

DRAFT

Date

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
(xxxx)

xxxx CAB
File No. 0030

Mr. Mathew McNeff
Manager, Power Supply
Maui Electric Company, Ltd.
P.O. Box 398
Kahului, Hawaii 96733

Dear Mr. McNeff:

SUBJECT: Covered Source Permit (CSP) No. 0030-06-C
Applications for Minor Modification No. 0030-10 and Renewal No. 0030-11
Maui Electric Company, Ltd. (MECO)
Miki Basin Generating Station
Eight (8) Diesel Engine Generators (DEGs)
Located At: 1001 North Miki Road, Lanai
UTM: Zone 4, 714,800 m E, 2,300,600 m N (NAD 83)
Date of Expiration: Date

The subject CSP is issued in accordance with Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1. The issuance of this permit is based on the plans, specifications, and information that you submitted as part of your application received on October 2, 2012, March 19, 2013, May 9, 2013, May 25, 2016, and additional information received on June 21, 2016, and March 20 and 24, 2017, April 26, 2017, and May 4, 2017. This permit supersedes CSP No. 0030-06-C, issued on October 8, 2008 and amended on August 27, 2009, in its entirety.

The CSP is issued subject to the conditions/requirements set forth in the following attachments:

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

Mr. Mathew McNeff
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The following forms are enclosed for your use and submittal as required:

Compliance Certification Form
Annual Emissions Report Form: Diesel Engine Generators
Monitoring Report Form: Fuel Consumption and Fuel Certification
Monitoring Report Form: Fuel Additives
Monitoring Report Form: NO_x Emissions
Monitoring Report Form: FITR
Monitoring Report Form: Opacity Exceedances
Compliance Report Form: Diesel Engine Generators
Excess Emissions and Monitoring System (CEMS) Performance Summary Report

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

Visible Emissions Form Requirements, State of Hawaii
Visible Emissions Form

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

If you have any questions, please contact Ms. Chenyan Song of the Clean Air Branch at (808) 586-4200.

Sincerely,

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

CS:jg

Enclosures

**ATTACHMENT I: STANDARD CONDITIONS
COVERED SOURCE PERMIT NO. 0030-06-C**

Issuance Date:

Expiration Date:

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

1. Unless specifically identified, the terms and conditions contained in this permit are consistent with the applicable requirement, including form, on which each term or condition is based.

(Auth.: HAR §11-60.1-90)
2. This permit, or a copy thereof, shall be maintained at or near the source and shall be made available for inspection upon request. The permit shall not be willfully defaced, altered, forged, counterfeited, or falsified.

(Auth.: HAR §11-60.1-6; SIP §11-60-11)²
3. This permit is not transferable whether by operation of law or otherwise, from person to person, from place to place, or from one piece of equipment to another without the approval of the Department, except as provided in HAR, Section 11-60.1-91.

(Auth.: HAR §11-60.1-7; SIP §11-60-9)²
4. A request for transfer from person to person shall be made on forms furnished by the Department.

(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 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 CSP. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department 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 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 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 copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health (Director) may require the permittee to furnish such records not only to the Department 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 in writing of the **intent to shut down air pollution control equipment for necessary scheduled maintenance** at least twenty-four (24) hours prior to the planned shutdown. The submittal of this notice shall not be a defense to an enforcement action. The notice shall include the following:
 - a. Identification of the specific equipment to be taken out of service, as well as its location and permit number;
 - b. The expected length of time that the air pollution control equipment will be out of service;
 - c. The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
 - d. Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
 - e. The reasons why it would be impossible or impractical to shut down the source operation during the maintenance period.

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

17. **Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with HAR, Section 11-60.1-16.5, in the event any emission unit, air pollution control equipment, or related equipment malfunctions or breaks down in such a manner as to cause the emission of air pollutants in violation of HAR, Chapter 11-60.1 or this permit**, the permittee shall immediately notify the Department of the malfunction or breakdown, unless the protection of personnel or public health or safety demands immediate attention to the malfunction or breakdown and makes such notification infeasible. In the latter case, the notice shall be provided as soon as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:

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

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

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

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

(Auth.: HAR §11-60.1-14, §11-60.1-90)

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

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

(Auth.: HAR §11-60.1-9, §11-60.1-90)

20. The Department 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.

(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, the Regional Administrator for the U.S. EPA and/or an authorized representative, upon presentation of credentials or other documents required by law:

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

(Auth.: HAR §11-60.1-11, §11-60.1-90)

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

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

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

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

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

(Auth.: HAR §11-60.1-93)

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

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

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

(Auth.: HAR §11-60.1-5, §11-60.1-90)

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

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

**ATTACHMENT II: SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0030-06-C**

Issuance Date:

Expiration Date:

In addition to the Standard Conditions of the Covered Source Permit, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

1. This permit encompasses the following equipment and associated appurtenances:

<u>Unit Nos.</u>	<u>Equipment Description</u>
LL1, LL2, L4	1.0 MW General Motors Electro-Motive Division (EMD) DEGs, Model No. 567-C, Serial Nos. 51-H-164, 54-C-141, and 56-G-13, respectively.
LL3, LL5, LL6	1.0 MW General Motors EMD DEGs, Model No. 645-C, Serial Nos. 56-F-135, 56-H-59, and 62-J-72, respectively.
LL7, LL8	2.2 MW Caterpillar DEGs, Model No. 3608, Serial Nos. 6MC00475, and 6MC00476, respectively.

(Auth.: HAR §11-60.1-3)

2. An identification tag or name plate shall be displayed on the equipment listed above to show the manufacturer, model number, and serial number, as applicable. The identification tag or name plate shall be permanently attached to the equipment at a conspicuous location.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

Section B. Applicable Federal Regulations

1. Unit Nos. LL1 - LL8 DEGs are all subject to the provisions of the following federal regulations:
- a. 40 Code of Federal Regulations (CFR) Part 63, National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Source Categories, Subpart A, General Provisions; and
 - b. 40 CFR Part 63, NESHAPs for Source Categories, Subpart ZZZZ, NESHAPs for Stationary Reciprocating Internal Combustion Engines (RICE).

