

**PROPOSED**

[Issuance Date]

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

06-XXXE CAB  
File No. 0258-03

Mr. Robert Creps  
Senior Vice President  
Grace Pacific Corporation  
P. O. Box 78  
Honolulu, Hawaii 96810

Dear Mr. Creps:

**Subject: Covered Source Permit (CSP) No. 0258-01-C**  
**Application for Renewal No. 0258-03**  
**Grace Pacific Corporation**  
**325 TPH Hot Mix Asphalt (HMA) Plant**  
**Located at: Honokohau Quarry, Honokohau, Island of Hawaii**  
**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 information that you submitted as part of your application dated October 12, 2004, and additional information provided on October 7, 2005, and December 20, 2005.

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

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

The forms for submission are as follows:

Compliance Certification  
Monitoring/Annual Emissions Report Form: 325 TPH HMA Plant Production  
Monitoring/Annual Emissions Report Form: Fuel Certification and Consumption  
Monitoring Report Form: Visible Emissions

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The following are for use in monitoring visible emissions:

Visible Emissions Observation Requirements  
Visible Emissions Form  
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 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

WK:lk

Enclosures

c: Ed Yamamoto, EHS - Hilo  
Wendell Sano, EHS - Kona  
CAB Monitoring Section

**ATTACHMENT I: STANDARD CONDITIONS  
COVERED SOURCE PERMIT NO. 0258-01-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 willfully defaced, altered, forged, counterfeited, or falsified.  
  
(Auth.: HAR §11-60.1-6; SIP §11-60-11)<sup>2</sup>
3. This permit is not transferable whether by operation of law or otherwise, from person to person, from place to place, or from one piece of equipment to another without the approval of the Department of Health, except as provided in HAR, Section 11-60.1-91.  
  
(Auth.: HAR §11-60.1-7; SIP §11-60-9)<sup>2</sup>
4. A request for transfer from person to person shall be made on forms furnished by the Department of Health.  
  
(Auth.: HAR §11-60.1-7)
5. In the event of any changes in control or ownership of the facilities to be constructed or modified, this permit shall be binding on all subsequent owners and operators. The permittee shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, copies of which will be forwarded to the Department of Health and the U.S. Environmental Protection Agency (EPA), Region 9.  
  
(Auth.: HAR §11-60.1-5, §11-60.1-7, §11-60.1-94)
6. The facility covered by this permit shall be constructed and operated in accordance with the application, and any information submitted as part of the application, for the Covered Source Permit. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department of Health, and the permit is amended to allow such deviation.  
  
(Auth.: HAR §11-60.1-2, §11-60.1-4, §11-60.1-82, §11-60.1-84, §11-60.1-90)

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

(Auth.: HAR §11-60.1-5, §11-60.1-82)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

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

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-90)

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

(Auth.: HAR §11-60.1-14, §11-60.1-90)

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

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

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

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

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

18. The permittee may request confidential treatment of any records in accordance with HAR section 11-60.1-14.
- (Auth.: HAR §11-60.1-14, §11-60.1-90)
19. This permit shall become invalid with respect to the authorized construction if construction is not commenced as follows:
- a. Within eighteen (18) months after the permit takes effect, is discontinued for a period of eighteen (18) months or more, or is not completed within a reasonable time.

- b. For phased construction projects, each phase shall commence construction within eighteen (18) months of the projected and approved commencement dates in the permit. This provision shall be applicable only if the projected and approved commencement dates of each construction phase are defined in Attachment II, Special Conditions, of this permit.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

20. The Department of Health may extend the time periods specified in Standard Condition No. 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)

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

(Auth.: HAR §11-60.1-90)

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

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

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

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

(Auth.: HAR §11-60.1-11, §11-60.1-90)

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

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

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

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

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

(Auth.: HAR §11-60.1-93)

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

(Auth.: HAR §11-60.1-90)

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

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

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

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

(Auth.: HAR §11-60.1-5, §11-60.1-90)

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

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

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**ATTACHMENT II: SPECIAL CONDITIONS  
COVERED SOURCE PERMIT NO. 0258-01-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 325 TPH Hot Mix Asphalt (HMA) Plant encompasses the following equipment and associated appurtenances:
  - a. 325 TPH Stansteel parallel flow drum mixer, model no. DM732, serial no. 732, with 12.9 MMBTU/hr burner and Stansteel cyclone;
  - b. Astec baghouse, model no. RBH-43-SP, serial no. 93-154-437;
  - c. 1065 hp Cummins diesel engine generator, model no. QST30-G5 NR2, serial no. TBD;
  - d. 1.25 MMBtu/hr Heatec hot oil heater, model no. HCS-120, serial no. 94268;
  - e. Vibrating scalper screen, Type P, Design D, serial no. P-18G311NYS;
  - f. Four (4) compartment cold feed system;
  - g. 80 ton asphalt concrete storage silo;
  - h. 30 ton Reclaimed Asphalt Pavement (RAP) bin; and
  - i. Various conveyors.

