

DEPARTMENT OF ENVIRONMENTAL CONSERVATION AIR QUALITY OPERATING PERMIT

GENERAL PERMIT 3 FOR ASPHALT PLANTS

GP3

Public Notice: February 9, 2022
Expiration Date: Five Years

The Alaska Department of Environmental Conservation, under the authority of AS 46.03, AS 46.14, and 18 AAC 50, issues an Air Quality Operating Permit for:

Permitted Stationary Sources: Hot mix asphalt plants classified as a *major source* as defined in 40 C.F.R. 71.2 that have requested limits to avoid classification under 18 AAC 50.306. This permit may also be used for a hot mix asphalt plant and rock crushing operations capable of processing at least five tons per hour of untreated material as long as the crushing operations are located on a contiguous or adjacent property to the hot mix asphalt plant and are under common control of the same person (or persons under common control), belonging to a single major industrial grouping, with a combined potential-to-emit of 100 tons per year or more of any regulated pollutant.

This permit satisfies the obligation of the owner and operator to obtain an operating permit as set out in AS 46.14.130(b). As required by AS 46.14.120(c), the Permittee shall comply with the terms and conditions of this permit.

Citations listed herein are contained within the effective version of 18 AAC 50 at permit issuance. All federal regulation citations are from those sections adopted by reference in this version of regulation in 18 AAC 50.040 unless otherwise specified.

This General Operating Permit becomes effective **Month XX, 2022.**

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Air Permits Program

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Section 1. Qualifying Requirements

The Stationary Sources¹ authorized to operate under this general operating permit are commonly referred as *hot mix asphalt plants* (asphalt plants), or asphalt plants and rock crushing operations as long as the crushing operations are located on a contiguous or adjacent property to the hot mix asphalt plant, and are under common control of the same person (or persons under common control), belonging to a single major industrial grouping, with a combined potential-to-emit between 100 and 249 tons per year (TPY) of any regulated pollutant.

The operations of asphalt plants are described under Standard Industrial Classification (SIC) codes 1611 for Highway and Street Construction, Except Elevated Highways and 2951 for Asphalt Paving Mixtures and Blocks. This includes the production of asphalt concrete for the manufacturing of paving products. Although rock crushing activities on their own may be classified under SIC Industry Group 14, under this permit, rock crushing activities are assumed to be support activities to the Asphalt Plant covered under this general permit.

Exclusions:

The Stationary Source is excluded from using this General Permit if the following applies:

- a. The Stationary Source is subject to a fuel consumption limit or other stationary source-specific requirement established in a minor or construction permit, or air quality control permit under the 18 AAC 50.400 (effective prior to 1/18/97). (This does not include a limit established because a source test was conducted at less than full rated capacity.)
- b. The Stationary Source contains any of the following:
 - i. a boiler subject to any of 40 C.F.R. 60, Subparts D, Da, Db, or Dc;
 - ii. a spark ignition internal combustion engine subject to 40 C.F.R. Subpart JJJJ;
 - iii. a fuel storage tank subject to NSPS 40 C.F.R. 60, Subparts K, Ka, or Kb;
 - iv. an emissions unit other than an asphalt plant, crushing and grinding equipment, or internal combustion engine that is subject to 40 C.F.R. 60, 61, or 63;
 - v. a gas turbine;
 - vi. an incinerator; or
 - vii. an emission unit subject to any standard in 18 AAC 50.055(a) – (f) other than standards for fuel burning equipment in (a)(1), (a)(4), (b)(1), (b)(5) and (c).
- c. For rock crushers, the non-metallic mineral processing plant has emission points with mechanically induced air flow, such as a fan forcing emissions to a stack or control device.

Miscellaneous Information:

¹ *Stationary Source* means any building, structure, facility or installation that emits or may emit any regulated air pollutant or any pollutant listed under section 112(b) of the Act (40 C.F.R. 71.2).

Permitted Emissions Units

This permit authorizes the Permittee to operate the emissions units identified in the permit application submitted for this General Permit or an off permit change under Condition 96. Only rock crushers identified in the permit application or subsequent amendments are authorized to operate under this General Permit provided that the crushing operations are located on a contiguous or adjacent property to the hot mix asphalt plant, and are under common control of the same person (or persons under common control), belonging to a single major industrial grouping, with a combined potential-to-emit between 100 to 249 TPY of any regulated pollutant.

Change of Ownership

If the ownership of the Asphalt Plant is changed, both the new and previous owners must complete a transfer of ownership form and receive authorization to operate from the Department **before** the plant is operated by the new owner. The transfer of ownership form is available from ADEC Air Permits Program staff or on the Department's web site. The website address at the time of issuance of this permit is <https://dec.alaska.gov/air/air-permit/info/>.

Contact information for Division of Air Quality staff may be found on the Department's website. The website address at the time of issuance of this permit is <https://dec.alaska.gov/air/contacts-topic/>.

Regulatory Citations and References

All regulatory citations have been included at the end of each permit condition.

Nonroad Engines

The only requirements under this General Permit for nonroad engines, as defined in 40 C.F.R. 89.2, are those in Condition 93.

Section 2. State Requirements

Visible Emissions Standards

- 1. Industrial Process and Fuel-Burning Equipment Visible Emissions.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from asphalt plants or stationary diesel engines to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.040(j)(4), 50.055(a)(1), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(1)]

- 1.1 For an Asphalt Plant², monitor, record, and report in accordance with Conditions 2 through 4.
- 1.2 For diesel engines, monitor, record, and report in accordance with Conditions 5 through 7.

Visible Emissions Monitoring, Recordkeeping, and Reporting (MR&R)

- 2. Asphalt Plant Visible Emissions Monitoring.** The Permittee shall observe the exhaust of the drum/dryer for visible emissions in accordance with 40 C.F.R. 60, Appendix A, Method 9 for a minimum of 18 consecutive minutes to obtain 72 consecutive 15-second opacity observations.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(i)]

- 2.1 The Permittee shall perform visible emissions observations:
 - a. when the Asphalt Plant is operating at loads typical of normal operations (not on idle or reduced loads);
 - b. within two days of startup at the beginning of the operating season or after relocating the plant;
 - c. within the first two days of production during each calendar month of operation; and
 - d. during a particulate matter source test conducted under Condition 8.2.

- 3. Asphalt Plant Visible Emissions Recordkeeping.** When visible emissions monitoring is conducted, the Permittee shall keep records as follows:

[18 AAC 50.040(j)(4), 50.326(j)(3), and 50.346(c)]
[40 C.F.R. 71.6(a)(3)(ii)]

- 3.1 For all Method 9 observations,
 - a. The observer shall record:

² In this permit, "asphalt plant" means all asphalt plant equipment (including the aggregate dryer and drum mixer), except the diesel engine and vehicles.

- (i) the name of the stationary source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emissions Observation Form in Section 11;
 - (ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating rate (production rate of the asphalt plant in tph) on the sheet at the time opacity observations are initiated and completed;
 - (iii) the presence or absence of an attached or detached plume and the approximate distance from the emissions outlet to the point in the plume at which the observations are made;
 - (iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emissions Observation Form in Section 11; and
 - (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
- b. To determine the six-minute average opacity,
 - (i) divide the observations recorded on the record sheet into sets of 24 consecutive observations;
 - (ii) sets need not be consecutive in time and in no case shall two sets overlap;
 - (iii) for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; and
 - (iv) record the average opacity on the sheet.
- c. Calculate and record the highest six- and 18-consecutive-minute average opacities observed.

3.2 The records required by Condition 3.1 may be kept in electronic format.

4. Asphalt Plant Visible Emissions Reporting. The Permittee shall report visible emissions as follows:

[18 AAC 50.040(j)(4), 50.326(j)(3), and 50.346(c)]
[40 C.F.R. 71.6(a)(3)(iii)]

- 4.1 Include in each operating report required in Condition 89 for the period covered by the report:
- a. copies of the observation results (i.e. opacity observations) for each emissions unit, except for the observations the Permittee has already supplied to the Department;
 - b. a summary to include:

- (i) number of days observations were made;
 - (ii) highest six- and 18-consecutive-minute average opacities observed; and
 - (iii) dates when one or more observed six-consecutive-minute average opacities were greater than 20 percent;
- c. a summary of any monitoring or recordkeeping required under Conditions 2 and 3 that was not done.

4.2 Report under Condition 88:

- a. the results of Method 9 observations that exceed 20 percent average opacity for any six-consecutive-minute period; and
- b. if any monitoring under Condition 2 was not performed when required, report within three days of the date that the monitoring was required.

5. Diesel Engine Visible Emissions Monitoring. The Permittee shall observe the exhaust of any diesel engines subject to Condition 1 for visible emissions using either the Method 9 Plan under Condition 5.1 or the Smoke/No-Smoke Plan under Condition 5.2. The Permittee may change visible emission plans for an emission unit at any time unless prohibited from doing so by Condition 5.3.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(i)]

5.1 Method 9 Plan. For all observations in this plan, observe emissions unit exhaust, following 40 C.F.R. 60, Appendix A-4, Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations.³

- a. First Method 9 Observation. Within two days of the beginning of the operating season or after relocating the plant, or within three days after changing from the Smoke/No Smoke Plan in Condition 5.2.
- b. Continuing Method 9 Observations. After the first Method 9 observation, perform 18-minute observations at least once every 30 operating days.

5.2 Smoke/No Smoke Plan. Observe the emissions unit exhaust for the presence or absence of visible emissions, excluding condensed water vapor.

- a. Initial Monitoring Frequency. Observe the exhaust during each calendar day that an emission unit operates for a minimum of 30 days.
- b. Reduced Monitoring Frequency. If the emissions unit operates without emissions for 30 consecutive operating days as required in Condition 5.2a, observe emissions unit exhaust at least once in every calendar month that an emissions unit operates.

³ Visible emissions observations are not required during emergency operations.

- c. Smoke Observed. If visible emissions are observed, Comply with Condition 5.3.

5.3 Corrective Actions Based on Smoke/No Smoke Observations. If visible emissions are present in the emissions unit exhaust during an observation performed under the Smoke/No Smoke Plan of Condition 5.2, then the Permittee shall either begin the Method 9 plan of Condition 5.1 or

- a. initiate actions to eliminate smoke from the emission unit within 24 hours of the observation;
- b. keep a written record of the starting date, the completion date and a description of the actions taken to reduce visible emissions; and
- c. after completing the actions required under Condition 5.3a,
 - (i) conduct Smoke/No Smoke observations in accordance with Condition 5.2
 - (A). at least once per day for the next seven operating days and until the initial 30-day observation period of Condition 5.2a is completed; and
 - (B). continue as described in Condition 5.2b; or
 - (ii) if the actions taken under Condition 5.3a do not eliminate the visible emissions, or if subsequent visible emissions are observed under the schedule of Condition 5.3c(i)(A), then observe the exhaust using the Method 9 Plan unless the Department gives written approval to resume observations under the Smoke/No Smoke Plan; after observing visible emissions and making observations under the Method 9 Plan, the Permittee may at any time take corrective action that eliminates visible emissions and restart the Smoke/No Smoke Plan under Condition 5.2a.

6. Diesel Engine Visible Emissions Recordkeeping. When visible emissions monitoring is conducted, the Permittee shall keep records as follows:

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(ii)]

6.1 For all Method 9 observations,

- a. the observer shall record
 - (i) the name of the Stationary Source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emissions Observation Form in Section 11;
 - (ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background and operating rate (load or fuel consumption rate or best estimate if

- unknown) on the sheet at the time opacity observations are initiated and completed;
 - (iii) the presence or absence of an attached or detached plume and the approximate distance from the emissions outlet to the point in the plume at which the observations are made;
 - (iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emission Form in Section 11, and
 - (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
- b. to determine the six-minute average opacity,
 - (i) divide the observations recorded on the record sheet into sets of 24 consecutive observations;
 - (ii) sets need not be consecutive in time and in no case shall two sets overlap;
 - (iii) for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24;
 - (iv) record the average opacity on the sheet;
 - c. calculate and record the highest six- and 18-consecutive-minute average opacities observed.
- 6.2 If using the Smoke/No Smoke Plan of Condition 5.2, record the following information in a written log for each observation and submit copies of the recorded information upon request of the Department:
- a. the date and time of the observation;
 - b. the EU ID of the emissions unit observed;
 - c. whether visible emissions are present or absent in the emissions unit exhaust;
 - d. a description of the background to the exhaust during the observation;
 - e. if the emissions unit starts operation on the day of the observation, the startup time of the emissions unit;
 - f. name and title of the person making the observation; and
 - g. operating rate (load or fuel consumption rate or best estimate, if unknown).
- 6.3 The records required by Conditions 6.1 and 6.2 may be kept in electronic format.
7. **Diesel Engine Visible Emissions Reporting.** The Permittee shall report visible emissions as follows:

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(ii)]

- 7.1 include in each operating report required in Condition 89 for the period covered by the report:
- a. which visible-emissions plan of Condition 5 was used for each emissions unit; if more than one plan was used, give the time periods covered by each plan;
 - b. for all Method 9 Plan observations,
 - (i) copies of the observation results (i.e. opacity observations) for each emissions unit that used the Method 9 Plan, except for the observations the Permittee has already supplied to the Department; and
 - (ii) a summary to include:
 - (A). number of days observations were made;
 - (B). highest six-consecutive- and 18-consecutive-minute average opacities observed ; and
 - (C). dates when one or more observed six-consecutive-minute averages were greater than 20 percent;
 - c. for each emissions unit under the Smoke/No Smoke Plan, the number of days that Smoke/No Smoke observations were made and which days, if any, that visible emissions were observed; and
 - d. a summary of any monitoring or recordkeeping required under Conditions 5 and 6 that was not done.
- 7.2 Report under Condition 88:
- a. the results of Method 9 observations that exceed 20 percent average opacity for any six-consecutive-minute period; and
 - b. if any monitoring under Condition 5 was not performed when required, report within three days of the date the monitoring was required.

Asphalt Plant Particulate Matter (PM) Emissions Standard & MR&R

8. Asphalt Plant PM Emissions Standard, Monitoring, Recordkeeping, and Reporting.

[18 AAC 50.040(j)(4), 50.055(b)(1 & 5), 50.220, & 50.346(c)]
[40 C.F.R. 71.6(a)(1 & 3) & 71.6(c)(6)]

- 8.1 The Permittee shall:
- a. not cause or allow particulate matter emitted from asphalt plants constructed, reconstructed or modified on or before June 11, 1973, to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions (gr/dscf) and averaged over three hours; and

- b. not cause or allow particulate matter emitted from asphalt plants constructed, reconstructed or modified after June 11, 1973, to exceed 0.04 gr/dscf and averaged over three hours.
- 8.2 The Permittee shall conduct PM source tests in accordance with Section 7 and as follows:
 - a. For a new asphalt plant subject to NSPS Subpart I⁴, conduct a PM source test according to the schedule and terms set out in Conditions 30 and 35.
 - b. Conduct a source test within the first thirty operating days under this permit unless the source has conducted a PM source test approved by the Department within the last five years.
 - c. If the Permittee conducted a PM source test approved by the Department within the last five years, conduct a source test during the fifth year after that test or the first operation thereafter.
 - (i) Except as provided under 8.2c(ii), if the results of any PM source test exceed more than 90 percent of the PM emission standard listed in Condition 8.1 (i.e., either 0.045 gr/dscf or 0.036 gr/dscf depending on date of construction, reconstruction or modification of the asphalt plant), conduct a subsequent source test within one year of the date of the most recent source test.
 - (ii) If the Permittee does not operate in a calendar year, then the calendar year that the Permittee did not operate does not count toward the time requirement to conduct another PM source test in Condition 8.2c(i). This delays the due date until the next calendar year that the asphalt plant operates.
- 8.3 Conduct at least one 18-consecutive minute set of EPA Method 9 readings during each one hour run of the PM source test.
- 8.4 For all PM source tests, the Permittee shall keep records of the information requested in Section 7 in addition to the following:
 - a. maximum asphalt production rate (tph)
 - b. average asphalt production rate (tph)
 - c. Method 9 readings
 - d. for an asphalt plant using a baghouse:
 - (i) the baghouse exit temperature (°F)
 - (ii) the pressure drop across the baghouse (inches of water)

⁴ Refer to Condition 33 for NSPS Subpart I applicability.

- e. for an asphalt plant using a scrubber:
 - (i) the pressure drop across the scrubber (inches of water)
 - (ii) water flow rate (gallons/minute)
 - (iii) indication of whether the water is normally recycled.
- 8.5 Maintain a daily production log showing:
 - a. the daily total asphalt production (tons);
 - b. the maximum hourly production rate for each operating day (tph);
 - c. the start and stop time with the date for each day the asphalt plant operated;
 - d. total hours operated per day; and
 - e. the total number of operating hours operated since the last source test.
- 8.6 The Permittee shall not operate the asphalt plant at a production level greater than the maximum throughput recorded under Condition 8.4a during the most recent PM source test that showed compliance.
- 8.7 Report in accordance with Condition 88
 - a. if the results of any source test exceeds the PM standards in Condition 8.1;
 - b. if Condition 8.6 is violated; or
 - c. any of Conditions 8.2 through 8.5 are not met.
- 8.8 In each operating report under Condition 89, include:
 - a. the information recorded in the daily production log under Condition 8.5; and
 - b. the maximum production rate from the most recent source test recorded under Condition 8.4a.

Stationary Diesel Engine PM Emissions Standard

- 9. Diesel Engine PM Standard.** The Permittee shall not cause or allow particulate matter emitted from stationary diesel engines to exceed 0.05 grains per cubic foot of exhaust corrected to standard conditions and averaged over three hours.

[18 AAC 50.040(j)(4), 50.055(b)(1), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(1)]

Stationary Diesel Engine PM MR&R

- 10. Diesel Engine PM Monitoring.** The Permittee shall conduct source tests on stationary diesel engines to determine the concentration of PM in the exhaust as follows:

[18 AAC 50.326(j)(4), 50.040(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(i)]

- 10.1 If the results of a Method 9 observation conducted under Condition 5.1 for any stationary diesel engine is greater than the criteria of Condition 10.2a or Condition 10.2b, the Permittee shall, within six months of that Method 9 observation, either:
 - a. take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 C.F.R. 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than the criteria of Condition 10.2; or
 - b. except as exempted in Condition 10.4, conduct a PM source test according to the requirements set out in Section 7.
- 10.2 Take corrective action or Conduct a PM source test, in accordance with Condition 10.1, if any Method 9 observation under Condition 5.1 results in an 18-minute average opacity greater than
 - a. 20 percent for an emissions unit with an exhaust stack diameter that is equal to or greater than 18 inches; or
 - b. 15 percent for an emissions unit with an exhaust stack diameter that is less than 18 inches, unless the Department has waived this requirement in writing.
- 10.3 During each one-hour PM source test run under Condition 10.1b, observe the emissions unit exhaust for 60 minutes in accordance with Method 9 and calculate the highest 18-consecutive-minute average opacity measured during each one-hour test run. Submit a copy of these observations with the source test report.
- 10.4 The PM source test requirements in Condition 10.1b are waived for an emissions unit if
 - a. A PM source test on that unit has shown compliance with the PM standard during this permit term; or
 - b. corrective action was taken to reduce visible emissions and two consecutive 18-minute Method 9 visible emissions observations (as described in Condition 5.1) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 10.2.

11. Diesel Engine PM Recordkeeping. The Permittee shall comply with the following:

- 11.1 Within 30 calendar days of startup, the Permittee shall record the exhaust stack diameters of the stationary diesel engines; and
- 11.2 Keep records of the results of any source test and visible emissions observations conducted under Condition 10.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(ii)]

12. Diesel Engine PM Reporting. The Permittee shall report as follows:

- 12.1 Notify the Department of any Method 9 observation results that are greater than the threshold of either Condition 10.2a or Condition 10.2b within 30 days of the end of the month in which the observations occurred. Include the dates, EU ID(s), and results when an observed 18-minute average opacity was greater than an applicable threshold in Condition 10.2.
- 12.2 In each operating report under Condition 89, include:
 - a. A summary of the results of any PM source test and visible emissions observations under Condition 10; and
 - b. Copies of any visible emissions observation results greater than the thresholds of Condition 10.2, if they were not already submitted.
- 12.3 report the stack diameter(s) of the stationary diesel engines in the next operating report under Condition 89 following issuance of this permit.
- 12.4 Report in accordance with Condition 88:
 - a. anytime the results of a PM source test exceed the PM emissions standard in Condition 9; or
 - b. if the requirements under Condition 10.1 were triggered and the Permittee did not comply on time with either Condition 10.1a or 10.1b. Report the deviation within 24 hours of the date compliance with Condition 10.1 was required.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(iii)]

Sulfur Compound Emissions Standard

- 13. Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from an Asphalt Plant or stationary diesel engines to exceed 500 parts per million (ppm) averaged over three hours.