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §63.1, §63.6585)¹

2. Unit Nos. LL1, LL3, LL5, and LL6 DEGs are subject to the provisions of the following federal regulations:

- a. 40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS), Subpart A, General Provisions; and
- b. 40 CFR Part 60, NSPS, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CIICE).

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

3. Unit Nos. LL2 and LL4 DEGs will be subject to the provisions of the following federal regulations, if they are overhauled with EMD 645 series power assembly components:

- a. 40 CFR Part 60, NSPS, Subpart A, General Provisions; and
- b. 40 CFR Part 60, NSPS, Subpart IIII, Standards of Performance for Stationary CIICE.

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

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

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR Part 60, Part 63)¹

Section C. Operational and Emissions Limitations

1. Fuel Specifications

a. Unit Nos. LL1-LL8 DEGs shall be fired only on the following fuels:

i. Diesel with the following specifications:

- (1) Maximum sulfur content not to exceed 0.0015% by weight; and
- (2) Minimum cetane index of forty (40) or maximum aromatic content of thirty-five (35) volume percent.

ii. Alternative fuels in accordance with Attachment II, Special Condition No. C.6.c; or

iii. Any combination thereof.

b. The combined fuel consumption of Unit Nos. LL1-LL6 DEGs shall not exceed 1,626,100 gallons in any rolling twelve-month (12-month) period.

c. The permittee may use a maximum of 1,000 gallons per DEG per rolling twelve-month (12-month) period of fuel additives to reduce corrosion, control biological growth, and enhance combustion. The burning of fuel additive(s) in combination with the fuel specified in Special Condition No. C.1.a of this attachment shall not result in the emission of any pollutant not previously emitted or exceed the emission limits specified

in Special Condition No.C.2 of this attachment. Fuel additives used shall not contain any inorganic hazardous air pollutants.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90; 40 CFR §60.4207, §63.6604, §80.510)¹

2. Maximum Emission Limits

a. Unit Nos. LL1-LL6 DEGs:

- i. The permittee shall not discharge or cause the discharge of nitrogen oxides (as NO₂) into the atmosphere from Unit Nos. LL1-LL6 in excess of the following specified limits:

Unit No.	Maximum NO _x Emission Limit (3-hr Average)		Unit-Specific Emission Factor (lb/gal)
	(lbs/hr)	(ppmvd @ 15% O ₂)	
LL1	28.5	710	0.359
LL2	25.9	680	0.335
LL3	28.5	710	0.360
LL4	28.6	710	0.395
LL5	27.2	705	0.342
LL6	25.4	670	0.330

- ii. The total annual emissions of nitrogen oxides (as NO₂) for Unit Nos. LL1-LL6 shall not exceed 288 tons per year in any rolling twelve-month (12-month) period. The emissions for each DEG shall be calculated on a monthly basis using the following formula:

$$\text{NO}_x \text{ emission (ton/month)} = (\text{gallons/month of diesel or approved alternate fuel}) \\
 * (\text{lb/gal maximum unit specific NO}_x \text{ emission factor}) \\
 * (\text{ton/2000 lbs})$$

The NO_x emissions of each DEG shall be summed to obtain the monthly total NO_x emissions. To determine the total amount of NO_x emissions per year in a rolling twelve-month (12- month) period from Unit Nos. LL1-LL6, the monthly total NO_x

emissions shall be summed with the preceding eleven (11) monthly total NO_x emissions.

b. Unit Nos. LL7-LL8 DEGs:

The permittee shall not discharge or cause the discharge of nitrogen oxides (as NO₂), sulfur dioxide, particulate matter, carbon monoxide, and volatile organic compounds into the atmosphere from Unit Nos. LL7 and LL8 in excess of the following specified limits:

Unit Nos. LL7-LL8	Maximum Emission Limit (3-hour Average)	
	(lbs/hr)	(ppmvd @ 15 percent O ₂)
Nitrogen Oxides (as NO ₂)	51.56	656
Sulfur Dioxide	9.34	76
Particulate Matter	2.69	0.076 ¹
Carbon Monoxide	10.19	210
Volatile Organic Compounds	2.23	81

Note:

1. Units are grains per dry standard cubic feet corrected to 12 percent CO₂.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-38, §11-60.1-90, §11-60.1-140)

3. Air Pollution Control

- a. For Unit Nos. LL1-LL6 DEGs, the permittee shall operate and maintain a fuel injection timing retard (FITR) of 5° from initial factory settings to meet the emission limits as specified in Attachment II, Special Condition No. C.2.a.
- b. For Unit Nos. LL7-LL8 DEGs, the permittee shall operate and maintain a FITR of 9° from initial factory settings to meet the emission limits as specified in Attachment II, Special Condition No. C.2.b.
- c. For Unit Nos. LL7-LL8 DEGs, the permittee shall use intake air cooling, good combustion practices, and high combustion efficiency.
- d. The use of an alternative control system(s) other than those specified above is contingent upon receiving written approval from the Department to use such a system and shall not relieve the permittee from the responsibility to meet all emission limitations contained within this permit.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

4. The permittee shall comply with the following requirements for each of the Unit Nos. LL1-LL8 DEGs
 - a. Install, operate, and maintain an oxidation catalyst.
 - b. Except during periods of startup, the DEG shall comply with either of the following emission limits:
 - i. Limit concentration of carbon monoxide (CO) in the engine exhaust to twenty-three (23) parts per million volumetric dry (ppmvd) at fifteen (15) percent oxygen (O₂); or
 - ii. Reduce CO emissions by seventy (70) percent or more.
 - c. Install, operate, and maintain a continuous parameter monitoring system (CPMS) to continuously monitor catalyst inlet temperature in accordance with 40 CFR §63.6625(b).
 - d. Except during periods of startup, maintain the temperature of the DEG's exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F or a different temperature range as approved by the U.S. EPA, Region 9.
 - e. Except during periods of startup, maintain the catalyst so that the pressure drop across the catalyst does not change by more than two (2) inches of water from the pressure drop across the catalyst that was measured during the initial performance test or a subsequent performance test as provided in 40 CFR §63.6640(b).
 - f. If the DEG is not equipped with a closed crankcase ventilation system, the permittee shall install, operate, and maintain either of the following control equipment:
 - i. A closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere; or
 - ii. An open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.
 - g. The permittee shall comply with the above emission limitations and operating limitations not later than May 3, 2013.
 - h. The permittee shall minimize the DEG's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed thirty (30) minutes, after which time the non-startup emission limits apply.

