shall be operated greater than 90 percent of its rated capacity. The monitoring devices required by Special Condition C.3.b. of this attachment shall be used to determine the water flow rate and pressure differentials across the multi-throated jet scrubber.
  - c. Method 9 of 40 CFR Part 60 Appendix A shall be used to determine the opacity of stack emissions.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §60.46b)<sup>1</sup>

2. On an annual basis or at other such times as may be specified by the Department of Health, the permittee shall conduct or cause to be conducted a source performance tests on the boiler for opacity, NO<sub>x</sub>, and PM while firing on bagasse and fuel oil no. 2/specification used oil. The source performance tests shall be conducted and the results reported in accordance with the test methods set forth in 40 CFR Part 60 Appendix A, and 40 CFR §60.8. The following test methods or U.S. EPA-approved equivalent methods, or alternate methods with prior written approval from the Department of Health, shall be used:
  - a. Performance tests for the emissions of NO<sub>x</sub> shall be conducted using 40 CFR Part 60, Methods 1-4 and 19.
  - b. Performance tests for the emissions of particulate matter shall be conducted using the test methods and procedures of 40 CFR §60.46b.

(Auth.: HAR §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §60.46b)<sup>1</sup>

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)<sup>1, 2</sup>

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

(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.

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

6. Particulate emissions shall be reported in two 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 §11-60.1-11, §11-60.1-90)

7. For each run, the emission rate of particulate matter shall be determined by the equation pounds/hour =  $Q_S \times cs$ , where  $Q_S$  = volumetric flow rate of the total effluent in dscf/hour as determined in accordance with Method 2, and  $cs$  = concentration of particulate matter in pounds/dscf as determined in accordance with Method 5.

(Auth.: HAR §11-60.1-11, §11-60.1-90)

8. For each run, the bagasse feed rate in pounds/hour shall be provided. The permittee shall document the methodology by which the feed rate was determined. Separate determinations shall be made for each run, including bagasse analyses.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

9. In addition to the stack test data, the following data from the multi-throated jet scrubbing system shall be recorded during the test and made a part of the final performance test report:
- Water flow rate in gallons per minute (gpm);
  - Total water injection rate and pressure at the spray bar; and
  - Pressure drop through each of the first and second stages of the multi-throated jet scrubber.

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

10. Any deviation from these conditions, test methods, or procedures may be cause for rejection of the source performance test results unless such deviations are approved by the Department of Health prior to the source performance tests. The Department of Health may monitor any of the required source performance tests.

(Auth.: HAR §11-60.1-11, §11-60.1-90; SIP §11-60-1-15)<sup>2</sup>

#### **Section F. Agency Notification**

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

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

**ATTACHMENT II - INSIG: SPECIAL CONDITIONS  
COVERED SOURCE PERMIT NO. 0218-01-C  
INSIGNIFICANT ACTIVITIES**

**Amended Date:**

**Expiration Date: March 29, 2009**

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, 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; and
5. Any additional information as required by the Department of Health including information to determine compliance.

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

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

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

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

**Section E. Agency Notification**

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

**ATTACHMENT III: ANNUAL FEE REQUIREMENTS  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:**

**Expiration Date: March 29, 2009**

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 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, Hawaii 96801-3378**

## PROPOSED

**ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:**

**Expiration Date: March 29, 2009**

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) for: **Boilers - Seed Plant Boiler** and **Boilers - Bagasse and Oil Fired Boiler**.
2. The reporting period shall be from January 1 to December 31 of each year. All reports shall be submitted to the Department of Health within **sixty (60) days** after the end of each calendar year and shall be mailed to the following address:  
  
**Clean Air Branch  
Environmental Management Division  
State Department of Health  
P.O. Box 3378  
Honolulu, Hawaii 96801-3378**
3. The permittee shall retain the information submitted, including all emission calculations. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department of Health upon request.
4. Any information submitted to the Department of Health without a request for confidentiality shall be considered public record.
5. In accordance with HAR, Section 11-60.1-14, the permittee may request confidential treatment of specific information by submitting a written request to the Director of Health and clearly identifying the specific information that is to be accorded confidential treatment.

**MONITORING REPORT FORM  
SPECIFICATION USED OIL CONSUMPTION/OPERATING HOURS - SEED PLANT BOILER  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:** \_\_\_\_\_

**Expiration Date:** March 29, 2009

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:

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

Facility Name: Gay and Robinson, Inc.