(Auth.: HAR §11-60.1-3)

2. An identification tag or name plate shall be displayed on the drum mixer, baghouse, cyclone, diesel engine generator, hot oil heater, and scalper screen listed above to show manufacturer, model no., and serial no. The identification tag or name plate shall be permanently attached to the equipment in a conspicuous location.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

**Section B. Applicable Federal Regulations**

1. The 325 TPH HMA Plant is subject to the provisions of the following federal regulations:
  - a. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A - General Provisions; and
  - b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart I, Standards of Performance for Hot Mix Asphalt Facilities.

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

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

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

**Section C. Operational and Emission Limits**

1. Production Limit

The total production of the 325 TPH HMA Plant shall not exceed 260,000 tons in any rolling 12-month period.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

2. Fuel Limits

- a. The drum mixer, diesel engine generator, and hot oil heater shall only be fired on fuel oil no. 2 with a maximum sulfur content of 0.5% by weight.

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

- b. The total fuel consumption of the diesel engine generator shall not exceed 153,000 gallons in any rolling 12-month period.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

3. Particulate Emissions Limit

The permittee shall not discharge or cause the discharge into the atmosphere from the baghouse servicing the drum mixer, particulate matter in excess of 90 mg/dscm (0.04 gr/dscf).

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.92)<sup>1</sup>

4. Visible Emissions Limits

For any six (6) minute averaging period, the baghouse servicing the drum mixer, the diesel engine generator, and the hot oil heater shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during startup, shutdown, or equipment breakdown, the baghouse servicing the drum mixer, the diesel engine generator, and the hot oil heater 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, §11-60.1-32, §11-60.1-90, SIP §11-60-24)<sup>2</sup>

5. Baghouse and Cyclone

- a. The baghouse and cyclone shall be utilized at all times during drum mixer operation. The permittee shall not operate the drum mixer if a problem affecting the baghouse or cyclone control efficiency is observed at any time. The permittee shall investigate and correct the problem before resuming drum mixer operation.

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

- b. The baghouse shall be maintained in good operating condition. The permittee shall follow a regular inspection and maintenance schedule to ensure the following items of the baghouse are operating properly:
  - i. The filter bags are checked for any tears, holes, abrasions and scuffs, and replaced as needed;
  - ii. The baghouse cleaning system is maintained and operated at sufficient intervals to minimize particulate buildup or caking on the filter bags; and
  - iii. Other miscellaneous items or equipment essential for the effective operation of the baghouse are maintained.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

- c. The cyclone shall be maintained in good operating condition and utilized at all times during operation of the drum mixer with scheduled inspection and maintenance as recommended by the manufacturer or as needed.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

6. Fugitive Dust Control

- a. The permittee shall take measures to control and minimize fugitive dust (e.g., wet suppression, enclosures, dust screens, etc.) at the screen, material transfer points, stockpiles, plant roads, loading and unloading operations, and throughout the facility. The Department of Health may at any time require the permittee to further abate fugitive dust emissions if an inspection indicates poor or insufficient control.
- b. A water spray truck shall be maintained and utilized on the facility grounds to minimize fugitive dust from vehicle travel, stockpiles, and material transfer points (including loading and unloading operations).

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

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

#### 7. Plant Maintenance

The 325 TPH HMA plant shall be maintained in good operating condition with scheduled inspection, repair, and maintenance as recommended by the manufacturer, or as needed.

