

PROPOSED

DATE

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

07-852E CAB
File No. 0214

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Mr. Hans R. Tobler
General Manager
Kalaeloa Partners, L.P.
91-111 Kalaeloa Boulevard
Kapolei, Hawaii 96707

Dear Mr. Tobler:

**Subject: Amendment to Covered Source Permit (CSP) No. 0214-01-C
Minor Modification Application No. 0214-07
Kalaeloa Partners, L.P.
Kalaeloa Cogeneration Plant
Located at: 99-111 Kalaeloa Boulevard, Kapolei, Oahu
Expiration Date: May 7, 2008**

The subject Covered Source Permit is hereby amended in accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1. This amendment allows for the firing of specification used oil in the combustion turbines. The issuance of this permit amendment is based on the plans, specifications, and information submitted as part of your August 7, 2007 minor modification application. A receipt for the application filing fee of \$200 is enclosed.

The enclosed amended Attachment II, Special Conditions, supersedes the corresponding Attachment II issued for Covered Source Permit No. 0214-01-C issued on May 8, 2003, and subsequent amendment dated March 1, 2004.

The additional form to be submitted as a result of the modification is as follows:

Monitoring Report Form: Used Oil Consumption

PROPOSED

Mr. Hans R. Tobler
September 12, 2007
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This permit: (a) shall not in any manner affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment; and (c) in no manner implies or suggests that the Hawaii Department of Health, or its officers, agents, or employees, assumes any liability, directly or indirectly, for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment.

Sincerely,

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

KK:nn
Enclosures

c: CAB Monitoring Section

**ATTACHMENT II: SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0214-01-C**

Amended Date: September 12, 2007

Expiration Date: May 7, 2008

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 significant equipment and associated appurtenances:

<u>Unit No.</u> <i>(for purposes of this permit)</i>	<u>Equipment Description</u>
CT1	Combustion Turbine with evaporative cooling module, max production rated at 86 MW at 76°F, manufactured by ABB, type GT11N with GT 11NM upgrade, typical fuel LSFO, diesel during start-up and shutdown.
CT2	Combustion Turbine with evaporative cooling module, max production rated at 86 MW at 76°F, manufactured by ABB, type GT 11N with GT 11 NM upgrade, typical fuel LSFO, diesel during start-up and shutdown.
HRSG1	Heat Recovery Steam Generator (HRSG), manufactured by Deltak with a condensate preheater installed in the stack breach (duct) of HRSG1, uses exhaust heat from CT1.
HRSG2	Heat Recovery Steam Generator (HRSG), manufactured by Deltak with a condensate preheater installed in the stack breach (duct) of HRSG2, uses exhaust heat from CT2.
STG1	Steam Turbine Generator, 51.5 MW, manufactured by ABB, type KT, uses steam from heat recovery boilers HRSG1 and HRSG2.
C1	Cooling Tower, 4-cell, mechanical forced draft, maximum design cooling capacity 383 million BTU per hour. Maximum water flow per cell of 523,530 gallons per hour.

(Auth.: HAR §11-60.1-3)

2. An identification tag or name plate shall be displayed on the equipment listed in Section A.1. to show model no., serial no. and manufacturer. The identification tag or name plate shall be attached to the equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. Combustion Turbines CT1 and CT2 are subject to the provisions of the following federal regulations:
 - a. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A, General Provisions; and
 - b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart GG, Standards of Performance for Stationary Gas Turbines.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR 60.1, 60.330)¹

2. The permittee shall comply with all applicable provisions of these standards, including all emission limits, notification, testing, monitoring, and reporting requirements.

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

Section C. Operational and Emission Limitations

1. Combustion Turbines, Unit Nos. CT1 and CT2.
 - a. "Start-up" and "Shut-down."
 - i. "Start-up" is defined as and shall not exceed the two (2) hour period beginning with the initiation of fuel consumption by the combustor of the combustion turbine.
 - ii. "Shut-down" is defined as and shall not exceed the one (1) hour period prior to the termination of fuel consumption by the combustion turbine.

