

**PROPOSED**

[Issuance Date]

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

03-xxxE CAB  
File No. 0540-01

Mr. John Romanowski  
Vice President  
Jas. W. Glover, Ltd.  
P. O. Box 579  
Honolulu, Hawaii 96809

Dear Mr. Romanowski:

**Subject: Covered Source Permit (CSP) No. 0540-01-C**  
**Jas. W. Glover, Ltd.**  
**300 TPH Drum-Mix Asphalt Plant with 1,085 bhp Diesel Engine Generator**  
**Located at: 248 Sand Island Access Road, Oahu**  
**UTM Coordinates - Zone 4; 615,119 E / 2,358,802 N (NAD 83)**  
**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 received on June 13, 2003, and the additional information received on October 30; November 21 and 28; December 4, 5, 8 and 9, 2003.

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  
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: Asphalt Drum-Mixer  
Diesel Engine Generator - Fuel Consumption  
and Certification  
Hot Oil Heater - Fuel Consumption and  
Certification  
Monitoring Report Form: Visible Emissions

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The following are for use in monitoring and maintaining records on visible emissions:

- a. Visible Emissions Observation Form Requirements;
- b. Visible Emissions Form; 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

Cl:lk

Enclosures

c: CAB Enforcement Section

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### ATTACHMENT I: STANDARD CONDITIONS COVERED SOURCE PERMIT NO. 0540-01-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)<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 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)<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 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)<sup>2</sup>

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)<sup>2</sup>

26. Each permit renewal application shall be submitted to the Department of Health no fewer 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 fewer 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))<sup>1</sup>

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

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**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)

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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. 0540-01-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 300 TPH asphalt plant encompasses the following equipment and associated appurtenances:
  - a. One (1) CMI Drum-Mixer, model PTD-300, with ESII100 Burner;
  - b. One (1) 1,085 hp Cummins diesel engine generator, model QST30-G2;
  - c. One (1) Roto-Aire Baghouse servicing the Drum-Mixer;
  - d. One (1) CMI Hot Oil Heater, model CEI-2000;
  - e. One (1) CMI 20-Ton Capacity Portable Recycle Bin, model PRB-120;
  - f. One (1) 300 TPH Reclaimed Asphalt Plant (RAP) roller crusher connected to the portable recycling bin;
  - g. 4' x 10' Scalping Screen;
  - h. Aggregate Bins;
  - i. Asphalt Storage Silo; and
  - j. Various conveyor belts.

(Auth.: HAR §11-60.1-3)

2. Additional information on the above-listed equipment, such as model nos., serial nos., and manufacturer dates, shall be provided to the Department of Health as soon as this information is known.

(Auth.: HAR §11-60.1-3)

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

(Auth.: HAR §11-60.1-5)

### **Section B. Applicable Federal Regulations**

1. The asphalt 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 §60.1, §60.90)<sup>1</sup>

2. The 300 TPH RAP crusher and other affected facilities are subject to the provisions of the following 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 OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.1, §60.670)<sup>1</sup>

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

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.1, §60.90)<sup>1</sup>

### **Section C. Operational and Emission Limitations**

1. Operational Restrictions

- a. The total fuel consumption of the drum-mixer shall not exceed 2,142,000 gallons in any rolling twelve (12) month period.
- b. The total fuel consumption of the diesel engine generator (combined with the fuel usage for any temporary replacement unit provided in Special Condition C.10 of this Attachment) shall not exceed 159,000 gallons in any rolling twelve (12) month period.
- c. The total fuel consumption of the hot oil heater shall not exceed 60,000 gallons in any rolling twelve (12) month period.
- d. The drum mixer, RAP bin crusher, and scalping screen shall be powered only by the 1,085 hp Cummins diesel engine generator (or temporary replacement unit provided in Special Condition C.10 of this Attachment.)

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

2. Fuel Specifications

The diesel engine generator and hot oil heater shall be fired only on fuel oil no. 2 with a maximum sulfur content not to exceed 0.5% by weight. The drum-mixer shall be fired only on fuel oil no. 2 with a maximum sulfur content not to exceed 0.5% by weight, specification used oil with limits specified in Special Condition No. C.3.f., or any combination thereof.