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

#### 8. Alternate Operating Scenario

Terms and conditions for the reasonably anticipated operating scenario identified by the source in the covered source permit application and approved by the Department of Health are as follows:

- a. The permittee may replace the diesel engine generator with a temporary replacement unit if any repair reasonably warrants the removal of the diesel engine generator from its site (i.e., equipment failure, engine overhaul, or any major equipment problems requiring maintenance for efficient operation) and the following provisions are adhered to:
  - i. Written notification identifying the reasons for the replacement from the site of operation is submitted to the Department of Health prior to the exchange;
  - ii. The temporary replacement unit is the same size or smaller with equal or lesser emissions;
  - iii. The temporary replacement unit complies with all applicable conditions including all air pollution control equipment requirements, operating restrictions, and emission limits;
  - iv. The diesel engine generator shall be repaired and returned to service at the same location in a timely manner;

- v. Prior to the removal and return of the diesel engine generator, the permittee shall submit to the Department of Health written documentation on the removal and return dates and on the make, size, model and serial numbers for both the temporary replacement unit and the installed unit;
- vi. The permittee shall also submit any additional information as requested by the Department of Health, which may include an ambient air quality impact assessment verifying that Federal/State Ambient Air Quality Standards are met.
- b. The permittee shall contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility the scenario under which it is operating and, if required by any applicable requirement or the Department of Health, submit written notification to the Department of Health; and
- c. The terms and conditions under each operating scenario shall meet all applicable requirements, including special conditions of this permit.

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

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

##### 1. Records

All records, including support information, shall be maintained for at least five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes maintenance, inspection, calibration, and repair records for the permitted 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)

##### 2. HMA Production

The permittee shall maintain records on the tons of HMA produced each month and each rolling 12-month period to demonstrate compliance with Special Condition C.1 of this attachment and to determine and report on annual emissions.

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

3. Fuel Certification and Consumption

- a. The permittee shall retain fuel purchase receipts, showing the fuel type, sulfur content (percent by weight), delivery date, and amount (gallons) of fuel delivered to the site for the drum mixer, diesel engine generator, and hot oil heater. Fuel sulfur content may also be demonstrated by providing the supplier's fuel specification sheet for the purchased fuel.
- b. Fuel consumption records for the diesel engine generator shall be maintained to demonstrate compliance with the fuel limit provided in Special Condition C.2.b. of this attachment. A non-resetting volumetric fuel flow meter shall be installed, operated and maintained to measure monthly fuel consumption from the diesel engine generator's dedicated fuel tank. The following information shall be recorded from the meter when the diesel engine is fired on fuel oil no. 2:
  - i. Date of the reading;
  - ii. Meter reading at the start of the month;
  - iii. Total fuel consumed each month; and
  - iv. Total fuel consumed each rolling 12-month period.
- c. Fuel consumption records on the total amount (gallons) of fuel fired in the drum mixer and hot oil heater each year shall be maintained.

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

4. Baghouse

- a. A photohelix gauge shall be operated and maintained to monitor the baghouse pressure differential (inches of water) across the filter bags. The pressure differential across the filter bags shall range from three (3) to five (5) inches of water or as specified by the manufacturer. A pressure less than three (3) inches of water may indicate broken bag(s) and a pressure greater than five (5) inches of water may indicate clogged/plugged bag(s). In accordance with Special Condition C.5.b of this attachment, maintenance or servicing shall be performed on the baghouse if the differential pressure reading indicates the baghouse is not operating effectively.
- b. The permittee shall maintain daily records of the pressure differential across the baghouse filter bags. Monitoring of the pressure differential across the baghouse filter bags shall not replace the regular and routine maintenance and inspection of the baghouse as specified by the manufacturer.

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

5. Visible Emissions (V.E.)

- a. Except in those months where a performance test is conducted pursuant to Special Condition F.1 of this attachment, **monthly** (calendar month) visible emissions observations shall be performed on the baghouse servicing the drum mixer, the diesel engine generator, and the hot oil heater. Observations shall be performed in accordance with 40 CFR Part 60, Appendix A, Method 9, or using of the Ringelmann Chart provided.
- b. Two (2) consecutive sets of observations shall be recorded each month. Each set shall last six minutes in duration and consist of twenty-four (24) readings at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the enclosed "Visible Emissions Observation Requirements.

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

6. Performance Testing

An annual source performance test shall be conducted on the 325 TPH HMA plant, pursuant to Section F of this attachment. Records of source performance test plans, summaries, and test results for the drum mixer, diesel engine generator, and hot oil heater shall be maintained.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

7. Facility Equipment

An inspection, maintenance, and repair log shall be maintained for the equipment covered under this permit to demonstrate compliance with Special Condition C.7 of this attachment. Replacement of parts and repairs to facility equipment (including replacement of baghouse filter bags) shall be documented. At a minimum, the following records shall be maintained:

- a. Date that the inspection or repair work was performed;
- b. Name and title of personnel performing the inspection or work;
- c. Description of the equipment or parts inspected, any findings of the inspection, and any work performed on the equipment.