[18 AAC 50.040(j)(4), 50.055(c), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(1)]

Sulfur Compound MR&R

- 14. Sulfur Compound Monitoring and Recorkeeping for Fuel Oil.** The Permittee shall monitor and keep records as follows:

- 14.1 Comply with either Condition 14.1a or Condition 14.1b:
 - a. For each shipment of fuel:
 - (i) if the fuel grade requires a sulfur content 0.5 percent by weight (wt%S_{fuel}) or less, keep receipts that specify fuel grade and amount; or
 - (ii) if the fuel grade does not require a sulfur content 0.5 wt%S_{fuel} or less, keep receipts that specify fuel grade and amount and

- (A). test the fuel for sulfur content; or
 - (B). obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent; or
- b. test the sulfur content of the fuel in each storage tank that supplies fuel to the asphalt plant or stationary diesel engines at least monthly.
- 14.2 Fuel testing under Condition 14.1a or Condition 14.1b must follow an appropriate method listed in 18 AAC 50.035(b)-(c) or 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a)(1).
- 14.3 If a shipment of fuel contains greater than 0.75 wt% S_{fuel} or if the results of a fuel sulfur content test indicate that the fuel contains greater than 0.75 wt% S_{fuel} , the Permittee shall calculate SO_2 emissions in parts per million (ppm) using either the SO_2 material balance calculation in Section 12 or Method 19 of 40 C.F.R. 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a)(3).
[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(i) & (ii)]

15. Sulfur Compound Reporting for Fuel Oil. The Permittee shall report as follows:

- 15.1 If SO_2 emissions calculated under Condition 14.3 exceed 500 ppm, the Permittee shall report in accordance with Condition 88. When reporting under this condition, include the calculation under Condition 14.3.
- 15.2 The Permittee shall include in the operating report required by condition 89 for each month covered by the report:
 - a. a list of the fuel grades received at the stationary source;
 - b. for any fuel received with a fuel sulfur content greater than 0.5 wt% S_{fuel} , the fuel sulfur content of the shipment;
 - c. the results of all fuel sulfur analyses conducted under Condition 14.1a or Condition 14.1b and documentation of the method(s) used to complete the analyses; and
 - d. for any fuel received with a sulfur content greater than 0.75 wt% S_{fuel} , the calculated SO_2 emissions in ppm calculated under Condition 14.3.
[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(iii)]

16. Sulfur Compound MR&R for Fuel Gas.

- 16.1 **Monitoring.** The Permittee shall either
 - a. obtain a semiannual statement from the fuel supplier of the fuel total sulfur level in ppm; or

- b. analyze a representative sample of the fuel semi-annually to determine the sulfur content using either ASTM D4084, D5504, D4810, D4913, D6228 or GPA Standard 2377, or other listed method approved in 18 AAC 50.035(b)-(c) or 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a)(1).
- 16.2 **Recordkeeping.** The Permittee shall keep records of the semiannual statement from the fuel supplier or the sulfur content analysis required under Conditions 16.1a or 16.1b.
- 16.3 **Reporting.** The Permittee shall report as follows:
 - a. report as excess emissions, in accordance with Condition 88, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 13.
 - b. include copies of the records required by Condition 16.2 with the operating report required by Condition 89 for the period covered by the report.

[18 AAC 50.040(j)(4) & 50.326(j)(4)]
[40 C.F.R. 71.6(a)(3) & (c)(6)]
- 17. **Sulfur Compound MR&R for North Slope Liquid Fuel.** For liquid fuel from a North Slope topping plant, the Permittee shall comply with the following:
 - 17.1 obtain from the topping plant the results of a monthly fuel sulfur analysis;
 - 17.2 include in the operating report required by condition 89, a list of the sulfur content measured for each month covered by the report; and
 - 17.3 report under condition 88, if the sulfur content for any month exceeds 0.75 wt% S_{fuel} .

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(i) - (iii)]
- 18. **Sulfur Compound MR&R for Used Oil.** The Permittee may blend used oil to combust in an asphalt plant or stationary diesel engines. However, except for emission testing purposes, the Permittee is prohibited from burning used oil fuel blends in any stationary diesel engine until the Department approves of a source test demonstrating that burning the used oil fuel blend in that engine type will comply with the particulate matter emission standard of Condition 9 and the visible emission standard of Condition 1.
 - 18.1 The Permittee shall⁵:
 - a. analyze each batch of used oil to determine the sulfur content using a Department approved ASTM method such as ASTM D129, D1266, D1522, D2622, D4045 or D4294 and maintain records showing the results of each analysis; and

⁵ CAUTION! Although this condition should ensure compliance with the applicable emission standards of 18 AAC 50, this permit does NOT ensure compliance with other applicable state or federal laws concerning management, use, or disposal of used oil.

- b. blend the used oil with fuel oil at a ratio that will ensure compliance with the sulfur limit of Condition 13. However, for diesel engines the used oil fuel blend shall be mixed at a ratio no greater than that used during the source test under Condition 18.
- 18.2 Include with the operating report required by Condition 89:
 - a. results of each analysis as set out by Condition 18.1a; and
 - b. for each batch of used oil fuel blended, the amounts of fuel oil and used oil; the blend ratio; the final sulfur content; and the blend date.
- 18.3 Report as set out by Condition 88 noncompliance with any of the requirements under Condition 18.

[18 AAC 50. 50.040(j)(4), 50.055(c), & 50.326(j)(4)]
[40 C.F.R. 71.6(a)(3) & (c)(6)]

Insignificant Emissions Units

19. For emissions units at the stationary source that are insignificant as defined in 18 AAC 50.326(d)-(i) that are not listed in this permit, the following apply:

- 19.1 **Visible Emissions Standard.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from an industrial process, fuel-burning equipment, or an incinerator to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.050(a) & 50.055(a)(1)]

- 19.2 **Particulate Matter Standard.** The Permittee shall not cause or allow particulate matter emitted from an industrial process or fuel-burning equipment to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

[18 AAC 50.055(b)(1)]

- 19.3 **Sulfur Compound Standard.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c)]

- 19.4 **General MR&R for Insignificant Emissions Units:** The Permittee shall comply with the following:

- a. Submit the compliance certifications of Condition 90 based on reasonable inquiry;
- b. Comply with the requirements of Condition 71;

- c. Report in the operating report required by Condition 89 if an emissions unit has historically been classified as insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and current actual emissions become greater than any of those thresholds; and
- d. No other monitoring, recordkeeping or reporting is required for insignificant emissions units to demonstrate compliance with the emissions standards under Conditions 19.1, 19.2, and 19.3.

Section 3. Stationary Source-Wide Requirements

- 20. Pollution Control Equipment Maintenance Plan.** The operator of the Asphalt Plant shall maintain and implement a pollution control equipment maintenance plan and keep maintenance records for a period of five years.

[18 AAC 50.055(a)(1) & (4), (b)(1) & (5), & 50.110]

[18 AAC 50.326(j)]

- 21. Pollution Control Equipment Breakdown Reporting**

[18 AAC 50.326(j)(3)]

[18 AAC 50.235(a)(2) & 50.240(c)]

- 21.1 Notify the Department within two days of a pollution-control equipment breakdown. Provide a schedule for repair of the pollution control equipment and do not operate the plant after the breakdown until repairs have been completed.
- 21.2 In the operating report required by Condition 89, provide a summary of any pollution control equipment breakdowns. The summary shall include:
- a. the equipment involved;
 - b. the date of the breakdown; and
 - c. the date the equipment was returned to service.

- 22. Relocation Reporting Requirements.** Provide notice to the Department before installing or relocating the asphalt plant (and rock crusher if applicable) by using the Relocation Notification form contained in Section 14, or by reporting all of the information it contains to the Department. Site selection must comply with Conditions 25 and 54. If the location of the asphalt plant is within one mile of the nearest occupied off-site structure, or the location of a rock crusher is within 2,000 feet of the nearest occupied off-site structure, you must attach a fugitive dust control plan (example in Section 19) as part of the relocation notification in Condition 69.2.

[18 AAC 50.010, 50.110, & 50.201]

- 22.1 **Pre-Approved Locations.** Provide notice to the Department at least 8 hours before installing or relocating the asphalt plant to a pre-approved location⁶ using Air Online Services⁷ (AOS). Provide at least 5 days' notice to the Department using any method other than Air Online Services.
- 22.2 **New-Locations.** Provide notice to the Department at least 48 hours before installing or relocating the asphalt plant to a new location using AOS. Provide at least 5 days' notice to the Department using any method other than AOS.

⁶ For the purposes of this permit, a location is considered "pre-approved" if the stationary source has previously notified the Department of the location in the past five years and the Department has not objected to asphalt or crushing operations at the site.

⁷ Air Online Services webpage: <http://dec.alaska.gov/applications/air/airtoolsweb>.

- 22.3 **Unexpected Breakdown and Repair.** If the asphalt plant requires unexpected maintenance or repair, provide notice to the Department within 24 hours of relocating the plant to its pre-approved storage location⁸. Note that relocating using this condition does not allow for production.

PSD Avoidance Limits for NOx and CO

23. **Asphalt Production Emissions Limit.** Limit CO emissions produced by the asphalt plant to no greater than 249 tons per consecutive 12-month period by following Conditions 23.1 through 23.2:

- 23.1 **Asphalt Production Limit.** Limit the asphalt produced in any consecutive 12-month period to

- a. 3,830,000 tons for a drum mix asphalt plant; or
- b. 1,245,000 tons for a batch mix asphalt plant.

- 23.2 **Asphalt Production Monitoring, Recordkeeping, and Reporting.**

- a. Monitor and record the daily and monthly total asphalt production.
- b. By the 15th of each month, add the monthly asphalt production to the previous 11 months to determine the 12 consecutive month total asphalt production for the stationary source.
- c. Report as excess emissions and permit deviation as described in Condition 88 any time the 12 consecutive month total asphalt production under Condition 23.2b exceeds the applicable limit in Conditions 23.1a or 23.1b, or anytime Conditions 23.2a or 23.2b are not met.
- d. Include in the operating report required by Condition 89, the monthly and 12 consecutive month total asphalt production for the stationary source under Conditions 23.2a and 23.2b.

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)]

24. **NOx and CO Emissions Limits.** If the asphalt plant includes one or more stationary diesel-fired engines that does not qualify as a nonroad engine under 40 C.F.R. 89.2, limit the stationary source to no greater than 249 tons of NOx and CO per consecutive 12-month period by following Conditions 24.1 through 24.2.

- 24.1 **Stationary Diesel Engine Monitoring.** Monitor and record the daily and monthly total engine hours of operation for each stationary diesel-fired engine that does not qualify as a nonroad engine under 40 C.F.R. 89.2.

⁸ For the purposes of this permit, the stationary source's "pre-approved storage location" is the location where the asphalt plant, rock crusher, and/or diesel engines are stored and/or maintenance is performed. Relocating under Condition 22.3 does not allow for production.

24.2 Stationary Diesel Engine and Asphalt Production Recordkeeping and Reporting.

By the 15th of each month, calculate the previous month's total NOx and CO emissions as follows:

a. Asphalt production emissions.

(i) Calculate and record the monthly NOx emissions using Equation 1.

Equation 1
$$NOx = AP \times EF \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$

Where:

NOx = NOx emissions (tons per month);
 AP = Asphalt production (tons per month) monitored and recorded in accordance Condition 23.2a; and
 EF = NOx emission factor (lb/ton of asphalt produced):
Batch Asphalt Mix Plant = 0.12 lb/ton, AP-42 Table 11.1-5 for No. 2 fuel oil/waste oil; or
Drum Mix Asphalt Plant = 0.055 lb/ton, AP-42 Table 11.1-7 for No. 2 fuel oil/waste oil.

(ii) Calculate and record the monthly CO emissions using Equation 2.

Equation 2
$$CO = AP \times EF \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$

Where:

CO = CO emissions (tons per month);
 AP = Asphalt production (tons per month) monitored and recorded in accordance Condition 23.2a; and
 EF = CO emission factor (lb/ton of asphalt produced):
Batch Asphalt Mix Plant = 0.40 lb/ton, AP-42 Table 11.1-5 for No. 2 fuel oil/waste oil; or
Drum Mix Asphalt Plant = 0.13 lb/ton, AP-42 Table 11.1-7 for No. 2 fuel oil/waste oil.

b. Stationary diesel-fired engine emissions.

(i) For each stationary diesel-fired engine that does not qualify as a nonroad engine under 40 C.F.R. 89.2, calculate and record the monthly NOx emissions using Equation 3.

Equation 3
$$NOx = HR \times RC \times EF \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$

Where:

NOx = NOx emissions (tons per month);
 HR = Hours of operation (hours per month) monitored and recorded in accordance Condition 24.1;
 RC = Rated capacity of the engine in horsepower (hp); and
 EF = NOx emission factor (lb/hp-hr):
Diesel Engines > 600 hp = 0.024 lb/hp-hr, AP-42 Table 3.4-1 for diesel fuel from uncontrolled engines; or
Diesel Engines ≤ 600 hp = 0.031 lb/hp-hr, AP-42 Table 3.3-1 for diesel fuel.

- (ii) For each stationary diesel-fired engine that does not qualify as a nonroad engine under 40 C.F.R. 89.2, calculate and record the monthly CO emissions using Equation 4.

$$\text{Equation 4} \quad CO = HR \times RC \times EF \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$

Where:

CO = CO emissions (tons per month);
 HR = Hours of operation (hours per month) monitored and recorded in accordance Condition 24.1;
 RC = Rated capacity of the engine in horsepower (hp); and
 EF = CO emission factor (lb/hp-hr):
Diesel Engines > 600 hp = 0.0055 lb/hp-hr, AP-42 Table 3.4-1 for diesel fuel from uncontrolled engines; or
Diesel Engines ≤ 600 hp = 0.0668 lb/hp-hr, AP-42 Table 3.3-1 for diesel fuel.

- c. By the 15th of each month, add the monthly NOx emissions calculated under Conditions 24.2a(i) and 24.2b(i) to obtain the stationary source's monthly total. Add the monthly stationary source total NOx emissions to the stationary source total for the previous 11 months to determine the 12 consecutive month total NOx emissions for the stationary source.
- d. By the 15th of each month, add the monthly CO emissions calculated under Conditions 24.2a(ii) and 24.2b(ii) to obtain the stationary source's monthly total. Add the monthly stationary source total CO emissions to the stationary source total for the previous 11 months to determine the 12 consecutive month total CO emissions for the stationary source.
- e. Report as described in Condition 88 any time the NOx emissions under Condition 24.2c or the CO emissions under Condition 24.2d exceeds 249 tons per 12 consecutive months, or anytime Conditions 24.2a through 24.2d are not met.
- f. Include in the operating report required by Condition 89
- (i) The monthly total stationary diesel-fired engine hours of operation for each emissions unit under Condition 24.1; and
- (ii) The monthly and 12 consecutive month total NOx and CO emissions for the stationary source under Conditions 24.2c and 24.2d.

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)]

Ambient Air Quality Protection

25. General Requirements. In order to protect the State ambient air quality standards and increments listed in 18 AAC 50.010 and 18 AAC 50.020, the Permittee shall:

[18 AAC 50.110, 50.201, & 50.010]

- 25.1 not operate the asphalt plant or a diesel engine used to provide electrical or mechanical power⁹ to the asphalt plant, within 330 feet of the nearest residential or other occupied structure;¹⁰
- 25.2 not operate for more than two construction seasons an asphalt plant, or a diesel engine used to provide electrical or mechanical power to the asphalt plant, that is located:
 - a. within 800 feet of the nearest residence or other occupied structure; or
 - b. within 1,100 feet of the nearest residence or other occupied structure if the residence or structure is located on terrain that is more than 50 feet above any ground level of the asphalt plant aggregate drier or drum mixer.
- 25.3 give adequate consideration to siting issues as described in the note below when operating or changing locations of a crusher permitted to operate under this permit.
- 25.4 Report as set out by Condition 88 any deviations from Conditions 25.1 through 25.3.

NOTE: The above setback distances are minimum requirements. Permittees should give adequate consideration to local siting issues which may exist within a given area. Poor siting can lead to public complaints regarding dust impacts and/or impacts from other air pollutants. The Department does investigate these types of public complaints. These investigations could result in any combination of the following:

- 1. formal enforcement with punitive damages;
- 2. a formal request under 18 AAC 50.201 that the Permittee demonstrate, by air quality dispersion modeling or other means, that the air quality impacts are not violating State air quality standards or increments; or creating a public nuisance (under 18 AAC 50.110);
- 3. the requirement to reduce emissions or implement another control strategy to reduce the ambient impact of those emissions as necessary to ensure that the concentration of air pollutants does not exceed the State air quality standards or increments; or the concerns listed in 18 AAC 50.110;
- 4. a requirement to install and operate air quality monitoring equipment;
- 5. the requirement to obtain a site specific air quality permit.

⁹ This does not include wheeled or tracked equipment powered by a diesel engine such as front end loaders.

¹⁰ For purposes of complying with Conditions 25.1 and 25.2 (and Conditions 54.1 and 54.2, if applicable), all distances shall be measured from the air emission release point, or material handling activity, that is located nearest to a residential/occupied structure to the nearest face of the residence/structure.

- 26. SO₂ Special Protection Area.** If operating in one of the Sulfur Dioxide Special Protection Areas described in 18 AAC 50.025(c) (Unalaska or St. Paul Island areas) the diesel engines may not be used for electrical power generation. The asphalt plant must operate on highline power. If the diesel engines are used for another purpose other than electrical power generation, they may not burn fuel with a sulfur content greater than 0.075 percent by weight.

26.1 Report any deviations from Condition 26, in accordance with Condition 88.

[18 AAC 50.010, 50.025, & 50.326(j)(4)]

- 27. Additional Restrictions for Bells Flats (Kodiak).** In any equipment operating at an asphalt plant in the Bells Flats area of Kodiak that burns liquid fuel, the Permittee shall:

[11 AAC 50.110]

- 27.1 burn fuel that has a sulfur content not exceeding 0.4 percent by weight;
- 27.2 monitor and record fuel sulfur content using the procedures listed in Conditions 14.1 and 14.2 except that a threshold of 0.4 instead of 0.5 percent by weight shall be used;
- 27.3 not operate more than 13 hours in a calendar day;
- 27.4 submit records of sulfur content of the fuel burned and hours of operation in the operating report required by Condition 89; and
- 27.5 Report any noncompliance with Conditions 27.1 through 27.4, in accordance with condition 88.

Section 4. Federal Emission Standards (Except NSPS 000)

NSPS Subpart A – General Provisions

- 28. NSPS Subpart A Notification.** Unless exempted by a specific subpart, for any affected facility¹¹ or existing facility¹² regulated under NSPS requirements in 40 C.F.R. 60, the Permittee shall furnish the Administrator¹³ written notification or, if acceptable to both the EPA and the Permittee, electronic notification, as follows:

[18 AAC 50.035 & 50.040(a)(1)],
[40 C.F.R. 60.7(a) & 60.15(d), Subpart A]

- 28.1 a notification of the date construction (or reconstruction as defined under 40 C.F.R. 60.15) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form;

[40 C.F.R. 60.7(a)(1), Subpart A]

- 28.2 a notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date;

[40 C.F.R. 60.7(a)(3), Subpart A]

- 28.3 a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 C.F.R. 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include:¹⁴

- a. information describing the precise nature of the change,
- b. present and proposed emission control systems,
- c. productive capacity of the facility before and after the change, and
- d. the expected completion date of the change.

[40 C.F.R. 60.7(a)(4), Subpart A]

- 28.4 a notification of the anticipated date for conducting the opacity observations required by 40 C.F.R. 60.11(e)(1). The notifications shall also include, if appropriate, a request for the EPA to provide a visible emissions reader during a performance test. The notification shall be postmarked not less than 30 days prior to such date.

[40 C.F.R. 60.7(a)(6), Subpart A]

¹¹ *Affected facility* means, with reference to a stationary source, any apparatus to which a standard applies, as defined in 40 C.F.R. 60.2.

¹² *Existing facility* means, with reference to a stationary source, any apparatus of the type for which a standard is promulgated in 40 C.F.R. Part 60, and the construction or modification of which was commenced before the date of proposal of that standard; or any apparatus which could be altered in such a way as to be of that type, as defined in 40 C.F.R. 60.2.

¹³ The Department defines the “the Administrator” to mean “the EPA and the Department.”

¹⁴ The Department and EPA may request additional relevant information subsequent to this notice.

- 28.5 a notification of any proposed replacement of an existing facility, for which the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, postmarked as soon as practicable, but no less than 60 days before commencement of replacement, and including the following information:

[40 C.F.R. 60.15(d), Subpart A]

- a. the name and address of owner or operator,
- b. the location of the existing facility,
- c. a brief description of the existing facility and the components that are to be replaced,
- d. a description of the existing and proposed air pollution control equipment,
- e. an estimate of the fixed capital cost of the replacements, and of constructing a comparable entirely new facility,
- f. the estimated life of the existing facility after the replacements, and
- g. a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

29. **NSPS Subpart A Startup, Shutdown, & Malfunction Requirements.** The Permittee shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of any EUs subject to NSPS Subparts I, OOO, or IIII, any malfunction of the air-pollution control equipment, or any periods during which a continuous monitoring system or monitoring device for these EUs is inoperative.

[18 AAC 50.040(a)(1)],
[40 C.F.R. 60.7(b), Subpart A]

30. **NSPS Subpart A Performance (Source) Tests.** The Permittee shall conduct source tests according to Section 7 and as required in this condition on any affected facility.

[18 AAC 50.040(a)(1)],
[40 C.F.R. 60.8(a) – (f), Subpart A]

- 30.1 Except as specified in 40 C.F.R. 60.8(a)(1), (a)(2), (a)(3), and (a)(4), within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, or at such other times specified by 40 C.F.R. Part 60, and at such other times as may be required by the Administrator, the Permittee shall conduct performance test(s) and furnish EPA and the Department a written report of the results of such performance test(s).