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

3. Specification (Spec) Used Oil

- a. The permit conditions prescribed hereinafter may be revised at any time by the Department to reflect promulgated rules on used oil.
- b. This permit shall not release the permittee from compliance with all applicable state and federal rules and regulations on the handling, transporting, storing and burning of used oil.
- c. The used oil shall be obtained only from Unitek. Spec used oil may be obtained from other sources, provided a written notification identifying the new source is submitted to the Department and approved prior to the acceptance of the spec used oil.
- d. The permittee shall obtain an analysis of the spec used oil for those constituents/properties identified in Special Condition No. C.3.f. prior to receiving any quantity of spec used oil.
- e. This permit does not authorize the permittee to burn hazardous waste or off-spec used oil. The permittee shall not burn the used oil if declared or determined to be a hazardous waste or off-spec used oil.
- f. The following constituents/properties of the used oil shall not exceed the specified limits below:

<u>Constituent/Property</u>	<u>Allowable Limit</u>
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1,000 ppm maximum
Polychlorinated Biphenyls (PCB)	<2 ppm maximum
Sulfur	2.0% maximum by weight
Flash Point	100° F minimum

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

4. Visible Emissions

For any six (6) minute averaging period, the diesel engine generator, hot oil heater, and drum-mixer shall not exhibit visible emissions of twenty (20) percent or greater, except as follows: during startup, shutdown, or equipment breakdown, the diesel engine generator, hot oil heater, and drum-mixer may exhibit visible emissions greater than twenty (20) but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90; SIP §11-60-24)<sup>2</sup>

5. Drum-Mixer Emission Limit

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

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, 40 CFR §60.92)<sup>1</sup>

6. Reclaimed Asphalt Paving Bin Fugitive Emission Limitations

- a. The permittee shall not cause to be discharged into the atmosphere from any transfer point on the conveyors or from any other affected facility any fugitive emissions which exhibit greater than ten (10) percent opacity.
- b. The permittee shall not cause to be discharged into the atmosphere from the crusher of the RAP bin any fugitive emissions which exhibit greater than fifteen (15) percent opacity.

(Auth.: HAR §11-60.1-3, §11-60.1-33, §11-60.1-90, §11-60.1-161, 40 CFR §60.672)<sup>1</sup>

7. Fugitive Dust

- a. The permittee shall not cause or permit fugitive dust to become airborne without taking reasonable precautions, nor discharge visible emissions of fugitive dust beyond the lot line of the property on which the emissions originate.
- b. The permittee shall take measures to control and minimize fugitive dust (e.g., wet suppression, enclosures, etc.) at the RAP roller crusher, scalping screen, all material transfer points and aggregate stockpiles, and throughout the workyard. 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.
- c. A water truck shall be maintained and utilized as necessary to provide water spray to the aggregate storage piles and paved roads to minimize fugitive dust.
- d. Water sprays shall be installed, maintained and used as necessary during operation of the RAP bin to minimize fugitive dust at the crusher, scalping screen, and material transfer points. The permittee shall not operate the 300 TPH RAP bin if observation or routine inspection indicates a significant drop in water pressure and/or flow rate, plugged nozzle(s), leak in the piping system, or other problem which affects the efficiency of the water spray system. The permittee shall investigate and correct the problem before resuming operation of the RAP bin.

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

8. Maintenance

The asphalt plant, including the drum-mixer and baghouse, diesel engine generator (and any temporary replacement unit provided in Special Condition C.10 of this Attachment), RAP bin, water spray system, and scalping screen shall be maintained in good operating condition with scheduled inspection and maintenance as recommended by the manufacturer or as needed.

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

9. Baghouse

- a. The baghouse servicing the drum-mixer shall be utilized at all times during the operation of the asphalt plant.
- b. The permittee shall not operate the drum mixer if a problem affecting the baghouse 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, §11-60.1-5, §11-60.1-90)

10. Alternate Operating Scenarios

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

The permittee may replace the diesel engine generator with a temporary replacement unit if any repair reasonably warrants the removal (i.e., equipment failure, engine overhaul, or any major equipment problems requiring maintenance for efficient operation) of the diesel engine generator from its site 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 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**

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 of 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.