- b. Air Pollution Control Equipment.

Kalaeloa Partners, L.P. (herein after, "permittee") shall continuously operate and maintain the following air pollution controls to meet the emission limits specified in Table 1 and Table 2 of Section C.1.d (Maximum Emission Limits) of this permit, except during start-up and shut-down.

- i. Combustor steam injection shall occur at a minimum steam-to-fuel mass ratio of 1.3 to 1.0 on each of the two combustion turbines to control NO_x emissions. NO_x emissions from each exhaust stack shall not exceed 130 ppmv at 15 percent O₂ (dry, 3-hour rolling average) and 483 pounds per hour from each of the two exhaust stacks as referenced in Tables 1 and 2 of Section C.1.d. Combustor steam injection

- shall be at the minimum steam-to-fuel ratio within two (2) hours of commencing “start-up” and shall continue until initiation of “shut-down” of each combustion turbine.
- ii. The use of alternative control system(s) other than those specified above is contingent upon receiving the Department of Health’s written approval to use such a system(s) and shall not relieve the permittee from the responsibility to meet all emissions limitations contained within this Covered Source Permit.
- c. Fuel Use and Specification
- i. The two combustion turbines shall be fired using only No. 6 low sulfur fuel oil (LSFO), No. 2 (diesel) fuel or specification used oil with a maximum sulfur content not to exceed 0.5 percent by weight. The sulfur content of the fuel oil shall be measured in accordance with the most current American Society for Testing and Materials (ASTM) method. The fuel sulfur content shall be verified by either:
 - A) Sampling and analyzing each batch of fuel for its sulfur content, or
 - B) Obtaining a certificate of analysis on the sulfur content from the supplier for each batch of fuel oil received.
 - ii. The total annual fuel consumption of LSFO, Diesel and Specification Used Oil shall not exceed 2,541,600 barrels per year (106,747,200 gallons per year) as calculated on a rolling twelve (12) month basis.
 - iii. The total amount of specification used oil fired in the combustion turbines shall not exceed 2,000 gallons as calculated on a rolling twelve (12) month basis.
 - iv. The maximum fuel heat input for each combustion turbine shall not exceed 900 MMBTU/hr based on the fuel’s lower heating value (LLHV). The fuel heating value shall be determined in accordance with the most current ASTM method.
- d. Combustion of Specification 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 (spec) used oil.
 - ii. 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 specification used oil in the combustion turbines.
 - iii. The specification used oil shall consist only of used oil generated by Kalaeloa Partners, L.P. Specification used oil may be obtained from other sources, provided a

written notification identifying the new source is submitted to the Department of Health, and approved, prior to the acceptance of the spec used oil. An analysis must accompany the delivery of each batch of spec used oil.

- iv. Samples of the used oil generated from within Kalaeloa Partners, L.P. shall be analyzed for compliance with the limits in Attachment II, Special Condition No. C.1.d.vi. prior to being burned. These samples shall be taken in such a manner that the composite sample is representative of all the used oil in that batch. Each composite sample shall be submitted in a timely manner to a qualified laboratory and analyses obtained for the constituents/properties which limits are given in Special Condition No. C.1.d.vi.