[40 C.F.R. 60.8(a), Subpart A]

- 30.2 Conduct source tests and reduce data as set out in 40 C.F.R. 60.8(b), and provide the Department copies of any EPA waivers or approvals of alternative methods.

[40 C.F.R. 60.8(b), Subpart A]

- 30.3 Conduct source tests under conditions specified by EPA to be based on representative performance of the asphalt plant and rock crushing devices.
[40 C.F.R. 60.8(c), Subpart A]
- 30.4 Provide the EPA and the Department at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the EPA and the Department the opportunity to have an observer present.
[40 C.F.R. 60.8(d), Subpart A]
- 30.5 Provide adequate sampling ports, safe sampling platform(s), safe access to sampling platform(s), and utilities for sampling and testing equipment.
[40 C.F.R. 60.8(e), Subpart A]
- 30.6 Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method.
[40 C.F.R. 60.8(f), Subpart A]

- 31. NSPS Subpart A Good Air Pollution Control Practice.** At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any EUs subject to NSPS Subparts I or OOO including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The Administrator will determine whether acceptable operating and maintenance procedures are being used based on information available, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance records, and inspections of those units.
[18 AAC 50.040(a)(1)]
[40 C.F.R. 60.11(d), Subpart A]
- 32. NSPS Subpart A Concealment of Emissions.** The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in Conditions 34, 38, and 52. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere.
[18 AAC 50.040(a)(1)]
[40 C.F.R. 60.12, Subpart A]

NSPS Subpart I - Hot Mix Asphalt Facilities

- 33. NSPS Subpart I Applicability.** The Permittee shall comply with the following standards for asphalt plants subject to NSPS Subpart I:
[18 AAC 50.040(a)(2)(I) & (j)(4), 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 60.090(a) & (b), Subpart I]

- 33.1 The affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.
- 33.2 Any facility under Condition 33.1 that commences construction or modification after June 11, 1973, is subject to the requirements of Conditions 34 through 35.
- 34. NSPS Subpart I Particulate Matter Standard.** The Permittee shall comply with the following:
- [18 AAC 50.040(j)(4) & 50.326(j)],
[40 C.F.R. 60.092(a), Subpart I]
- 34.1 The Permittee shall not discharge into the atmosphere any gases that contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf).
- 34.2 The Permittee shall not discharge into the atmosphere any gases that exhibit 20 percent opacity or greater.
- 35. NSPS Subpart I Performance Test.** If the Permittee's asphalt plant is required to perform performance tests under Condition 30; conduct the performance test(s) in accordance with Section 7 and comply with the following:
- [18 AAC 50.040(j)(4) & 50.326(j)]
- 35.1 In conducting the performance tests required under Condition 30, the Permittee shall use as reference methods and procedures the test methods in Appendix A of 40 C.F.R. 60 or other methods and procedures as specified in this Condition 35.2, except as provided in 40 C.F.R. 60.8(b).
- [40 C.F.R. 60.093(a), Subpart I]
- 35.2 The Permittee shall determine compliance with the particulate matter standards in Conditions 34.1 and 34.2 as follows:
- a. Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).
 - b. Method 9 and the procedures in 40 C.F.R. 60.11 shall be used to determine opacity.
 - c. The initial opacity (visible emission) performance test must be at least 3 hours (30 six-minute averages) during periods of operation. The opacity standard applies at all times except for startup, shutdown and malfunction.
- [40 C.F.R. 60.093(b), Subpart I]
[40 C.F.R. 60.11(b) and (c), Subpart A]

35.3 Reporting:

- a. Report in accordance with Condition 88 if a test result exceeds the emissions standards in Conditions 34.1 or 34.2, or if the requirements of Condition 35 are not met.
- b. Include the results of any performance tests conducted to demonstrate compliance with the standards in Conditions 34.1 or 34.2 in the operating report under Condition 89.

[18 AAC 50.040(j) & 50.326(j)(4)]
[40 C.F.R. 71.6(a)(3)(iii) & (c)(6)]

NSPS Subpart IIII – Stationary Compression Ignition Internal Combustion Engines (CI ICE)

36. NSPS Subpart IIII Requirements. The Permittee shall comply with all applicable requirements in Conditions 36 through 40 for stationary compression ignition (CI) internal combustion engine (ICE) whose construction¹⁵, modification¹⁶, or reconstruction¹⁷ commences after July 11, 2005.

- 36.1 Operate and maintain the stationary CI ICE and control device according to the manufacturer's written instructions over the entire life of the engine. In addition, the Permittee may only change those settings that are permitted by the manufacturer.

[18 AAC 50.040(a)(2)(OO), 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 60.4200(a), 60.4206, & 60.4211(a), Subpart IIII]

- 36.2 Comply with the applicable provisions of Subpart A as specified in Table 8 to Subpart IIII.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 60.4218 & Table 8, Subpart IIII]

- 36.3 For engines other than fire pump engines, manufactured in previous model years, the Permittee shall comply with 40 C.F.R. 60.4208(a) through (g) and (i).

[40 C.F.R. 60.4208, Subpart IIII]

¹⁵ For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

¹⁶ As defined in 18 AAC 50.990(59).

¹⁷ As defined in 18 AAC 50.990(88).

- 36.4 If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in 40 C.F.R. 60.4211(f)(1) through (3). In order for the engine to be considered an emergency stationary ICE under NSPS Subpart IIII, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation, nonemergency situations for 50 hours per year, as described in 40 C.F.R. 60.4211(f)(1) through (3), is prohibited. If you do not operate the engine according to the requirements in 40 C.F.R. 60.4211(f)(1) through (3), the engine will not be considered an emergency engine under NSPS Subpart IIII and must meet all requirements for non-emergency engines.

[40 C.F.R. 60.4211(f), Subpart IIII]

- 36.5 **Notification.** For non-emergency stationary CI ICE that are greater than 2,237 kW (3,000 hp) or have a displacement of greater than or equal to 10 liters per cylinder or are pre-2007 model year engines that are greater than 130 kW (175 hp) and not certified engines, the Permittee must meet the following requirements:

- a. Submit an initial notification as required in Condition 28.1. The notification shall include the information in Conditions 36.5a(i) through 36.5a(v):
 - (i) Name and address of the owner or operator;
 - (ii) The address of the affected source;
 - (iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
 - (iv) Emission control equipment; and
 - (v) Fuel used.

[40 C.F.R. 60.4214(a)(1), Subpart IIII]

- b. If the stationary CI ICE is an emergency stationary ICE, the Permittee is not required to submit an initial notification.

[40 C.F.R. 60.4214(b), Subpart IIII]

- 36.6 **Performance Tests.** The Permittee shall conduct performance tests in accordance with 40 C.F.R. 60.4212 for stationary CI ICE with a displacement of less than 30 liters per cylinder; or 40 C.F.R. 60.4213 for stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder.

[40 C.F.R. 60.4212 & 60.4213, Subpart IIII]

37. NSPS Subpart IIII Fuel Requirements. The Permittee shall comply with the following:

- 37.1 Beginning October 1, 2010, for CI ICE with a displacement of less than 30 liters per cylinder that use diesel fuel, use diesel fuel that meets the requirements of ULSD under 40 C.F.R. 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

- 37.2 Condition 37.1 does not apply to owners and operators of pre-2014 model year stationary CI ICE that are located in remote areas of Alaska.¹⁸
- 37.3 Condition 37.1 does not prevent owners and operators of stationary CI ICE that are located in remote areas of Alaska¹⁸ from using fuels mixed with used lubricating oil, in volumes of up to 1.75 percent of the total fuel. The sulfur content of the used lubricating oil must be less than 200 parts per million. The used lubricating oil must meet the on-specification levels and properties for used oil in 40 C.F.R. 279.11.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 60.4207(b) & 60.4216(d) & (f), Subpart III]
[40 C.F.R. 80.510(b)]

- 38. NSPS Subpart III Emission Standards.** The Permittee shall comply with the applicable emission standards for the affected facility, as listed below.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 60.4200(a)(2)(i), Subpart III]

For Non-Emergency Engines

- 38.1 For pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder, the Permittee shall comply with the emission standards in Table 1 to NSPS Subpart III.
- 38.2 For pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder, the Permittee shall comply with the NO_x standards in 40 C.F.R. Part 1042, Appendix I, as follows:
- a. 17.0 g/kW-hr when maximum test speed is less than 130 rpm, or
 - b. $45.0 \times N^{-0.20}$ when maximum test speed is at least 130 rpm but less than 2,000 rpm, where N is the maximum test speed of the engine in revolutions per minute¹⁹, or
 - c. 9.8 g/kW-hr when maximum test speed is 2,000 rpm or more.

[40 C.F.R. 60.4204(a), Subpart III]
[40 C.F.R. Part 1042, Appendix I]

- 38.3 For 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder, the Permittee must comply with the emission standards in 40 C.F.R. 60.4201(a) through (f), as applicable, for all pollutants, for the same displacement and maximum engine power.

[40 C.F.R. 60.4204(b) & 4201(a) - (f), Subpart III]

For Emergency Engines

¹⁸ Remote areas of Alaska is defined in 40 C.F.R. 60.4219.

¹⁹ Round speed-dependent standards to the nearest 0.1 g/kW-hr.

- 38.4 For pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines, the Permittee shall comply with the emission standards in Table 1 to NSPS Subpart IIII.

[40 C.F.R. 60.4205(a) & Table 1, Subpart IIII]

- 38.5 For pre-2007 model year emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines, the Permittee shall comply with the NO_x standards in 40 C.F.R. Part 1042, Appendix I, as follows:

- a. 17.0 g/kW-hr when maximum test speed is less than 130 rpm, or
- b. $45.0 \times N^{-0.20}$ when maximum test speed is at least 130 rpm but less than 2,000 rpm, where N is the maximum test speed of the engine in revolutions per minute¹⁹, or
- c. 9.8 g/kW-hr when maximum test speed is 2,000 rpm or more.

[40 C.F.R. 60.4205(a), Subpart IIII]

[40 C.F.R. Part 1042, Appendix I]

- 38.6 For 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines, the Permittee must comply with the emission standards in 40 C.F.R. 60.4202(a) through (g), as applicable, for all pollutants, for the same displacement and maximum engine power.

[40 C.F.R. 60.4205(b) & 4202(a) - (g), Subpart IIII]

For Fire Pump Engines

- 38.7 For fire pump engines with a displacement of less than 30 liters per cylinder, the Permittee shall comply with the emission standards in Table 4 to NSPS Subpart IIII for all pollutants.

[40 C.F.R. 60.4205(c) & Table 4, Subpart IIII]

For Engines in Remote Areas of Alaska

- 38.8 Except as indicated in Condition 38.10, stationary CI ICE with a displacement of less than 10 liters per cylinder located in remote areas of Alaska¹⁸ may meet the requirements of NSPS Subpart IIII by manufacturing and installing engines meeting the Tier 2 or Tier 3 emission standards described in 40 C.F.R. part 1042 for the same model year, displacement, and maximum engine power, as appropriate, rather than the otherwise applicable requirements of 40 C.F.R. part 1039, as indicated in 40 C.F.R. 60.4201(f) and 60.4202(g).

- 38.9 Stationary CI ICE that are located in remote areas of Alaska¹⁸ may choose to meet the applicable emission standards for emergency engines in 40 C.F.R. 60.4202 and 60.4205, and not those for non-emergency engines in 40 C.F.R. 60.4201 and 60.4204, except that for 2014 model year and later non-emergency CI ICE, the owner or operator of any such engine must have that engine certified as meeting at least the Tier 3 PM standards identified in Appendix I of 40 C.F.R. Part 1039 or in 40 C.F.R. 1042.101.

[40 C.F.R. 60.4216(b) & (c), Subpart IIII]

For CI ICE Using Special Fuels

- 38.10 For engines that do not use diesel fuel, the Permittee may petition the Administrator for approval of alternative emission standards, if the Permittee can demonstrate that the fuel used in the affected facility is not the fuel on which the manufacturer of the engine certified the engine and that engine cannot meet the applicable standards required in 40 C.F.R. 60.4204 or 40 C.F.R. 60.4205 using such fuels and that use of such fuel is appropriate and reasonably necessary, considering cost, energy, technical feasibility, human health and environmental, and other factors, for the operation of the engine.

[40 C.F.R. 60.4217, Subpart IIII]

- 39. NSPS Subpart IIII Monitoring and Recordkeeping.** The Permittee shall meet the monitoring and recordkeeping requirements, as follows:

[18 AAC 50.040(j)(4) & 50.326(j)]

[40 C.F.R. 71.6(a)(3)(i & ii)]

[40 C.F.R. 60.4209(a) & (b), Subpart IIII]

- 39.1 For emergency stationary CI ICE that do not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.
- a. Starting with the model years in Table 5 to NSPS Subpart IIII, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year,
- (i) keep records of the time of operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter, and
- (ii) the reason the engine was in operation during that time.

[40 C.F.R. 60.4209(a) & 60.4214(b), Subpart IIII]

- 39.2 For stationary CI ICE equipped with a diesel particulate filter to comply with the emission standards of 40 C.F.R. 60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

- a. Keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

[40 C.F.R. 60.4209(b) & 60.4214(c), Subpart IIII]

39.3 If you are an owner or operator of a pre-2007 model year stationary CI ICE and must comply with emission standards specified in Conditions 38.1, 38.2, 38.4, or 38.5, or if you are an owner or operator of a CI fire pump engine that is manufactured in the years prior to the model years in Table 3 to NSPS Subpart IIII and must comply with the emission standards specified in Condition 38.7, you must demonstrate compliance according to one of the methods specified in Conditions 39.3a through 39.3e.

- a. Purchasing an engine certified to emission standards for the same model year and maximum engine power as described in 40 C.F.R. parts 1039 and 1042, as applicable. The engine must be installed and configured according to the manufacturer's specifications.
- b. Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified Section 7 and these methods must have been followed correctly.
- c. Keeping records of engine manufacturer data indicating compliance with the standards.
- d. Keeping records of control device vendor data indicating compliance with the standards.
- e. Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 C.F.R. 60.4212, as applicable.

[40 C.F.R. 60.4211(b), Subpart IIII]

39.4 If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in Conditions 38.3 or 38.6, or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in Table 3 to NSPS subpart IIII and must comply with the emission standards specified in Condition 38.7, you must comply by purchasing an engine certified to the emission standards in Conditions 38.3, or 38.6, or 38.7, as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power.

[40 C.F.R. 60.4211(c), Subpart IIII]

- 39.5 If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance in accordance with 40 C.F.R. 60.4211(g)(1) through (3).

[40 C.F.R. 60.4211(g), Subpart III]

- 39.6 For non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, keep records of the information in Conditions 39.6a through 39.6d:

- a. All notifications required in Condition 36.3 and all documentation supporting any notification;
- b. Maintenance conducted on the engine;
- c. If the stationary CI ICE is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards; and
- d. If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

[40 C.F.R. 60.4211(a)(2), Subpart III]

40. NSPS Subpart III Reporting. The Permittee shall report according to Conditions 40.1 and 40.2:

- 40.1 In the operating report required by Condition 89, report the following:
- a. The results of any performance tests conducted under Condition 36.6;
 - b. Records to demonstrate compliance with the fuel requirements in Condition 37;
 - c. Upon initial startup, provide a copy of the records required in Conditions 39.6c or 39.6d in the next operating report;
 - d. The method of compliance used to demonstrate compliance with Condition 39.3; and
 - e. The records required by Conditions 39.1 through 39.3.
- 40.2 Report in accordance with Condition 88 if any of the requirements in Conditions 36 through 40 are not met.

[18 AAC 50.040 (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(iii) & (c)(6)]

NESHAP Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines (RICE)

- 41. NESHAP Subpart ZZZZ Requirements.** The Permittee shall comply with all applicable requirements in Conditions 41 through 49 and 40 C.F.R. 63 NESHAP Subpart ZZZZ for stationary reciprocating internal combustion engines (RICE) located at an area source of hazardous pollutant (HAP) emissions.

[18 AAC 50.040(c)(23) & (j)(4); 18 AAC 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 63.6585 & 63.6590, Subpart ZZZZ]

- 42.** For an affected source that is a new or a reconstructed stationary reciprocating internal combustion engine (RICE) located at an area source, the Permittee must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 C.F.R. 60 Subpart IIII in Conditions 36 through 40 for compression ignition engines. No further requirements apply for such engines under NESHAP Subpart ZZZZ.

[18 AAC 50.040(c)(23), (j)(4), & 18 AAC 50.326(j)]
[40 C.F.R. 63.6590(c), Subpart ZZZZ]

- 43. NESHAP Subpart ZZZZ Work and Management Practices.** If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to 40 C.F.R. 63, Subpart ZZZZ and the operating limitations in Table 2b to 40 C.F.R. 63, Subpart ZZZZ that apply to you.

[18 AAC 50.040(c)(23) & (j); 18 AAC 50.326(j)]
[40 C.F.R. 71.6(a)(3)(i)]
[40 C.F.R. 6603(a)]

- 43.1 Management Practices for Stationary Non-Emergency CI RICE $\leq$ 300 hp.** The Permittee shall comply with the following management practices:

- a. Change oil and filter every 1,000 hours of operation, or annually, whichever comes first; except as allowed by Condition 43.6;
- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[40 C.F.R. 63.6603(a) & Table 2d Item 1, Subpart ZZZZ]

- 43.2 Management Practices for Non-Emergency Stationary CI RICE $300 < \text{hp} \leq 500 \text{ hp}$.** The Permittee shall comply with the following:

- a. Limit the concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent oxygen; or reduce CO emissions by 70 percent or more.
- b. Conduct performance tests to demonstrate compliance with Condition 43.2a according to 40 C.F.R. 63.6620, Tables 3, 4, and 5 of NESHAP Subpart ZZZZ, and Section 7 of this permit.

- c. EUs located in an area of Alaska that is not accessible by the Federal Aid Highway System (FAHS)²⁰ do not have to comply with Condition 43.2a. Instead, these EUs must meet the management practices in Condition 43.1.

[40 C.F.R. 63.6603(a) & (b), 63.6612, 63.6615, 63.6620, & Table 2d Item 2, Subpart ZZZZ]

43.3 Management Practices for Non-Emergency Stationary CI RICE > 500 hp: The Permittee shall comply with the following:

- a. Limit the concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent oxygen; or reduce CO emissions by 70 percent or more.
- b. Conduct performance tests to demonstrate compliance with Condition 43.3a according to 40 C.F.R. 63.6620, Tables 3, 4, and 5 of NESHAP Subpart ZZZZ, and Section 7 of this permit.
- c. EUs located in an area of Alaska that is not accessible by the FAHS²⁰ do not have to comply with Condition 43.3a. Instead, these EUs must meet the management practices in Condition 43.1.

[40 C.F.R. 63.6603(a) & (b), 63.6612, 63.6615, 63.6620, & Table 2d Item 3, Subpart ZZZZ]

43.4 Management Practices for Emergency²¹ Stationary CI RICE. The Permittee shall comply with the following management practices:

- a. Change oil and filter every 500 hours of operation, or annually, whichever comes first; except as allowed by Condition 43.6;
- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[40 C.F.R. 63.6603(a) & Table 2d Item 4, Subpart ZZZZ]

43.5 During periods of startup, minimize the engine's time spent at idle during startup and minimize the engine's start up time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[40 C.F.R. 63.6603(a), 63.6625(h), & Table 2d Column 3, Subpart ZZZZ]

²⁰ Note that the FAHS includes connections through the Alaska Marine Highway System.

²¹ If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required under Condition 43.4, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable. [40 C.F. R. 63, Footnote 2 to Table 2d, Subpart ZZZZ]

- 43.6 The Permittee has the option to utilize an oil analysis program in order to extend the specified oil change requirements in Conditions 43.1a and 43.4a, as described below:
- a. The oil analysis must be performed at the same frequency specified for changing the oil in Condition 43.1a.
 - b. The analysis program must, at a minimum, analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows:
 - (i) Total Base Number is less than 30 percent of the Total Base Number of the oil when new;
 - (ii) viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or
 - (iii) percent water content (by volume) is greater than 0.5.
 - c. If all of the condemning limits in Conditions 43.6b(i) through 43.6b(iii) are not exceeded, the Permittee is not required to change the oil.
 - d. If any of the limits in Conditions 43.6b(i) through 43.6b(iii) are exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis.
 - (i) If the engine is not in operation when the results of the analysis are received, the Permittee must change the oil within 2 business days or before commencing operation, whichever is later.
 - e. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[40 C.F.R. 63.6625(i) & Table 2d Footnote 1, Subpart ZZZZ]

44. Fuel Requirements. The Permittee shall comply with the following:

- 44.1 For non-emergency, non-black start CI stationary engines with a rating of more than 300 brake horsepower with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements of ULSD under 40 C.F.R. 1090.305 for nonroad fuel.
- 44.2 Condition 44.1 does not apply to sources that are located in an area of Alaska that is not accessible by the Federal Aid Highway System (FAHS).²⁰

[18 AAC 50.040(c)(23), (j)(4) & 50.326(j)]

[40 C.F.R. 71.6(a)(1) & (3)(i)]

[40 C.F.R. 1090.305]

[40 C.F.R. 6604(a) & (d), Subpart ZZZZ]

45. NESHAP Subpart ZZZZ General Requirements. The Permittee shall comply with the applicable requirements for RICE located at an area source of HAPs as follows:

[18 AAC 50.040(c)(23), (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (a)(3)(i)]

- 45.1 You must be in compliance with the operational limitations, and other requirements in NESHAP Subpart ZZZZ that apply to you at all times.
[40 C.F.R. 63.6605(a), Subpart ZZZZ]
- 45.2 At all times, operate and maintain any affected source, including any associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but not limited to monitoring results, review of operation, maintenance procedures and records, and inspection of the source.
[40 C.F.R. 63.6605(b), Subpart ZZZZ]
- 45.3 For any existing emergency stationary RICE or existing non-emergency stationary CI RICE ≤ 300 hp, the permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
[40 C.F.R. 63.6625(e)(3) & (4), Subpart ZZZZ]
- 45.4 For any existing emergency stationary RICE, you must install a non-resettable hour meter if one is not already installed.
[40 C.F.R. 63.6625(f), Subpart ZZZZ]
- 45.5 For any existing non-emergency stationary CI engine ≥ 300 hp that are not equipped with a closed crankcase ventilation system, you must comply with either Condition 45.5a or 45.5b. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources that are not accessible by the FAHS²⁰ do not have to meet the requirements of this Condition.
- a. Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or
 - b. Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.

