

PROPOSED

[Issuance Date]

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

05-XXXE CAB
File No. 0209-01

Commanding Officer
15th Airlift Wing
United States Air Force
800 Scott Circle
Hickam Air Force Base, Hawaii 96853-5328

Attn: Melvin E. Muraoka

Dear Commanding Officer:

**Subject: Covered Source Permit (CSP) No. 0209-01-C
Renewal and Modification Application No. 0209-05
United States Air Force, 15th Airlift Wing
Base Equipment and Facilities
Located at: Hickam Air Force Base, Oahu
Date of Expiration: [Five-Year Period from Issuance Date]**

The subject covered source permit 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 additional information that you submitted as part of your renewal application received on January 31, 2003, the application for significant modification on July 28, 2004; and the additional information as part of your application on January 22, May 25, June 10, September 23 and 29, October 19, November 1, 10, 15, 16, 19, and 24, and December 6, 2004, and January 21, February 9, March 7 and 22, April 18, and May 3, 4, 5, and 26, 2005. This permit supersedes CSP No. 0209-01-C, issued on March 21, 2003, under application No. 0209-04, in its entirety.

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

- Attachment I: Standard Conditions
- Attachment IIA: Special Conditions - Boilers
- Attachment IIB: Special Conditions - Internal Combustion Engines
- Attachment IIC: Special Conditions - Aircraft Engine Test Facilities
- Attachment IID: Special Conditions - Incinerators
- Attachment IIE: Special Conditions - Fuel Loading Facilities
- Attachment IIF: Special Conditions - Crushing, Screening, and Tub Grinding
- Attachment II - INSIG: Special Conditions - Insignificant Activities
- Attachment III: Annual Fee Requirements
- Attachment IV: Annual Emissions Reporting Requirements

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The forms for the submission are as follows:

Compliance Certification Form
Annual Emissions Report Form: Boiler Fuel Consumption
Annual Emissions Report Form: Internal Combustion Engine Fuel Consumption
Annual Emissions Report Form: F-15 Aircraft F100-PW-100 Engine Testing
Annual Emissions Report Form: F-15 Aircraft F100-PW-220 Engine Testing
Annual Emissions Report Form: Incinerators
Annual Emissions Report Form: Fuel Loading Facility Throughput
Annual Emissions Report Form: Crushing and Screening Plant Production
Annual Emissions Report Form: Diesel Engine Fuel Consumption
Monitoring Report Form: Boiler Fuel Certification
Monitoring Report Form: Internal Combustion Engine Operating Hours
Monitoring Report Form: Aircraft Engine Test Facility Operating Hours
Monitoring Report Forms: Incinerators
Monitoring Report Form: Fuel Loading Facility Throughput
Monitoring Report Forms: Crushing, Screening, and Tub Grinder Plant Operating Hours
Monitoring Report Form: Diesel Engine Fuel Certification
Monitoring Report Form: Visible Emissions with the following enclosures:
a. Visible Emissions Form Requirements State of Hawaii
b. Visible Emissions Form State of Hawaii; and
c. The Ringelmann Chart

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

Sincerely,

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

MM:lk
Enclosures
c: CAB Monitoring Section

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ATTACHMENT I: STANDARD CONDITIONS COVERED SOURCE PERMIT NO. 0209-01-C

[Issuance Date]

[Expiration Date]

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

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

(Auth.: HAR §11-60.1-90)

2. This permit, or a copy thereof, shall be maintained at or near the source and shall be made available for inspection upon request. The permit shall not be wilfully defaced, altered, forged, counterfeited, or falsified.

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

3. This permit is not transferable whether by operation of law or otherwise, from person to person, from place to place, or from one piece of equipment to another without the approval of the Department of Health, except as provided in HAR, Section 11-60.1-91.

(Auth.: HAR §11-60.1-7; SIP §11-60-9)²

4. A request for transfer from person to person shall be made on forms furnished by the Department of Health.

(Auth.: HAR §11-60.1-7)

5. In the event of any changes in control or ownership of the facilities to be constructed or modified, this permit shall be binding on all subsequent owners and operators. The permittee shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, copies of which will be forwarded to the Department of Health and the Regional Administrator for the U.S. Environmental Protection Agency (EPA).

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

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

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

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

(Auth.: HAR §11-60.1-5, §11-60.1-82)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-14, §11-60.1-90)

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

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

17. **Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with HAR, Section 11-60.1-16.5, in the event any emission unit, air pollution control equipment, or related equipment malfunctions or breaks down in such a manner as to cause the emission of air pollutants in violation of HAR, Chapter 11-60.1 or this permit, the permittee shall immediately notify the Department of Health of the malfunction or breakdown, unless the protection of personnel or public health or safety demands immediate attention to the malfunction or breakdown and makes such notification infeasible. In the latter case, the notice shall be provided as soon as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:**
- a. Identification of each affected emission point and each emission limit exceeded;
 - b. Magnitude of each excess emission;
 - c. Time and duration of each excess emission;
 - d. Identity of the process or control equipment causing each excess emission;
 - e. Cause and nature of each excess emission;
 - f. Description of the steps taken to remedy the situation, prevent a recurrence, limit the excessive emissions, and assure that the malfunction or breakdown does not interfere with the attainment and maintenance of the National Ambient Air Quality Standards and state ambient air quality standards;
 - g. Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and
 - h. A statement that the excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

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

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

18. A copy of applicable correspondence or records submitted to the Department of Health shall be provided to the U.S. EPA Administrator.

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-14, §11-60.1-90)

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

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

(Auth.: HAR §11-60.1-9, §11-60.1-90)

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

(Auth.: HAR §11-60.1-9, §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

23. All certifications shall be in accordance with HAR, Section 11-60.1-4.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

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

(Auth.: HAR §11-60.1-11, §11-60.1-90)

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

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

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

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

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

(Auth.: HAR §11-60.1-93)

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

(Auth.: HAR §11-60.1-90)

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

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

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

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

30. 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)

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

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

**ATTACHMENT IIA: SPECIAL CONDITIONS - BOILERS
COVERED SOURCE PERMIT NO. 0209-01-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. Attachment IIA encompasses the following boilers:

Boiler No.	Building	Manufacturer	Model	Heat Input (MMBtu/hr)	Serial No.
B-906A	906	Bryan Boilers	CL-210-S-150-FDO	2.1	85677
B-906B	906	Bryan Boilers	CL-210-S-150-FDO	2.1	89992

2. The permittee shall attach an identification tag or name plate on each boiler, which identifies the model no., serial no., unit identification no., and manufacturer. The identification tag or name plate shall be permanently attached to each boiler at a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Operational and Emission Limitations

1. Boiler Operation

- a. For any six (6) minute averaging period, each boiler shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during the start-up, shutdown, or equipment breakdown, each boiler may exhibit visible emissions greater than twenty (20), but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minutes.
- b. Each boiler shall be fired only on fuel oil No. 2 with a maximum sulfur content not to exceed 0.5 % by weight.
- c. Each boiler shall be properly maintained and kept in good operating condition at all times. The permittee shall follow a regular maintenance schedule to ensure proper operation of the boilers as recommended by the manufacturer and as needed.

(Auth.: HAR §11-60.1-3 ,§11-60.1-5, §11-60.1-32, §11-60.1-38, §11-60.1-90; SIP §11-60-24)¹

Section C. Monitoring and Recordkeeping Requirements

1. Records

All records, including support information, shall be maintained for a minimum of five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes maintenance, inspection, and repair records of the subject equipment. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or its representative upon request.