1. Operational Records

- a. A non-resetting volumetric fuel flow meter shall be installed, operated and maintained in the fuel line of the diesel engine generator (and any temporary replacement unit provided in Special Condition C.10 of this Attachment), hot oil heater and drum-mixer to record permanently the total gallons of fuel oil fired in each unit. Monthly records shall be maintained on the beginning and ending meter readings of each of the fuel flow meters.
- b. Monthly records shall be kept on the amount of asphalt produced. Monthly operational summaries shall include the total amount of asphalt produced on a monthly basis, and the total amount of asphalt produced based on an annual basis.

- c. A belt scale shall be installed, operated, and maintained on the RAP conveyor belt leading to the drum mixer to record the amount (tons) of RAP added to the asphalt mix. The permittee shall monitor the RAP usage and maintain records on the amount (tons) of RAP used on a monthly and annual basis for the purpose of annual emissions reporting. Monthly RAP usage records shall include:
  - i. Date of the belt scale readings;
  - ii. Total amount (tons) of RAP used each month;
  - iii. Total amount (tons) of RAP used on an annual basis; and
  - iv. Recorder's name and initials.
  
- d. Records shall be kept on the amount of fuel consumed by the diesel engine generator (and any temporary replacement unit provided in Special Condition C.10 of this Attachment), hot oil heater, and drum-mixer on a monthly, and twelve (12) month rolling basis. Records shall include:
  - i. Total fuel consumption of each unit for each month;
  - ii. Total fuel consumption of each unit on a twelve (12) month rolling basis; and
  - iii. Recorder's name and initials.
  
- f. Fuel consumption, RAP used, and asphalt production records shall be maintained for the drum-mixer in accordance with Monitoring/Annual Emissions Report Form: Asphalt Drum-Mixer.
  
- g. The permittee shall maintain records on monthly and annual V.E. observations monitoring results for the diesel engine generator (and any temporary replacement unit provided in Special Condition C.10 of this Attachment), hot oil heater and drum-mixer.
  
- h. The permittee shall maintain records on source performance test plans, summaries, and results for the asphalt plant.

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

## 2. Fuel Purchase Receipts

Fuel purchase receipts, showing the fuel type, sulfur content (percent by weight), date of delivery, and amount (gallons) of fuel delivered to the site for the diesel engine generator (and any temporary replacement unit provided in Special Condition C.10 of this Attachment), hot oil heater, and drum-mixer shall be maintained. A certificate of analysis of the fuel's sulfur content (percent by weight) shall be obtained from the supplier.

For each batch of spec used oil, as a minimum, the permittee shall maintain records of the delivery date, the quantity of spec used oil received, the supplier's name and address, and the results of the analysis required by Special Condition No. C.3.d. of this Attachment.

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

3. Water Spray System

- a. A water pressure gauge or flow meter shall be installed, operated, and maintained to establish and monitor normal operating pressure (psi) and/or flow rate (gpm) of the water spray system.
- b. The water spray system, including the water pump, piping system, spray nozzles and any gauges shall be checked routinely or at least once a month to ensure proper operation.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

4. Baghouse

- a. A pressure drop gauge shall be installed, operated, and maintained on the baghouse to measure the pressure drop across the baghouse.
- b. The permittee shall 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 hopper is discharged in a timely manner to prevent excessive particulate buildup which could cause compaction, overflow or plugging.
  - iii. The cleaning system is maintained and operated at sufficient intervals to minimize particulate buildup or caking on the filter bags.
  - iv. Other miscellaneous items/equipment essential for the effective operation of the baghouse are maintained.

(Auth.: HAR §11-60.1-3, §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 observations of the diesel engine generator and hot oil heater, the permittee shall conduct **monthly** (*calendar month*) V.E. observations in accordance with 40 CFR Part 60, Appendix A, 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*.