[40 C.F.R. 63.6625(g), Subpart ZZZZ]

- 45.6 The Permittee shall comply with the applicable requirements of 40 C.F.R. 63 Subpart A with the provisions for the applicability of Subpart A in Table 8 to Subpart ZZZZ.

[40 C.F.R. 63.6665, Subpart ZZZZ]

- 46. Operating Hour Limits for Emergency Engines.** For any emergency stationary RICE, the Permittee shall operate the emergency stationary RICE according to the requirements in Conditions 46.1 through 46.3. In order for the engine to be considered an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in Conditions 46.1 through 46.3.c, is prohibited. If you do not operate the engine according to the requirements in Conditions 46.1 through 46.3, the engine will not be considered an emergency engine and must meet all requirements for non-emergency engines.

[18 AAC 50.040(c)(23)]

[40 C.F.R. 63.6640(f), NSPS Subpart ZZZZ]

- 46.1 There is no time limit on the use of emergency stationary RICE in emergency situations.

[40 C.F.R. 63.6640(f)(1), NSPS Subpart ZZZZ]

- 46.2 The Permittee may operate emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of these units is limited to 100 hours per calendar year. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

[40 C.F.R. 63.6640(f)(2), NSPS Subpart ZZZZ]

- 46.3 The Permittee may operate the emergency stationary RICE up to 50 hours per calendar year in non-emergency situations, but those 50 hours are counted towards the 100 hours per calendar year provided for maintenance and testing under Condition 46.2. The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 C.F.R. 63.6640(f)(4), NSPS Subpart ZZZZ]

- 47. NESHAP Subpart ZZZZ Monitoring Requirements.** The Permittee shall monitor as follows:

[18 AAC 50.040(c)(23), (j)(4) & 50.326(j)]

[40 C.F.R. 71.6(a)(1) & (a)(3)(i)]

- 47.1 **Continuous Compliance.** The Permittee must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Condition 43 according to methods specified in Conditions 47.1a and 47.1b.

[40 C.F.R. 63.6640(a), Subpart ZZZZ]

- a. For existing emergency stationary CI RICE and existing non-emergency stationary RICE ≤ 300 hp:
 - (i) Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
 - (ii) Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 C.F.R. 63 Subpart ZZZZ Table 6, Item 9]
- b. For existing stationary CI RICE >500 HP that are not limited use²² stationary RICE and not exempt under Condition 43.3c who reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust **using** an oxidation catalyst.
 - (i) Conduct performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit;
 - (ii) Collect the catalyst inlet temperature data according to 40 C.F.R. 63.6625(b);
 - (iii) Reduce these data to 4-hour rolling averages;
 - (iv) Maintain the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
 - (v) Measure the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

[40 C.F.R. 63 Subpart ZZZZ Table 6, Item 10]
- c. For existing stationary CI RICE >500 HP that are not limited use²² stationary RICE and not exempt under Condition 43.3c who reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust **not using** an oxidation catalyst.

²² Limited Use under 40 C.F.R. 63.6675 means, a stationary RICE that operates less than 100 hours per year.

- (i) Conduct performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit;
 - (ii) Collect the approved operating parameter (if any) data according to 40 C.F.R. 63.6625(b);
 - (iii) Reduce these data to 4-hour rolling averages; and
 - (iv) Maintain the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.

[40 C.F.R. 63 Subpart ZZZZ Table 6, Item 11]
- d. For existing limited use²² stationary CI RICE >500 HP that are not exempt under Condition 43.3c who reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust **using** an oxidation catalyst.
 - (i) Conduct performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit;
 - (ii) Collect catalyst inlet temperature data according to 40 C.F.R. 63.6625(b);
 - (iii) Reduce these data to 4-hour rolling averages;
 - (iv) Maintain the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
 - (v) Measure the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

[40 C.F.R. 63 Subpart ZZZZ Table 6, Item 12]
- e. For existing limited use²² stationary CI RICE >500 HP that are not exempt under Condition 43.3c who reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust **not using** an oxidation catalyst.
 - (i) Conduct performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit;
 - (ii) Collect the approved operating parameter (if any) data according to 40 C.F.R. 63.6625(b);

- (iii) Reduce these data to 4-hour rolling averages; and
- (iv) Maintain the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.

[40 C.F.R. 63 Subpart ZZZZ Table 6, Item 13]

48. NESHAP Subpart ZZZZ Recordkeeping Requirements. The Permittee shall keep records as follows:

[18 AAC 50.040(c)(23) & (j)(4) and 50.326(j)]
[40 C.F.R. 71.6(a) (3)(ii)]

- 48.1 Keep records of the maintenance conducted on the stationary RICE, to demonstrate that the Permittee operated and maintained the stationary RICE and after-treatment control device (if any) according to its own maintenance plan, including, but not limited to, the parameters analyzed, the results of the oil analysis, and the oil changes for the engine as part of the oil analysis program described in Condition 43.6.

[40 C.F.R. 63.6655(e), (e)(2), & (e)(3), Subpart ZZZZ]

- 48.2 If the Permittee must comply with emission and operating limitations in Conditions 43 through 47, keep records as follows:

- a. Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
- b. Records of performance tests and performance evaluations as required in 40 C.F.R. 63.10(b)(2)(viii).
- c. Records of all required maintenance performed on the air pollution control and monitoring equipment.
- d. Records of actions taken during periods of malfunction to minimize emissions in accordance with Condition 45.2, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- e. For each CEMS or CPMS, the Permittee must keep:
 - (i) Records described in 40 C.F.R. 63.10(b)(2)(vi) through (xi).
 - (ii) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in 40 C.F.R. 63.8(d)(3).
 - (iii) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.

[40 C.F.R. 63.6655(a) & (b), Subpart ZZZZ]

- 48.3 The Permittee must keep the records required in Table 6 of NESHAP Subpart ZZZZ to show continuous compliance with each emission or operating limitation in Condition 47 that applies to the Permittee.

[40 C.F.R. 63.6655(d), Subpart ZZZZ]

- 48.4 For any EUs required to comply with Condition 46, keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

[40 C.F.R. 63.6655(f), Subpart ZZZZ]

- 48.5 If required to comply with the ULSD requirement in Condition 44.1, keep records to demonstrate compliance.

[18 AAC 50.040(j)(4) and 50.326(j)]
[40 C.F.R. 71.6(a) (3)(ii)]

- 48.6 Keep records in a form suitable and readily available for expeditious review according to 40 C.F.R. 63.10(b)(1). Keep each record in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record.

[40 C.F.R. 63.6660, 63.6665, and Table 8, Subpart ZZZZ]
[40 C.F.R. 63.10(b)(1), Subpart A]

49. NESHAP Subpart ZZZZ Reporting Requirements. The Permittee shall report as follows:

- 49.1 Include in the operating report required by Condition 89,

- a. a report of Subpart ZZZZ deviations as defined in 40 C.F.R. 63.6675 and of each instance in which an applicable requirement in 40 C.F.R. 63, Subpart A (Table 8 of Subpart ZZZZ) was not met; and

[40 C.F.R. 63.6640(e), 63.6650(f), Subpart ZZZZ]

- 49.2 Notify the Department in accordance with Condition 88 if any of the requirements in Conditions 41 through 49 were not met.

[18 AAC 50.040(j)(4) and 18 AAC 50.326(j)(4)]
[40 C.F.R. 71.6(a)(3)(iii) & (c)(6)]

40 C.F.R. Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP)

Subpart A – General Provisions & Subpart M - Asbestos

- 50.** The Permittee shall comply with the applicable requirements set forth in 40 C.F.R. 61.145, 61.150, and 61.152 of Subpart M, and the applicable sections set forth in 40 C.F.R. 61, Subpart A and Appendix A.

[18 AAC 50.040(b)(1) & (2)(F) & 50.326(j)]
[40 C.F.R. 61, Subparts A & M and Appendix A]

C.F.R. Part 82 Protection of Stratospheric Ozone

- 51. Subpart F – Recycling and Emissions Reduction.** The Permittee shall comply with the applicable standards for recycling and emission reduction of refrigerants set forth in 40 C.F.R. 82, Subpart F.

[18 AAC 50.040(d) & 50.326(j)]
[40 C.F.R. 82, Subpart F]

Section 5. Operation of Nonmetallic Mineral Rock Crushers and Ancillary Equipment

This General Permit allows the Permittee to operate rock crushers and their associated ancillary equipment listed in the Permittee's permit application including grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations and storage bins. If a rock crusher or the ancillary equipment was not listed in the permit application, the Permittee shall submit an amendment to the permit application to include the physical characteristics of the rock crusher and/or the ancillary equipment before commencing operations of such equipment.

52. Visible Emissions and Particulate Matter Standards.

[18 AAC 50.055(a) and (b)]

- 52.1 The Permittee shall not cause or allow visible emissions from rock crushers, grinding mills, screening operations, bagging operations and storage bins, excluding condensed water vapor, to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.
- 52.2 The Permittee shall not cause or allow particulate matter emitted from rock crushers, grinding mills, screening operations, bagging operations and storage bins to exceed 0.05 grains per cubic foot of exhaust corrected to standard conditions and averaged over three hours.

53. Visible Emissions Monitoring, Recordkeeping and Reporting.

[18 AAC 50.040(j)(4), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)]

- 53.1 The Permittee shall observe visible emissions from rock crushers, grinding mills, screening operations, bagging operations and storage bins in accordance with 40 C.F.R. 60, Appendix A, Method 9 for a minimum of 18 consecutive minutes to obtain 72 consecutive 15-second opacity observations as follows:
 - a. Identify the emission points capable of producing fugitive emissions. Determine which point has the highest continuous opacity and use this point for monitoring.
 - b. Observe fugitive dust with Method 9 at the emission point identified above when the equipment being monitored (e.g. rock crusher) is operating at loads typical of normal operation:
 - (i) within two days of startup at the beginning of the operating season or after relocation; and
 - (ii) within the first two days of production during each calendar month of operation.
- 53.2 For all Method 9 observations,
 - a. the observer shall record:

- (i) the name of the stationary source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emissions Observation Form in Section 11;
 - (ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating rate (production rate of the rock crusher or best estimate, if unknown) on the sheet at the time opacity observations are initiated and completed;
 - (iii) the presence or absence of an attached or detached plume and the approximate distance from the emissions outlet to the point in the plume at which the observations are made;
 - (iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emissions Observation Form in Section 11; and
 - (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
 - b. To determine the six-minute average opacity,
 - (i) divide the observations recorded on the record sheet into sets of 24 consecutive observations;
 - (ii) sets need not be consecutive in time and in no case shall two sets overlap;
 - (iii) for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; and
 - (iv) record the average opacity on the sheet.
 - c. Calculate and record the highest six- and 18-consecutive-minute average opacities observed.
 - d. The records required by Condition 53.2 may be kept in electronic format.
- 53.3 The Permittee shall report visible emissions in each operating report required in Condition 89 as follows:
- a. the emissions point with the highest continuous opacity identified in Condition 53.1a and monitored under 53.1b;
 - b. copies of the observation results (i.e. opacity observations) for each emissions unit except for the observations the Permittee has already supplied to the Department;
 - c. a summary to include:

- (i) number of days observations were made;
 - (ii) highest six- and 18-consecutive-minute average opacities observed; and
 - (iii) dates when one or more observed six-consecutive-minute average opacities were greater than 20 percent.
- d. a summary of any monitoring or recordkeeping required under Condition 53 that was not done.

53.4 Report under Condition 88;

- a. the results of Method 9 observations that exceed 20 percent average opacity for any six-consecutive-minute period; and
- b. If any monitoring under Condition 53 was not performed when required, report within three days of the date that the monitoring was required.

54. Ambient Air Quality Protection, General Requirements. In order to protect the State ambient air quality standards and increments listed in 18 AAC 50.010 and 18 AAC 50.020, the Permittee shall:

[18 AAC 50.010, 18 AAC 50.110, & 50.201]

- 54.1 not operate the rock crusher or a diesel engine used to provide electrical or mechanical power²³ to the rock crusher, within 400 feet of the nearest residential structure;²⁴
- 54.2 not operate for more than two construction seasons a rock crusher, or a diesel engine used to provide electrical or mechanical power to the rock crusher, that is located within 1,000 feet of the nearest residence or other occupied structure; and
- 54.3 give adequate consideration to siting issues as described in the note under Condition 25.3 when operating or changing locations of a crusher permitted to operate under this permit.

[18 AAC 50.040(j)(3), 18 AAC 50.326(j)(1), & 50.346(b)(1)]
[18 AAC 50.410 and 18 AAC 50.420]
[40 C.F.R. 71.5(c)(3)(ii)]

55. Public Access Control Plan (Access Plan). Establish and maintain the ambient air boundaries as follows:

[18 AAC 50.010]

- 55.1 Comply with the provisions contained in Section 20: Public Access Control Plan, or a subsequent written version approved by the Department that contains at least the following elements:

²³ This does not include wheeled or tracked equipment powered by a diesel engine such as front end loaders.

²⁴ For purposes of complying with Conditions 54.1 and 54.2 (and Conditions 25.1 and 25.2), all distances shall be measured from the air emission release point, or material handling activity, that is located nearest to a residential/occupied structure to the nearest face of the residence/structure.

- a. a topographic map (or maps) that clearly shows the rock crusher and the surrounding 20-mile radius, including road-ways and any permit-related stationary source/areas;
 - b. boundaries that are consistent with the applicable landowner's authorization to preclude public access from the area within the boundaries;
 - c. defined methods of establishing and maintaining the boundary, such as physical barriers, surveillance and the posting of strategically located warning signs (provide size, wording, and inspection/repair schedule);
 - d. the date of the Access Plan; and
 - e. the procedure for approaching members of the public who have crossed the ambient air boundary.
- 55.2 Post and maintain all warning signs described in the approved Access Plan as follows:
- a. use a font, font size and contrast coloring that makes all lettering easy to read;
 - b. inspect and repair the signs according to the schedule described in the Access Plan; and
 - c. keep all signs free of nearby visible obstructions.
- 55.3 Maintain a hard copy of the approved Access Plan for public review at the Permittee's office. Additionally, the Permittee is encouraged to keep an electronic copy publicly available on the internet.
- 55.4 If the Permittee detects indications of unauthorized persons within the ambient air boundary such as foot or vehicle tracks, the Permittee shall investigate and take action as deemed appropriate.
- 55.5 Keep a daily surveillance log sufficient to show compliance status with the 'Ambient Air Boundary Surveillance' described in the Access Plan. Keep records as set out by Condition 84.
- 55.6 Submit all proposed revisions to the ambient boundary and/or Access Plan according to Condition 86.

NSPS Subpart OOO - Nonmetallic Mineral Processing Plants

- 56. NSPS Subpart OOO Applicability.** The Permittee shall comply with the following standards for nonmetallic mineral processing plants subject to NSPS Subpart OOO:

[18 AAC 50.040(a)(2)(FF) & (j)(4), 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

- 56.1 Except as provided in 40 C.F.R. 60.670(a)(2), (b), Condition 56.2, and Condition 56.3, the provisions of NSPS Subpart OOO are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants that commence construction, modification, or reconstruction after August 31, 1983: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

[40 C.F.R. 60.670(a)(1) & (e), Subpart OOO]

- 56.2 Facilities at the following plants are not subject to the provisions of NSPS Subpart OOO:

- a. Fixed sand and gravel plants and crushed stone plants with capacities, as defined in § 60.671, of 23 megagrams per hour (25 tons per hour) or less;
- b. Portable sand and gravel plants and crushed stone plants with capacities, as defined in § 60.671, of 136 megagrams per hour (150 tons per hour) or less; and
- c. Common clay plants and pumice plants with capacities, as defined in § 60.671, of 9 megagrams per hour (10 tons per hour) or less.

[40 C.F.R. 60.670(c), Subpart OOO]

- 56.3 When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in 40 C.F.R. 60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of 40 C.F.R. 60.672, 60.674, and 60.675 except as provided for in Condition 56.3b.

- a. A Permittee complying with Condition 56.3 shall submit the information required in Condition 60.1.
- b. A Permittee replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in Condition 56.3 and must comply with the provisions of 40 C.F.R. 60.672, 60.674, and 60.675.

[40 C.F.R. 60.670(d), Subpart OOO]

- 56.4 Table 1 of NSPS Subpart OOO specifies the provisions of NSPS Subpart A that do not apply to owners and operators of affected facilities subject to NSPS Subpart OOO or that apply with certain exceptions.

[40 C.F.R. 60.670(f), Subpart OOO]

- 57. Standard for Particulate Matter (PM) Emissions.** The Permittee shall comply with the following:

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 60.672, Subpart OOO]

- 57.1 Affected facilities under Condition 56, must meet the fugitive emission limits and compliance requirements in Table 1 within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 C.F.R. 60.11. The requirements in Table 1 apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.

[40 C.F.R. 60.672(b), Subpart OOO]

- 57.2 Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the emission limits listed in Condition 57.1.

[40 C.F.R. 60.672(d), Subpart OOO]

Table 1: NSPS Subpart OOO — Fugitive Emission Limits

For	Fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility	Fugitive emissions limit for crushers at which a capture system is not used	The owner or operator must demonstrate compliance with these limits by conducting
Affected facilities that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008	10 percent opacity	15 percent opacity	An initial performance test according to 40 C.F.R. 60.11 and Condition 59
Affected facilities that commence construction, modification, or reconstruction on or after April 22, 2008	7 percent opacity	12 percent opacity	An initial performance test according to 40 C.F.R. 60.11 and Condition 59; and Periodic inspections of water sprays according to Conditions 58.2a and 60.2; and
			A repeat performance test according to 40 C.F.R. 60.11 and Condition 59 within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in Conditions 58.2a and 60.2 are exempt from this 5-year repeat testing requirement.

[40 C.F.R. 60 Subpart OOO, Table 3]

58. Monitoring of Operations. The Permittee shall monitor operations as follows:

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(i)]
[40 C.F.R. 60.674(b), Subpart OOO]

- 58.1 If new equipment becomes subject to Condition 56, and the initial opacity observations required by 40 C.F.R. 60.11 have not been done, then perform those observations and report the results according to the schedule in 40 C.F.R. 60.11(e).
- 58.2 The owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses wet suppression to control emissions from the affected facility must perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The owner or operator must initiate corrective action within 24 hours and complete corrective action as expeditiously as practical if the owner or operator finds that water is not flowing properly during an inspection of the water spray nozzles. The owner or operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under Condition 60.2.
- a. If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in Table 1 provided that the affected facility meets the criteria as follows:
 - (i) The owner or operator of the affected facility conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections are conducted according to Condition 58.2 and Condition 60.2, and
 - (ii) The owner or operator of the affected facility designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required under 40 C.F.R. 60.11 of this part and Condition 59 of this subpart.
 - b. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under Condition 60.2 must specify the control mechanism being used instead of the water sprays.

59. Test Methods and Procedures. The Permittee shall use the following test methods and procedures:

[18 AAC 50.040(j) & 50.326(j)]

- 59.1 In determining compliance with the particulate matter standards in Table 1, the owner or operator shall use Method 9 and the procedures in 40 C.F.R. 60.11, with the following additions:

- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
 - b. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of 40 C.F.R. Part 60, Section 2.1) must be followed.
 - c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- 59.2 When determining compliance with the fugitive emissions standard for any affected facility described under Condition 57.1, the duration of the Method 9 (40 C.F.R. Part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 1 in Condition 57.1 must be based on the average of the five 6-minute averages.
- [40 C.F.R. 60.675(c), Subpart OOO]
- 59.3 The owner or operator may use the following as alternatives to the reference methods and procedures specified in Conditions 59.1 and 59.2:
- a. For the method and procedure of Conditions 59.1 and 59.2, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:
 - (i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.
 - (ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.
 - b. A single visible emission observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:
 - (i) No more than three emission points may be read concurrently.
 - (ii) All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.
 - (iii) If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking

readings for the other two points and continue reading just that single point.