Additional used oil may be added to the batch provided that:

- A) The used oil in the specification used oil tank is retested after the addition of untested used oil; or
 - B) The holding tanks or drums of untested used oil are tested prior to addition to the specification used oil tank, and the results are verified to meet the requirements of Attachment II, Special Condition No. C.1.d.vi.
- v. In no case shall any used oil that has not been tested and verified (by laboratory analysis or as specified in Attachment II, Special Condition No. C.1.d.vi.) to meet the specification used oil requirements of Attachment II, Special Condition No. C.1.d.vi. be added to the blend tank and burned.
 - vi. The following constituents/properties of the specification used oil shall not exceed the specified limits listed below:

Constituent/Property	Allowable Limit
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogen	1,000 ppm maximum
Sulfur	0.5% maximum by weight
Flash Point	100°F minimum
Polychlorinated Biphenyls (PCB)	< 2 ppm

- vii. Should the results of any used oil analyses deem the sample to be hazardous, the contaminated containers shall be identified and isolated from the non-contaminated containers and properly disposed. Fuel blending to meet the constituents/properties limits given in Attachment II, Special Condition No. C.1.d.vi. is allowable only for used oil that were not deemed hazardous.

- viii. If fuel blending is used, the permittee shall retest or perform calculations to verify that the blended fuel meets the specification used oil limits in Special Condition No. C.1.d.vi. Blended fuel oil meeting Special Condition No. C.1.d.vi. is considered specification used oil and requires additional blending with fuel oil no. 2.
- ix. This permit does not authorize the permittee to burn hazardous waste or off-specification used oil. The permittee shall not accept or burn used oil that has been declared or determined to be hazardous waste and shall not burn off-specification used oil.

e. Maximum Emission Limits

- i. Following start-up and prior to shut-down of each of the two LSFO fired combustion turbines, the permittee shall not discharge or cause to be discharged into the atmosphere from each of the two exhaust stacks sulfur dioxide (SO₂), nitrogen oxides (NO_x as NO₂), carbon monoxide (CO), volatile organic compounds (VOC), and particulate matter (PM) in excess of the following specified limits as a function of generator load:

Table 1: Emission Limits at Specified Generator Loads¹ (3-hour rolling average)

Compounds	≤ 60%	>60%-80%	> 80%
Sulfur Dioxide (ppmvd)	98	98	98
Nitrogen Oxides (ppmvd) as NO ₂	130	130	130
Carbon Monoxide (ppmvd)	30	25	14
Volatile Organic Compounds (ppmvd) as C ₃ H ₈	2	2	1
Particulate Matter (grains/dscf)	0.026	0.021	0.018

¹15 Percent O₂, Standard Conditions (68 °F, 29.92 in. Hg)

Table 2: Emission Limits at Specified Generator Loads² (3-hour rolling average)

Compounds	≤ 60%	>60%-80%	> 80%
Sulfur Dioxide (lb/hr)	488	488	488
Nitrogen Oxides (lb/hr) as NO ₂	483	483	483
Carbon Monoxide (lb/hr)	40	35	30
Volatile Organic Compounds (lb/hr) as C ₃ H ₈	3.6	3.6	3.6
Particulate Matter (lb/hr)	80	80	80

f. Visible Emissions

For any six (6) minute averaging period, the combustion turbine exhaust stacks shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during start-up, shutdown, or equipment breakdown, the combustion turbines may exhibit visible

emissions greater than twenty (20) but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.

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

Section D. Monitoring and Recordkeeping Requirements

All records, including support information, shall be true, accurate, 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 compiled in a permanent form suitable for inspection and made available to the Department of Health or their representative upon request.