(Auth.: HAR §11-60.1-3, §11-60.1-90; 40 CFR §63.6595, §63.6603, §63.6625)¹

5. Visible Emissions

For any six (6) minutes averaging period, Unit Nos. LL1-LL8 DEGs shall not exhibit visible emissions of twenty (20) percent opacity or greater, except as follows: during start-up, shutdown, or equipment breakdown, the DEGs may exhibit visible emissions not greater

than sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90; 40 CFR §60.92; SIP §11-60-24)^{1,2}

6. Alternate Operating Scenario

- a. The permittee may replace each DEG with a temporary replacement unit if any repair reasonably warrants the removal of the DEG from its site (i.e., equipment failure, engine overhaul, or any major equipment problems requiring maintenance for efficient operation) and the following provisions are adhered to:
 - i. A request for the replacement unit shall be submitted in accordance with Attachment II, Special Condition No. E.9.a.
 - ii. The temporary replacement unit must be similar in size with equal or lesser emissions and with similar stack parameters,
 - iii. The temporary replacement unit shall comply with all applicable conditions including all air pollution control equipment requirements, operating restrictions, and emission limits.
 - iv. The installation and operation of the temporary replacement unit shall not exceed twelve (12) consecutive months.
 - v. The DEG shall be repaired and returned to service at the same location in a timely manner.
 - vi. Removal and return information shall be submitted in accordance with Attachment II, Special Condition No. E.9.b.
 - vii. The Department may require an ambient air quality assessment of the temporary unit, and/or provide a conditional approval to impose additional monitoring, testing, recordkeeping, and reporting requirements to ensure the temporary unit is in compliance with the applicable requirements of the permitted unit being temporarily replaced.
- b. The permittee may fire the DEGs on an alternate fuel provided the following conditions are met:
 - i. A written request to fire the DEGs on an alternate fuel shall be submitted and approved in accordance with Attachment II, Special Condition No. E.9.c;
 - ii. The Department may require an ambient air quality assessment for firing the alternate fuel and/or provide a conditional approval to impose additional monitoring, testing, recordkeeping, and reporting requirements.
- c. Records shall be maintained in accordance with Attachment II, Special Condition No. D.12.
- d. The terms and conditions under each operating scenario shall meet all applicable requirements, including special conditions of this permit.

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

7. The existing EMD 567 series Unit Nos. LL1, LL2, and LL4 DEGs may be overhauled with EMD 645 series power assembly components provided the following conditions are met:
 - a. Written notification with documentation that the overhaul will not constitute a major modification subject to Prevention of Significant Deterioration (PSD) review shall be provided to the Department in accordance with Attachment II, Special Condition E.9.d.
 - b. A performance test on the overhauled DEG shall be conducted within one-hundred eighty (180) days after the startup of the overhauled DEG to verify compliance with the emission limits in Attachment II, Section C.2 and in 40 CFR §60.4204(a) and (e). Testing shall be performed in accordance with Attachment II, Section F, Testing Requirements.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; 40 CFR §60.4204, §94.8)¹

8. Unit Nos. LL1-LL6 DEGs are exempt from a PSD review due to operating restrictions including the fuel consumption limitation of 1,626,100 gallons per twelve-month (12-month) period based on a monthly rolling basis and emission limitations contained in this permit. Any relaxation in the operating restrictions that increases the source's potential to emit above the applicable PSD threshold will require a full PSD review of the source as though construction had not yet commenced on the source.

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

Section D. Monitoring and Recordkeeping Requirements

1. Records

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

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

2. Fuel Consumption

Non-resetting fuel flow meter(s) shall be installed, operated, and maintained on Unit Nos. LL1-LL6 DEGs for the permanent recording of the total gallons of fuel consumed for the purpose of the fuel limitations specified in Attachment II, Special Condition No. C.1.b, and annual emissions reporting. The non-resetting meters shall not allow the manual resetting or other manual adjustments of the meter readings. The installation of any new non-resetting meters or the replacement of any existing non-resetting meters shall be designed to accommodate a minimum of five (5) years of equipment operation,

considering any operational limitations, before the meter returns to a zero reading. The following information shall be recorded:

- a. Date of meter readings for each DEG;
- b. Beginning and ending meter readings for each month for each DEG;
- c. Total gallons of fuel consumed for each month for each DEG; and
- d. Total combined gallons of fuel consumed by Unit Nos. LL1-LL6 DEGs on a rolling twelve-month (12-month) basis.

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

3. Fuel Specification

Fuel purchase receipts showing, as applicable, the fuel type, sulfur content (percent by weight), cetane index or aromatic content (volume percent), date of delivery, and amount (gallons) of fuel delivered for the DEGs shall be maintained for purposes of the fuel limits specified in Attachment II, Special Condition No. C.1.a, and annual emissions reporting. Fuel sulfur content, cetane index, and aromatic content may be demonstrated by providing the supplier's fuel specification sheet for the type of fuel purchased and received.

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

4. Fuel Additives

The permittee shall maintain the following records for the fuel additive(s) used by each DEG:

- a. Specific type of fuel additive(s) used;
- b. Date and amount of fuel additive(s) added to fuel storage tank(s);
- c. Name of person adding fuel additive;
- d. The Material Safety Data Sheets for the fuel additive(s) used;
- e. Total gallons of fuel additive(s) consumed for each month for each DEG; and
- f. Total gallons of fuel additive(s) consumed by each DEG on a rolling twelve-month (12-month) basis.