[40 C.F.R. 60.675(e), Subpart OOO]

- 59.4 For performance tests required in Condition 57.1, involving only Method 9 (40 C.F.R. Part 60 Appendix A–4) testing, the owner or operator may reduce the 30-day advance notification of performance test in 40 C.F.R. 60.7(a)(6) and 40 C.F.R. 60.8(d) to a 7-day advance notification to both the EPA and Department.

[40 C.F.R. 60.675(g), Subpart OOO]

- 59.5 If the initial performance test date for an affected facility falls during a seasonal shut down (as defined in 40 C.F.R. 60.671) of the affected facility, then with approval from the permitting authority, the owner or operator may postpone the initial performance test until no later than 60 calendar days after resuming operation of the affected facility.

[40 C.F.R. 60.675(i), Subpart OOO]

60. Recordkeeping and Reporting. The Permittee shall comply with the following recordkeeping and reporting requirements:

[18 AAC 50.326(j)]

[40 C.F.R. 71.6(a)(3)(ii)& (iii)]

[40 C.F.R. 60.676, Subpart OOO]

- 60.1 Each Permittee seeking to comply with Condition 56.2 shall submit to the US EPA and the Department the following information about the existing facility being replaced and the replacement piece of equipment:
- a. For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:
 - (i) The rated capacity in megagrams or tons per hour of the existing facility being replaced; and
 - (ii) The rated capacity in tons per hour of the replacement equipment.
 - b. For a screening operation:
 - (i) The total surface area of the top screen of the existing screening operation being replaced; and
 - (ii) The total surface area of the top screen of the replacement screening operation.
 - c. For a conveyor belt:
 - (i) The width of the existing belt being replaced; and
 - (ii) The width of the replacement conveyor belt.
 - d. For a storage bin:

- (i) The rated capacity in megagrams or tons of the existing storage bin being replaced; and
 - (ii) The rated capacity in megagrams or tons of replacement storage bins.

[40 C.F.R. 60.676(a), Subpart OOO]
- 60.2 Permittees of affected facilities (as defined in 40 C.F.R. §60.670 and 60.671) for which construction, modification, or reconstruction commenced on or after April 22, 2008, must record each periodic inspection required under Condition 58, including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the US EPA or the Department upon request.

[40 C.F.R. 60.676(b)(1), Subpart OOO]
- 60.3 The Permittee of any affected facility shall submit to the US EPA and to the Department written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in Table 1 of Condition 57.1, including reports of opacity observations made using Method 9 (40 C.F.R. Part 60, Appendix A–4) to demonstrate compliance with Table 1 of Condition 57.1.

[40 C.F.R. 60.676(f), Subpart OOO]
- 60.4 The Permittee of any wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in Table 1 of Condition 57.1 and the emission test requirements of 40 C.F.R. 60.11.

[40 C.F.R. 60.676(g), Subpart OOO]
- 60.5 The Subpart A requirement under 40 C.F.R. 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under NSPS Subpart OOO.

[40 C.F.R. 60.676(h), Subpart OOO]
- 60.6 A notification of the actual date of initial startup of each affected facility shall be submitted to EPA and the Department.
 - a. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the Permittee to EPA and the Department. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

- b. For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.

[40 C.F.R. 60.676(i), Subpart OOO]

60.7 Report under Condition 88:

- a. The results of any Method 9 observations that exceed the limits in Table 1 of Condition 57.1; and
- b. any noncompliance with the requirements under Conditions 56 through 60.

60.8 Include in the operating report under Condition 89 copies of Method 9 readings and inspections records required under conditions 57.1 and 58.1.

[18 AAC 50.040(j)(4) and 18 AAC 50.326(j)(4)]

[40 C.F.R. 71.6(a)(3)(iii) & (c)(6)]

Section 6. General Conditions

- 61.** Each permit term and condition is independent of the permit as a whole and remains valid regardless of a challenge to any other part of the permit.

[18 AAC 50.326(j)(3) and 50.345(a) & (e)]

- 62.** The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and re-issuance, or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[18 AAC 50.326(j)(3) and 50.345(a) & (f)]

- 63.** The permit does not convey any property rights of any sort, nor any exclusive privilege.

[18 AAC 50.326(j)(3) and 50.345(a) & (g)]

- 64. Administration Fees.** The Permittee shall pay to the Department all assessed permit administration fees. Administration fee rates are set out in 18 AAC 50.400-403.

[18 AAC 50.326(j)(1), 50.400, & 50.403]
[AS 37.10.052(b) and AS 46.14.240]

- 65. Assessable Emissions.** For each period from July 1 through the following June 30, the Permittee shall pay to the Department an annual emission fee based on the stationary source's assessable emissions, as determined by the Department under 18 AAC 50.410. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities 10 tons per year or greater. The quantity for which fees will be assessed is the lesser of the stationary source's:

65.1 potential to emit of 523TPY; or

65.2 projected annual rate of emissions, in TPY, based upon actual annual emissions for the most recent calendar year, or another 12-month period approved in writing by the Department, when demonstrated by credible evidence of actual emissions, based upon the most representative information available from one or more of the following methods:

- a. an enforceable test method described in 18 AAC 50.220;
- b. material balance calculations;
- c. emission factors from EPA's publication AP-42, Vol. I, adopted by reference in 18 AAC 50.035;
- d. calculations based upon the Department's Asphalt Plant Emission Fee Calculation Guide in Section 17, or the GP3 Assessable Emissions Spreadsheet on the Department's website; <https://dec.alaska.gov/air/air-permit/general-permits/>; or

- e. other methods and calculations approved by the Department, including appropriate vendor-provided emissions factors when sufficient documentation is provided.

[18 AAC 50.040(j)(4), 50.035, 50.326(j)(1) & (3), 50.346(b)(1), 50.410, & 50.420]

66. Assessable Emissions Estimates. The Permittee shall comply as follows:

- 66.1 No later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions as determined in Condition 65.2. Submit actual emissions estimates in accordance with the submission instructions on the Department's Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-condition-i-submission-instructions/>.
- 66.2 The Permittee shall include with the assessable emissions report all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates.
- 66.3 if no estimate is submitted on or before March 31 of each year, emission fees for the next fiscal year will be based on the potential to emit set forth in Condition 65.1.

[18 AAC 50.040(j)(4), 50.326(j)(1) & (3), 50.346(b)(1), 50.410, & 50.420]

67. Good Air Pollution Control Practice.

- 67.1 The Permittee shall do the following for all emissions units authorized by this general permit except those subject to NSPS Subparts OOO and IIII, and NESHAP Subpart ZZZZ:
 - a. perform regular maintenance considering the manufacturer's or the operator's maintenance procedures;
 - b. keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format; and
 - c. keep a copy of either the manufacturer's or the operator's maintenance procedures.
- 67.2 The Permittee operating an asphalt plant using a baghouse shall:
 - a. operate the baghouse per the manufacturer's recommended operating procedures;
 - b. at the end of each run, operate the baghouse fans until the baghouse has been purged of exhaust gases per the manufacturer's recommendations;
 - c. monitor the pressure drop across the baghouse and the baghouse outlet temperature ensuring they remain within the manufacturer's recommendations or specifications; and
 - d. perform inspections of the equipment and complete necessary maintenance

- (i) prior to equipment startup in a new location and after shutdown periods lasting more than 5 days; and
 - (ii) every 30 days of operation at the same location.
 - e. Operate the baghouse efficiently to control opacity and particulate matter emissions; and
 - f. keep a daily production log showing the following:
 - (i) pressure drop across the baghouse at the beginning of each production day; and
 - (ii) pressure drop across the baghouse at the end of each production day.
 - g. Keep a record of the baghouse inspections showing the following:
 - (i) date of inspection and name of person conducting the inspection;
 - (ii) number of worn or damaged bags detected and the date discovered;
 - (iii) number of bags replaced and date replaced;
 - (iv) number of worn or damaged seals/gaskets detected and the date discovered; and
 - (v) number of seal/gaskets replaced and the date replaced.
 - h. Submit a summary of the records and information required by Condition 67.2 in the operating report required by Condition 89.
- 67.3 The Permittee operating an asphalt plant using a wet scrubber shall:
 - a. inspect every component of the control device before the first operation each season and repair or replace any component that shows signs of deterioration;
 - b. monitor the differential pressure across the scrubber, the scrubber water flow rate, and scrubber water inlet and outlet temperatures and maintain these operating conditions within limits recommended by the manufacturer;
 - c. operate the scrubber efficiently to control opacity and particulate matter emissions;
 - d. keep a record of the scrubber inspections showing:
 - (i) date of inspection and name of person conducting the inspection;
 - (ii) number of components detected that are worn or damaged and the date discovered; and
 - (iii) number of components replaced and date replaced.
 - e. Keep a daily production log showing:

- (i) pressure drop across the scrubber and the scrubber inlet and outlet temperatures at the beginning of each production day;
 - (ii) pressure drop across the scrubber and the scrubber inlet and outlet temperatures at the end of each production day; and
 - (iii) scrubber water flow rate for each day of production.
- f. Submit a summary of the records and information required by Condition 67.3 in the operating report required by Condition 89.

[18 AAC 50.326(j)(3) and 50.346(b)(5)]

- 68. Dilution.** The Permittee shall not dilute emissions with air to comply with this permit. Monitoring shall consist of an annual certification that the Permittee does not dilute emissions to comply with this permit.

[18 AAC 50.045(a)]

- 69. Reasonable Precautions to Prevent Fugitive Dust.** A person who causes or permits bulk materials to be handled, transported, or stored, or who engages in an industrial activity or construction project shall take reasonable precautions to prevent the release of airborne PM and fugitive dust from rock crushing operations, aggregate piles, conveyors and elevators, loading locations, the rotary drum, screens, baghouse ash discharge, vehicle traffic within the stationary source boundaries and other sources of fugitive dust into the ambient air.

- 69.1 Reasonable precautions for asphalt plants to prevent PM from becoming airborne include as necessary:
- a. installation and use of hoods;
 - b. fans and dust collectors to enclose and vent dusty materials;
 - c. other covers and enclosures to prevent generation or release of fugitive dust;
 - d. cleanup of loose material on work surfaces;
 - e. minimizing drop distances on conveyor systems and lowering loader buckets to be in contact with the surface of the soil or ground before dumping;
 - f. application of water or suitable chemicals to road surfaces to prevent the generation of fugitive dust;
 - g. gratings at the exit of the stationary source to prevent tracking of dirt or mud onto public roads; and
 - h. for an asphalt plant located near a business, residence or other occupied structure, if the wind is blowing toward the structure and emissions from an activity would result in a violation of Condition 71, stopping the activity that would cause the violation while the wind blows in that direction.

- 69.2 Dust Control Plans.

- a. Comply with the provisions contained under the Fugitive Dust Control Plan in Section 19 if either of the following applies:
 - (i) the asphalt plant operations are located within one mile of the nearest inhabited off-site structure, or
 - (ii) if the rock crushing operations are within 2,000 feet of the nearest inhabited off-site structure.

69.3 The Permittee shall keep records of:

- a. complaints received by the Permittee and complaints received by the Department and conveyed to the Permittee; and
- b. any additional precautions that are taken
 - (i) to address complaints described in Condition 69.3a or to address the results of Department inspections that found potential problems; and
 - (ii) to prevent future dust problems.
- c. Records to demonstrate compliance with Condition 69.2a.

69.4 The Permittee shall report under Condition 88 any deviation from the terms and conditions under Condition 69 and include:

- a. in what way the Permittee deviated from the dust control plan;
- b. the cause of the deviation; and
- c. what actions were taken to correct the deviation.

69.5 The Permittee shall report according to Condition 71.3.

[18 AAC 50.045(d), 50.110, 50.326(j)(3), & 50.346(c)]

70. Stack Injection. The Permittee shall not release materials other than process emissions, products of combustion, or materials introduced to control pollutant emissions from a stack at a source constructed or modified after November 1, 1982, except as authorized by a construction permit, Title V permit or air quality control permit issued before October 1, 2004.

[18 AAC 50.055(g)]

71. Air Pollution Prohibited. No person may permit any emission which is injurious to human health or welfare, animal or plant life, or property, or which would unreasonably interfere with the enjoyment of life or property.

71.1 **Monitoring.** The Permittee shall monitor as follows:

- a. As soon as practicable after becoming aware of a complaint that is attributable to emissions from the stationary source, the Permittee shall investigate the complaint to identify emissions that the Permittee believes have caused or are causing a violation of Condition 71.

- b. The Permittee shall initiate and complete corrective action necessary to eliminate any violation identified by a complaint or investigation as soon as practicable if
 - (i) after an investigation because of a complaint or other reason, the Permittee believes that emissions from the stationary source have caused or are causing a violation of Condition 71; or
 - (ii) the Department notifies the Permittee that it has found a violation of Condition 71.

71.2 Recordkeeping. The Permittee shall keep records of

- a. the date, time, and nature of all emissions complaints received;
- b. the name of the person or persons that complained, if known;
- c. A summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 71; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

71.3 Reporting. The Permittee shall report as follows:

- a. with each stationary source operating report under Condition 89, the Permittee shall include a brief summary report which must include the following for the period covered by the report:
 - (i) the number of complaints received;
 - (ii) the number of times the Permittee or the Department found corrective action necessary;
 - (iii) the number of times action was taken on a complaint within 24 hours; and
 - (iv) the status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.
- b. The Permittee shall notify the Department of a complaint that is attributable to emissions from the stationary source within 24 hours after receiving the complaint, unless the Permittee has initiated corrective action within 24 hours of receiving the complaint.
- c. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 88.

[18 AAC 50.040(j)(4), 50.110, 50.326(j)(3), and 50.346(a)]
[40 C.F.R. 71.6(a)(3)]

72. Technology Based Emission Standard. If an unavoidable emergency, malfunction (as defined in 18 AAC 50.235(d)), or non-routine repair (as defined in 18 AAC 50.990(64)), causes emissions in excess of a technology-based emission standard²⁵ listed in Conditions 34, 38, 43, 51 (refrigerants), or 57, the Permittee shall

72.1 take all reasonable steps to minimize levels of emissions that exceed the standard; and

72.2 report in accordance with Condition 88.1b; the report must include information on the steps taken to mitigate emissions and corrective measures taken or to be taken.

[18 AAC 50.235(a), 50.326(j)(4), & 50.040(j)(4)]

[40 C.F.R. 71.6(c)(6)]

Open Burning Requirements

73. Open Burning. If the Permittee conducts open burning at this stationary source, the Permittee shall comply with the requirements of 18 AAC 50.065. The Permittee shall comply as follows:

73.1 keep written records to demonstrate that the Permittee complies with the limitations in this condition and the requirements of 18 AAC 50.065. Upon request by the Department, submit copies of the records; and

73.2 Include this condition in the annual certification required under Condition 90.

[18 AAC 50.065, 50.040(j), and 50.326(j)]

[40 C.F.R. 71.6(a)(3)]

²⁵ As defined in 18 AAC 50.990(106), the term “*technology-based emission standard*” means a best available control technology (BACT) standard; a lowest achievable emission rate (LAER) standard; a maximum achievable control technology (MACT) standard established under 40 C.F.R. 63, Subpart B, adopted by reference in 18 AAC 50.040(c); a standard adopted by reference in 18 AAC 50.040(a) or (c); and any other similar standard for which the stringency of the standard is based on determinations of what is technologically feasible, considering relevant factors.

Section 7. General Source Testing and Monitoring Requirements

- 74. Requested Source Tests.** In addition to any source testing explicitly required by the permit, the Permittee shall conduct source testing as requested by the Department to determine compliance with applicable permit requirements.

[18 AAC 50.220(a) & 50.345(a) & (k)]

- 75. Operating Conditions.** Unless otherwise specified by an applicable requirement or test method, the Permittee shall conduct source testing

75.1 at a point or points that characterize the actual discharge into the ambient air; and

75.2 at the maximum rated burning or operating capacity of the emissions unit or another rate determined by the Department to characterize the actual discharge into the ambient air.

[18 AAC 50.220(b)]

- 76. Reference Test Methods.** The Permittee shall use the following test methods when conducting source testing for compliance with this permit:

76.1 Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(a) must be conducted in accordance with the methods and procedures specified in 40 C.F.R. 60.

[18 AAC 50.040(a) & 50.220(c)(1)(A)]
[40 C.F.R. 60]

76.2 Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(b) must be conducted in accordance with the methods and procedures specified in 40 C.F.R. 61.

[18 AAC 50.040(b) & 50.220(c)(1)(B)]
[40 C.F.R. 61]

76.3 Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(c) must be conducted in accordance with the source test methods and procedures specified in 40 C.F.R. 63.

[18 AAC 50.040(c) & 50.220(c)(1)(C)]
[40 C.F.R. 63]

76.4 Source testing for the reduction in visibility through the exhaust effluent must be conducted in accordance with the procedures set out in Reference Method 9. The Permittee may use the form in Section 11 to record data.

[18 AAC 50.030 & 50.220(c)(1)(D)]

76.5 Source testing for emissions of total particulate matter, sulfur compounds, nitrogen compounds, carbon monoxide, lead, volatile organic compounds, fluorides, sulfuric acid mist, municipal waste combustor organics, metals, and acid gases must be conducted in accordance with the methods and procedures specified in 40 C.F.R. 60, Appendix A.

[18 AAC 50.040(a)(3) 50.220(c)(1)(E)]

[40 C.F.R. 60, Appendix A]

- 76.6 Source testing for emissions of PM-10 and PM-2.5 must be conducted in accordance with the procedures specified in 40 C.F.R. 51, Appendix M, Methods 201 or 201A and 202.

[18 AAC 50.035(b)(2) & 50.220(c)(1)(F)]
[40 C.F.R. 51, Appendix M]

- 76.7 Source testing for emissions of any pollutant may be determined using an alternative method approved by the Department in accordance with 40 C.F.R. 63 Appendix A, Method 301.

[18 AAC 50.040(c)(32) & 50.220(c)(2)]
[40 C.F.R. 63, Appendix A, Method 301]

77. **Excess Air Requirements.** To determine compliance with this permit, standard exhaust gas volumes must include only the volume of gases formed from the theoretical combustion of the fuel, plus the excess air volume normal for the specific emissions unit type, corrected to standard conditions (dry gas at 68° F and an absolute pressure of 760 millimeters of mercury).

[18 AAC 50.220(c)(3) & 50.990(102)]

78. **Test Exemption.** The Permittee is not required to comply with Conditions 80, 81, and 82 when the exhaust is observed for visible emissions by Method 9 Plan (Conditions 2.1, 5.1, 35.2, and 59.1 through 59.5) or Smoke/No Smoke Plan (Condition 5.2).

[18 AAC 50.345(a)]

79. **Test Deadline Extension.** The Permittee may request an extension to a source test deadline established by the Department. The Permittee may delay a source test beyond the original deadline only if the extension is approved in writing by the Department's appropriate division director or designee.

[18 AAC 50.345(a) & (l)]

80. **Test Plans.** Except as provided in Condition 78, before conducting any source tests, the Permittee shall submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance and must specify how the emissions unit will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete plan within 60 days after receiving a request under Condition 74 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be done without resubmitting the plan.

[18 AAC 50.345(a) & (m)]

81. **Test Notification.** Except as provided in Condition 78, at least 10 days before conducting a source test, the Permittee shall give the Department written notice of the date and the time the source test will begin.

[18 AAC 50.345(a) & (n)]

- 82. Test Reports.** Except as provided in Condition 78, within 60 days after completing a source test, the Permittee shall submit one certified copy of the results in the format set out in the *Source Test Report Outline*, adopted by reference in 18 AAC 50.030. The Permittee shall certify the results in the manner set out in Condition 85. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.

[18 AAC 50.345(a) & (o)]

- 83. Particulate Matter Calculations.** In source testing for compliance with the particulate matter standards in Conditions 8.1a, 8.1b, 9, 19.2, and 34.1, the three-hour average is determined using the average of three one-hour test runs.

[18 AAC 50.220(f)]

Section 8. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

84. The Permittee shall keep all records required by this permit for at least five years after the date of collection, including:

- 84.1 copies of all reports and certifications submitted pursuant to this section of the permit; and
- 84.2 records of all monitoring required by this permit, and information about the monitoring including:
 - a. the date, place, and time of sampling or measurements;
 - b. the date(s) analyses were performed;
 - c. the company or entity that performed the sampling and analyses;
 - d. the analytical techniques or methods used;
 - e. the results of the analyses; and
 - f. the operating conditions as existing at the time of sampling or measurement.

[18 AAC 50.040(a)(1) & (j)(4) and 50.326(j)]
[40 C.F.R 60.7(f), Subpart A, 40 C.F.R 71.6(a)(3)(ii)(A) & (B)]

Reporting Requirements

85. Certification. The Permittee shall certify any permit application, report, affirmation, or compliance certification submitted to the Department and required under the permit by including the signature of a responsible official for the permitted stationary source following the statement: *“Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.”* Excess emission reports must be certified either upon submittal or with an operating report required for the same reporting period. All other reports and other documents must be certified upon submittal.

- 85.1 The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if the person providing the electronic signature
 - a. uses a security procedure, as defined in AS 09.80.190, that the Department has approved; and
 - b. accepts or agrees to be bound by an electronic record executed or adopted with that signature.