Equipment Location: TMK: 1-7-06-1, Kaumakani, Kauai

Equipment Description: 6.7 MMBtu/hr Orr and Sembower Boiler, model Powermester H-3

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): \_\_\_\_\_

Identify all dates when the seed plant boiler consumed more than 530 gallons of Specification Used Oil in a 24-hour period

| Date | Reason | Quantity of Specification Used Oil Consumed within the 24-hour Period |
|------|--------|---|
|      |        |   |
|      |        |   |
|      |        |   |
|      |        |   |

Identify all dates when the seed plant boiler operated in excess of 12 hours in a 24-hour period

| Date | Reason | Hours Operated within the 24-hour Period |
|------|--------|--|
|      |        |  |
|      |        |  |
|      |        |  |
|      |        |  |

Indicate in the table if no such incidences occurred.

**MONITORING REPORT FORM  
SPECIFICATION USED OIL CERTIFICATION  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:** \_\_\_\_\_

**Expiration Date:** March 29, 2009

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

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

Facility Name: Gay and Robinson, Inc.

Equipment Location: TMK: 1-7-06-1, Kaumakani, Kauai

Equipment Description: 6.7 MMBtu/hr Orr and Sembower Boiler, model Powermester H-3; and 347 MMBtu/hr Combustion Engineering Boiler, model VU-5

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): \_\_\_\_\_

Fuel Usage (Gallons per year): \_\_\_\_\_

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: \_\_\_\_\_

- describe what was done with those batches of used oil

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

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      |
| Nitrogen                        | _____ % by weight      |
| Flash Point                     | _____ ° F              |
| Polychlorinated Biphenyls (PCB) | _____ ppm by weight    |

MONITORING REPORT FORM  
FUEL OIL NO. 2 CERTIFICATION  
COVERED SOURCE PERMIT NO. 0218-01-C

Amended Date:

Expiration Date: March 29, 2009

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

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

Facility Name: Gay and Robinson, Inc.

Equipment Location: TMK: 1-7-06-1, Kaumakani, Kauai

Equipment Description: 6.7 MMBtu/hr Orr and Sembower Boiler, model Powermester H-3; and 347 MMBtu/hr Combustion Engineering Boiler, model VU-5

Serial/ID Nos.: \_\_\_\_\_

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

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

**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 (Signature): \_\_\_\_\_

Fuel oil consumption (recent 12-month total): \_\_\_\_\_ gallons

Number of fuel reports/analyses received for this report period: \_\_\_\_\_

Sulfur content (recent 12-month average) : \_\_\_\_\_ % by weight

Method(s) used to determine the sulfur content: \_\_\_\_\_

Nitrogen content (recent t12-month average): \_\_\_\_\_ % by weight

Method(s) used to determine the nitrogen content: \_\_\_\_\_

Did any of the fuel reports/analyses indicate exceedances of the permitted limits: YES NO

If Yes: - indicate the number of exceedances: \_\_\_\_\_  
- describe what was done with those batches of fuel oil

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

**MONITORING REPORT FORM  
 FUEL OIL NO. 2 AND SPECIFICATION USED OIL CONSUMPTION -  
 BAGASSE AND OIL FIRED BOILER  
 COVERED SOURCE PERMIT NO. 0218-01-C  
 Page 1 of 2**

**Amended Date:** \_\_\_\_\_

**Expiration Date:** March 29, 2009

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 on a **semi-annual basis**:

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

Facility Name: Gay & Robinson, Inc.

Equipment Location: TMK: 1-7-06-1, Kaumakani, Kauai

Equipment Description: 347 MMBtu/hr Combustion Engineering Boiler, model VU-5

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

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

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

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 (Signature): \_\_\_\_\_

| Monthly Fuel Consumption (gallons) |                |                        |                | Rolling 12-Month Total (gallons) |
|------------------------------------|----------------|------------------------|----------------|----------------------------------|
| Month                              | Fuel Oil No. 2 | Specification Used Oil | Combined Total |                                  |
| January                            |                |                        |                |                                  |
| February                           |                |                        |                |                                  |
| March                              |                |                        |                |                                  |
| April                              |                |                        |                |                                  |
| May                                |                |                        |                |                                  |
| June                               |                |                        |                |                                  |
| July                               |                |                        |                |                                  |
| August                             |                |                        |                |                                  |
| September                          |                |                        |                |                                  |
| October                            |                |                        |                |                                  |
| November                           |                |                        |                |                                  |
| December                           |                |                        |                |                                  |