1. Combustion Turbine Generators, CT1 and CT2

- a. The permittee shall operate and maintain a continuous monitoring system to monitor and record the ratio of steam-to-fuel being fired in each combustion turbine.
- b. The permittee shall operate and maintain a continuous monitoring system to monitor and record the total amount of fuel oil fired in each turbine. In addition, records on the sulfur content, density, and heating value shall be maintained for each batch of fuel oil fired in the two (2) combustion turbines. Copies of the analysis or other information used in the determination of the fuel oil sulfur content, density, and heating value shall also be included. The permittee shall also calculate and determine the SO₂ emissions from each of the two exhaust stacks in ppmvd at 15 percent O₂ and pounds per hour on an hourly or more frequent basis.
- c. The permittee shall operate and maintain a continuous monitoring system to record the operating load for each of the two (2) combustion turbines.
- d. The permittee shall operate and maintain a continuous emissions monitoring system (CEMS) to measure and record the NO_x, CO, and CO₂ or O₂ concentrations in the fuel gas. If a CEMS using CO₂ as a diluent is used, 40 CFR 60, Appendix A, Method 20 Equations 20-2 and 20-5 shall be used. The system shall meet EPA performance specifications (40 CFR 60.13 and 40 CFR 60, Appendix B and 40 CFR 60, Appendix F). The emission rates for NO_x and CO shall be recorded in ppmvd at 15 percent O₂ and pounds per hour.
- e. The permittee shall maintain a file of all measurements, performance testing requirements and test results, system performance evaluations, calibration checks, adjustments and maintenance as performed, and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, 40 CFR 60.13)

2. Specification Used Oil

- a. The permittee shall maintain records of the following:
- i. The sampling date for every used oil analysis, amount of used oil the sample represents, date of analyses, and results of the analyses;
 - ii. Date when the used oil is blended and the total amount blended; and
 - iii. The total amount of specification used oil combusted on a daily and monthly basis.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, 40 CFR 60.13)

3. Inspection, Maintenance, and Repair Log

An inspection, maintenance, and repair log shall be maintained for the equipment listed in Attachment II, Special Condition A.1. of this permit. Replacement of parts and repairs to the facility equipment shall be documented.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

4. Visible Emissions (V.E.)

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

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-32, §11-60.1-90, §11-60.1-161)

5. All records required by this section shall include, if applicable:
 - a. Monitoring location, date and time of sampling or measurements;
 - b. Dates sampling analyses were performed;
 - c. Name and address of the company or entity that performed the analyses;
 - d. Analytical techniques or methods used;
 - e. Analysis of results; and
 - f. Operating conditions during the time of sampling or measurement.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

Section E. Notification and Reporting Requirements

1. The permittee shall submit a written report of all excess emissions to the Hawaii Department of Health for **every calendar quarter**. Excess emissions shall be defined as:

“Any rolling 3-hour period during which the average emissions, as measured by the continuous emissions monitoring system or determined through calculations based on the information obtained from the continuous monitoring systems, exceed the emission limits set forth in Table 1 and Table 2 of Section C.1.e.,” and

“Any one (1) clock-hour period following start-up and preceding shutdown during which the average steam-to-fuel ratio, as measured by the continuous monitoring system, falls below the ratio specified in Special Condition C.1.b.1.”

The report shall include the following:

- a. The magnitude of excess emissions determined in accordance with 40 CFR 60.13 (h), any conversion factors used, and the date and time of commencement and completion of each individual time period of excess emissions.
- b. Specific identification of each individual period of excess emissions that occurs during startups, shutdowns, and malfunctions of the combustion turbines. The nature and cause of any malfunction (if known) and the corrective action taken or preventive measures adopted, shall also be reported.
- c. The date and time identifying each period during which the continuous emission monitoring system was inoperative except for zero and span checks. The nature of each system repair or adjustment shall be described.
- d. The report shall so state if no excess emissions have occurred. Also, the report shall so

state if the continuous emission monitoring system operated properly during the period and was not subject to any repairs or adjustments except for zero and span checks.

- e. All reports shall be postmarked **by the 30th day** following the end of each calendar quarter. The enclosed Excess Emissions and Monitoring System Performance Summary Report form shall be used in conjunction with the reporting of excess emissions.
- f. Excess emissions indicated by the continuous monitoring systems except during the two (2) hour start up and one (1) hour shut down period shall be considered violations of the applicable emission limit for the purposes of this permit following the completion of the source performance test and CEMs certification.

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

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

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

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

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

- 4. **At least thirty (30) days prior to** the following events, the permittee shall notify the Department of Health in writing of:
 - a. *Conducting a source performance test* as required by Attachment II, Section F, Testing Requirements;
 - b. *Conducting a performance specification test on the CEMS.* The testing date shall be in accordance with the performance test date identified in 40 CFR Part 60, Section 60.13.