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

5. FITR

The permittee shall conduct and maintain records for **semi-annual** (calendar year) visual inspections and/or maintenance for each equipment subject to NO_x limits and FITR settings. At a minimum, these records shall include: the date of inspection; the name and title of the inspector; the FITR setting (in degrees) inspected; the FITR setting as adjusted; and brief comments on any corrective actions taken.

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

6. NO_x Emissions

The permittee shall calculate and maintain records of NO_x emission calculations in order to demonstrate compliance with the emission limits stated in Attachment II, Special Condition No. C.2.

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

7. Oxidation Catalyst

- a. The permittee shall install, operate, and maintain a CPMS on each DEG to monitor and record the catalyst inlet temperature. The permittee must prepare a site-specific monitoring plan. The CPMS and the site-specific monitoring plan must meet the requirements of 40 CFR §63.6625(b).
- b. The permittee shall monitor and record the catalyst inlet temperature, and measure and record the pressure drop across the catalyst once per month to demonstrate continuous compliance with the operating limits as specified in Attachment II, Special Condition No. C.4.c, d, and e.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §63.6625, §63.6640)¹

8. Continuous Emission Monitoring Systems (CEMS)

- a. The permittee shall, at its own expense, install, calibrate, maintain, and operate a CEMS for Unit Nos. LL7 and LL8 DEGs to monitor and record NO_x (as NO₂), and CO₂ or O₂ concentrations in the stack gases. The system shall meet the requirements of 40 CFR §60.13 and 40 CFR Part 60, Appendixes B and F. If CO₂ is measured with the CEMS to adjust the pollutant concentration, the CO₂ correction factor calculations listed in §60.4213(d)(3) shall be used to determine compliance with the applicable emission limit. The emissions for NO_x shall be recorded in ppmvd at fifteen percent (15%) O₂ and pounds per hour (lbs/hr).
- b. A single emission monitoring system operating sequentially to measure individual emissions from Unit Nos. LL7 and LL8 DEGs is acceptable.
- c. 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 (2) months. The relative accuracy test audit (RATA) must be conducted at least once every four calendar quarters. The test reports shall be postmarked by the **60th day** after completion of the RATA.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; 40 CFR §60.13, 40 CFR Part 60, Appendixes B, and F.)¹

9. Inspection, Maintenance, and Repair Log

An inspection, maintenance, and repair log shall be maintained for the equipment covered under this permit. Inspection and replacement of parts and repairs shall be well documented. At a minimum, the following records shall be maintained:

- a. The date of the inspection/maintenance/repair work;
- b. A description of the part(s) inspected or repaired;
- c. A description of the findings and any maintenance or repair work performed; and
- d. The name and title of the personnel performing the inspection/work.

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

10. Performance Test

Performance tests shall be conducted on the DEGs pursuant to Attachment II, Section F. Test summaries and results shall be maintained in accordance with the requirements of this section.

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

11. Visible Emissions

The permittee shall conduct **monthly** (calendar month) visible emissions observations for the DEGs by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9, or U.S. EPA approved equivalent methods, or alternative methods with prior written approval from the Department. For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the Visible Emissions Form Requirements.

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

12. Alternate Operating Scenario

The permittee shall contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility, the scenario under which it is operating.

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

Section E. Notification and Reporting Requirements

1. Standard Conditions Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 16, 17, and 24, 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; 40 CFR §60.48c(a); SIP §11-60-10, §11-60-16)^{1,2}

2. Deviations

The permittee shall report in writing within **five (5) working days** any deviations from 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 source testing, more frequent monitoring, or could trigger implementation of a corrective action plan.

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

3. Excess Emissions

For Unit Nos. LL7 and LL8 DEGs, the permittee shall submit **semi-annually** to the Department and U.S. EPA, Region 9, an excess emissions and monitoring systems performance report and/or summary report in accordance with 40 CFR §§60.7(c) and (d).

- a. If the total duration of excess emissions for the reporting period is less than one percent (1%) of the total operating time for the reporting period and CMS downtime for the reporting period is less than five percent (5%) of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR §60.7(c) need not be submitted unless requested by the Department.
- b. If the total duration of excess emissions for the reporting period is one percent (1%) or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is five percent (5%) or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR §60.7(c) shall both be submitted. The excess emissions report shall include the following information:
 - i. The magnitude of excess emissions computed in accordance with 40 CFR §60.13(h), any conversion factors used, the date and time of commencement and completion of each time period of excess emissions, and the corresponding load of the DEG(s). The process operating time during the reporting period.

- ii. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the DEG(s). The nature and cause of any malfunction (if known) and the corrective action taken or preventive measures adopted.
 - iii. The date and time identifying each period during which the CEMS was inoperative except for zero and span checks, and the nature of the system repairs or adjustments.
 - iv. When no excess emissions have occurred or the CEMS has not been inoperative, repaired, or adjusted, such information shall be stated in the report.
- c. For purposes of this permit, excess emissions of NO_x (as NO₂) shall be defined as any three (3) hour period during which the average emissions as measured by the continuous monitoring system, exceed the emission limits set forth in Attachment II, Special Condition No. C.2.b. Excess emissions indicated by the continuous monitoring system shall be considered violations of the applicable emission limit for the purposes of this permit.
- d. All reports shall be postmarked by the **30th day** following the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31). The enclosed **Excess Emissions and Continuous Monitoring System (CEMS) Performance Report and/or Summary Report** form, or an equivalent form shall be submitted.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.7)¹

4. Monitoring Reports

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 - December 31), be signed and dated by a responsible official, and shall include the following:

- a. The total fuel consumption of the Unit Nos. LL1-LL6 DEGs on a monthly and twelve-month (12-month) rolling basis;
- b. The types, sulfur content, cetane index or aromatic content of each fuel fired in all the DEGs;
- c. The types and consumption of fuel additive(s) for each of Unit Nos. LL1-LL8 DEGs on a monthly and twelve-month (12-month) rolling basis;
- d. The total NO_x emissions of Unit Nos. LL1-LL6 DEGs on a monthly and twelve-month (12-month) rolling basis;
- e. The FITR setting (in degrees) inspected, and the FITR setting as adjusted for any FITR deviations during the semi-annual observations for all the DEGs; and
- f. Identify any opacity exceedances as determined by the required visible emissions monitoring. Each exceedance reported shall include the date, six-minute (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 piece of equipment there were no exceedances for that semi-annual period.