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

**Section E. 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 §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)<sup>2</sup>

2. Reporting 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 preventive measures taken. Corrective actions may include a requirement for additional 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. Performance Testing

- a. **At least thirty (30) days prior to** conducting a source performance test for the 325 TPH HMA plant, the permittee shall submit to the Department of Health a written test plan in accordance with Special Condition F.6 of this attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

- b. Written reports of the results of all source performance tests conducted to demonstrate compliance shall be submitted to the Department of Health **within sixty (60) days** after the completion of the performance test and shall be in accordance with Special Condition F.9 of this attachment.

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

#### 4. Monitoring Reports

- a. 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 - June 30 and July 1 - December 31)**, and shall include the following:
  - i. Total HMA production (in tons) on a monthly and rolling 12-month basis;
  - ii. Type of the fuel combusted by the drum mixer, diesel engine generator, and hot oil heater. Indicate the supplier and the maximum sulfur content (percent by weight) for each fuel;
  - iii. Total fuel consumed by the diesel engine generator on a monthly and rolling 12-month basis;
  - iv. Total fuel consumed by the hot oil heater on a semi-annual basis;
  - v. Opacity exceedances determined during visible emissions monitoring of the drum mixer, diesel engine generator, and hot oil heater. For each opacity exceedance, describe the equipment, report the equipment serial no., date, six (6) minute average opacity reading, possible reason for exceedance, duration of exceedance, and corrective actions taken. If there were no exceedances for the drum mixer, diesel engine generator, and hot oil heater, the permittee shall state so.
- b. The enclosed forms shall be used, signed, and dated by the responsible official:
  - i. Monitoring/Annual Emissions Report Form: 325 TPH HMA Plant Production;
  - ii. Monitoring/Annual Emissions Report Form: Fuel Certification & Consumption;  
and
  - iii. Monitoring Report Form: Visible Emissions.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

#### 5. Annual Emissions Reporting

- a. As required by Attachment IV and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall report **annually** the total tons/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 forms shall be used:
  - i. Monitoring/Annual Emissions Report Form: 325 TPH HMA Plant Production; and
  - ii. Monitoring/Annual Emissions Report Form: Fuel Certification & Consumption.
- b. 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, §11-60.1-90)

6. Compliance Certification Form

- a. During the permit term, the permittee shall submit at least **annually** to the Department of Health and EPA Region 9, the enclosed compliance certification form pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:
  - i. Identification of each permit term or condition that is the basis of the certification;
  - ii. Compliance status;
  - iii. Whether compliance was continuous or intermittent;
  - iv. Methods used for determining the compliance status of the source currently and over the reporting period;
  - v. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a) (3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
  - vi. Any additional information as required by the Department of Health including information to determine compliance with applicable requirements.
- b. 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.
- c. Upon written request of the permittee, the deadline for submitting the compliance certification may be extended if the Department of Health determines that reasonable justification exists for the extension.

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

**Section F. Testing Requirements**

1. On an annual basis or other times as may be specified by the Department of Health, a performance test for the emissions of particulate matter and opacity determination shall be conducted and results reported in accordance with the test methods set forth in 40 CFR Part 60, Appendix A, and 40 CFR Part 60.8. The following test methods or U.S. EPA-approved equivalent methods, or alternate methods with prior written approval from the Department of Health shall be used:
  - a. Performance test for the particulate matter emissions from the baghouse servicing the drum mixer shall be conducted using 40 CFR Part 60 Methods 1-5. For Method 5, the

sampling time for each run shall be at least sixty (60) minutes and the minimum sample volume shall be at least 0.90 dscm (31.8 dscf).