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

2. Fuel Consumption

Records shall be maintained on the sulfur content (percent by weight) and the total amount (gallons) of fuel fired by the boilers for purposes of the fuel limitation specified in Attachment IIA, Special Condition No. B.1.b and annual emissions reporting requirements. The total gallons of fuel fired shall be determined from logs on the quantity of fuel transferred to the fuel storage tanks for the boilers. Fuel sulfur content may be demonstrated by providing the supplier's fuel specification sheet for the type of fuel received.

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

3. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on each boiler for purposes of the requirements specified in Attachment IIA, Special Condition No. B.1.c. At a minimum, these records shall include:

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

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

4. Visible Emissions (V.E.)

- a. Except in those months when V.E. observations are conducted by a certified reader for the annual observation, the permittee shall conduct **monthly** (calendar month) V.E. observations for each boiler subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. For the monthly observation of each boiler, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the **Visible Emissions Form Requirements**.

- b. The permittee shall conduct **annually** (calendar year) V.E. observations for each boiler subject to opacity limits by a certified reader in accordance with Method 9. For the annual observation for each boiler, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the **Visible Emissions Form Requirements**.
- c. Upon written request and justification by the permittee, the Department of Health may waive the requirement for a specific annual V.E. observation. The waiver request is to be submitted prior to the required annual V.E. observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior V.E. observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous annual V.E. observation.

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

Section D. Notification and Reporting Requirements

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 17 and 25, respectively:

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

(Auth.: HAR §11-60.1-3, §11-60.1-8, §11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)¹

2. Deviations

The permittee shall report **within five (5) working days** any deviations from the permit requirements, including those attributed to upset conditions, the probable cause of such deviations, and any corrective actions or preventative measures taken. Corrective actions may include a requirement for stack testing, 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)

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3. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA Region 9, **Form C-2: 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 a responsible official or 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)

4. 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 hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following** the end of each calendar year. The attached **Annual Emission Report Form: Boiler Fuel Consumption** shall be used for reporting.

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Upon the written request of the permittee, the deadline for reporting 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)

5. Monitoring Reports

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

- a. The type(s) and maximum sulfur content of fuel fired by the boilers for the reporting period.
- 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: Boiler Fuel Certification** and **Monitoring Report Form: Visible Emissions** shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, SIP §11-60-15)¹

Section E. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹ The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

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ATTACHMENT IIB: SPECIAL CONDITIONS - INTERNAL COMBUSTION ENGINES COVERED SOURCE PERMIT NO. 0209-01-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. Attachment IIB encompasses the following gasoline fired internal combustion engines:

Engine Pit ID No.	Manufacturer	Model No.	Horse Power	Location	Rebuild Serial No.	ID No.
G-658	Teledyne/Wisconsin	V465D1	66	26 Left, Control Side	-----	2002-26-01
G-675	Teledyne/Wisconsin	V465D1	66	26 Left, Non Control Side	-----	2002-26-02
G-855	Wisconsin	V465D1	66	4 Right, Control Side	MSS9593	-----
G-856	Wisconsin	V465D1	66	4 Right, Non Control Side	MSS9595	-----

(Auth.: HAR §11-60.1-3)

2. An identification tag or name plate shall be attached to internal combustion engine nos. G-658 and G-675 which identifies the model no., pit no., identification no., and manufacturer. An identification tag or name plate shall be attached to internal combustion engine nos. G-855 and G-856 which identifies the model no., pit no., rebuild no., and manufacturer. The identification tag or name plate shall be permanently attached to the equipment at a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Operational and Emission Limitations

1. Hour Limitations
 - a. The total operating hours of internal combustion engine no. G-855, shall not exceed 730 hours in any rolling twelve-month (12-month) period.
 - b. The total operating hours of internal combustion engine no. G-856, shall not exceed 730 hours in any rolling twelve-month (12-month) period.

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

2. Maintenance

Each internal combustion engine shall be properly maintained and kept in good operating condition at all times. The permittee shall follow a regular maintenance schedule to ensure proper operation of the internal combustion engines as recommended by the manufacturer and as needed.

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

3. Visible Emissions

For any six (6) minute averaging period, each internal combustion engine shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during the start-up, shutdown, or equipment breakdown, each internal combustion engine 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) minutes.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-32, §11-60.1-90; SIP §11-60-24)¹

Section C. Monitoring and Recordkeeping Requirements

1. Records

All records, including support information, shall be maintained for a minimum of five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes maintenance, inspection, and repair records of the subject equipment. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or its representative upon request.

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

2. Fuel Consumption

Records shall be maintained on the amount (gallons) of fuel fired by the internal combustion engines for purposes of annual emissions reporting. The gallons of fuel consumed by the internal combustion engines shall be determined from logs that document the amount of fuel dispensed into each engine for refueling.

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

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3. Hour Limitations

A non-resetting hour meter shall be operated and maintained on internal combustion engine Nos. G-855 and G-856 for the permanent recording of the total hours the engines have operated for purposes of the requirements specified in Attachment IIB, Special Condition No. B.1. The following information, at a minimum, shall be recorded for each internal combustion engine:

- a. The date of the meter readings;
- b. Beginning meter readings for each month;
- c. The total hours of operation for each month; and
- d. The total operating hours on a twelve-month (12-month) rolling basis.

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

4. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on each internal combustion engine for purposes of the requirements specified in Attachment IIB, Special Condition No. B.2. At a minimum, these records shall include:

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

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

5. Visible Emissions (V.E.)

- a. Except in those months when V.E. observations are conducted by a certified reader for the annual observation, the permittee shall conduct **monthly** (calendar month) V.E. observations for each internal combustion engine subject to opacity limits in accordance with Method 9 or by use of a Ringelmann Chart as provided. For the monthly observation for each internal combustion engine, 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**.

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- b. The permittee shall conduct **annually** (calendar year) V.E. observations for each internal combustion engine subject to opacity limits by a certified reader in accordance with Method 9. For the annual observation for each internal combustion engine, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the **Visible Emissions Form Requirements**.
- c. Upon written request and justification by the permittee, the Department of Health may waive the requirement for a specific annual V.E. observation. The waiver request is to be submitted prior to the required annual V.E. observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior V.E. observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous annual V.E. observation.

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

Section D. Notification and Reporting Requirements

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 17 and 25, respectively:

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

(Auth.: HAR §11-60.1-3, §11-60.1-8, §11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)¹

2. Deviations

The permittee shall report **within five (5) working days** any deviations from the permit requirements, including those attributed to upset conditions, the probable cause of such deviations, and any corrective actions or preventative measures taken. Corrective actions may include a requirement for stack testing, 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)

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3. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA Region 9, **Form C-2: 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 a responsible official or 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)

4. 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 hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following** the end of each calendar year. The attached **Annual Emission Report Form: Internal Combustion Engine Fuel Consumption** shall be used for reporting.

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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)

5. Monitoring Reports

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

- a. The total operating hours of internal combustion engine Nos. G-855 and G-856 on a monthly and twelve-month (12-month) rolling basis.
- b. Any opacity exceedances as determined by the required V.E. monitoring of the internal combustion engines. 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: Internal Combustion Engine Operating Hours**, and **Monitoring Report Form: Visible Emissions**, shall be used.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; SIP §11-60-15)¹

Section E. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90).