**MONITORING REPORT FORM  
FUEL OIL NO. 2 AND SPECIFICATION USED OIL CONSUMPTION -  
BAGASSE AND OIL FIRED BOILER  
COVERED SOURCE PERMIT NO. 0218-01-C  
Page 2 of 2**

Identify all instances where the air pollution controls were not properly operating while firing on fuel oil no. 2/specification used oil

| Date | Reason | Duration (hours) | Feed Rate (tons/hr) |
|------|--------|------------------|---------------------|
|      |        |                  |                     |
|      |        |                  |                     |
|      |        |                  |                     |
|      |        |                  |                     |

**MONITORING REPORT FORM  
BAGASSE CONSUMPTION - BAGASSE AND OIL FIRED BOILER  
COVERED SOURCE PERMIT NO. 0218-01-C**

Page 1 of 2

**Amended Date:** \_\_\_\_\_

**Expiration Date:** March 29, 2009

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 on a **semi-annual basis**:

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

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

Facility Name: Gay & Robinson, Inc.

Equipment Location: TMK: 1-7-06-1, Kaumakani, Kauai

Equipment Description: 347 MMBtu/hr Combustion Engineering Boiler, model VU-5

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

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

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

**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 (Signature): \_\_\_\_\_

| <b>Month</b> | <b>Monthly Consumption (tons)</b> | <b>Rolling 12-Month Total (tons)</b> |
|--------------|-----------------------------------|--------------------------------------|
| January      |                                   |                                      |
| February     |                                   |                                      |
| March        |                                   |                                      |
| April        |                                   |                                      |
| May          |                                   |                                      |
| June         |                                   |                                      |
| July         |                                   |                                      |
| August       |                                   |                                      |
| September    |                                   |                                      |
| October      |                                   |                                      |
| November     |                                   |                                      |
| December     |                                   |                                      |

**MONITORING REPORT FORM  
 BAGASSE CONSUMPTION - BAGASSE AND OIL FIRED BOILER  
 COVERED SOURCE PERMIT NO. 0218-01-C  
 Page 2 of 2**

Identify all dates when the bagasse feed rate to the boiler was greater than 42.6 tons per hour

| Date | Reason | HHV (MMBtu/ton) | Feed Rate (tons/hr) |
|------|--------|-----------------|---------------------|
|      |        |                 |                     |
|      |        |                 |                     |
|      |        |                 |                     |
|      |        |                 |                     |

Method(s) used to determine HHV: \_\_\_\_\_

Identify all instances where the air pollution controls were not properly operating while firing on bagasse

| Date | Reason | Duration (hours) | Feed Rate (tons/hr) |
|------|--------|------------------|---------------------|
|      |        |                  |                     |
|      |        |                  |                     |
|      |        |                  |                     |
|      |        |                  |                     |

**MONITORING REPORT FORM  
VISIBLE EMISSIONS - SEED PLANT BOILER  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:** \_\_\_\_\_

**Expiration Date:** March 29, 2009

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:

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

Facility Name: Gay and Robinson, Inc.

Equipment Location: TMK: 1-7-06-1, Kaumakani, Kauai

Equipment Description: 6.7 MMBtu/hr Orr and Sembower Boiler, model Powermester H-3

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): \_\_\_\_\_

**Visible Emissions:**

Report the following on the lines provided below: all date(s) and six (6) minute average opacity reading(s) which the opacity limit was exceeded during the monthly observations; if there were no exceedances during the monthly observations, then write "no exceedances" in the comment column.

| Date | 6 Min. Avg. (%) | Comments |
|------|-----------------|----------|
|      |                 |          |
|      |                 |          |
|      |                 |          |
|      |                 |          |
|      |                 |          |
|      |                 |          |
|      |                 |          |
|      |                 |          |
|      |                 |          |
|      |                 |          |

**VISIBLE EMISSIONS FORM REQUIREMENTS  
STATE OF HAWAII  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:**

**Expiration Date: March 29, 2009**

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

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

The permittee shall retain the completed V.E. Forms for recordkeeping. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department of Health, or their representative upon request.

**VISIBLE EMISSIONS FORM  
STATE OF HAWAII  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:** \_\_\_\_\_

**Expiration Date:** March 29, 2009

Permit No.: 0218-01-C

Company Name: Gay & Robinson, Inc.