The following enclosed or equivalent forms shall be used for reporting:

Monitoring Report Form: Fuel Consumption and Fuel Certification
Monitoring Report Form: Fuel Additives
Monitoring Report Form: NO_x Emissions
Monitoring Report Form: FITR
Monitoring Report Form: Opacity Exceedances

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

5. Compliance Reports

The permittee shall submit semi-annual compliance reports to the Department and U.S. EPA, Region 9, in accordance with 40 CFR §63.6650. The report shall be submitted within **thirty-one (31) days** after the end of each semi-annual reporting period (January 1 – June 30 and July 1 - December 31). The enclosed **Compliance Report Form: Diesel Engine Generators** or an equivalent form shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §63.6650)¹

6. Compliance Certification

- a. During the permit term, the permittee shall submit at least **annually** to the Department and U.S. EPA, Region 9, the attached **Compliance Certification Form** or equivalent 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:
 - i. The identification of each term or condition of the permit that is the basis of the certification;
 - ii. The compliance status;
 - iii. Whether compliance was continuous or intermittent;
 - iv. The methods used for determining the compliance status of the source currently and over the reporting period;
 - v. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification, including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act;
 - vi. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and in which the excursion or exceedances as defined in 40 CFR 64 occurred; and
 - vii. Any additional information as required by the Department, including information to determine compliance.

- b. The compliance certification shall be submitted within **sixty (60) days** after the end of each calendar year, and shall be signed and dated by a responsible official.
- c. Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department 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 Reports

- a. 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 pollutant, including hazardous air pollutants. The report is due within **sixty (60) days** following the end of each calendar year. The following enclosed form or equivalent form shall be used for reporting:

Annual Emissions Report Form: Diesel Engine Generators

- b. Upon the permittee's written request, the deadline for annual emissions reporting may be extended, if the Department determines that reasonable justification exists for the extension.

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

8. Performance Testing

- a. At least **thirty (30) days** prior to conducting a source performance test pursuant to Attachment II, Special Condition No. F.1, the permittee shall submit a performance test plan in accordance with Attachment II, Special Condition No. F.1.c.
- b. Within **sixty (60) days** after completion of a source performance test pursuant to Attachment II, Special Condition No. F.1, the permittee shall submit a test report in accordance with Attachment II, Special Condition No. F.1.d.
- c. At least **sixty (60) days** prior to conducting a source performance test pursuant to Attachment II, Special Condition No. F.2, the permittee shall submit a performance test plan and Notification of Intent to conduct a performance test in accordance with Attachment II, Special Condition No. F.2.a.
- d. Within **sixty (60) days** after completion of a source performance test pursuant to Attachment II, Special Condition No. F.2, the permittee shall submit a test report and Notification of Compliance status in accordance with Attachment II, Special Condition No. F.2.b.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8, §63.6645)¹

9. Alternate Operating Scenario

- a. The permittee shall submit a written request and receive prior written approval from the Department before exchanging the DEG with a temporary replacement unit. The written request shall identify, at a minimum, the reasons for the replacement of the DEG from the site of operation and the estimated time period/dates for the temporary replacement, type, and size of the temporary unit, emissions data, and stack parameters.
- b. Prior to the removal and return of the DEG, the permittee shall submit to the Department written documentation on the removal and return dates and on the make, size, model, and serial numbers for both the temporary replacement unit and the installed unit.
- c. The permittee shall submit a written request and receive prior written approval from the Department before firing the diesel engine generators on an alternate fuel. The written request shall identify, at a minimum, the type of fuel proposed, fuel consumption rate, potential effect on stack temperature and flow rate compared to diesel no. 2 oil, reasons for using the alternate fuel, and emissions data.

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

10. The permittee shall submit a written notification to the Department prior to any overhaul of DEG LL1, LL2, or LL4 in accordance with Attachment II, Special Condition No. C.7, identifying the unit to be overhauled and the estimated time for the overhaul to be completed. The permittee shall submit a notification of completion of the overhaul to the Department within fifteen (15) days after startup of the overhauled engine.

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

Section F. Testing Requirements

1. On an annual basis or at other such times as may be specified by the Department, the permittee shall conduct or cause to be conducted performance tests on the DEGs to demonstrate compliance with the requirements of Attachment II, Special Condition Nos. C.2.a and C.2.b. Performance tests shall be conducted on Unit Nos. LL1-LL6 DEGs for nitrogen oxides (NO₂), and on Unit Nos. LL7 and LL8 DEGs for particulate matter (PM), sulfur dioxide (SO₂), carbon monoxide (CO), and volatile organic compounds (VOC).
 - a. The tests shall be conducted at the maximum expected operating capacity of the DEGs or highest achievable load. The following test methods, U.S. EPA approved equivalent methods, or alternate methods with prior written approval from the Department shall be used:
 - i. Methods 1-4 and 5 for the emissions of PM;
 - ii. Methods 1-4 and 6C or Method 19 and the supplier's fuel specification or fuel analysis for the emissions of SO₂;
 - iii. Methods 1-4 and 7E for the emissions of NO_x;