¹ The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT IIC: SPECIAL CONDITIONS - AIRCRAFT ENGINE TEST FACILITIES
COVERED SOURCE PERMIT NO. 0209-01-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. Except for testing F-15 aircraft engines installed on aircraft that are considered mobile sources and exempt from permitting if tested outside the hush house, Attachment IIC encompasses the following aircraft engine test operations:

Test Site	Aircraft Engines Tested	Aircraft Engine Test Operations
TC-11666 (hush house)	T-100-PW-100 and F-100-PW-220 engines for F-15 aircraft	testing engines installed on aircraft and on test stand inside hush house
TC-11665A	T-100-PW-100 and F-100-PW-220 engines for F-15 aircraft	testing engines on test stand

(Auth.: HAR §11-60.1-3)

Section B. Operational and Emission Limitations

1. Hour Limitations

The total combined hours of operation for testing F-15 aircraft engines installed on aircraft and on test stand inside the hush house at site TC-11666 shall not exceed 416 hours in any rolling twelve (12) month period.

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

2. Visible Emissions

For any six (6) minute averaging period, operations for testing aircraft engines inside the hush house shall not exhibit visible emissions of twenty (20) percent or greater except as follows: during the start-up, shutdown, or equipment breakdown, operations for testing aircraft engines inside the hush house 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) minutes.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-32, §11-60.1-90; SIP §11-60-24)¹

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Section C. Monitoring and Recordkeeping Requirements

1. Records

All records, including support information, shall be maintained for a minimum of five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes maintenance, inspection, and repair records of the subject facilities. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or its representative upon request.

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

2. Hours of Operation

The total combined hours of operation shall be maintained for testing F-15 aircraft engines inside hush house (site TC-11666) for purposes of the hour limitation specified in Attachment IIC, Special Condition No. B.1. Time of operation for each test mode shall be logged on the engine run track sheets for each engine tested. The total combined hours of operation on a monthly and twelve-month (12-month) rolling basis shall be determined from the time of operation logged on engine run track sheets.

3. Fuel Consumption

Fuel consumption records shall be maintained for F-15 aircraft engines tested at sites TC-11665A and TC11666 for purposes of annual emissions reporting. Fuel consumption shall be determined from engine run tracking sheets that relate fuel use to time of operation. Time of operation and fuel use for each test mode shall be logged on the engine run track sheets for each engine tested.

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

4. Visible Emissions (V.E.)

Although not required at this time, the Department of Health, if so desires, may at any time require the permittee to conduct monthly and annual visible emissions monitoring for testing aircraft engines inside the hush house.

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

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Section D. Notification and Reporting Requirements

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 17 and 25, respectively:

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

(Auth.: HAR §11-60.1-3, §11-60.1-8, 11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90 SIP §11-60-10, §11-60-16)¹

2. Deviations

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

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

3. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA Region 9, **Form C-2: 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;

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- e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification, including the requirements of Section 114 (a) (3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504 (b) of the Clean Air Act; and
- f. Any additional information as required by the Department of Health, including information to determine compliance.

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

4. 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 hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following** the end of each calendar year. The annual emissions shall be calculated and reported using the total combined fuel consumption and emissions factor for each power level. The attached **Annual Emission Report Form: F-15 Aircraft F100-PW-100 Engine Testing** and **Annual Emission Report Form: F-15 Aircraft F100-PW-220 Engine Testing**, shall be used for 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; SIP §11-60-15)¹

5. Monitoring Report

The permittee shall submit **semi-annually** the following written report to the Department of Health for monitoring purposes. The report shall be submitted **within sixty (60) days after** the end of each semi-annual calendar period (January 1 to June 30 and July 1 to December 31) and shall include the total combined operating hours for testing F-15 aircraft engines installed on aircraft and on test stand inside hush house (site TC-11666) on a monthly and twelve-month (12-month) rolling basis.

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The enclosed **Monitoring Report Form: Aircraft Engine Test Facility Operating Hours**, shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP §11-60-15)¹

Section E. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 29.

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

¹ The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

PROPOSED

**ATTACHMENT IID: SPECIAL CONDITIONS - INCINERATORS
COVERED SOURCE PERMIT NO. 0209-01-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. Attachment IID encompasses the following incinerators located at Bishop Point:

Unit ID No.	Waste Incinerated	Manufacturer	Model	Number of Chambers	Capacity
I-1097	Photographic Material Type "O" Waste	National Incinerator, Inc.	LI750	3	750 lb/hr
I-83366	Photographic Material Type "O" Waste	National Incinerator, Inc.	LI750	3	750 lb/hr

(Auth.: HAR §11-60.1-3)

2. The permittee shall permanently attach an identification tag or name plate on each incinerator, which identifies the model no., unit identification no., and manufacturer. The identification tag or name plate shall be permanently attached to the equipment at a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Operational and Emission Limitations

1. Auxiliary Fuel

Each incinerator shall be fired only on propane or other liquified petroleum gas (LPG).

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

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2. Incinerator Waste

Each incinerator shall be charged only with photographic material waste consisting of film material and Type "O" waste consisting of waste paper, wood, and cardboard cartons. This permit does not authorize the burning of hazardous waste. All hazardous waste shall be removed from the waste to be incinerated and disposed of properly.

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

3. Incineration

- a. The maximum single charge for each incinerator shall not exceed 250 pounds of waste.
- b. The maximum incineration rate for each incinerator shall not exceed 750 pounds of waste per hour.
- c. Incineration shall not begin until the secondary chamber for each incinerator is adequately preheated and has attained a minimum operating temperature of 1,450 °F.
- d. The minimum operating temperature of the secondary chamber for each incinerator shall be maintained at 1450 °F or greater during incineration.

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

4. Thermocouple

Each incinerator shall not be used unless the pyrometer control for the secondary chamber is functioning properly. The thermocouple measuring the temperature of the secondary chamber shall be replaced as recommended by the manufacturer or at any other time as necessary to ensure proper operation.

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

5. Burners

Each incinerator shall not be used unless the primary and secondary burners equipped with each unit are functioning properly.

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

6. Particulate Emissions Limits

The particulate emissions from each incinerator shall not exceed 0.20 pounds per 100 pounds of waste charged.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-35, §11-60.1-90)

7. Visible Emissions

For any six (6) minute averaging period, each incinerator shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during start-up, shutdown, or equipment breakdown, each incinerator 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) minutes.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-32, §11-60.1-90; SIP §11-60-24)¹

8. Personnel

Only properly trained personnel shall operate the incinerators. A copy of the operator's manual shall be available in the vicinity of each incinerator.

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

9 Maintenance

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

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

10. Additional Monitoring

- a. The Department of Health reserves the right to impose additional controls and restrictions if there is indication that the controls and/or restrictions are necessary to prevent nuisance from incinerator operation.
- b. Although not required at this time, the Department of Health, if so desires, may at any time require the permittee to install and operate an opacity meter or continuous emission monitor, or to conduct a source performance test or ambient air quality monitoring.

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

Section C. Monitoring and Recordkeeping Requirements

1. Records

All records, including support information, shall be maintained for a minimum of five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes maintenance, inspection, and repair records of the subject equipment. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or its representative upon request.