- b. Except in those months when a performance test is conducted for the drum-mixer pursuant to this Attachment, Section F, **monthly** (*calendar month*) V.E. observations shall be performed in accordance with Method 9, or by the use of a Ringelmann Chart as provided. For the monthly observation, 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 Emission Form Requirements*.
- c. The permittee shall conduct **annual** (*calendar year*) V.E. observations for the diesel engine generator and hot oil heater by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9. For the annual observation, 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*.
- d. Except in those months when a performance test is conducted pursuant to this Attachment, Section F Attachment, the permittee shall conduct **monthly** (*calendar month*) V.E. observations of the RAP bin rollers and aggregate handling system. Observations shall be made at emission points subject to an opacity limit, and shall be performed in accordance with 40 CFR Part 60, Appendix A, Method 9, or by use of a Ringelmann Chart as provided. For each monthly observation, the permittee shall record two (2) consecutive observations, each six (6) minutes in duration with readings taken at fifteen (15) second intervals. For the visible emission observations of fugitive emissions from the affected processing points, the observer shall comply with the following additional requirements:
  - i. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet);
  - ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources. The required observer position relative to the sun (Method 9, Section 2.1) shall be followed; and
  - iii. The observer shall record the operating capacity (ton/hr) of the RAP aggregate processing at the time the observations were made.

The Department of Health may allow observation of a portion of the total emission points at the RAP bin crusher and aggregate handling system (i.e. transfer point), if it

can be demonstrated that operations have been in compliance with the permit. At a minimum, at least two emission points from the RAP bin operation shall be observed each month. The selected points shall include the RAP bin crusher and a transfer point, or those points as specified by the Department. Each month, the observed transfer point shall be rotated so that every transfer point is eventually observed.

- e. 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, §11-60.1-11, §11-60.1-90)

6. Performance Testing

An initial and annual source performance test thereafter shall be conducted on the asphalt plant drum-mixer and RAP crushing operation pursuant to this Attachment, Section F.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

7. Inspection and repair log.

The permittee shall maintain records on any inspections/maintenance/repair work conducted on the asphalt plant, including the diesel engine generator, drum-mixer with baghouse, hot oil heater, RAP bin, scalping screen, and water spray system. As a minimum, these records shall include:

- a. The date of the inspection/maintenance/repair work, including replacement of filter bag(s) for the baghouse;
- b. A description of the findings and any work performed on the equipment covered by this permit; and
- c. The name and title of personnel performing inspection/work.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

**Section E. Notification and Reporting Requirements**

1. Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 14, 16, 17, and 25, respectively:
  - a. *Anticipated date of initial start-up, actual date of construction commencement, and actual date of start-up;*
  - b. *Intent to shut down air pollution control equipment for necessary scheduled maintenance;*
  - c. *Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and*
  - d. *Permanent discontinuance of construction, modification, relocation, or operation of the facility 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. The permittee shall report (in writing) **within five (5) 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 stack testing, more frequent monitoring, or 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. At least **thirty (30) days prior** to conducting a source performance test pursuant to this Attachment, Section F, the permittee shall submit to the Department of Health a test plan in accordance with this Attachment, Special Condition No. F.3, indicating the date(s) of the scheduled performance test for the facility and the locations of the visible emissions reading.

(Auth.: HAR §11-60.1-3, §11-60.1-90; 40 CFR §60.8)<sup>1</sup>

4. 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 conformance with this Attachment, Special Condition No. F.6.

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

5. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health, *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 written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.*

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

6. 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 the following:

- a. Diesel Engine Generator, Hot Oil Heater
  - i. The total fuel consumption (gallons) of the diesel engine generator and hot oil heater on a monthly and 12-month rolling basis.

- ii. The type of fuel fired by the diesel engine generator and hot oil heater during the respective reporting period. Include the maximum sulfur content (percent by weight) of the fuel.
  - iii. 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 the diesel engine generator or hot oil heater there were no exceedances for that semi-annual period.
- b. Asphalt Plant / Drum-Mixer
- i. The total amount (tons) of asphalt produced by the facility on a monthly and annual (calendar year) basis.
  - ii. The total amount (tons) of RAP processed by the facility on a monthly and annual (calendar year) basis.
  - iii. 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 the drum mixer there were no exceedances for that semi-annual period.
  - iv. The total fuel consumption (gallons) of fuel oil no. 2 and spec used oil combusted in the drum-mixer burner on a monthly and 12-month rolling basis.
  - v. The type of fuel fired by the drum-mixer during the respective reporting period. Include the maximum sulfur content (percent by weight) for fuel oil no. 2 and spec used oil, and the highest results of the constituents in the spec used oil analysis.