- iv. Methods 1-4 and 10 for the emissions of CO; and
 - v. Methods 1-4 and 25A, for the emissions of VOC (Method 18 may be used as an alternative to Method 25A).
- b. Note that Method 1 cannot be used under the following conditions:
- i. Cyclonic or swirling gas flow at the sampling location;
 - ii. Stack or duct with a diameter less than twelve (12) inches or a cross-sectional area less than 113 square inches; or
 - iii. Sampling location less than two (2) stack or duct diameters downstream or less than a half diameter upstream from a flow disturbance.
- c. At least **thirty (30)** days prior to conducting a performance test, the permittee shall submit a written performance test plan to the Department and U.S. EPA, Region 9, that includes date(s) of the test, test duration, test locations, test methods, source operation, and other parameters that may affect the test results. Such a plan shall conform to U.S. EPA guidelines including quality assurance procedures. A test plan or quality assurance plan that does not have the approval of the Department may be grounds to invalidate any test and require a retest.
- d. Within **sixty (60) days** after completion of a performance test, the permittee shall submit to the Department and U.S. EPA, Region 9, the test report which shall include the operating conditions of the diesel engine generators at the time of the test, analysis of the fuel (if applicable), summarized test results, comparative results with the permit emission limits, and other pertinent field and laboratory data.
- e. Upon written request and justification, the Department may waive the requirement for, or a portion of, a specific performance test. The waiver request is to be submitted prior to the required test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior performance test indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous source test. The annual performance tests shall not be waived for more than two (2) consecutive years.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR 60.8; SIP §11-60.15)^{1,2}

2. The permittee shall conduct performance tests for CO on the diesel engine generators to demonstrate compliance with the requirements of Attachment II, Special Condition No. C.4.b. Following the initial performance test, subsequent performance tests shall be conducted after every 8,760 hours of operation or three (3) years of operation, whichever comes first. Performance tests shall be conducted under such conditions as the EPA specifies to the permittee based on representative performance (i.e., performance based on normal operating conditions) of the diesel engine generator. Performance tests for emissions of CO shall be conducted and results recorded and reported in accordance with the test methods and procedures set forth in 40 CFR §63.6620.

- a. At least **sixty (60) days** prior to performing a performance test, the permittee shall submit a written *performance test plan* to the Department and U.S. EPA, Region 9, (Attention: AIR-3) that includes Notification of Intent to conduct a performance test, 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.
- b. Within **sixty (60) days** after completion of the performance test required by Attachment II, Special Condition No. F.2, the permittee shall submit to the Department and U.S. EPA, Region 9, (Attention: AIR-3) a test report which shall include the operating conditions of the diesel engine generator at the time of the test, the summarized test results, comparative results with the permit emission limits, and other pertinent field and laboratory data. This report shall be submitted as a part of the Notification of Compliance Status required by Attachment II, Special Condition No. E.8.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §63.7, §63.6612, §63.6615, §63.6620; SIP §11-60.15)^{1,2}

3. Within one-hundred eighty (180) days after initial startup following the overhaul with EMD 645 series power assembly components, the permittee shall conduct initial performance tests on Unit Nos. LL1, LL2, and LL4 DEGs for NO₂ to demonstrate compliance with the emission limits in Attachment II, Section C.2.a and in 40 CFR §60.4204(a) and (e). Performance tests for emissions of NO₂ shall be conducted and results recorded and reported in accordance with the test methods and procedures set forth in 40 CFR §60.4212 (d).

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.4204, §60.4212, §94.8)¹

4. The performance test shall consist of three (3) separate runs using the applicable test method, and each test run must last at least one (1) hour. For the purpose of determining compliance with an applicable regulation, the arithmetic mean of the results of the three (3) runs shall apply.

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

5. The performance tests shall be made at the expense of the permittee and the Department may monitor the performance tests.

(Auth.: HAR §11-60.1-3, §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 before the tests.

(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 CSP shall be done in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

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

**ATTACHMENT II – INSIG
SPECIAL CONDITIONS – INSIGNIFICANT ACTIVITIES
COVERED SOURCE PERMIT NO. 0030-06-C**

Issuance Date:

Expiration Date:

In addition to the Standard Conditions of the Covered Source Permit, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

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

(Auth.: HAR §11-60.1-3)

Section B. Operational Limitations

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

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

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

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

The compliance certification shall be submitted within **sixty (60) days** after the end of each calendar year, and shall be signed and dated by a responsible official.

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

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

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

Section E. Agency Notification

Any document (including reports) required to be submitted by this CSP 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. 0030-06-C**

Issuance Date:

Expiration Date:

The following requirements for the submittal of annual fees are established pursuant to Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control. Should HAR, Chapter 60.1, be revised such that the following requirements are in conflict with the provisions of HAR, Chapter 60.1, the permittee shall comply with the provisions of HAR, Chapter 60.1:

1. Annual fees shall be paid in full:
 - a. Within **one-hundred twenty (120) days** after the end of each calendar year; and
 - b. Within **thirty (30) days** after the permanent discontinuance of the covered source.
2. The annual fees shall be determined and submitted in accordance with Hawaii Administrative Rules, Chapter 11-60.1, Subchapter 6.
3. The annual emissions data for which the annual fees are based shall accompany the submittal of any annual fees and be submitted on forms furnished by the Department.
4. The annual fees and the emission data shall be mailed to:

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

**ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS
COVERED SOURCE PERMIT NO. 0030-06-C**

Issuance Date:

Expiration Date:

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

1. Complete the attached form(s):

Annual Emissions Report Form: Diesel Engine Generators

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

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

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 upon request.
4. Any information submitted to the Department without a request for confidentiality shall be considered public record.
5. In accordance with HAR, Section 11-60.1-14, the permittee may request confidential treatment of specific information, including information concerning secret processes or methods of manufacture, by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0030-06-C
(PAGE 1 OF ___)**

Issuance Date: _____

Expiration Date: _____

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

(Make Copies of the Compliance Certification Form for Future Use)

For Period: _____ Date: _____

Company/Facility Name: _____

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

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

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0030-06-C
(CONTINUED, PAGE 2 OF ___)**

Issuance Date:

Expiration Date:

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

Instructions:

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

A. Attachment I, Standard Conditions

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

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

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

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0030-06-C
(CONTINUED, PAGE ___ OF ___)**

Issuance Date:

Expiration Date:

C. Special Conditions - Operational and Emissions Limitations

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

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

(Make Additional Copies if Needed)

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0030-06-C
(CONTINUED, PAGE ___ OF ___)**

Issuance Date:

Expiration Date:

D. Deviations

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

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

(Make Additional Copies if Needed)