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

2. Visible Emissions (V.E.)

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

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

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3. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on each incinerator for purposes of the requirements specified in Attachment IID, Special Condition B.9. At a minimum, these records shall include:

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

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

4. Incineration Charge

The permittee shall maintain the following records for the incinerators for purposes of the operational limitations specified in Attachment IID, Special Condition Nos. B.2 and B.3, and annual emissions reporting:

- a. The date and time of the incineration;
- b. Composition of charge;
- c. Length of incineration time;
- d. Total weight in pounds of charge;
- e. Calculated incineration rate [total weight (lbs) ÷ length of incineration time (hr)];
- f. The secondary chamber's temperature (°F) at the start of incineration; and
- g. Name of operator.

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

Section D. Notification and Reporting Requirements

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 17 and 25, respectively:

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

(Auth.: HAR §11-60.1-3, §11-60.1-8, §11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)¹

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2. Deviations

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

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

3. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA Region 9, **Form C-2: 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 a responsible official or authorized representative.

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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)

4. 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 hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following** the end of each calendar year. The enclosed **Annual Emissions Report Form: Incinerators**, shall be used for 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; SIP §11-60-15)¹

5. Monitoring Reports

The permittee shall submit **semi-annually** the following written reports to the Department of Health for monitoring purposes. The reports shall be submitted **within sixty (60) days after** the end of each semi-annual calendar period (January 1 to June 30 and July 1 to December 31) and shall include the following:

- a. The type of fuel fired by the incinerator burners.
- b. Records on the incineration charge, including the composition of charge, charge weight, and incineration rate for both incinerators.
- c. The secondary chamber temperature at start of incineration for the incinerators.
- d. 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.

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The enclosed **Monitoring Report Forms: Incinerators**, and **Monitoring Report Form: Visible Emissions**, shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP §11-60-15)¹

Section E. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90).

¹ The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT IIE: SPECIAL CONDITIONS - FUEL LOADING FACILITIES
COVERED SOURCE PERMIT NO. 0209-01-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. Attachment IIE encompasses the following JP-8 fuel loading facilities at Area 11:
 - a. Existing bottom loading load rack supplying fuel to hydrant loading pits at aircraft ramp areas and two tank truck loading stations; each station with two JP-8 load arms; and
 - b. New bottom loading load rack supplying fuel to hydrant loading pits at aircraft ramp areas and five tank truck loading stations; each station with one JP-8 load arm.

(Auth.: HAR §11-60.1-3)

Section B. Operational and Emission Limitations

1. Loading Facility Throughput

The total combined JP-8 throughput for load rack to tank truck, tank truck to aircraft, and hydrant to aircraft loading shall not exceed 300,000,000 gallons in any rolling twelve-month (12-month) period for fuel supplied by existing and new bottom loading load racks.

2. Maintenance

Except for existing load rack and hydrant loading systems that are dismantled and removed from service, each load rack and hydrant loading system shall be properly maintained and kept in good operating condition at all times. Only properly functioning systems shall be used to support fueling operations. The permittee shall follow a regular maintenance schedule to ensure proper operation of the new and existing loading facilities as recommended by inspections and as needed.

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

Section C. Monitoring and Recordkeeping Requirements

1. Records

All records, including support information, shall be maintained for a minimum of five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes maintenance, inspection, and repair records of the subject equipment. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or their representative upon request.

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

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2. Loading Facility Throughput

The permittee shall maintain records to monitor the total combined JP-8 throughput (gallons) for load rack to tank truck, tank truck to aircraft, and hydrant to aircraft loading operations. Throughput for load rack to tank truck loading shall be determined from the gallons of fuel metered and logged at the load rack. Tank truck to aircraft loading throughput shall be determined from the fuels automated system. Hydrant to aircraft loading throughput shall be determined from the fuels automated system.

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

3. Inspection, Maintenance, and Repair Log

The permittee shall maintain records on inspections, maintenance, and any repair work conducted on loading facilities for purposes of the requirements specified in Attachment IIE, Special Condition B.2. At a minimum, these records shall include:

- a. The date of the inspection/work;
- b. Name and title of personnel performing inspection/work;
- c. A short description of the action and/or any such repair work; and
- d. Part(s) inspected or repaired.

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

Section D. Notification and Reporting Requirements

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 17 and 25, respectively:

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

(Auth.: HAR §11-60.1-3, §11-60.1-8, §11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90)

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2. Deviations

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

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

3. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA Region 9, **Form C-2: 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 a responsible official or 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)

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4. 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 hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following** the end of each calendar year. The attached **Annual Emissions Report Form: Fuel Loading Facility Throughput**, shall be used for 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)

5 Monitoring Report

The permittee shall submit **semi-annually** the following written reports to the Department of Health for monitoring purposes. The reports shall be submitted **within sixty (60) days after** the end of each semi-annual calendar period (January 1 to June 30 and July 1 to December 31) and shall include the following:

- a. Monthly load rack to tank truck, tank truck to aircraft, and hydrant to aircraft loading throughput.
- b. Total combined load rack to tank truck, tank truck to aircraft, and hydrant to aircraft loading throughput on twelve-month (12-month) rolling basis.

The enclosed **Monitoring Report Form: Fuel Loading Facility Throughput**, shall be used for reporting.

Section E. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90).

PROPOSED

**ATTACHMENT IIF: SPECIAL CONDITIONS
CRUSHING, SCREENING, AND TUB GRINDING
COVERED SOURCE PERMIT NO. 0209-01-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. The portable crushing, screening, and tub grinding plants consist of the following:
 - a. 130 TPH Construction Equipment Company jaw crushing plant, serial no. 98461, with the following equipment and associated appurtenances:
 - i. Construction Equipment Company vibrating grizzly feeder, serial no. 98401421 (14' x 40");
 - ii. 40-130 TPH Minyu jaw crusher, model no. MS2030, serial no. 087 (30" x 20" jaw size);
 - iii. Perkins 1300 series 175 kW diesel engine, serial no. WH3944N1123879, servicing the 130 TPH jaw crushing plant;
 - iv. Construction Equipment Company surge hopper;
 - v. Various conveyors; and
 - vi. Water spray system servicing the jaw crushing plant and associated equipment.
 - b. Nordberg portable screening plant, model no. CV-40-D, serial no. 1629, servicing the 130 TPH jaw crushing plant.
 - c. 210 TPH Nordberg SW348 portable screening plant, model no. R220-STD, serial no. R2200522 with the following equipment and associated appurtenances:
 - i. Grizzly feeder;
 - ii. Main conveyor;
 - iii. Top deck wing conveyor;
 - iv. Middle deck wing conveyor; and
 - v. Two-deck screen.
 - d. Olathe Manufacturing tub grinder, model no. 867KBL, serial no. 867340KBL with the following equipment and associated appurtenances;
 - i. Tub grinder;
 - ii. Main conveyor; and
 - iii. 450 hp Cummins diesel engine, model no. NTC 450, serial no. 11746105 servicing the tub grinder.

(Auth.: HAR §11-60.1-3)

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2. The permittee shall permanently attach an identification tag or name plate on the crushing plant, screening plants, tub grinder plant, diesel engines, and jaw crusher listed above to show model no., serial no., and manufacturer. The identification tags or name plates shall be permanently attached to the equipment at a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Operational Limitations

1. Operating Hours

- a. The total operating hours of the 130 TPH jaw crushing plant, as represented by the total operating hours of the 175 kW diesel engine, shall not exceed 1,000 hours in any rolling twelve-month (12-month) period.
- b. The total operating hours of the CV-40-D screening plant, as represented by the total operating hours from the plant's control panel, shall not exceed 1,000 hours in any rolling twelve-month (12-month) period.
- c. The total operating hours of the SW348 screening plant as represented by the total operating hours from the plant's control panel, shall not exceed 1,000 hours in any rolling twelve-month (12-month) period.
- d. The total operating hours of the tub grinder and 450 hp diesel engine, as represented by the total operating hours from the tub grinder's control panel, shall not exceed 1,000 hours in any rolling twelve-month (12-month) period.