[18 AAC 50.205, 50.326(j)(3), 50.345(a) & (j), & 50.346(b)(10)]

86. Submittals. Unless otherwise directed by the Department or this permit, the Permittee shall submit to the Department one certified copy of reports, compliance certifications, and/or other submittals required by this permit. The Permittee may submit the documents electronically or by hard copy.

86.1 Submit the certified copy of reports, compliance certifications, and/or other submittals in accordance with the submission instructions on the Department's Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-condition-xvii-submission-instructions/>.

[18 AAC 50.326(j) (3) & 50.346(b)(10)]

87. Information Requests. The Permittee shall furnish to the Department, within a reasonable time, any information the Department requests in writing to determine whether cause exists to modify, revoke and reissue, or terminate the permit or to determine compliance with the permit. Upon request, the Permittee shall furnish to the Department copies of records required to be kept by the permit. The Department may require the Permittee to furnish copies of those records directly to the Federal Administrator.

[18 AAC 50.345(a) & (i), 50.200, & 50.326(a) & (j)]
[40 C.F.R. 71.5(a)(2) & 71.6(a)(3)]

88. Excess Emissions and Permit Deviation Reports. The Permittee shall report excess emissions and permit deviations as follows:

88.1 **Excess Emissions Reporting.** Except as provided in Condition 71, the Permittee shall report all emissions or operations that exceed emissions standards or limits of this permit as follows:

- a. In accordance with 18 AAC 50.240(c), as soon as possible, report
 - (i) excess emissions that present a potential threat to human health or safety; and
 - (ii) excess emissions that the Permittee believes to be unavoidable.
- b. In accordance with 18 AAC 50.235(a), within two working days after the event commenced or was discovered, report an unavoidable emergency, malfunction, or non-routine repair that causes emissions in excess of a technology-based emission standard.
- c. If a continuous or recurring excess emissions is not corrected within 48 hours of discovery, report within 72 hours of discovery unless the Department provides written permission to report under Condition 88.1d.
- d. Report all other excess emissions not described in Conditions 88.1a, 88.1b, and 88.1c within 30 days after the end of the month during which the excess emissions occurred or as part of the next routine operating report in Condition 89 for excess emissions that occurred during the period covered by the report, whichever is sooner.

- e. If requested by the Department, the Permittee shall provide a more detailed written report to follow up on an excess emissions report.

[18 AAC 50.235(a)(2), 50.240(c), 50.326(j)(3), & 50.346(b)(2)]

88.2 Permit Deviations Reporting. For permit deviations that are not “excess emissions,” as defined under 18 AAC 50.990:

- a. Report according to the required deadline for failure to monitor, as specified in other applicable conditions of this permit (Conditions 4.2b, 7.2b, 12.4b, and 53.4b).
- b. Report all other permit deviations within 30 days after the end of the month during which the deviation occurred or as part of the next routine operating report in Condition 89 for permit deviations that occurred during the period covered by the report, whichever is sooner.

[18 AAC 50.326(j)(3) & 50.346(b)(2)]

88.3 Notification Form. When reporting either excess emissions or permit deviations, the Permittee shall report using either the Department’s online form, which can be found at the Division of Air Quality’s Air Online Services (AOS) system webpage <http://dec.alaska.gov/applications/air/airtoolsweb> using the Permittee Portal option, or, if the Permittee prefers, the form contained in Section 13 of this permit. The Permittee must provide all information called for by the form that is used. Submit the report in accordance with the submission instructions on the Department’s Standard Permit Conditions webpage found at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

[18 AAC 50.235(a)(2), 50.240(c), 50.326(j)(3), & 50.346(b)(2) & (3)]

89. Operating Reports. During the life of this permit²⁶, the Permittee shall submit to the Department an operating report accordance with Conditions 85 and 86 by April 30 for the period November 1 (of the previous year) to March 31 and by November 30 for the period April 1 to October 31. You may use the Semiannual Operating Report Form in Section 15 or a format of your own, provided all the required information is reported.

[18 AAC 50.346(a) 18 AAC 50.346(b)(6), 11/9/08 & 18 AAC 50.326(j), 12/1/04]

[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

- 89.1 The operating report must include all information required to be in operating reports by other conditions of this permit, for the period covered by the report.
- 89.2 When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 89.1, the Permittee shall identify
 - a. the date of the excess emissions or permit deviation;
 - b. the equipment involved;

²⁶ *Life of this permit* is defined as the permit effective dates, including any periods of reporting obligations that extend beyond the permit effective dates. For example, if a permit expires prior to the end of a calendar year, there is still a reporting obligation to provide operating reports for the periods when the permit was in effect.

- c. the permit condition affected;
 - d. a description of the excess emissions or permit deviation; and
 - e. any corrective action or preventive measures taken and the date(s) of such actions; or
- 89.3 when excess emissions or permit deviation reports have already been reported under condition 88 during the period covered by the operating report, the Permittee shall either
 - a. include a copy of those excess emissions or permit deviation reports with the operating report; or
 - b. cite the date(s) of those reports.
- 89.4 The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 5.2c, 8.2c(i), and 10.2, which trigger additional testing or monitoring, whether or not the emissions monitored exceed an emission standard. The Permittee shall include in the report
 - a. the date of the emissions;
 - b. the equipment involved;
 - c. the permit condition affected; and
 - d. the monitoring result which triggered the additional monitoring.
- 89.5 **Transition from expired to renewed permit.** For the first period of this renewed operating permit, also provide the previous permit's operating report elements covering that partial period immediately preceding the effective date of this renewed permit.

[18 AAC 50.346(b)(6) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(iii)(A)]

- 90. Annual Compliance Certification.** Each year by March 31, the Permittee shall compile and submit to the Department an annual compliance certification report according to Condition 86.
- 90.1 Certify the compliance status of the stationary source over the preceding calendar year consistent with the monitoring required by this permit, in accordance with the format in Section 16 as follows:
 - a. identify each term or condition set forth in Section 2 through Section 10, that is the basis of the certification;
 - b. briefly describe each method used to determine the compliance status;
 - c. state whether compliance is intermittent or continuous; and
 - d. identify each deviation and take it into account in the compliance certification.

90.2 **Transition from expired to renewed permit.** For the first period of this renewed operating permit, also provide the previous permit's annual compliance certification report elements covering that partial period immediately preceding the effective date of this renewed permit.

90.3 In addition, submit a copy of the report directly to the Clean Air Act Compliance Manager, US EPA Region 10, ATTN: Air Toxics and Enforcement Section, Mail Stop: 20-C04, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188.

[18 AAC 50.205, 50.345(a) & (j), & 50.326(j)]
[40 C.F.R. 71.6(c)(5)]

91. Emission Inventory Reporting. The Permittee shall submit to the Department reports of actual emissions for the previous calendar year, by emissions unit, of CO, NH₃, NO_x, PM₁₀, PM_{2.5}, SO₂, VOC and lead (Pb) and lead compounds, as follows:

91.1 **Every-year inventory.** Each year by April 30, if the stationary source's potential to emit for the previous calendar year equals or exceeds:

- a. 250 TPY of NH₃, PM₁₀, PM_{2.5} or VOC; or
- b. 2,500 TPY of CO, NO_x, or SO₂.

91.2 **Triennial inventory.** Every third year by April 30, if the stationary source's potential to emit (except actual emissions for Pb) for the previous calendar year equals or exceeds:

- a. For stationary sources located in Attainment and Unclassifiable Areas:
 - (i) 0.5 TPY of actual Pb; or
 - (ii) 1,000 TPY of CO; or
 - (iii) 100 TPY of SO₂, NH₃, PM₁₀, PM_{2.5}, NO_x or VOC.
- b. For stationary sources located in Nonattainment Areas:
 - (i) 0.5 TPY of actual Pb; or
 - (ii) 1,000 TPY of CO or, when located in a CO nonattainment area, 100 TPY of CO; or
 - (iii) 100 TPY of SO₂, NH₃, PM₁₀, PM_{2.5}, NO_x, or VOC; or as specified in Conditions 91.2b(iv) through 91.2b(viii);
 - (iv) 70 TPY of SO₂, NH₃, PM_{2.5}, NO_x, or VOC in PM_{2.5} serious nonattainment areas; or
 - (v) 70 TPY of PM₁₀ in PM₁₀ serious nonattainment areas; or
 - (vi) 50 TPY of NO_x or VOC in O₃ serious nonattainment areas; or
 - (vii) 25 TPY of NO_x or VOC in O₃ severe nonattainment areas; or

(viii) 10 TPY of NO_x or VOC in O₃ extreme nonattainment areas.

91.3 For reporting under Condition 91.2, the Permittee shall report the annual emissions and the required data elements under Condition 91.4 every third year for the previous calendar year as scheduled by the EPA.²⁷

91.4 For each emissions unit and the stationary source, include in the report the required data elements²⁸ contained within the form included in the Emission Inventory Instructions available at the Department's AOS system on the Point Source Emission Inventory webpage at <http://dec.alaska.gov/Applications/Air/airtoolsweb/PointSourceEmissionInventory>.

91.5 Submit the report in accordance with the submission instructions on the Department's Standard Permit Conditions webpage at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-xv-and-xvi-submission-instructions/>.

[18 AAC 50.040(j)(4), 50.200, 50.326(j)(3), & 50.346(b)(8)]
[40 C.F.R. 51.15, 51.30(a)(1) & (b)(1), and Appendix A to 40 C.F.R. 51 Subpart A]

92. NSPS and NESHAP Reports. The Permittee shall comply with the following:

92.1 **Reports:** Except for previously submitted reports and federal reports and notices submitted through EPA's Central Data Exchange (CDX) and Compliance and Emissions Data Reporting Interface (CEDRI) online reporting system, attach to the operating report required by Condition 89 for the period covered by the report, a copy of any NSPS and NESHAP reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10. For reports previously submitted to ADEC or submitted through CDX/CEDRI, state in the operating report the date and a brief description of each of the online reports submitted during the reporting period.

92.2 **Waivers.** Upon request by the Department, provide a written copy of any EPA-granted alternative monitoring requirement, custom monitoring schedule or waiver of the federal emission standards, recordkeeping, monitoring, performance testing, or reporting requirements. The Permittee shall keep a copy of each U.S. EPA-issued monitoring waiver or custom monitoring schedule with the permit.

[18 AAC 50.040(j) & 50.326(j)(4)]
[40 C.F.R. 60.13, 63.10(d) & (f) and 40 C.F.R. 71.6(c)(6)]

93. Nonroad Engines. The Permittee shall keep a log of following information for each engine that meets the definition of nonroad engine under 40 C.F.R. 89.2-Nonroad Engine-(1)(iii)²⁹:

²⁷ The calendar years for which reports are required are based on the triennial reporting schedule in 40 C.F.R. 51.30(b)(1), which requires states to report emissions data to the EPA for inventory years 2020, 2023, 2026, 2029, and every 3rd year thereafter. Therefore, the Department requires Permittees to report emissions data for the same inventory years by April 30 of the following year (e.g., triennial emission inventory report for 2020 is due April 30, 2021, triennial emission inventory report for 2023 is due April 30, 2024, etc.).

²⁸ The required data elements to be reported to the EPA are outlined in 40 C.F.R. 51.15 and Tables 2a and 2b to Appendix A of 40 C.F.R. 51 Subpart A.

²⁹ Definition for *Nonroad Engine* in 40 C.F.R. 89.2-Nonroad Engine-(1)(iii): Except as discussed in paragraph (2) of this definition, a nonroad engine is any internal combustion engine: that by itself or in or on a piece of equipment, is portable or

- 93.1 date and location each time the engine is relocated, including each time the engine is relocated to a different site at a building, structure, facility, or installation; and
- 93.2 make, model, serial number and capacity of the engine.
- 93.3 The Permittee shall report the information contained in Conditions 93.1 and 93.2 in the operating report required by Condition 89. The Permittee may use the Nonroad Engine Location Log in Section 21 or a format of your own, provided all the required information is reported.

[18 AAC 50.100 and 18 AAC 50.326(j)]

transportable, meaning designed to be and capable of being carried or moved from one location to another. Indicia of transportability include, but are not limited to, wheels, skids, carrying handles, dolly, trailer, or platform.

Section 9. Permit Changes and Renewal

94. Permit Applications and Submittals. The Permittee shall comply with the following requirements for submitting application information to the EPA:

- 94.1 The Permittee shall provide a copy of each application for modification or renewal of this permit, including any compliance plan, or application addenda, at the time the application or addendum is submitted to the Department;
- 94.2 The information shall be submitted to the Part 70 Operating Permit Program, US EPA Region 10, Air Permits and Toxics Branch, Mail Stop: 15-H13, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188;
- 94.3 To the extent practicable, the Permittee shall provide to EPA applications in portable document format (pdf), MS Word format (.doc), or other computer-readable format compatible with EPA's national database management system; and
- 94.4 The Permittee shall maintain records as necessary to demonstrate compliance with this condition.

[18 AAC 50.040(j)(7), 50.326(a) & (j)(3), and 50.346(b)(7)]
[40 C.F.R. 71.10(d)(1)]

95. Emissions Trading. No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in the permit.

[18 AAC 50.040(j)(4) and 50.326(j)(4)]
[40 C.F.R. 71.6(a)(8)]

96. Off Permit Changes. The Permittee may make changes that are not addressed or prohibited by this permit other than those subject to the requirements of 40 C.F.R. Parts 72 through 78 or those that are modifications under any provision of Title I of the Act to be made without a permit revision, provided that the following requirements are met:

- 96.1 Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;
- 96.2 Provide contemporaneous written notice to EPA and the Department of each such change, except for changes that qualify as insignificant under 18 AAC 50.326(d) – (i). Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change;
- 96.3 The change shall not qualify for the shield under 40 C.F.R. 71.6(f);
- 96.4 The Permittee shall keep a record describing changes made at the stationary source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

[18 AAC 50.040(j)(4) and 50.326(j)(4)]
[40 C.F.R. 71.6(a)(12)]

97. Operational Flexibility. The Permittee may make CAA Section 502(b)(10)³⁰ changes within the permitted stationary source without requiring a permit revision if the changes are not modifications under any provision of Title I of the Act and the changes do not exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions).

97.1 The Permittee shall provide EPA and the Department with a written notification no less than seven days in advance of the proposed change.

97.2 For each such change, the notification required by Condition 97.1 shall include a brief description of the change within the permitted stationary source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

97.3 The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 97.

[18 AAC 50.040(j)(4) and 50.326(j)(4)]
[40 C.F.R. 71.6(a)(13)]

98. Permit Renewal. To renew the letter of authorization under this permit, the Permittee shall submit an application under 18 AAC 50.326 no sooner than **[18 months before]** and **[no later than 6 months before the expiration date of this permit]**. The renewal application shall be complete before the permit expiration date listed on the cover page of this permit. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 40 C.F.R. 71.7(b) and 40 C.F.R. 71.5(a)(1)(iii).

[18 AAC 50.040(j)(3) and 50.326(c) & (j)(2)]
[40 C.F.R. 71.5(a)(1)(iii) and 71.7(b) & (c)(1)(ii)]

³⁰ As defined in 40 C.F.R. 71.2, CAA Section 502(b)(10) changes are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

Section 10. Compliance Requirements

99. Compliance with permit terms and conditions is considered to be compliance with those requirements that are

99.1 included and specifically identified in the permit; or

99.2 determined in writing in the permit to be inapplicable.

[18 AAC 50.345(b), 11/9/08]

100. The Permittee must comply with each permit term and condition. Noncompliance with a permit term or condition constitutes a violation of AS 46.14.120(c), 18 AAC 50, and, except for those terms or conditions designated in the permit as not federally enforceable, the Clean Air Act, and is grounds for

100.1 an enforcement action;

100.2 permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or

100.3 denial of an operating permit renewal application.

[18 AAC 50.345(c), 11/9/08]

101. It is not a defense in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with a permit term or condition.

[18 AAC 50.345(d), 11/9/08]

102. Each permit term and condition is independent of the permit as a whole and remains valid regardless of a challenge to any other part of the permit.

[18 AAC 50.345(e), 11/9/08]

103. The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and reissuance, or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[18 AAC 50.345(f), 11/9/08]

104. The permit does not convey any property rights of any sort, nor any exclusive privilege.

[18 AAC 50.345(g), 11/9/08]

105. The Permittee shall allow the Department or an inspector authorized by the Department, upon presentation of credentials and at reasonable times with the consent of the owner or operator to

105.1 enter upon the premises where a emission unit subject to the permit is located or where records required by the permit are kept;

105.2 have access to and copy any records required by the permit;

- 105.3 inspect any Stationary Source, equipment, practices, or operations regulated by or referenced in the permit; and
- 105.4 sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

[18 AAC 50.345(h), 11/9/08]

Compliance Schedule

- 106.** For applicable requirements that will become effective during the permit term, the Permittee shall meet such requirements on a timely basis.

[18 AAC 50.040(j) and 50.326(j)]
[40 C.F.R. 71.6(c)(3) and 71.5(c)(8)(iii)(B)]

Section 11. Visible Emissions Form

VISIBLE EMISSIONS OBSERVATION FORM

This form is designed to be used in conjunction with EPA Method 9, “Visual Determination of the Opacity of Emissions from Stationary Sources.” Temporal changes in emission color, plume water droplet content, background color, sky conditions, observer position, etc. should be noted in the comments section adjacent to each minute of readings. Any information not dealt with elsewhere on the form should be noted under Additional Information. Following are brief descriptions of the type of information that needs to be entered on the form. For a more detailed discussion of each part of the form, refer to “Instructions for Use of Visible Emission Observation Form” (a copy is available in <https://www3.epa.gov/ttnemc01/methods/webinar8.pdf>).

- Source Name: full company name, parent company or division or subsidiary information, if necessary.
- Address: street (not mailing or home office) address of facility where visible emissions observation is being made.
- Phone (Key Contact): number for appropriate contact.
- Stationary Source ID Number: number from NEDS, agency file, etc.
- Process Equipment, Operating Mode: brief description of process equipment (include type of facility) and operating rate, % capacity, and/or mode (e.g., charging, tapping, shutdown).
- Control Equipment, Operating Mode: specify type of control device(s) and % utilization, control efficiency.
- Describe Emission Point: for identification purposes, stack or emission point appearance, location, and geometry; and whether emissions are confined (have a specifically designed outlet) or unconfined (fugitive).
- Height Above Ground Level: stack or emission point height relative to ground level; can use engineering drawings, Abney level, or clinometer.
- Height Relative to Observer: indicate height of emission point relative to the observation point.
- Distance from Observer: distance to emission point; can use rangefinder or map.
- Direction from Observer: direction plume is traveling from observer.
- Describe Emissions and Color: include physical characteristics, plume behavior (e.g., looping, lacy, condensing, fumigating, secondary particle formation, distance plume visible, etc.), and color of emissions (gray, brown, white, red, black, etc.). Note color changes in comments section.
- Visible Water Vapor Present?: check “yes” if visible water vapor is present.
- If Present, note in the Comments column whether the Plume is “attached” if water droplet plume forms prior to exiting stack, and “detached” if water droplet plume forms after exiting stack.
- Point in Plume at Which Opacity was Determined: describe physical location in plume where readings were made (e.g., 1 ft above stack exit or 10 ft. after dissipation of water plume).
- Describe Plume Background: object plume is read against, include texture and atmospheric conditions (e.g., hazy).
- Background Color: sky blue, gray-white, new leaf green, etc.
- Sky Conditions: indicate color of clouds and cloud cover by percentage or by description (clear, scattered, broken, overcast).
- Wind Speed: record wind speed; can use Beaufort wind scale or hand-held anemometer to estimate.
- Wind Direction From: direction from which wind is blowing; can use compass to estimate to eight points.
- Ambient Temperature: in degrees Fahrenheit or Celsius.
- Wet Bulb Temperature: can be measured using a sling psychrometer.
- RH Percent: relative humidity measured using a sling psychrometer; use local US Weather Bureau measurements only if nearby.
- Source Layout Sketch: include wind direction, sun position, associated stacks, roads, and other landmarks to fully identify location of emission point and observer position.
- Draw North Arrow: to determine, point line of sight in direction of emission point, place compass beside circle, and draw in arrow parallel to compass needle.
- Sun’s Location: point line of sight in direction of emission point, move pen upright along sun location line, mark location of sun when pen’s shadow crosses the observer’s position.
- Observation Date: date observations conducted.
- Start Time, End Time: beginning and end times of observation period (e.g., 1635 or 4:35 p.m.).
- Data Set: percent opacity to nearest 5%; enter from left to right starting in left column. Use a second (third, etc.) form, if readings continue beyond 30 minutes. Use dash (-) for readings not made; explain in adjacent comments section.
- Comments: note changing observation conditions, plume characteristics, and/or reasons for missed readings.
- Range of Opacity: note highest and lowest opacity number.
- Observer’s Name: print in full.
- Observer’s Signature, Date: sign and date after performing VE observation.
- Observer’s Affiliation: observer’s employer.
- Certifying Organization, Certified By, Date: name of “smoke school,” certifying observer, and date of most recent certification.