**ANNUAL EMISSIONS REPORT FORM
DIESEL ENGINE GENERATORS
COVERED SOURCE PERMIT NO. 0030-06-C
(PAGE 1 OF 2)**

Issuance Date: _____

Expiration Date: _____

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

(Make Copies for Future Use)

For Reporting Period: _____ Date: _____

Company Name: MECO

Facility Name: Miki Basin Generating Station

Equipment: Unit Nos. LL1- LL6 1.0 MW GM EMD DEGs and Unit Nos. LL7-LL8 2.2 MW Caterpillar DEGs

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: _____ Phone Number: _____

Responsible Official (Signature): _____

1. Report the total fuel consumption and maximum sulfur content for each type of fuel fired in each individual DEG during this reporting period:

Unit No.	Fuel Type	Fuel Use (gallons)	Maximum Sulfur Content (% by weight)
LL1			
LL2			
LL3			
LL4			
LL5			
LL6			
LL7			
LL8			

**ANNUAL EMISSIONS REPORT FORM
DIESEL ENGINE GENERATORS
COVERED SOURCE PERMIT NO. 0030-06-C
(CONTINUED, PAGE 2 OF 2)**

Issuance Date:

Expiration Date:

2. Report the type of air pollution control, pollutant(s) controlled, and control efficiency:

Unit No.	Type of Air Pollution Control	In Use? (Y/N)	Pollutant(s) Controlled	Control Efficiency / % Reduction
LL1				
LL2				
LL3				
LL4				
LL5				
LL6				
LL7				
LL8				

**MONITORING REPORT FORM
FUEL CONSUMPTION AND FUEL CERTIFICATION
COVERED SOURCE PERMIT NO. 0030-06-C
(PAGE 1 OF 2)**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: MECO

Facility Name: Miki Basin Generating Station

Equipment: Unit Nos. LL1- LL6 1.0 MW GM EMD DEGs and Unit Nos. LL7-LL8 2.2 MW Caterpillar DEGs

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: _____ Phone Number: _____

Responsible Official (Signature): _____

1. Report the total fuel consumption of Unit No. LL1-LL6 DEGs for the reporting period:

Month	Monthly Basis (gallons)						Combined 12-Month Rolling Basis (gallons)
	LL1	LL2	LL3	LL4	LL5	LL6	
January							
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							

**MONITORING REPORT FORM
FUEL CONSUMPTION AND FUEL CERTIFICATION
COVERED SOURCE PERMIT NO. 0030-06-C
(PAGE 2 OF 2)**

Issuance Date:

Expiration Date:

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

- 2. Report on each fuel fired in the DEGs for the reporting period:

DEG Unit No.	Types of Fuel Fired	Maximum Sulfur Content (% by Weight)	Minimum Cetane Index	Maximum Aromatic Content (Volume %)
LL1				
LL2				
LL3				
LL4				
LL5				
LL6				
LL7				
LL8				

**MONITORING REPORT FORM
FUEL ADDITIVES
COVERED SOURCE PERMIT NO. 0030-06-C
(PAGE 1 OF 3)**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: MECO

Facility Name: Miki Basin Generating Station

Equipment: Unit Nos. LL1- LL6 1.0 MW GM EMD DEGs and Unit Nos. LL7-LL8 2.2 MW Caterpillar DEGs

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: _____ Phone Number: _____

Responsible Official (Signature): _____

Report the name and total fuel additive usage for each of Unit Nos. LL1-LL8 DEGs for the reporting period:

Month	Unit No. LL1			Unit No. LL2		
	Additive Name	Monthly Basis Quantity (gal)	12-Month Rolling Basis Quantity (gal)	Additive Name	Monthly Basis Quantity (gal)	12-Month Rolling Basis Quantity (gal)
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

**MONITORING REPORT FORM
FUEL ADDITIVES
COVERED SOURCE PERMIT NO. 0030-06-C
(PAGE 2 OF 3)**

Issuance Date:

Expiration Date:

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

Month	Unit No. LL3			Unit No. LL4		
	Additive Name	Monthly Basis Quantity (gal)	12-Month Rolling Basis Quantity (gal)	Additive Name	Monthly Basis Quantity (gal)	12-Month Rolling Basis Quantity (gal)
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

Month	Unit No. LL5			Unit No. LL6		
	Additive Name	Monthly Basis Quantity (gal)	12-Month Rolling Basis Quantity (gal)	Additive Name	Monthly Basis Quantity (gal)	12-Month Rolling Basis Quantity (gal)
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

**MONITORING REPORT FORM
FUEL ADDITIVES
COVERED SOURCE PERMIT NO. 0030-06-C
(PAGE 3 OF 3)**

Issuance Date:

Expiration Date:

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

Month	Unit No. LL7			Unit No. LL8		
	Additive Name	Monthly Basis Quantity (gal)	12-Month Rolling Basis Quantity (gal)	Additive Name	Monthly Basis Quantity (gal)	12-Month Rolling Basis Quantity (gal)
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

**MONITORING REPORT FORM
NO_x EMISSIONS
COVERED SOURCE PERMIT NO. 0030-06-C**

Issuance Date: _____

Expiration Date: _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:
(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: MECO

Facility Name: Miki Basin Generating Station

Equipment: Unit Nos. LL1- LL6 1.0 MW GM EMD DEGs

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: _____ Phone Number: _____

Responsible Official (Signature): _____

1. Report the total NO_x emissions of Unit Nos. LL1-LL6 DEGs for the reporting period:

Month	Monthly Basis (tons)						Combined 12-Month Rolling Basis (tons)
	LL1	LL2	LL3	LL4	LL5	LL6	
January							
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							

COMPLIANCE REPORT FORM
DIESEL ENGINE GENERATORS
COVERED SOURCE PERMIT NO. 0030-06-C
(PAGE 1 OF 3)

Issuance Date:

Expiration Date:

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:
(Make Copies for Future Use)

For Period: _____ Date: _____

Company Name: MECO

Facility Name: Miki Basin Generating Station

Equipment: Unit Nos. LL1- LL6 1.0 MW GM EMD DEGs and Unit Nos. LL7-LL8 2.2 MW Caterpillar DEGs