(Auth.: HAR §11-60.1-3)

2. Diesel Engine Operation

- a. For any six (6) minute averaging period, the 175 kW and 450 hp diesel engines shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during startup, shutdown, or equipment breakdown, the diesel engines 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) minutes.
- b. The 175 kW and 450 hp diesel engines shall be fired only on fuel oil No. 2 with a sulfur content not to exceed 0.5% by weight.

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- c. The 175 kW and 450 hp diesel engines shall be maintained in good operating condition at all times with scheduled inspection and maintenance as recommended by the manufacturer and as needed.

____(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-38, §11-60.1-90; SIP 11-60.1-24)¹

3. Fugitive Emissions Limitations

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

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

4. Fugitive Emissions Control

- a. The permittee shall take measures to control fugitive dust (e.g., wet suppression, enclosures, etc.) at the jaw crushing plant, screening plants, tub grinder, material transfer points, stockpiles, and throughout the facility. The Department of Health may at any time require the permittee to further abate fugitive dust if an inspection indicates poor or insufficient control.
- b. The permittee shall ensure the water spray system is utilized as necessary during operation of the 130 TPH jaw plant with CV-40-D screener and associated equipment to minimize fugitive dust. At a minimum, the following shall be operated and maintained to control fugitive dust:

- _____i. Manual spray hose at operator platform of jaw crushing plant; and
- _____ii. Water spray bars and nozzles at:

- (1) Main conveyor after primary crusher;
- (2) Conveyor transfer from surge hopper;
- (3) CV-40-D screen; and
- (4) CV-40-D screen side conveyor.

_____c. If observation or the routine inspection required in Attachment IIF, Special Condition C.5 indicates a significant drop in water flow rate, plugged spray bars/nozzles, leak in the piping system, or other problem(s) which affect the efficiency of the water spray system specified in Attachment IIF, Special Condition B.4.b, the permittee shall correct the problem before resuming operations.

_____d. Dry material shall be water sprayed and mixed prior to screening by the SW348 portable screening plant to control fugitive dust from plant operations.

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- e. A water truck shall be maintained and utilized on the grounds of the facility to minimize fugitive dust from haul roads and stockpiles.

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

Section C. Monitoring and Recordkeeping Requirements

1. Records

All records, including support information, shall be maintained for a minimum of five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes maintenance, inspection, and repair records of the subject equipment. These records shall be in a permanent form suitable for inspection and made available to the Department of Health or its representative upon request.

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

2. Hours of Operation

A non-resetting hour meter shall be operated and maintained for the 175 kW diesel engine and equipment control panels for the CV-40 screener, SW348 screener, and tub grinder to record the total hours of operation of this equipment. The following information, at a minimum, shall be recorded from the meters:

- a. The date of the meter readings;
- b. Beginning meter readings for each month;
- c. The total hours operated each month;
- d. The total operating hours on a twelve-month (12-month) rolling basis.

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

3. Production

The permittee shall maintain records on the total tons and cubic yards of material processed by the portable crushing and screening plants for purposes of annual emissions reporting.

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

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4. Fuel Certification

____ Records shall be maintained on the sulfur content (percent by weight) and the total amount (gallons) of fuel fired by the 175 kW and 450 hp diesel engines for purposes of the fuel limitation specified in Attachment IIF, Special Condition B.2.b and annual emissions reporting requirements. The total gallons of fuel fired shall be determined from logs on the quantity of fuel transferred to the diesel engine fuel tanks. Fuel sulfur content may be demonstrated by providing the supplier's fuel specification sheet for the type of fuel received.

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

5. Water Spray System

The water spray system for the 130 TPH jaw crushing plant with CV-40 screener and associated equipment, to include the water pump, piping system, spray bars, and spray nozzles, shall be checked daily to ensure proper operation.

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

6. Inspection, Maintenance, and Repair Log

____ An inspection, maintenance, and repair log shall be maintained for equipment covered under this permit. Replacement of parts and repairs to the jaw crushing plant, screening plant, tub grinder, diesel engines, and water spray system shall be documented. At a minimum, the following records shall be maintained:

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

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

7. Visible Emissions (V.E.)

- ____ a. Except in those months where V.E. observations are conducted by a certified reader for the annual observations of the 175 kW and 450 hp diesel engines, the permittee shall conduct **monthly** (calendar month) V.E. observations of each diesel engine in accordance with Method 9 or by use of a Ringelmann Chart as provided. 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**.

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- _____ b. The permittee shall conduct **annually** (calendar year), V.E. observations for the 175 kW and 450 hp diesel engines by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9. For the annual observations, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the **Visible Emissions Form Requirements**.
- _____ c. Upon written request and justification by the permittee, the Department of Health may waive the requirement of the annual V.E. observation for the 175 kW and 450 hp diesel engines. The waiver request is to be submitted prior to the required annual V.E. observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior V.E. observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous annual V.E. observation.

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

Section D. Notification and Reporting Requirements

1. Standard Condition Reporting_____

_____ 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 §11-60.1-3, §11-60.1-8, §11-60.1-5, §11-60.1-15, §11-60.1-16, §11-60.1-90)

2. Deviations

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 preventative measures taken. Corrective actions may include a requirement for additional source 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)

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3. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA Region 9, **Form C-2: 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 a responsible official or 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)

4. 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 hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following** the end of each calendar year. The enclosed **Annual Emissions Report Form: Crushing and Screening Plant Production** and **Annual Emissions Report Form: Diesel Engine Fuel Consumption**, shall be used for reporting.

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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; SIP §11-60-15)¹

5. Monitoring Reports

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

- a. The total operating hours of the 175 kW diesel engine/Jaw Plant, CV-40 Screening Plant, SW348 Screening Plant, and tub grinder/450 hp diesel engine on a monthly and twelve (12) month rolling basis.
- b. The maximum sulfur content (percent by weight) of the fuel fired by the 175 kW and 450 hp diesel engines.
- c. Any opacity exceedances as determined by visible emissions monitoring of the 175 kW and 450 hp diesel engines servicing plant operations. 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 that there were no exceedances for that semi-annual period.

The enclosed **Monitoring Report Form: Crushing, Screening, and Tub Grinder Plant Operating Hours**, **Monitoring Report Form: Diesel Engine Fuel Certification**, and **Monitoring Report Form: Visible Emissions**, shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP §11-60-15)¹

Section E. Agency Notification

- 1. Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 29.

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

¹ The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

**ATTACHMENT II - INSIG: SPECIAL CONDITIONS
INSIGNIFICANT ACTIVITIES
COVERED SOURCE PERMIT NO. 0209-01-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. Attachment II-INSIG encompasses the following insignificant activities:
 - a. Abrasive blasting operations;
 - b. Diesel fired boilers and heaters less than 1 MMBtu/hr heat rate input capacity;
 - c. Liquid petroleum gas fired boilers less than 5 MMBtu/hr at any one location;
 - d. Fuel cell maintenance operations;
 - e. Above ground and underground storage tanks less than 40,000 gallons capacity;
 - f. Underground storage tanks greater than 40,000 gallons capacity storing jet kerosene;
 - g. Internal floating roof storage tanks greater than 40,000 gallons capacity storing jet kerosene;
 - h. Tank truck loading of diesel fuel at Area 5;
 - i. Fuel dispensing operations of gasoline and diesel into government vehicles at Building 1037;
 - j. Bottom loading of gasoline into tank trucks at Building 1037;
 - k. Paint spray booths;
 - l. Emergency diesel engine generators;
 - m. Solvent cleaning units; and
 - n. Cooling towers.