The enclosed Monitoring/Annual Emission Report Form(s): *"Asphalt Drum Mixer," "Diesel Engine Generator - Fuel Consumption and Certification," "Hot Oil Heater - Fuel Consumption and Certification,"* and *"Visible Emissions,"* shall be used.

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

## 7. 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/year emitted of each regulated pollutant, including hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following the end of each calendar year**. The Monitoring/Annual Emissions Report Form(s): *"Asphalt Drum Mixer," "Diesel Engine Generator - Fuel Consumption and Certification," "Hot Oil Heater - Fuel Consumption and Certification,"* referenced in Special Condition No. E.6. above, may be used to satisfy this annual reporting requirement.

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

(Auth.: HAR §11-60.1-3, §11-60.1-90)

### Section F. Testing Requirements

#### 1. Drum-Mixer with Baghouse

- a. **Within sixty (60) days after** achieving the maximum production rate of the 300 TPH asphalt plant, but **not later than one-hundred eighty (180) days after** initial start-up, and **annually** thereafter or at other times as specified by the Department of Health, performance tests for the emissions of particulate matter and the determination of opacity from the baghouse servicing the asphalt plant drum-mixer shall be conducted and results reported in accordance with the test methods set forth in 40 CFR Part 60 Appendix A and the procedures in 40 CFR §60.8. The following test methods or U.S. EPA-approved equivalent methods, or alternate methods with prior written approval from the Department of Health shall be used:
  - i. Performance test for the emissions of particulate matter 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).
  - ii. Performance tests to determine opacity 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 § 60.93, SIP §11-60-15 )<sup>1,2</sup>

- b. 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.
  - i. For each run, the asphalt production rate in tons/hour shall be provided. The permittee shall document the methodology by which the asphalt production rate was determined.
  - ii. 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, 40 CFR § 60.93, SIP § 11-60-15 )<sup>1,2</sup>

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

- i. Cyclonic or swirling gas flow at the sampling location;
- ii. Stack or duct with a diameter less than 12 inches or a cross-sectional area less than 113 square inches; or
- iii. 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)

d. Particulate emissions shall be reported in two categories:

- i. Front half (filter and probe); and
- ii. 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)

e. 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)

## 2. RAP Bin Crusher and Aggregate Handling System

a. **Within sixty (60) days after** achieving the maximum production rate at which the RAP bin and aggregate handling system will be operated, but **not later than one-hundred eighty (180) days after** the initial start-up, and **annually** thereafter or at other times as specified by the Department, performance tests shall be conducted on the RAP bin and aggregate handling system for visible emissions of opacity at each point subject to an opacity limit.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, 40 CFR § 60.675, SIP § 11-60-15 )<sup>1</sup>

b. A visible emission test shall be conducted by a certified reader using Method 9 of 40 CFR Part 60, Appendix A and the procedures of 40 CFR § 60.11. In addition, the observer shall comply with the following requirements:

- i. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet); and
- ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources. The required observer position, relative to the sun, of Method 9, Section 2.1, shall be followed.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR § 60.675)<sup>1</sup>

3. **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)

4. The permittee shall provide sampling and testing facilities at its own expense. The tests shall be conducted at the maximum expected operating capacity of the asphalt plant and RAP bin. The Department of Health may monitor the tests.

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

5. 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)

6. **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)

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

(Auth.: HAR §11-60.1-3, §11-60.1-90)

#### **Section H. Agency Notification**

1. Any document (including reports) required to be submitted by this Temporary Covered Source Permit shall be done in accordance with Attachment I, Standard Conditions, Condition 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  
COVERED SOURCE PERMIT NO. 0540-01-C  
Insignificant Activities**

**[Issuance Date]**

**[Expiration Date]**

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

**Section A. Equipment Description**

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

(Auth.: HAR §11-60.1-3)

**Section B. Operational Limitations**

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

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

2. The Department 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)

CSP No. 0540-01-C  
Attachment II - INSIG  
Page 2 of 2  
[Issuance Date]  
[Expiration Date]

**Section D. Notification and Reporting**

Compliance Certification.