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: _____ Phone Number: _____

Responsible Official (Signature): _____

Complete separate forms for each DEG and report the following for Unit Nos. LL1-LL8 DEGs in accordance with 40 CFR §63.6650:

Unit No. _____

1. Were there any deviations from any emission or operating limitations during the reporting period?

___ Yes ___ No

2. Were there any periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), during the reporting period?

___ Yes ___ No

**COMPLIANCE REPORT FORM
DIESEL ENGINE GENERATORS
COVERED SOURCE PERMIT NO. 0030-06-C
(CONTINUED, PAGE 2 OF 3)**

Issuance Date:

Expiration Date:

3. Report the number of malfunctions during the reporting period which caused or may have caused any applicable emission limitation to be exceeded: _____

Duration of Malfunction	Description for Each Type of Malfunction	Description of Actions Taken to Minimize Emissions/Correct Malfunction

(Make Additional Copies if Needed)

**COMPLIANCE REPORT FORM
DIESEL ENGINE GENERATORS
COVERED SOURCE PERMIT NO. 0030-06-C
(CONTINUED, PAGE 3 OF 3)**

Issuance Date:

Expiration Date:

4. For each deviation from an emission or operating limitation, provide the following information in accordance with 40 CFR §63.6650(e):
 - a. The date and time that each malfunction started and stopped.
 - b. The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.
 - c. The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
 - d. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
 - e. A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
 - f. A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
 - g. A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary engine at which the CMS downtime occurred during that reporting period.
 - h. An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary engine.
 - i. A brief description of the stationary engine.
 - j. A brief description of the CMS.
 - k. The date of the latest CMS certification or audit.
 - l. A description of any changes in CMS, processes, or controls since the last reporting period.

**EXCESS EMISSIONS AND MONITORING SYSTEM PERFORMANCE (CEMS)
SUMMARY REPORT
COVERED SOURCE PERMIT NO. 0030-06-C
(PAGE 1 OF 2)**

Issuance Date: _____ **Expiration Date:** _____

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Future Use)

Company Name: MECO

Facility Name: Miki Basin Generating Station

Equipment: Unit Nos. LL7-LL8 2.2 MW Caterpillar DEGs

Serial/ID Number: _____

Pollutant Monitored: _____

From: Date: _____ Time: _____

To: Date: _____ Time: _____

Emission Limitation: _____

Date of Last CEMS Certification/Audit: _____

Total Source Operating Time: _____

EMISSION DATA SUMMARY

1. Duration (Hours) of Excess Emissions in Reporting Period Due to:
 - a. Startup/Shutdown..... _____
 - b. Cleaning/Soot Blowdown..... _____
 - 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)

<p>EXCESS EMISSIONS AND MONITORING SYSTEM PERFORMANCE (CEMS) SUMMARY REPORT COVERED SOURCE PERMIT NO. 0030-06-C (CONTINUED, PAGE 2 OF 2)</p>
<p>Issuance Date: _____ Expiration Date: _____</p>

CEMS PERFORMANCE SUMMARY

1. CEMS Downtime (Hours) 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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____ Phone Number: _____

Responsible Official (Signature): _____

**VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII
COVERED SOURCE PERMIT NO. 0030-06-C**

Issuance Date:

Expiration Date:

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

1. VE observations shall take place during the day only. The opacity shall be noted in five (5) percent increments (e.g., 25%).
2. Orient the sun within a one hundred forty (140) degree sector to your back. Provide a source layout sketch on the VE Form using the symbols as shown.
3. For VE observations of stacks, stand at least three (3) stack heights but not more than a quarter mile from the stack.
4. For VE observations of fugitive emissions from crushing and screening plants, stand at least 4.57 meters (15 feet) from the visible emissions source, but not more than a quarter mile from the visible emission source.
5. Two (2) consecutive six (6) minutes observations shall be taken at fifteen (15) second intervals for each stack or emission point.
6. The six (6) minutes average opacity reading shall be calculated for each observation.
7. If possible, the observations shall be performed as follows:
 - a. Read from where the line of sight is at right angles to the wind direction.
 - b. The line of sight shall not include more than one (1) plume at a time.
 - c. Read at the point in the plume with the greatest opacity (without condensed water vapor), ideally while the plume is no wider than the stack diameter.
 - d. Read the plume at fifteen (15) second intervals only. Do not read continuously.
 - e. The equipment shall be operating at the maximum permitted capacity.
8. If the equipment was shut-down for that period, briefly explain the reason for shut-down in the comment column.

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

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

**VISIBLE EMISSIONS FORM
COVERED SOURCE PERMIT NO. 0030-06-C**

Issuance Date: _____

Expiration Date: _____

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

Company Name: _____

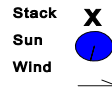
For stacks, describe equipment and fuel: _____

For fugitive emissions from crushers and screens, describe:

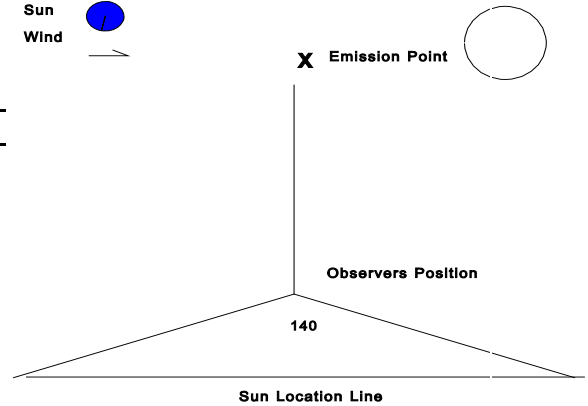
Fugitive emission point: _____

Plant Production (tons/hr): _____

(During observation)



Draw North Arrow



Site Conditions:

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

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

Emission color (black or white): _____

Sky conditions (% cloud cover): _____

Wind speed (mph): _____

Temperature (EF): _____

Observer Name: _____

Certified? (Yes/No): _____

Observation Date and Start Time: _____

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

Observation Date and Start Time: _____

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