(Auth.: HAR §11-60.1-3)

Section B. Operational Limitations

1. The permittee shall take measures to operate insignificant activities in accordance with the provisions of HAR, Subchapter 2.
2. The Department of Health may at any time require the permittee to further abate emissions if an inspection indicates poor or insufficient controls.

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

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Section C. Monitoring and Recordkeeping Requirements

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

(Auth.: HAR §11-60.1-3, §11-60.1-90)

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

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

Section D. Notification and Reporting

1. During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA Region 9, **Form C-2: 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; and
 - e. Any additional information as required by the Department of Health including information to determine compliance.

_____ In lieu of addressing each emission unit as specified in **Form C-2: Compliance Certification**, 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.

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

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

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

Section E. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

PROPOSED

**ATTACHMENT III: ANNUAL FEE REQUIREMENTS
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

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

1. Annual fees shall be paid in full:
 - a. Within **sixty (60) days** after the end of each calendar year; and
 - b. Within **thirty (30) days** after the permanent discontinuance of the covered source.
2. The annual fees shall be determined and submitted in accordance with Hawaii Administrative Rules, Chapter 11-60.1, Subchapter 6.
3. The annual emissions data for which the annual fees are based shall accompany the submittal of any annual fees and submitted on forms furnished by the Department of Health.
4. The annual fees and the emission data shall be mailed to:

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

PROPOSED

**ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS
COVERED SOURCE PERMIT NO. 0209-01-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 forms:

Annual Emissions Report Form: Boiler Fuel Consumption
Annual Emissions Report Form: Internal Combustion Engine Fuel Consumption
Annual Emissions Report Form: F-15 Aircraft F100-PW-100 Engine Testing
Annual Emissions Report Form: F-15 Aircraft F100-PW-220 Engine Testing
Annual Emissions Report Form: Incinerators
Annual Emissions Report Form: Fuel Loading Facility Throughput
Annual Emissions Report Form: Crushing and Screening Plant Production
Annual Emissions Report Form: Diesel Engine Fuel Consumption

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

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

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

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0209-01-C
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[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 set by an applicable requirement:

(Make Copies for Future Use)

For Period: _____ Date: _____

Facility Name: Hickam Air Force Base

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.

Responsible Official (Print): _____

TITLE: _____

Responsible Official (Signature): _____

Complete the following information for **each** term or condition of the permit that applies to **each** emissions unit at the source. Also include any additional information as required by the director. The compliance certification may reference information contained in a previous compliance certification submittal to the director, provided such referenced information is certified as being current and still applicable.

1. Current permit number: _____
2. Emissions Unit No./Description: _____
3. Identify the permit term(s) or condition(s) that is/are the basis of this certification:

4. Compliance status during the reporting period:
 - a. Has the emissions unit been in compliance with the identified permit term(s) or condition(s)?
 YES NO
 - b. If YES, was compliance continuous or intermittent?
 Continuous Intermittent

**COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0209-01-C
(CONTINUED, PAGE 2 OF 2)**

c. If NO, explain.

5. The methods used for determining the compliance status of the emissions unit currently and over the reporting period (e.g., monitoring, recordkeeping, reporting, test methods, etc.):

Provide a detailed description of the methods used to determine compliance: (e.g., monitoring device type and location, test method description, or parameter being recorded, frequency of recordkeeping, etc.)

6. Statement of Compliance with Enhanced Monitoring and Compliance Certification Requirements.

a. Is the emissions unit identified in this application in compliance with applicable enhanced monitoring and compliance certification requirements?

YES NO

b. If YES, identify those requirements:

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

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
BOILER FUEL CONSUMPTION
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amount of emissions.

(Make Copies for Additional Use)

For Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Description: _____

Equipment Location: _____

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Report the total annual boiler fuel consumption.

Unit	Capacity (MMBtu/hr)	Maximum % Sulfur Content by Weight	Total Combined Fuel Oil Consumption (gallons/yr)
B-906A	2.1		
B-906B	2.1		
Total Combined Consumption----->			

PROPOSED

**MONITORING REPORT FORM
BOILER FUEL CERTIFICATION
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

For Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Description: _____

Equipment Location: _____

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Report the fuel type and maximum % fuel sulfur content for the reporting period.

Unit	Type(s) of Fuel Fired	Maximum Weight % Fuel Sulfur Content
B-906A		
B-906B		

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
INTERNAL COMBUSTION ENGINE FUEL CONSUMPTION
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

For Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Description: _____

Equipment Location: _____

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Report the total combined annual fuel consumption for internal combustion engines.

Unit	Capacity (hp)	Total Gasoline Consumption (gallons/year)
G-658	66	
G-675	66	
G-855	66	
G-856	66	
Total Combined Gasoline Consumption----->		

PROPOSED

**MONITORING REPORT FORM
INTERNAL COMBUSTION ENGINE OPERATING HOURS
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

For Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Description: _____

Equipment Location: _____

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Month	Engine G-855		Engine G-856	
	Total Operating Hours	Total Operating Hours on a 12-Month Rolling Basis	Total Operating Hours	Total Operating Hours on a 12-Month Rolling Basis
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
F-15 AIRCRAFT F100-PW-100 ENGINE TESTING
COVERED SOURCE PERMIT NO. 0209-01-C
(PAGE 1 OF 3)**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

For Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Description: _____

Equipment Location: _____

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

F-15 Aircraft Engine Testing TC-11666 (Hush House) and TC-11665A				
Pollutant	Emission Factor (lb/1000 lb fuel)	Engine Test Mode	Fuel Consumed (lb/yr)	Emission (TPY)
NO _x	4.38	Idle		
	30.89	Intermediate		
	39.44	Military		
	6.62	Afterburner		
NO _x Total----->				
CO	35.29	Idle		
	0.91	Intermediate		
	0.9	Military		
	9.57	Afterburner		
CO Total----->				
SO ₂	20 x (Ave. Weight % Sulfur) Emission Factor _____	Idle		
		Intermediate		
		Military		
		Afterburner		
SO ₂ Total----->				
PM & PM-10	2.06	Idle		
	2.06	Intermediate		
	1.33	Military		
	1.15	Afterburner		
PM & PM-10 Total----->				

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
F-15 AIRCRAFT F100-PW-100 ENGINE TESTING
COVERED SOURCE PERMIT NO. 0209-01-C
(CONTINUED, PAGE 2 OF 3)**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

F-15 Aircraft Engine Testing TC-11666 (Hush House) and TC-11665A				
Pollutant	Emission Factor (lb/1000 lb fuel)	Engine Test Mode	Fuel Consumed (lb/yr)	Emission (TPY)
VOC	8.6	Idle		
	0.14	Intermediate		
	0.28	Military		
	0.05	Afterburner		
VOC Total----->				
Acetaldehyde	0.2	Idle		
	0.008	Intermediate		
	0.011	Military		
	0.013	Afterburner		
Acetaldehyde Total----->				
Acrolein	0.097	Idle		
Benzene	0.098	Idle		
	0.002	Intermediate		
	0.003	Military		
	0.0077	Afterburner		
Benzene Total----->				
Ethylbenzene	0.0048	Idle		
	0.00027	Intermediate		
	0.0024	Military		
	0.0022	Afterburner		
Ethylbenzene Total----->				
Formaldehyde	0.82	Idle		
	0.02	Intermediate		
	0.006	Military		
	0.015	Afterburner		
Formaldehyde Total----->				