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

- 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 the Compliance Certification form, the permittee may address insignificant activities as a single unit provided compliance is met with all applicable requirements. If compliance is not totally attained, the permittee shall identify the specific insignificant activity and provide the details associated with the noncompliance.**

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

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

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

**Section E. Agency Notification**

Any document (including reports) required to be submitted by this Covered Source Permit shall be done in accordance with Attachment 1, Standard Condition No. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

## PROPOSED

### ATTACHMENT III: ANNUAL FEE REQUIREMENTS COVERED SOURCE PERMIT NO. 0540-01-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. 0540-01-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 Monitoring/Annual Emission forms for the following:

**Diesel Engine Generator - Fuel Consumption and Certification  
Hot Oil Heater - Fuel Consumption and Certification  
Asphalt Drum Mixer**

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 by submitting a written request to the Department of Health and clearly identifying the specific information that is to be accorded confidential treatment.

**\_\_\_\_\_ MONITORING/ANNUAL EMISSIONS REPORT FORM: ASPHALT DRUM-MIXER  
COVERED SOURCE PERMIT NO. 0540-01-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 information semi-annually:

(Make Copies for Future Use)

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

Facility Name: \_\_\_\_\_

Equipment Location: \_\_\_\_\_

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

Equipment Capacity/Rating (specify units): \_\_\_\_\_  
(Units such as Horsepower, kilowatt, tons/hour, etc.)

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

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

Responsible Official (PRINT): \_\_\_\_\_

TITLE: \_\_\_\_\_

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

<b>RAP Used, Asphalt Concrete Production &amp; Fuel Consumption</b>						
<b>MONTH</b>	<b>Monthly Production Totals (Tons)</b>		<b><sup>a</sup> Fuel Consumption Totals (gallons)</b>			
	<b>RAP Used</b>	<b>Asphalt Concrete</b>	<b>Monthly</b>			<b>Rolling 12- Month Basis</b>
			<b>F.O. #2</b>	<b>Spec.</b>	<b>Total</b>	
<b>January</b>						
<b>February</b>						
<b>March</b>						
<b>April</b>						
<b>May</b>						
<b>June</b>						
<b>July</b>						
<b>August</b>						
<b>September</b>						
<b>October</b>						
<b>November</b>						
<b>December</b>						
<b>Total</b>						

<sup>a</sup>. Drum-Mixer ESII100 Burner

**MONITORING/ANNUAL EMISSIONS REPORT FORM: ASPHALT DRUM-MIXER  
COVERED SOURCE PERMIT NO. 0540-01-C  
(CONTINUED, PAGE 2 OF 2)**

Specification Used Oil:

Supplier: \_\_\_\_\_

Number of used oil analyses received/performed for this reporting period: \_\_\_\_\_

Did any of the used oil analyses indicate exceedances of the permitted limits:     YES     NO

If Yes, indicate the number of exceedances: \_\_\_\_\_

Indicate the highest of the Used Oil analyses results received/performed:

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

Fuel Oil No. 2:

Maximum % sulfur content by weight received for this report period: \_\_\_\_\_

**PROPOSED**

**MONITORING/ANNUAL EMISSIONS REPORT FORM: HOT OIL HEATER  
FUEL CONSUMPTION AND CERTIFICATION  
COVERED SOURCE PERMIT NO. 0540-01-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 following information semi-annually:

(Make Copies for Future Use)

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

Facility Name: \_\_\_\_\_

Equipment Location: \_\_\_\_\_

Equipment Description: CEI-2000 Hot Oil Heater

Equipment Capacity/Rating (specify units): \_\_\_\_\_  
(Units such as Horsepower, kilowatt, tons/hour, etc.)

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

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

Responsible Official (PRINT): \_\_\_\_\_

TITLE: \_\_\_\_\_

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

Type of Fuel Fired: \_\_\_\_\_

Maximum % Sulfur Content by Weight: \_\_\_\_\_

MONTH	MONTHLY FUEL CONSUMPTION (Gallons)	12-MONTH ROLLING BASIS (Gallons)	NOTES
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

**PROPOSED**

**MONITORING/ANNUAL EMISSIONS REPORT FORM: DIESEL ENGINE GENERATOR  
FUEL CONSUMPTION AND CERTIFICATION  
COVERED SOURCE PERMIT NO. 0540-01-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 following information semi-annually:

(Make Copies for Future Use)

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

Facility Name: \_\_\_\_\_

Equipment Location: \_\_\_\_\_

Equipment Description: \_\_\_\_\_ Diesel Engine Generator \_\_\_\_\_

Equipment Capacity/Rating (specify units): \_\_\_\_\_  
(Units such as Horsepower, kilowatt, tons/hour, etc.)