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION AIR PERMITS PROGRAM - VISIBLE EMISSIONS OBSERVATION FORM									
Stationary Source Name		Type of Emission Unit		Observation Date		Start Time		End Time	
Emission Unit Location				Sec	0	15	30	45	Comments
City				Min					
State				1					
Zip				2					
Phone # (Key Contact)				3					
Stationary Source ID Number				4					
Process Equipment				5					
Operating Mode				6					
Control Equipment				7					
Operating Mode				8					
Describe Emission Point/Location				9					
Height above ground level				10					
Height relative to observer				11					
Clinometer Reading				12					
Distance From Observer				13					
Direction From Observer				14					
Start				15					
End				16					
Describe Emissions & Color				17					
Start				18					
End				19					
Visible Water Vapor Present? If yes, determine approximate distance from the stack exit to where the plume was read				20					
No				21					
Yes				22					
Point in Plume at Which Opacity Was Determined				23					
Describe Plume Background				24					
Background Color				25					
Start				26					
End				27					
Sky Conditions:				28					
Start				29					
End				30					
Wind Speed				31					
Wind Direction From				32					
Start				33					
End				34					
Ambient Temperature				35					
Wet Bulb Temp				36					
RH percent				37					
SOURCE LAYOUT SKETCH: 1 Stack or Point Being Read 2 Wind Direction From				38					
3 Observer Location 4 Sun Location 5 North Arrow 6 Other Stacks				39					
				40					
				41					
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Additional Information:				51					
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Section 12. SO₂ Material Balance Calculation

If a fuel shipment contains more than 0.75 percent sulfur by weight, calculate the three-hour exhaust concentration of SO₂ using the following equations:

$$\begin{aligned}
 \text{A. } &= 31,200 \times (\text{wt}\% \text{S}_{\text{fuel}}) = 31,200 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\
 \text{B. } &= 0.148 \times (\text{wt}\% \text{S}_{\text{fuel}}) = 0.148 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\
 \text{C. } &= 0.396 \times (\text{wt}\% \text{C}_{\text{fuel}}) = 0.396 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\
 \text{D. } &= 0.933 \times (\text{wt}\% \text{H}_{\text{fuel}}) = 0.933 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\
 \text{E. } &= \text{B} + \text{C} + \text{D} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\
 \text{F. } &= 20.9 - (\text{vol}\% \text{dry O}_2, \text{ exhaust}) = 20.9 - \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\
 \text{G. } &= (\text{vol}\% \text{dry O}_2, \text{ exhaust}) \div \text{F} = \underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\
 \text{H. } &= 1 + \text{G} = 1 + \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\
 \text{I. } &= \text{E} \times \text{H} = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \\
 \text{SO}_2 \text{ concentration} &= \text{A} \div \text{I} = \underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ ppm}
 \end{aligned}$$

The **wt%S_{fuel}**, **wt%C_{fuel}**, and **wt%H_{fuel}** are equal to the weight percents of sulfur, carbon, and hydrogen, respectively, in the fuel. These percentages should total 100%.

The fuel weight percent of sulfur (**wt%S_{fuel}**) is obtained pursuant to Condition 14.1a(ii) or Condition 14.1b. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

The volume percent of oxygen in the exhaust (**vol%dryO_{2, exhaust}**) is obtained from oxygen meters, manufacturer's data, or from the most recent analysis under 40 C.F.R. 60, Appendix A-2, Method 3, adopted by reference in 18 AAC 50.040(a), at the same emissions unit load used in the calculation.

Enter all of the data in percentages without dividing the percentages by 100. For example, if **wt%S_{fuel}** = 1.0%, then enter 1.0 into the equations not 0.01 and if **vol%dryO_{2, exhaust}** = 3.00%, then enter 3.00, not 0.03.

[18 AAC 50.346(c)]

Section 13. Notification Form³¹

Stationary Source Name

Air Quality Permit Number

Company Name

When did you discover the Excess Emissions/Permit Deviation?

Date: ____ / ____ / ____

Time: ____ : ____

When did the event/deviation occur?

Begin: Date: ____ / ____ / ____

Time: ____ : ____ (please use 24-hr clock)

End: Date: ____ / ____ / ____

Time: ____ : ____ (please use 24-hr clock)

What was the duration of the event/deviation? ____ : ____ (hrs:min) or ____ days

(total # of hrs, min, or days, if intermittent then include only the duration of the actual emissions/deviation)

Reason for Notification (Please check only 1 box and go to the corresponding section.):

☐ Excess Emissions - Complete Section 1 and Certify

Note: All “excess emissions” are also “permit deviations.” However, use only Section 1 for events that involve excess emissions.

☐ Deviation from Permit Conditions - Complete Section 2 and Certify

Note: Use only Section 2 for permit deviations that do not involve excess emissions.

☐ Deviation from COBC³², CO³³, or Settlement Agreement - Complete Section 2 and Certify.

³¹ Revised as of July 22, 2020.

³² Compliance Order By Consent

³³ Compliance Order

Section 1. Excess Emissions

(a) **Was the exceedance** ☐ Intermittent or ☐ Continuous

(b) **Cause of Event** (Check one that applies. Complete a separate form for each event, as applicable.):

- | | |
|--|--|
| ☐ Start Up/Shut Down | ☐ Natural Cause (weather/earthquake/flood) |
| ☐ Control Equipment Failure | ☐ Scheduled Maintenance/Equipment Adjustments |
| ☐ Bad fuel/coal/gas | ☐ Upset Condition |
| ☐ Other _____ | |

(c) **Description**

Describe briefly what happened and the cause. Include the parameters/operating conditions exceeded, limits, monitoring data and exceedance. Attach supporting information if necessary.

(d) **Emissions Units (EU) Involved:**

Identify the emissions units involved in the event, using the same identification number and name as in the permit. Identify each emission standard potentially exceeded during the event and the exceedance.

EU ID	EU Name	Permit Condition Exceeded/Limit/Potential Exceedance

(e) **Type of Incident:** (Please check all that apply and provide the value requested, if any):

☐ Opacity _____ %

☐ Venting _____ (gas/scf)

☐ Control Equipment Down

☐ Fugitive Emissions

☐ Emission Limit Exceeded

☐ Marine Vessel Opacity

☐ Flaring

☐ Other: _____

(f) Corrective Actions:

Describe actions taken to restore the system to normal operation and to minimize or eliminate chances of a recurrence. Attach supporting information if necessary.

(g) Unavoidable Emissions:

Do you intend to assert that these excess emissions were unavoidable? ☐ YES ☐ NO

Do you intend to assert the affirmative defense of 18 AAC 50.235? ☐ YES ☐ NO

Certify Report (go to end of form)

(a) **Permit Deviation Type:** (Check all boxes that apply per event. Complete a separate form for each event, as applicable.)

- (b) Emissions Units (EU) Involved:**

[illegible]

Describe briefly what happened and the cause. Include the parameters/operating conditions and the potential deviation. Attach supporting information if necessary.

[illegible]

(d) Corrective Actions:

Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence. Attach supporting information if necessary.

Certification:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name: _____ Title _____ Date _____

Signature: _____ Phone number _____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 85.)*

Submit this report in accordance with the submission instructions on the Department's Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

If submitted online, report must be submitted by an authorized E-signer for the stationary source (according to Condition 85).

[18 AAC 50.346(b)(3)]

Section 14. Relocation Notification (Application Addendum)

Report any facility relocation according to the schedule of Condition 22.

Facility Information:

Permittee Name: _____ Permit No.: AQ _____

Facility Name: _____

Contact Person: _____ Telephone: _____

Make & Model of the Equipment/Stationary Source to be relocated: _____

Attach a complete list of equipment to be operated at the new location.

Relocation Type: Pre-Approved Location (Condition 22.1) ☐

New Location (Condition 22.2) ☐

Unexpected Breakdown or Repair (Condition 22.3) ☐

Location Name: _____

Estimated Operating Dates:

Estimated start-up date: _____ Estimated shut-down date: _____

Location Information:

New Plant Location (street address, milepost number, etc. – Include site maps):

Latitude _____ Longitude _____ (specify to at least four decimal degrees)

Distance from Plant boundary to nearest inhabited structure: _____ ft.

Nearest inhabited structure(s) are on (check one): ☐ flat terrain ☐ elevated terrain

If this distance is within one mile for an asphalt plant or 2,000 ft. for rock crushers, include with this addendum a dust control plan that is specific to this location and is adequate to prevent violations of Condition 71; Air Pollution Prohibited.

If the plant is to be located in a city or borough with zoning restrictions, please attach the location or siting approval documents from that city or borough to this form.

Comments: _____

Certification:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 85.)*

Submit this report in accordance with the submission instructions on the Department's Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

If submitted online, report must be submitted by an authorized E-signer for the stationary source (according to Condition 85).

[18 AAC 50.346(b)(10)]

Section 15. Semiannual Operating Report

Permittee Name: _____ Permit No.: AQ_____

Facility Name: _____

Reporting Period: ☐ 11/1/____ to 3/31/____ Due on April 30

☐ 4/1/____ to 10/31/____ Due on November 30

Did this plant operate during this reporting period?

☐ Yes (please complete form) ☐ No (complete the "Certification" section only)

Condition 4.1. Asphalt Plant Visible Emissions Reporting

Emissions Points observed: _____ (Baghouse or Wet Scrubber Stack)

Method 9 Observations Summary:

Number of days observations were made	
Highest 6-consecutive-minute average opacity	
Highest 18-consecutive-minute average opacity	
Dates when one or more six-consecutive minute average opacities were greater than 20 percent	

☐ All Method 9 Observation forms attached.

☐ A summary of any monitoring or recordkeeping required under Conditions 2 and 3 that was not done.

Condition 7. Diesel Engine Visible Emissions Reporting

Method used: ☐ Smoke/No Smoke Plan ☐ Method 9 ☐ Both

Smoke/No Smoke Plan Summary:

Number of days Smoke/No Smoke observations were made	
Number of days visible emissions were observed	

☐ Complete Smoke/No Smoke Log attached

Method 9 Observations Summary:

Number of days observations were made	
Highest 6-consecutive-minute average opacity	
Highest 18-consecutive-minute average opacity	
Dates when one or more six-consecutive minute average opacities were greater than 20 percent	

☐ All Method 9 Observation forms attached

☐ A summary of any monitoring or recordkeeping required under Conditions 5 and 6 that was not done.

Condition 8.8. Asphalt Plant Particulate Matter (PM) Emissions Standard Reporting

☐ Daily production log attached

Date of most recent PM source test: _____ Result of source test: _____ gr/dscf

Control Equipment Used: ☐ Baghouse ☐ Scrubber

Condition 12. Diesel Engine PM Reporting

☐ Yes, ☐ N/A: Summary of the results of any PM source test and visible emissions observations under Condition 10.

☐ Yes, ☐ N/A: Copies of any visible emissions observation results greater than the thresholds of Condition 10.2, if they were not already submitted.

☐ Yes, ☐ N/A: The stack diameter(s) of the stationary diesel engines in the next operating report following issuance of this permit.

Condition 15. Sulfur Compound Reporting for Fuel Oil

☐ Yes, ☐ N/A: A list of the fuel grades received at the stationary source.

☐ Yes, ☐ N/A: For any grade with a maximum fuel sulfur greater than 0.5 weight percent, the fuel sulfur of each shipment.

☐ Yes, ☐ N/A: The results of all fuel sulfur analyses conducted under Condition 14.1a or Condition 14.1b and documentation of the method(s) used to complete the analyses.

☐ Yes, ☐ N/A: For any fuel received with a sulfur content greater than 0.75 wt%S_{fuel}, the calculated SO₂ emissions in ppm calculated under Condition 14.3.

Condition 16.3. Sulfur Compound Reporting for Fuel Gas

☐ Yes, ☐ N/A: Include copies of the records required by Condition 16.2 (semiannual statement from fuel supplier or the sulfur content analysis), for the period covered by the report.

Condition 17.2. Sulfur Compound Reporting for North Slope Liquid Fuel

☐ Yes, ☐ N/A: Include a list of the sulfur content measured for each month covered by the report.

Condition 18.2. Sulfur Compound Reporting for Used Oil

☐ Yes, ☐ N/A: Include results of each used oil analysis as set out by condition 18.1a.

☐ Yes, ☐ N/A: For each batch of used oil fuel blended, the amounts of fuel oil and used oil; the blend ratio; the final sulfur content; and the blend date.

Condition 19.4. Insignificant Emissions Units Reporting

☐ Yes, ☐ N/A: Did an emissions unit that has historically been classified as insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) have current actual emissions greater than any of those thresholds?

Condition 21. Pollution Control Equipment Breakdown Reporting

☐ Yes, ☐ N/A: In the operating report provide a summary of any pollution control equipment breakdowns. The summary shall include: the equipment involved; the date of the breakdown; and the date the equipment was returned to service.

Conditions 23 – 24 . PSD Avoidance Limits for NO_x and CO

Asphalt plant type: ☐ Drum mix ☐ Batch mix

☐ Include monthly and 12 consecutive month total asphalt production for the stationary source under Conditions 23.2a and 23.2b.

☐ Yes, ☐ No: Does the asphalt plant include one or more stationary diesel-fired engines that does not qualify as a nonroad engine under 40 C.F.R. 89.2? If yes, include the following:

The monthly total stationary diesel-fired engine hours of operation for each emissions unit under Condition 24.1; and

The monthly and 12 consecutive month total NOx and CO emissions for the stationary source under Conditions 24.2c and 24.2d.

Condition 27. Ambient Air Quality Protection: Additional Restrictions for Bells Flats (Kodiak).

In any equipment operating at an Asphalt Plant in the Bells Flats area of Kodiak that burns liquid fuel, submit records of fuel burned and hours of operation in the operating report.

Condition 35.3. NSPS Subpart I Reporting

☐ Yes, ☐ N/A: Include results of any performance tests conducted to demonstrate compliance with the standards in Conditions 34.1 or 34.2.

Condition 40. NSPS Subpart III Reporting

☐ Yes, ☐ N/A: Include results of any performance tests conducted under Condition 36.6.

☐ Yes, ☐ N/A: Include records to demonstrate compliance with the fuel requirements in Condition 37.

☐ Yes, ☐ N/A: Upon initial startup, provide a copy of the records required in Conditions 39.6c or 39.6d in the next operating report.

☐ Yes, ☐ N/A: Include the method of compliance used to demonstrate compliance with Condition 39.3.

☐ Yes, ☐ N/A: Include the records required by Conditions 39.1 through 39.3.

Condition 49. NESHAP Subpart ZZZZ Reporting

☐ Yes, ☐ N/A: Include a report of Subpart ZZZZ deviations as defined in 40 C.F.R. 63.6675 and of each instance in which an applicable requirement in 40 C.F.R. 63, Subpart A (Table 8 of Subpart ZZZZ) was not met.

Condition 53. Rock Crusher Visible Emissions Reporting

☐ Yes, ☐ N/A: The emissions point with the highest continuous opacity identified in Condition 53.1a and monitored under 53.1b.

☐ Yes, ☐ N/A: All Method 9 Observation forms attached.

Method 9 Observations Summary:

Number of days observations were made	
Highest 6-consecutive-minute average opacity	
Highest 18-consecutive-minute average opacity	

Dates when one or more six-consecutive minute average opacities were greater than 20 percent	
--	--

☐ Yes, ☐ N/A: A summary of any monitoring or recordkeeping required under Condition 53 that was not done.

Conditions 60. NSPS Subpart OOO Reporting

☐ Yes, ☐ N/A: Has an existing facility been replaced by a piece of equipment of equal or smaller size, as defined in 40 C.F.R. 60.671, having the same function as the existing facility as laid out in Condition 56.2? If so, report the information required by Condition 60.1.

☐ Yes, ☐ N/A: All Method 9 readings and inspections records required under conditions 57.1 and 58.1.

Condition 67. Good Air Pollution Control Practice

☐ Yes, ☐ N/A: For an asphalt plant with a baghouse, submit a copy of the records required by Condition 67.2.

☐ Yes, ☐ N/A: For an asphalt plant with a wet scrubber, submit a copy of the records required by Condition 67.3.

Condition 71. Air Pollution Prohibited Reporting

Condition 71.3 brief summary report:

Number of complaints received	
The number of times the Permittee or the Department found corrective action necessary;	
The number of times action was taken on a complaint within 24 hours;	
The status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.	

Condition 88 Excess Emissions and Permit Deviations Reporting

☐ Yes, ☐ N/A: Excess emissions and/or permit deviations attached for events that occurred during the period covered by the report that were not already reported.

Condition 89. Operating Reports.

☐ Operating report must include all information required to be in operating reports by other conditions of this permit, for the period covered by the report.

☐ Yes, ☐ N/A: When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 89.1, the Permittee shall identify: the date of the excess emissions or permit deviation, the equipment involved, the permit condition effected, a description of the of the excess emissions or permit deviation; and any corrective action or preventive measures taken and the date(s) of such actions; **or** when excess emissions or permit deviation reports have already been reported under condition 88 during the period covered by the operating report, the Permittee

shall either include a copy of those excess emissions or permit deviation reports with the operating report; or cite the date(s) of those reports.

☐ Yes, ☐ N/A: For the period covered by the report, a listing of emissions monitored under Conditions 5.2c, 8.2c(i), and 10.2, which trigger additional testing or monitoring, whether or not the emissions monitored exceed an emission standard. The Permittee shall include in the report: the date of the emissions, the equipment involved, the permit condition affected, and the monitoring result which triggered the additional monitoring.

Condition 93. Nonroad Engines Log

☐ Yes, ☐ N/A: Report the information contained in Conditions 93.1 and 93.2. The Permittee may use the Nonroad Engine Location Log in Section 21 or a format of your own, provided all the required information is reported.

Certification:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 85.)*

Submit this report in accordance with the submission instructions on the Department's Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

If submitted online, report must be submitted by an authorized E-signer for the stationary source (according to Condition 85).

[18 AAC 50.346(b)(10)]

Section 16. Annual Compliance Report

Permittee: _____ Stationary Source Name: _____

Permit Number: _____ Period of Certification: _____

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 1 Industrial Process and Fuel Burning Equipment Visible Emissions	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate)	☐ Continuous ☐ Intermittent	☐ Opacity reading records ☐ No opacity readings in excess of standard ☐ Other (attach description & documentation)
Condition 2 Asphalt Plant Visible Emissions Monitoring	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate)	☐ Continuous ☐ Intermittent	☐ Opacity reading records ☐ No opacity readings in excess of standard ☐ Other (attach description & documentation)
Condition 3 Asphalt Plant Visible Emissions Recordkeeping	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate)	☐ Continuous ☐ Intermittent	☐ VE records kept ☐ Other (attach description & documentation)
Condition 4 Asphalt Plant Visible Emissions Reporting	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate)	☐ Continuous ☐ Intermittent	☐ VE records reported ☐ Other (attach description & documentation)
Condition 5 Diesel Engine Visible Emissions Monitoring	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ Opacity reading records ☐ No opacity readings in excess of standard ☐ Other (attach description & documentation)
Condition 5.1 Method 9 Plan	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ Opacity reading records ☐ No opacity readings in excess of standard ☐ Other (attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 5.2 Smoke/No Smoke Plan	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ Smoke readings kept ☐ Smoke/no smoke noted ☐ Other (attach description & documentation)
Condition 5.3 Corrective actions based on smoke/no smoke plan	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ Smoke records kept ☐ Corrective action resulted in no smoke ☐ Other (attach description & documentation)
Condition 6 Diesel Engine Visible Emission Recordkeeping	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ VE records kept ☐ Other (attach description & documentation)
Condition 7 Diesel Engine Visible Emission Reporting	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ VE records submitted ☐ Other (attach description & documentation)
Condition 8 Asphalt Plant PM Emission Standard and MR&R	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate)	☐ Continuous ☐ Intermittent	☐ Source test results submitted ☐ Source test requirement met, no testing required ☐ Other (attach description & documentation)
Condition 9 Diesel Engine PM Standard	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ EPA Method 5 source test ☐ Opacity limit not exceeded ☐ Other (attach description & documentation)
Condition 10 Diesel Engine PM Monitoring	☐ In Compliance ☐ Not In Compliance	☐ Continuous ☐ Intermittent	☐ EPA Method 5 source test accomplished ☐ VE Monitoring ☐ Other (attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
	☐ N/A (did not operate/no stationary engines)		
Condition 11 Diesel Engine PM Recordkeeping	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ Stack diameter reported in operating report ☐ Other (attach description & documentation)
Condition 12 Diesel Engine PM Reporting	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ EPA Method 5 source test records submitted ☐ VE Monitoring records submitted ☐ Other (attach description & documentation)
Condition 13 Sulfur Compound Emissions Standard Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate)	☐ Continuous ☐ Intermittent	☐ Fuel delivery records ☐ Fuel analysis ☐ Other (attach description & documentation)
Condition 14 Sulfur Compound Emissions Monitoring and Recordkeeping	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no fuel deliveries)	☐ Continuous ☐ Intermittent	☐ Fuel delivery records kept ☐ Fuel content test results obtained ☐ SO ₂ emissions calculated ☐ Other (attach description & documentation)
Condition 15 Sulfur Compound Emissions Reporting	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no fuel deliveries)	☐ Continuous ☐ Intermittent	☐ SO ₂ excess emissions reported (if any occurred) ☐ fuel grades reported ☐ fuel content of shipments reported (if sulfur content >0.5%) ☐ SO ₂ emissions reported (if sulfur content > 75%) ☐ Other (attach description & documentation)
Condition 16 Sulfur Monitoring for Emissions Units Using Fuel Gas	☐ In Compliance ☐ Not In Compliance	☐ Continuous ☐ Intermittent	☐ Fuel delivery records kept ☐ Fuel sulfur content did not exceed limit ☐ Reported as required