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
F-15 AIRCRAFT F100-PW-100 ENGINE TESTING
COVERED SOURCE PERMIT NO. 0209-01-C
(CONTINUED, PAGE 3 OF 3)**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

F-15 Aircraft Engine Testing TC-11666 (Hush House) and TC-11665A				
Pollutant	Emission Factor (lb/1000 lb fuel)	Engine Test Mode	Fuel Consumed (lb/yr)	Emission (TPY)
Methyl Ethyl Ketone	0.02	Idle		
	0.003	Intermediate		
	0.003	Military		
	0.004	Afterburner		
Methyl Ethyl Ketone----->				
Naphthalene	0.064	Idle		
	0.0044	Intermediate		
	0.00037	Military		
	0.00048	Afterburner		
Naphthalene Total----->				
Styrene	0.0048	Idle		
	0.00028	Intermediate		
Styrene Total----->				
Toluene	0.02	Idle		
	0.0035	Intermediate		
	0.005	Military		
	0.012	Afterburner		
Toluene Total----->				
Xylene	0.036	Idle		
	0.008	Intermediate		
	0.026	Military		
	0.025	Afterburner		
Xylene Total----->				

PROPOSED

ANNUAL EMISSIONS REPORT FORM F-15 AIRCRAFT F100-PW-220 ENGINE TESTING COVERED SOURCE PERMIT NO. 0209-01-C (PAGE 1 OF 3)	
[Issuance Date]	[Expiration Date]
In accordance with the HAR, 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 Additional Use)

For Period: _____ Date: _____

Facility Name: Hickam Air Force Base

Equipment Description: _____

Equipment Location: _____

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

Responsible Official (PRINT): _____

Title: _____

Responsible Official (Signature): _____

F-15 Aircraft Engine Testing TC-11666 (Hush House) and TC-11665A				
Pollutant	Emission Factor (lb/1000 lb fuel)	Engine Test Mode	Fuel Consumed (lb/yr)	Emission (TPY)
NO _x	4.61	Idle		
	22.18	Intermediate		
	29.32	Military		
	8.37	Afterburner		
NO _x Total----->				
CO	35.30	Idle		
	0.86	Intermediate		
	0.86	Military		
	11.99	Afterburner		
CO Total----->				
SO ₂	20 x (Ave. Weight % Sulfur) Emission Factor _____	Idle		
		Intermediate		
		Military		
		Afterburner		
PM & PM-10	2.06	Idle		
	2.06	Intermediate		
	1.33	Military		
	1.15	Afterburner		
PM & PM-10 Total----->				

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
F15 AIRCRAFT F100-PW-220 ENGINE TESTING
COVERED SOURCE PERMIT NO. 0209-01-C
(CONTINUED, PAGE 2 OF 3)**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

F-15 Aircraft Engine Testing TC-11666 (Hush House) and TC-11665A				
Pollutant	Emission Factor (lb/1000 lb fuel)	Engine Test Mode	Fuel Consumed (lb/yr)	Emission (TPY)
VOC	7.94	Idle		
	2.89	Intermediate		
	1.79	Military		
	1.53	Afterburner		
VOC Total----->				
Acetaldehyde	0.2	Idle		
	0.008	Intermediate		
	0.011	Military		
	0.013	Afterburner		
Acetaldehyde Total----->				
Acrolein	0.097	Idle		
Benzene	0.098	Idle		
	0.002	Intermediate		
	0.003	Military		
	0.0077	Afterburner		
Benzene Total----->				
Ethylbenzene	0.0048	Idle		
	0.00027	Intermediate		
	0.0024	Military		
	0.0022	Afterburner		
Ethylbenzene Total----->				
Formaldehyde	0.82	Idle		
	0.02	Intermediate		
	0.006	Military		
	0.015	Afterburner		
Formaldehyde Total----->				

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
F-15 AIRCRAFT F100-PW-220 ENGINE TESTING
COVERED SOURCE PERMIT NO. 0209-01-C
(CONTINUED, PAGE 3 OF 3)**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

F-15 Aircraft Engine Testing TC-11666 (Hush House) and TC-11665A				
Pollutant	Emission Factor (lb/1000 lb fuel)	Engine Test Mode	Fuel Consumed (lb/yr)	Emission (TPY)
Methyl Ethyl Ketone	0.02	Idle		
	0.003	Intermediate		
	0.003	Military		
	0.004	Afterburner		
Naphthalene	0.064	Idle		
	0.0044	Intermediate		
	0.00037	Military		
	0.00048	Afterburner		
Naphthalene Total----->				
Styrene	0.0048	Idle		
	0.00028	Intermediate		
Styrene Total----->				
Toluene	0.02	Idle		
	0.0035	Intermediate		
	0.005	Military		
	0.012	Afterburner		
Toluene Total----->				
Xylene	0.036	Idle		
	0.008	Intermediate		
	0.026	Military		
	0.025	Afterburner		
Xylene Total----->				

PROPOSED

**MONITORING REPORT FORM
AIRCRAFT ENGINE TEST FACILITY OPERATING HOURS
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

For Period: _____ Date: _____

Facility Name: Hickam Air Force Base

Equipment Location: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Site TC-11666 (Hush House)			
Month	Total Aircraft Engine Test Operating Hours	Total Aircraft Engine Test Operating Hours 12- Month Rolling Basis	Notes
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
INCINERATORS
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

For Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Location: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Unit ID No.	Quantity of Waste Incinerated (tons/yr)
I-1097	
I-83366	

**MONITORING REPORT FORM
INCINERATORS
COVERED SOURCE PERMIT NO. 0209-01-C
(PAGE 1 OF 2)**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

For Period: _____ Date: _____

Facility Name: _____

Equipment Location: _____

Equipment Description: 750 lb/hr incinerator, unit identification no. I-1097, model no. LI750

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

For the reporting period, identify:

1. Type(s) of fuel fired by primary and secondary burners: _____
2. Type(s) of waste charged [circle appropriate number(s)]: 0 1 2 3 4 5 6 7 8
3. Type(s) of waste charged (Other): _____
4. All incidences when a single charge exceeded 250 lbs:

Date	Single Charge (lbs)	Comments

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

5. All incidences when the incineration rate exceeded 750 lb/hr:

Date	Incineration Rate (lb/hr)	Comments

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

**MONITORING REPORT FORM
INCINERATORS
COVERED SOURCE PERMIT NO. 0209-01-C
(CONTINUED, PAGE 2 OF 2)**

6. All incidences when the temperature of the secondary chamber was less than 1450 °F at the start of incineration:

Date	Temperature (°F)	Comments

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

7. All dates and times when the temperature indicator/thermocouple for the secondary chamber was not operating properly and when the temperature indicator/thermocouple was repaired or replaced:

Temperature Indicator/Thermocouple Not Operating Properly		Temperature Indicator/Thermocouple Repaired or Replaced	
Date	Time	Date	Time

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

—

MONITORING REPORT FORM		
INCINERATORS		
COVERED SOURCE PERMIT NO. 0209-01-C		
(PAGE 1 OF 2)		
[Issuance Date]		[Expiration Date]
In accordance with the HAR, 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 Additional Use)