- b. Performance tests to determine opacity of emissions from the baghouse servicing the drum mixer shall be conducted using 40 CFR Part 60 Method 9.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR 60.8, 40 CFR § 60.93, SIP § 11-60-15)<sup>1,2</sup>

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

- a. For each run, the asphalt production rate in tons/hour shall be provided. The permittee shall document the method by which the asphalt production rate was determined.
- b. The pressure drop across the baghouse (in inches) shall be recorded and reported for each run. There shall be one reading per run unless the value changes, then the readings shall be continuous.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR App. A, 40 CFR 60.93, SIP § 11-60-15)<sup>1,2</sup>

3. Note that Method 5 cannot be used under the following conditions:

- a. Cyclonic or swirling gas flow at the sampling location;
- b. Stack or duct with a diameter less than 12 inches or a cross-sectional area less than 113 square inches; or
- c. Sampling location less than two stack diameters downstream or less than a half diameter upstream from a flow disturbance.

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

4. Particulate emissions shall be reported in two categories:

- a. Front half (filter and probe); and
- b. Front and back half (probe, filter, and impingers). When conducting back half clean-up, all connectors and tubing of the back half sampling train up to and including the first impinger shall be properly rinsed with acetone. Connecting glassware after the first impinger and the other impingers shall be rinsed with water. All rinses shall be included in the analysis for back half.

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

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

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

6. **At least thirty (30) calendar days prior** to performing a test, the owner or operator shall submit a written performance test plan to the Department of Health that includes date(s) of the test, test duration, test locations, test methods, source operation, locations of visible emissions readings, and other parameters that may affect test results. Such a plan shall conform to U.S. EPA guidelines including quality assurance procedures. A test plan or quality assurance plan that does not have the approval of the Department of Health may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR 60 App. A)<sup>1</sup>

7. The permittee shall provide sampling and testing facilities at the permittee's own expense. The tests shall be conducted at the maximum expected operating capacity of the 325 TPH HMA plant. The Department of Health may monitor the tests.

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

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

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

9. **Within sixty (60) days after** the completion of the performance test, the permittee shall submit to the Department of Health the test report which shall include the operating conditions of the equipment at the time of the test (e.g., operating rate in tons/hour, pressure drop readings, etc.), the summarized tests results, comparative results with the permit emission limits, and other pertinent support calculations, and field and laboratory data.

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

10. Upon written request and justification, the Department of Health may waive the requirement for, or a portion of, a specific performance test. The request for such a waiver shall be submitted prior to the required test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior performance test indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous test.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

### **Section G. Agency Notification**

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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

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

**ATTACHMENT II - INSIG  
SPECIAL CONDITIONS - INSIGNIFICANT ACTIVITIES  
COVERED SOURCE PERMIT NO. 0258-01-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:

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

**Section A. Equipment Description**

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

(Auth.: HAR §11-60.1-3)

**Section B. Operational Limitations**

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

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

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

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

**Section C. Monitoring and Recordkeeping Requirements**

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

(Auth.: HAR §11-60.1-3, §11-60.1-90)

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

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

**Section D. Notification and Reporting**

Compliance Certification

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

1. The identification of each term or condition of the permit that is the basis of the certification;
2. The compliance status;
3. Whether compliance was continuous or intermittent;
4. The methods used for determining the compliance status of the source currently and over the reporting period;
5. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
6. Any additional information as required by the Department of Health including information to determine compliance.

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

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

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

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

**Section E. Agency Notification**

Any document (including reports) required to be submitted by this Covered Source Permit shall be done in accordance with Attachment I, Standard Condition No. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

**PROPOSED**

**ATTACHMENT III: ANNUAL FEE REQUIREMENTS  
COVERED SOURCE PERMIT NO. 0258-01-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 be submitted on forms furnished by the Department of Health.
4. The annual fees and the emission data shall be mailed to:

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

## PROPOSED

### ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS COVERED SOURCE PERMIT NO. 0258-01-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:

Monitoring/Annual Emissions Report Form: 325 TPH HMA Plant Production  
Monitoring/Annual Emissions Report Form: Fuel Certification & 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 manufacture, by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.



**COMPLIANCE CERTIFICATION FORM  
COVERED SOURCE PERMIT NO. 0258-01-C  
(PAGE 1 OF 2)**

**[Issuance Date]**

**[Expiration Date]**

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

(Make Copies for Future Use)

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

Company/Facility Name: \_\_\_\_\_

**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. 0258-01-C  
(CONTINUED, PAGE 2 OF 2)**

c. If NO, explain.

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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.):

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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.):

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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:

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

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**COMPLIANCE CERTIFICATION FORM  
COVERED SOURCE PERMIT NO. 0258-01-C  
(CONTINUED, PAGE 2 OF 2)**

(Make Additional Copies for Use.)