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

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

Responsible Official (PRINT): \_\_\_\_\_

TITLE: \_\_\_\_\_

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

Type of Fuel Fired: \_\_\_\_\_

Maximum % Sulfur Content by Weight: \_\_\_\_\_

MONTH	MONTHLY FUEL CONSUMPTION (Gallons)	12-MONTH ROLLING BASIS (Gallons)	NOTES
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

**COMPLIANCE CERTIFICATION  
COVERED SOURCE PERMIT NO. 0540-01-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: \_\_\_\_\_

Facility Name: Jas. W. Glover, Ltd. 300 TPH Asphalt Plant

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

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

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

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

Complete the following information for *each* applicable requirement and/or 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: CSP NO. 0540-01-C
2. Emissions Unit No./Description: \_\_\_\_\_
3. Identify the applicable requirement(s), and/or 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 applicable requirement(s) and/or permit term(s) or condition(s)?  
 YES                       NO
  - b. If YES, was compliance continuous or intermittent?  
 Continuous               Intermittent

**COMPLIANCE CERTIFICATION  
COVERED SOURCE PERMIT NO. 0540-01-C  
(CONTINUED, PAGE 2 OF 2)**

**[Issuance Date]**

**[Expiration Date]**

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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## PROPOSED

### VISIBLE EMISSIONS OBSERVATION FORM REQUIREMENTS COVERED SOURCE PERMIT NO. 0540-01-C

[Issuance Date]

[Expiration Date]

The **Visible Emissions Observation** forms shall be completed **monthly** (*each calendar month*) for each equipment subject to opacity limits in accordance with Method 9 or using a Ringelmann Chart as provided. At least **annually** (*calendar year*), visible emissions (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. Observation form shall be completed as follows:

1. Visible emissions observations shall take place during the day only and shall be compared to the Ringelmann Chart provided. The opacity shall be noted in 5 percent increments (e.g., 25%).
2. Orient the sun within a 140 degree sector to your back. Provide a source layout sketch on the V.E. Observation form using the symbols as shown.
3. Stand at least three stack heights, but not more than a quarter mile from the stack.
4. Two consecutive 6-minute observations shall be taken at 15-second intervals for each stack or emission point.
5. The 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 plume at a time.
  - c. Read at the point in the plume with the greatest opacity (e.g., for stacks, at the location without condensed water vapor, ideally while the plume is no wider than the stack diameter).
  - d. Read the plume at 15-second intervals only. Do not read continuously.
  - e. The equipment shall be operating at maximum permitted or expected 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 its representative upon request.

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

**VISIBLE EMISSIONS FORM  
COVERED SOURCE PERMIT NO. 0540-01-C**

**[Issuance Date]**

**[Expiration Date]**

(Make Copies for Future Use)

Company Name: \_\_\_\_\_

Equipment and Fuel: \_\_\_\_\_

**Site Conditions:**

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

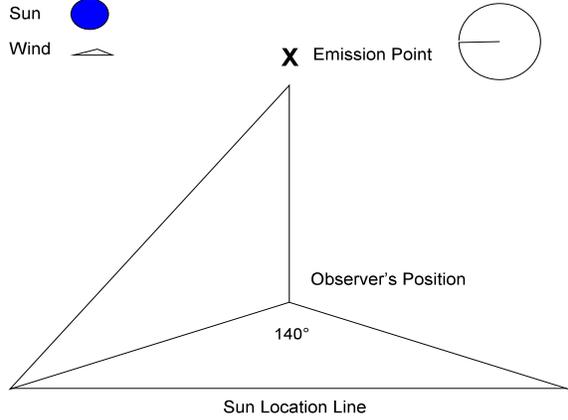
Observer name: \_\_\_\_\_

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

Capacity equipment operated at: \_\_\_\_\_

Stack **X**  
Sun   
Wind 

Draw North Arrow



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 (%):					