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

5. Compliance Certification

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

- a. The identification of each term or condition of the permit that is the basis of the certification;
- b. The compliance status;
- c. Whether compliance was continuous or intermittent;
- 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 an authorized representative. Upon the written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

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

6. 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 per 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 Forms: Equipment Monitoring and Fuel Consumption shall be used in reporting.

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

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

7. The permittee shall submit **semi-annually** the following reports to the Department. The reports shall be submitted **within sixty (60) days after the end of each semi-annual calendar period (January 1-June 30 and July 1 to December 31)**, and shall be signed and dated by an authorized representative.
 - a. The total fuel consumption on a monthly and 12-month rolling average basis. The enclosed Monitoring Report Form: *Fuel Consumption*, shall be used.
 - b. Any opacity exceedances as determined by the required V.E. monitoring. Each exceedance reported shall include the date, six (6) minute average opacity reading, possible reason 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 Form: *Visible Emissions*, shall be used.
 - c. 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. The enclosed Monitoring Report Form: *Used Oil Consumption*, shall be used.
 - d. The total amount of specification used oil combusted in the combustion turbines on a monthly and rolling twelve (12) month basis. The enclosed Monitoring Report Form: *Used Oil Consumption*, shall be used.

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

Section F. Testing Requirements

1. On an annual basis or at such times specified by the Department, the permittee shall conduct or cause to be conducted a source performance test on the combustion turbines CT1 and CT2 for sulfur dioxide (SO₂), nitrogen oxide (NO_x), carbon monoxide (CO), volatile organic compounds (VOC), and particulate matter. The performance tests shall be conducted at 60 percent and 80 percent of the maximum rated capacity, and the maximum operating (full load) capacity of each of the two combustion turbines being tested and at other operating capacities as may be specified by the Hawaii Department of Health.

The Department may waive a specific performance test upon written request of the permittee. Such a request would require justification on the basis that prior test(s) had shown compliance by a wide margin, operations of the source have not changed since the previous source test, and adequate means exist to show continuing compliance.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

2. Performance tests for the emissions of SO₂, NO_x, CO, VOC, and particulate matter shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60, Appendix A, and 40 CFR 60, Part 60.8. The following test methods or EPA-approved equivalent methods with consent from the Department shall be used:
 - a. Performance test for the emissions of SO₂ shall be conducted using EPA Methods 1-4 and 20;
 - b. Performance tests for the emissions of NO_x shall be conducted using EPA Methods 1-4 and 20;
 - c. Performance tests for the emissions of CO shall be conducted using EPA Methods 1-4 and 10;
 - d. Performance tests for the emissions of VOC shall be conducted using EPA Methods 1-4 and 25A; and
 - e. Performance tests for the emissions of particulate matter shall be conducted using EPA Methods 1-5.

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

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

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

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

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

5. **At least 30 days prior to performing a test**, the permittee shall submit a written 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 may be grounds to invalidate any test and require a retest.

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

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

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

7. **Within sixty (60) days after completion of the performance test**, the permittee shall submit to the Department of Health and U.S. EPA Region 9 the test report which shall include the operating conditions of the combustion turbines and associated equipment which are tested at the time of the test, the summarized test results, comparative results with the permit emission limits, and other pertinent field and laboratory data.

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

Section G. Agency Notification

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

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

**MONITORING REPORT FORM
USED OIL CONSUMPTION
COVERED SOURCE PERMIT (CSP) No. 0214-01-C**

Amended Date: September 12, 2007

Expiration Date: May 7, 2008

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.

(Make Copies for Future Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Description: _____

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): _____

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: _____

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

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

2. Report the amount of spec used oil fired in the combustion turbines.

Month	Spec used oil consumed (gal)	12-Month Rolling Basis	Notes
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			