For Period: _____ Date: _____

Facility Name: Hickam Air Force Base

Equipment Location: _____

Equipment Description: 750 lb/hr incinerator, unit identification no. I-83366, model no. LI750

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

For the reporting period, identify:

1. Type(s) of fuel fired burner(s): _____

2. Type(s) of waste charged [circle appropriate number(s)]: 0 1 2 3 4 5 6 7 8

3. Type(s) of waste charged (other): _____

4. All incidences when a single charge exceeded 250 lbs:

Date	Single Charge (lbs)	Comments

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

5. All incidences when the incineration rate exceeded 750 lb/hr:___

Date	Incineration Rate (lb/hr)	Comments

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

**MONITORING REPORT FORM
INCINERATORS
COVERED SOURCE PERMIT NO. 0209-01-C
(CONTINUED, PAGE 2 OF 2)**

[Issuance Date]

[Expiration Date]

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

6. All incidences when the temperature of the secondary chamber was less than 1450 °F at the start of incineration:

Date	Temperature (°F)	Comments

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

7. All dates and times when the temperature indicator/thermocouple for the secondary chamber was not operating properly and when the temperature indicator/thermocouple was repaired or replaced:

Temperature Indicator/Thermocouple Not Operating Properly		Temperature Indicator/Thermocouple Repaired or Replaced	
Date	Time	Date	Time

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

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
FUEL LOADING FACILITY THROUGHPUT
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with HAR, 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 Additional Use)

For Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Location: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Loading Operation	Total JP-8 Throughput (gallons/year)
Load Rack to Tank Truck	
Tank Truck to Aircraft	
Hydrant to Aircraft	
Total Combined Throughput (gallons/year)--->	

PROPOSED

**MONITORING REPORT FORM
FUEL LOADING FACILITY THROUGHPUT
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

For Reporting Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Location: _____

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 the Department of Health as public record.

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

JP-8 Throughput				
Month	Loading Operation			Total Combined Throughput 12-Month Rolling Basis (Gallons)
	Load Rack to Tank Truck	Tank Truck to Aircraft	Hydrant to Aircraft	
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
CRUSHING AND SCREENING PLANT PRODUCTION
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amount of emissions.

(Make Copies for Additional Use)

For Reporting Period: _____ Date: _____

Facility Name: Hickam Air Force Base

Equipment Location: _____

Equipment Description: 130 TPH jaw crushing plant, serial no. 98461

CV-40-D screening plant, serial no. 1629

210 TPH SW348 screening plant, serial no. R2200522

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Plant Production		
Plant	Cubic Yards/Year	Tons/Year
130 TPH Jaw Crushing Plant		
CV-40-D Screening Plant		
210 TPH Screening Plant		

PROPOSED

**ANNUAL EMISSIONS REPORT FORM
DIESEL ENGINE FUEL CONSUMPTION
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amount of emissions.

(Make Copies for Additional Use)

For Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Description: _____

Equipment Location: _____

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Report the total annual diesel engine fuel consumption.

Unit	Maximum % Sulfur Content by Weight	Total Fuel Oil Consumption (gallons/yr)
175 kW diesel engine, serial no. WH3944N1123879		
450 hp diesel engine, serial no. 11746105		

PROPOSED

MONITORING REPORT FORM
_____ CRUSHING, SCREENING, AND TUB GRINDER PLANT OPERATING HOURS
COVERED SOURCE PERMIT NO. 0209-01-C
(PAGE 1 OF 2)

[Issuance Date] _____ **[Expiration Date]** _____

In accordance with the HAR, 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 Additional Use)

For Reporting Period: _____ Date: _____

Facility Name: Hickam Air Force Base

Equipment Location: _____

Equipment Description: 130 TPH jaw crushing plant, serial no. 98461
175 kW diesel engine, serial no. WH3944N1123879
CV-40-D screening plant, serial no. 1629

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Plant Operating Hours				
Month	175 kW Diesel Engine/130 TPH Jaw Plant		CV-40-D Screening Plant	
	Monthly Operating Hours	Total Operating Hours for 12-month Rolling Period	Monthly Operating Hours	Total Operating Hours for 12-Month Rolling Period
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

PROPOSED

MONITORING REPORT FORM
_____ CRUSHING, SCREENING, AND TUB GRINDER PLANT OPERATING HOURS
COVERED SOURCE PERMIT NO. 0209-01-C
(CONTINUED, PAGE 2 OF 2)

[Issuance Date] _____ **[Expiration Date]** _____

In accordance with the HAR, 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 Additional Use)

For Reporting Period: _____ Date: _____

Facility Name: Hickam Air Force Base

Equipment Location: _____

Equipment Description: 210 TPH SW348 screening plant, serial no. R2200522

tub grinder, serial no. 867340KBL

450 hp diesel engine, serial no. 11746105

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Plant Operating Hours				
Month	210 TPH SW348 Screening Plant		Tub Grinder/450 hp Diesel Engine	
	Monthly Operating Hours	Total Operating Hours for 12-month Rolling Period	Monthly Operating Hours	Total Operating Hours for 12-Month Rolling Period
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

PROPOSED

**MONITORING REPORT FORM
DIESEL ENGINE FUEL CERTIFICATION
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

In accordance with the HAR, 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 Additional Use)

For Period: _____

Date: _____

Facility Name: Hickam Air Force Base

Equipment Description: _____

Equipment Location: _____

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

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

Report the fuel type and maximum % fuel sulfur content for the reporting period.

Unit	Type(s) of Fuel Fired	Maximum Weight % Fuel Sulfur Content
175 kW diesel engine, serial no. WH3944N1123879		
450 hp diesel engine, serial no. 11746105		

**VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

The **Visible Emissions (V.E.) Form** shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits in accordance with 40 CFR Part 60, Appendix A, Method 9 or use of a Ringelmann Chart as provided. At least **annually** (*calendar year*), V.E. observations shall be conducted for each equipment subject to opacity limits by a certified reader in accordance with Method 9. The V.E. Form shall be completed as follows:

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

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

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

PROPOSED

**VISIBLE EMISSIONS FORM
STATE OF HAWAII
COVERED SOURCE PERMIT NO. 0209-01-C**

[Issuance Date]

[Expiration Date]

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

Permit No.: 0209-01-C

Company Name: Hickam Air Force Base

Equipment and Fuel: _____

Stack **X**
Sun 
Wind 

Draw North Arrow



Site Conditions:

Stack height above ground (ft): _____

Stack distance from observer (ft): _____

Emission color (black or white): _____

Sky conditions (% cloud cover): _____

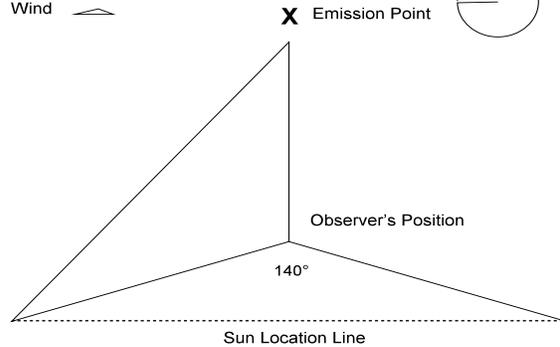
Wind speed (mph): _____

Temperature (°F): _____

Observer Name: _____

Certified? (Yes/No): _____

Observation Date and Start Time: _____



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

Observation Date and Start Time: _____

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