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

Company Name: **Grace Pacific Corporation**

Facility Name: **325 TPH HMA Plant**

Equipment Location **Honokohau Quarry**

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

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

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

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

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

Responsible Official (Signature): \_\_\_\_\_

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

**PROPOSED**

**MONITORING/ANNUAL EMISSIONS REPORT FORM  
FUEL CERTIFICATION & CONSUMPTION  
COVERED SOURCE PERMIT NO. 0258-01-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 Additional Copies for Use)

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

Company Name: **Grace Pacific Corporation**

Equipment Location: **Honokohau Quarry**

Equipment:

- 325 TPH HMA drum mixer, model no. DM732, ser. no. 732
- 1065 HP Cummins Diesel Engine Generator, model no. QST30-G5 NR2, ser. no. TBD
- 1.25 MMBTUH Heatec hot oil heater, model no. HCS-120, ser. no. 94268.

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

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

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

Responsible Official (Signature): \_\_\_\_\_

Fuel Certification			
Equipment	Types of Fuel Fired during the Reporting Period	Supplier	Maximum Sulfur Content (% by Weight)
325 TPH Asphalt Drum Mixer	Fuel oil no. 2		
1,065 hp Diesel Engine Generator	Fuel oil no. 2		
1.25 MMBTUH Hot Oil Heater	Fuel oil no. 2		

If not already on file at the Department of Health, provide the supplier's fuel specification sheet for the type of fuel indicated in the above table. The fuel specification sheet shall indicate the percent sulfur content by weight.

**MONITORING/ANNUAL EMISSIONS REPORT FORM  
FUEL CERTIFICATION & CONSUMPTION  
COVERED SOURCE PERMIT NO. 0258-01-C  
(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**:

<b>Diesel Engine Generator Fuel Consumption</b>		
<b>Month</b>	<b>Monthly Total (gallons)</b>	<b>Rolling 12-month Total (gallons)</b>
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

<b>1.25 MMBTUH Hot Oil Heater Fuel Consumption</b>	
<b>Semi-Annual Period</b>	<b>Total Fuel Consumption (gallons)</b>
First	
Second	
Total	



**PROPOSED**

**VISIBLE EMISSIONS FORM REQUIREMENTS  
STATE OF HAWAII  
COVERED SOURCE PERMIT NO. 0258-01-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. observation 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 the 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.

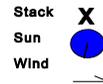
Any required initial and annual performance test performed in accordance with Method 9 by a certified reader shall satisfy the respective equipment's V.E. monitoring requirements for the month the performance test is performed.

**PROPOSED**

**VISIBLE EMISSIONS FORM  
STATE OF HAWAII**

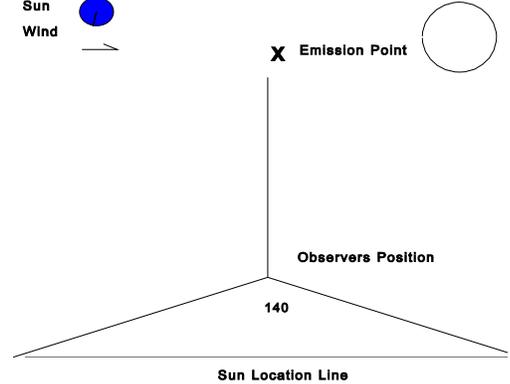
(Make Additional Copies for Each Equipment)

Permit No.: **CSP 0258-01-C**  
 Company Name: **Grace Pacific Corporation**  
 Equipment and Fuel: \_\_\_\_\_



Draw North Arrow

**Site Conditions:**  
 Stack/emission-point height above ground (ft): \_\_\_\_\_  
 Stack/emission-point distance from observer (ft): \_\_\_\_\_  
 Emission color (black or white): \_\_\_\_\_  
 Sky conditions (% cloud cover): \_\_\_\_\_  
 Wind speed (mph): \_\_\_\_\_  
 Temperature (°F): \_\_\_\_\_  
 Observer name: \_\_\_\_\_  
 Certified? (Yes/No): \_\_\_\_\_  
 Capacity equipment operated at: \_\_\_\_\_



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

Method of Observation (Ringelmann Chart or Method 9): \_\_\_\_\_

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

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

Method of Observation (Ringelmann Chart or Method 9): \_\_\_\_\_

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