Equipment and Fuel:

6.7 MMBtu/hr Orr and Sembower Boiler firing fuel oil no. 2/specification used oil

Site Conditions:

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

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

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

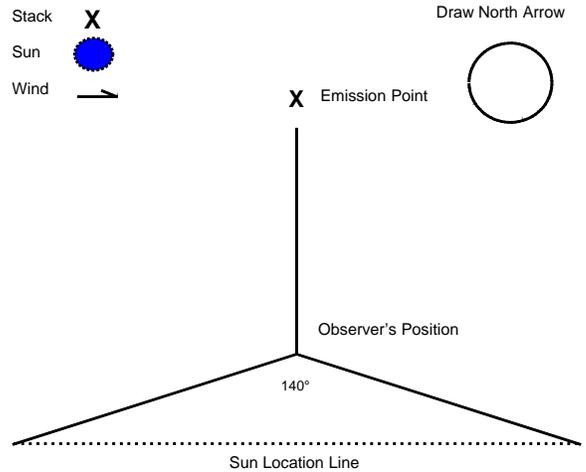
Sky conditions (% cloud cover): \_\_\_\_\_

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

Temperature (°F): \_\_\_\_\_

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

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



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

| 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  
BOILER - SEED PLANT BOILER  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:** \_\_\_\_\_

**Expiration Date:** March 29, 2009

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

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

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

Facility Name: Gay & Robinson, Inc.

Equipment Location: TMK: 1-7-06-1, Kaumakani, Kauai

Equipment Description: 6.7 MMBtu/hr Orr and Sembower Boiler, model Powermester H-3

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): \_\_\_\_\_

| Type of Fuel Fired     | Fuel Usage (gal/yr) | % Sulfur Content by Weight | Annual Operating Hours |
|------------------------|---------------------|----------------------------|------------------------|
| Fuel Oil No. 2         |                     |                            |                        |
| Specification Used Oil |                     |                            |                        |
|                        |                     |                            |                        |
|                        |                     |                            |                        |

| Control Technology | Pollutant Controlled | Control Efficiency | Fuel Fired | Hours Operated |
|--------------------|----------------------|--------------------|------------|----------------|
|                    |                      |                    |            |                |
|                    |                      |                    |            |                |
|                    |                      |                    |            |                |
|                    |                      |                    |            |                |

**ANNUAL EMISSIONS REPORT FORM  
BOILERS - BAGASSE AND OIL FIRED BOILER  
COVERED SOURCE PERMIT NO. 0218-01-C**

**Amended Date:** \_\_\_\_\_

**Expiration Date:** March 29, 2009

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

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

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

Facility Name: Gay & Robinson, Inc.

Equipment Location: TMK: 1-7-06-1, Kaumakani, Kauai

Equipment Description: 347 MMBtu/hr Combustion Engineering Boiler, model VU-5

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): \_\_\_\_\_

| Type of Fuel Fired     | Fuel Usage (gal/yr) or (ton/yr) | % Sulfur Content by Weight | Annual Operating Hours |
|------------------------|---------------------------------|----------------------------|------------------------|
| Bagasse                |                                 |                            |                        |
| Fuel Oil No. 2         |                                 |                            |                        |
| Specification Used Oil |                                 |                            |                        |
|                        |                                 |                            |                        |
|                        |                                 |                            |                        |

| Control Technology              | Pollutant Controlled | Control Efficiency | Fuel Fired                      | Hours Operated |
|---------------------------------|----------------------|--------------------|---------------------------------|----------------|
| Scrubber/Dust Collection System | PM <sub>10</sub>     |                    | Bagasse                         |                |
| Scrubber/Dust Collection System | PM <sub>10</sub>     |                    | Fuel Oil/Specification Used Oil |                |
|                                 |                      |                    |                                 |                |
|                                 |                      |                    |                                 |                |

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

Facility Name: Gay & Robinson, Inc.

Equipment Location: TMK: 1-7-06-1, Kaumakani, Kauai

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

Covered Source Permit No.: 0218-01-C

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) . . . . . \_\_\_\_\_

EXCESS EMISSION AND MONITORING SYSTEM PERFORMANCE  
SUMMARY REPORT  
(CONTINUED, PAGE 2 OF 2)

**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. . . . . \_\_\_\_\_

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): \_\_\_\_\_

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

Signature: \_\_\_\_\_