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
	☐ N/A (did not operate/no fuel gas deliveries)		☐ Other (attach description & documentation)
Condition 17 Sulfur Compound Emissions – North Slope Topping Plant	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no fuel deliveries)	☐ Continuous ☐ Intermittent	☐ Fuel delivery records kept ☐ Fuel sulfur content did not exceed limit ☐ Reported as required ☐ Other (attach description & documentation)
Condition 18 Used Oil in Diesel Engines	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no used oil combusted)	☐ Continuous ☐ Intermittent	☐ Fuel blending records kept ☐ Fuel sulfur content did not exceed limit ☐ Reported as required ☐ Other (attach description & documentation)
Condition 19 Insignificant Emissions Units	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no insignificant EUs)	☐ Continuous ☐ Intermittent	☐ Records review ☐ Other (attach description & documentation)
Condition 20 Pollution Control Equipment Maintenance Plan	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ All plan records kept ☐ plan submitted ☐ plan complied with ☐ Other (attach description & documentation)
Condition 21 Pollution Control Equipment Breakdown	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or attach explanation)	☐ Continuous ☐ Intermittent	☐ Department notified of equipment breakdown ☐ summary of breakdowns included in operating report ☐ No breakdowns occurred ☐ Other (attach description & documentation)
Condition 22 Relocation and Reporting of Site Selection	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not relocate or attach explanation)	☐ Continuous ☐ Intermittent	☐ Relocation notification submitted on time ☐ Relocation notification submitted but late ☐ Other (attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 23 Asphalt Production PSD Avoidance Limit	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate)	☐ Continuous ☐ Intermittent	☐ Records review of asphalt production ☐ Other (attach description & documentation)
Condition 24 Stationary Diesel Engine PSD Avoidance Limit	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no stationary engines)	☐ Continuous ☐ Intermittent	☐ Records review of asphalt production and stationary diesel engine operation ☐ Other (attach description & documentation)
Condition 25 General Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Records kept of distance between asphalt (and crushers) and the nearest inhabited structure. ☐ Other (attach description & documentation)
Condition 26 SO ₂ Special Protection Area	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate in these areas)	☐ Continuous ☐ Intermittent	☐ Fuel receipts kept showing that diesel used had sulfur content less than 0.075 wt% sulfur. ☐ Other (attach description & documentation)
Condition 27 SO ₂ Additional Restrictions in Kodiak	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate in these areas)	☐ Continuous ☐ Intermittent	☐ Fuel receipts kept showing that diesel used had sulfur content less than 0.4 wt% sulfur. ☐ Records of maximum of 13 hours of operation per day. ☐ Other (attach description & documentation)
Condition 28 NSPS Subpart A Notification	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/did not trigger)	☐ Continuous ☐ Intermittent	☐ Complied with all terms and conditions ☐ Other (attach description & documentation) ☐ Notifications submitted as required
Condition 29	☐ In Compliance ☐ Not In Compliance	☐ Continuous	☐ Complied with all terms and conditions

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
NSPS Subpart A Startup, Shutdown, and Malfunction	☐ N/A (did not operate/did not trigger)	☐ Intermittent	☐ Other (attach description & documentation)
Condition 30 NSPS Subpart A Performance Tests	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/did not trigger)	☐ Continuous ☐ Intermittent	☐ Complied with all terms and conditions ☐ Other (attach description & documentation)
Condition 31 NSPS Subpart A Good Air Pollution Control Practice	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no applicable subpart)	☐ Continuous ☐ Intermittent	☐ Complied with all terms and conditions ☐ Other (attach description & documentation)
Condition 32 NSPS Subpart A Concealment of Emissions	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no applicable subpart)	☐ Continuous ☐ Intermittent	☐ Complied with all terms and conditions ☐ Other (attach description & documentation)
Condition 33 NSPS Subpart I Applicability	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/no applicable subpart)	☐ Continuous ☐ Intermittent	☐ Complied with all terms and conditions ☐ Other (attach description & documentation)
Condition 34 PM Standards for Asphalt Plants subject to NSPS I	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Records of latest source tests kept on file. ☐ Method 9 observations. ☐ Other (attach description & documentation)
Condition 35 Performance Test for New Asphalt Plants	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Source test conducted within 60 days of achieving maximum production rate ☐ Source test conducted within 180 days of initial startup ☐ Source test requirement previously met

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
			☐ Unit not subject to NSPS ☐ Other (attach description & documentation)
Condition 36 NSPS Subpart IIII General Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary CI ICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 37 NSPS Subpart IIII Fuel Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary CI ICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 38 NSPS Subpart IIII Emission Standards	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary CI ICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 39 NSPS Subpart IIII Monitoring and Recordkeeping	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary CI ICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 40 NSPS Subpart IIII Reporting Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary CI ICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 41 NESHAP Subpart ZZZZ Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary RICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 42 NESHAP Subpart ZZZZ Requirements for Subpart IIII CI ICE	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary CI ICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 43 NESHAP Subpart ZZZZ Work and Management Practices	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary RICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 44 NESHAP Subpart ZZZZ Fuel Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary RICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 45 NESHAP Subpart ZZZZ General Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary RICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 46 NESHAP Subpart ZZZZ Operating Hour Limits for Emergency Engines	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary RICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 47 NESHAP Subpart ZZZZ Monitoring Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary RICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 48 NESHAP Subpart ZZZZ Recordkeeping Requirements	☐ In Compliance ☐ Not In Compliance	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
	☐ N/A (do not have applicable stationary RICE)		
Condition 49 NESHAP Subpart ZZZZ Reporting Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (do not have applicable stationary RICE)	☐ Continuous ☐ Intermittent	☐ Attach description & documentation)
Condition 50 40 C.F.R. Part 61 NESHAP	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/ did not trigger)	☐ Continuous ☐ Intermittent	☐ Records review
Condition 51 40 C.F.R. Part 82 Protection of Stratospheric Ozone	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/ did not trigger)	☐ Continuous ☐ Intermittent	☐ Records review
Condition 52 Rock Crusher Visible Emissions	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/do not have crusher)	☐ Continuous ☐ Intermittent	☐ Visible emission reading records ☐ Other (attach description & documentation)
Condition 53 Rock Crusher Visible Emissions MR&R	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/do not have crusher)	☐ Continuous ☐ Intermittent	☐ Visible emission reading records ☐ Other (attach description & documentation)
Condition 54 Rock Crusher Ambient Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/do not have crusher)	☐ Continuous ☐ Intermittent	☐ Records showing location relative to nearest residence or occupied structure is less than permit thresholds. ☐ Other (attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 55 Rock Crusher Public Access Control Plan	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/do not have crusher)	☐ Continuous ☐ Intermittent	☐ Public Access Control Plan is up-to-date and available for inspection. ☐ Other (attach description & documentation)
Condition 56 NSPS Subpart OOO Applicability	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/do not have crusher)	☐ Continuous ☐ Intermittent	☐ Source Test performed showing compliance w/ PM standards. ☐ Other (attach documents)
Condition 57 NSPS Subpart OOO Fugitive Emissions Limits	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/do not have crusher)	☐ Continuous ☐ Intermittent	☐ Source Test performed showing compliance w/ PM standards. ☐ Other (attach documents)
Condition 58 NSPS Subpart OOO Monitoring of Operations	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/do not have crusher)	☐ Continuous ☐ Intermittent	☐ Monitoring records kept as required ☐ Other (attach description & documentation)
Condition 59 NSPS Subpart OOO Test Methods and Procedures	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/do not have crusher)	☐ Continuous ☐ Intermittent	☐ Monitoring records kept as required ☐ Other (attach description & documentation)
Condition 60 NSPS Subpart OOO Recordkeeping and Reporting	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate/do not have crusher)	☐ Continuous ☐ Intermittent	☐ Required records kept ☐ Reporting requirements met ☐ Other (attach description & documentation)
Condition 61 General Conditions: Independent Terms and Conditions	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Reasonable inquiry ☐ Other (attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 62 General Conditions: Changes to Permit	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Reasonable inquiry ☐ Other (attach description & documentation)
Condition 63 General Conditions: Property Rights	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Reasonable inquiry ☐ Other (attach description & documentation)
Condition 64 Administration fees.	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Permit administration fees paid ☐ Other (attach description & documentation)
Condition 65 Assessable emissions	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Assessable emissions calculations kept on file. ☐ Other (attach description & documentation)
Condition 66 Assessable Emission Estimates	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Assessable Emission Estimates submitted ☐ Other (attach description & documentation)
Condition 67 Good Air Pollution Control Practices	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or attach explanation)	☐ Continuous ☐ Intermittent	☐ Regular maintenance performance and records kept ☐ Other required records kept ☐ Other (attach description & documentation)
Condition 67.2 Baghouse Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or uses wet scrubber scrubber)	☐ Continuous ☐ Intermittent	☐ Inspections performed and records kept ☐ damaged parts replaced ☐ operating parameters monitored and recorded ☐ Other (attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 67.3 Wet Scrubber Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or uses baghouse)	☐ Continuous ☐ Intermittent	☐ Inspections performed and records kept ☐ damaged parts replaced ☐ operating parameters monitored and recorded ☐ Other (attach description & documentation)
Condition 68 Dilution	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate)	☐ Continuous ☐ Intermittent	☐ Reasonable inquiry ☐ Other (attach description & documentation)
Condition 69 Reasonable Precautions to Prevent Fugitive Dust	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or attach explanation)	☐ Continuous ☐ Intermittent	☐ All reasonable precautions taken ☐ Fugitive dust plan complied with ☐ Other (attach description & documentation)
Condition 70 Stack Injection	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ No other materials were released or directed into the exhaust other than process materials ☐ Other (attach description & documentation)
Condition 71 Air Pollution Prohibited	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Record kept of complaints ☐ Complaints investigated and corrective action taken as necessary ☐ Other (attach description & documentation)
Condition 72 Technology Based Emission Standard	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or did not have applicable EUs)	☐ Continuous ☐ Intermittent	☐ Records review ☐ No reports required ☐ Other (attach description & documentation)
Condition 73 Open Burning	☐ In Compliance ☐ Not In Compliance	☐ Continuous	☐ Complied with all terms and conditions

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
	☐ Compliance ☐ N/A (no open burning occurred)	☐ Intermittent	☐ Other (attach description & documentation) ☐ Reports kept as required
Condition 74 Requested source tests	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or no source testing)	☐ Continuous ☐ Intermittent	☐ Source test records ☐ No source tests were requested ☐ Other (attach description & documentation)
Condition 75 Operating Conditions	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or no source testing)	☐ Continuous ☐ Intermittent	☐ Source tests records ☐ No source tests were conducted ☐ Other (attach description & documentation)
Condition 76 Reference Test Methods	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or no source testing)	☐ Continuous ☐ Intermittent	☐ Source tests records ☐ No source tests were conducted ☐ Other (attach description & documentation)
Condition 77 Excess Air Requirement	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or no source testing)	☐ Continuous ☐ Intermittent	☐ Source tests records ☐ No source tests were conducted ☐ Other (attach description & documentation)
Condition 78 Test Exemption	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	N/A
Condition 79 Test Deadline Extension	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or source test)	☐ Continuous ☐ Intermittent	☐ Records kept for source tests extension granted ☐ No source tests were conducted or did not require an extension ☐ Other (attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 80 Test Plans	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or source test)	☐ Continuous ☐ Intermittent	☐ Source test plan submittal records ☐ No source tests were conducted ☐ Other (attach description & documentation)
Condition 81 Test Notification	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or source test)	☐ Continuous ☐ Intermittent	☐ Source test notification records ☐ No source tests were conducted ☐ Other (attach description & documentation)
Condition 82 Test Reports	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or source test)	☐ Continuous ☐ Intermittent	☐ Source test report submittal records ☐ No source tests were conducted during this annual certification period ☐ Other (attach description & documentation)
Condition 83 Particulate Matter Calculations	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or source test)	☐ Continuous ☐ Intermittent	☐ Records review ☐ No source tests were conducted during this annual certification period ☐ Other (attach description & documentation)
Condition 84 Recordkeeping Requirements	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Records kept as required ☐ Other (attach description & documentation)
Condition 85 Certification	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ All reports/records certified by responsible official ☐ Other (attach description & documentation)
Condition 86 Submittals	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ All reports submitted according to Department submission instructions ☐ Other (attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 87 Information Requests	☐ In Compliance ☐ Not In Compliance ☐ N/A (no requests received)	☐ Continuous ☐ Intermittent	☐ Copies of information submitted kept on file. ☐ No information requests were made ☐ Other (attach description & documentation)
Condition 88 Excess Emissions and Permit Deviations	☐ In Compliance ☐ Not In Compliance ☐ N/A (did not operate or no deviations)	☐ Continuous ☐ Intermittent	☐ All reports were signed by a responsible official ☐ All permit deviations/excess emissions reported ☐ No excess emissions/permit deviations occurred ☐ Other (attach description & documentation)
Condition 89 Operating Reports	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Operating reports submitted and signed by responsible official ☐ Operating reports submitted on time ☐ Other (attach description & documentation)
Condition 90 Annual Compliance Certification	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Annual compliance certification submitted and signed by responsible official ☐ Annual compliance certification submitted on time ☐ Other (attach description & documentation)
Condition 91 Emission Inventory Reporting	☐ In Compliance ☐ Not In Compliance ☐ N/A (Not a triennial reporting year)	☐ Continuous ☐ Intermittent	☐ Triennial emission inventory reported ☐ Triennial emission inventory required but not reported ☐ Not a triennial emission inventory year (21,22, 24...) ☐ Other (attach description & documentation)
Condition 92	☐ In Compliance ☐ Not In	☐ Continuous	☐ NSPS reports submitted

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
NSPS and NESHAP Reports	Compliance ☐ N/A (no reports required)	☐ Intermittent	☐ NESHAP reports submitted ☐ No NSPS or NESHAP reports were required ☐ Other (attach description & documentation)
Condition 93 Nonroad Engines	☐ In Compliance ☐ Not In Compliance ☐ Not applicable (no nonroad engines)	☐ Continuous ☐ Intermittent	☐ Nonroad engine location log submitted on time ☐ No nonroad engines
Condition 94 Permit Application and Submittals	☐ In Compliance ☐ Not In Compliance ☐ Not applicable (no submittals)	☐ Continuous ☐ Intermittent	☐ All permit and applications and submittals submitted as required ☐ No submittals required ☐ Other (attach description & documentation)
Condition 95 Emissions Trading	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Reasonable inquiry ☐ Other (attach description & documentation)
Condition 96 Off Permit Changes	☐ In Compliance ☐ Not In Compliance ☐ N/A (no changes or attach other explanation)	☐ Continuous ☐ Intermittent	☐ Records review ☐ Other (attach description & documentation)
Condition 97 Operational Flexibility	☐ In Compliance ☐ Not In Compliance ☐ N/A (no changes or attach other explanation)	☐ Continuous ☐ Intermittent	☐ Records review ☐ Other (attach description & documentation)
Condition 98 Permit Renewal	☐ In Compliance ☐ Not In Compliance ☐ N/A (no application due)	☐ Continuous ☐ Intermittent	☐ Renewal permit submitted on time ☐ Renewal permit submitted late or not submitted ☐ Other (attach description & documentation)

PERMIT CONDITIONS			
Condition Number and Description	Compliance Status	Continuous/ Intermittent	Method to determine compliance
Condition 99 Compliance with permit terms	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Complied with all terms and conditions ☐ Other (attach description & documentation)
Condition 100 Compliance with each permit term and condition	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Complied with all terms and conditions ☐ Other (attach description & documentation)
Condition 101 Not a defense	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Did not operate in violations of the limits of the permit ☐ Other (attach description & documentation)
Condition 102 Each permit term and condition is independent	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Complied with all terms and conditions ☐ Other (attach description & documentation)
Condition 103 The permit may be modified	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Permit not modified ☐ Other (attach description & documentation)
Condition 104 No property rights	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Did not assume any property rights with regards to the permit ☐ Other (attach description & documentation)
Condition 105 Inspector access provided on request	☐ In Compliance ☐ Not In Compliance ☐ N/A (attach explanation)	☐ Continuous ☐ Intermittent	☐ Granted access ☐ No inspector requested access ☐ Other (attach description & documentation)
Condition 106 Applicable requirements during permit term	☐ In Compliance ☐ Not In Compliance ☐ N/A (permit not due for renewal)	☐ Continuous ☐ Intermittent	☐ Permit Renewal Application submitted ☐ Permit renewal not due ☐ Other (attach description & documentation)

Certification:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

NOTE: This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 85.)

Submit this report in accordance with the submission instructions on the Department's Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

If submitted online, report must be submitted by an authorized E-signer for the stationary source (according to Condition 85).

Section 17. Air Emissions Calculation Guide

The Permittee is required to pay to the Department an annual emission fee based on the Stationary Source's assessable emissions for each year it is subject to this permit. The emission fee is assessed per ton for each air pollutant for which projected emissions are 10 tons per year (TPY) or greater, except as limited in AS 46.14.250(e).

Emission fees are assessed from July 1st through the following June 30th for each year.

The quantity of emissions for which fees will be assessed is the lesser of the Stationary Source's potential to emit; or the projected annual rate of emissions, as that term is used in AS 46.14.250, if demonstrated by an enforceable test method described in 18 AAC 50.220, material balance calculations, emission factors from EPA's publication AP-42, *Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition with Supplements A – E*, as amended through September 1999 adopted by reference in 18 AAC 50.035; or other methods and calculations approved by the Department.

The Permittee may use alternative calculation methodologies provided the Department approves such calculation methodology. The Permittee may also use emission factors based upon the latest source test provided the source test has been approved by the Department. The calculations shall be recorded and kept on site for a minimum of five years, and the calculations shall clearly reflect the emission factors used. If emission factors based upon manufacturer's data are used, attach the manufacturer's data to the calculations.

As an alternative to this Section, the Permittee may use the GP3 Assessable Emissions Spreadsheet on the Department's website; <https://dec.alaska.gov/air/air-permit/general-permits/>.

Air Emissions from the Asphalt Plant:

Calculate the actual emissions from the Asphalt Plant for NO_x, CO, SO₂, PM-10, and VOC in TPY using Equation 5 below.

Report the actual emissions in the Emission Reporting and Emission Fee Estimate form, provided in Attachment 1, in the column labeled "Asphalt Plant."

Attach the calculations for all pollutants calculated to the Emission Reporting and Emission Fee Estimate form.

Air Emissions from Stationary Diesel Engine Generator/s:

Calculate the actual emissions from the stationary diesel engine generator/s for NO_x, CO, SO₂, PM-10, and VOC in tpy using either Equation 6 or Equation 7 below.

Report the actual emissions in the Emission Reporting and Emission Fee Estimate form, provided in Attachment 1, in the column for the "Diesel Generator."

Attach the calculations for all pollutants calculated to the form contained in Emission Reporting and Emission Fee Estimate form.

If your facility operates more than one stationary diesel engine, add the totals for all the diesel engines of the same category (smaller or larger than 600 hp) together before entering them in the appropriate column.

Air Emissions from Rock Crushers:

Calculate the actual emissions from rock crushing equipment for PM-10 in TPY using Equation 8 below.

Report the actual emissions in the Emission Reporting and Emission Fee Estimate form, provided in Attachment 1, in the column labeled “Rock Crusher.”

Attach the calculations for all pollutants calculated to the Emission Reporting and Emission Fee Estimate form.

Assessable Emissions Fee Estimate:

Add the pollutant from each column (Asphalt Plant, Diesel Generator(s) and Rock Crusher(s)) of the Emission Reporting and Emission Fee Estimate form together. If the total equals or exceeds 10 tpy, enter that amount in the column labeled “Assessable Emissions”.

Submit the form to the Department no later than March 31st of each year.

Equation 5

$E = (EF \times \text{tons of asphalt produced}) / 2,000 \text{ lb per ton}$

Where:

E = Emissions per year in tons (TPY)

EF = pollutant emission factor in lb/ton of asphalt produced

Emission Factors for Batch Mix Hot Mix Asphalt Plants (lb/ton of asphalt processed)

Process	CO	NO _x	SO ₂	PM-10 ³⁴	PM-10 ³⁵	VOC
Natural gas-fired dryer, hot screens, and mixer	0.40	0.025	0.0046	0.027	0.14	0.0082
No. 2 fuel oil-fired dryer, hot screens, and mixer	0.40	0.12	0.088	0.027	0.14	0.0082

Emission factor units are lb per ton of hot mix asphalt produced. The preceding emission factors were compiled from AP42, 5th Edition, Tables 11.1-1, 11.1-5, & 11.1-6.

³⁴ Emissions controlled with a fabric filter (baghouse)

³⁵ Emissions controlled with a wet scrubber. Emission factor of 0.14 corresponds to total PM under AP-42. Upon approval from the Department, Permittee may use alternative emission factors including but not limited to those provided by the equipment manufacturer or data derived from a recent source test.

Air Emission Factors from Drum Mix Hot Mix Asphalt Plants (Continuous)

Process	CO	NO _x	SO ₂	PM-10 ³⁶	PM-10 ³⁷	VOC
Natural gas-fired dryer, hot screens, and mixer	0.13	0.026	0.0034	0.023	0.045	0.032
No. 2 fuel oil-fired dryer, hot screens, and mixer	0.13	0.055	0.011	0.023	0.045	0.032

Emission factor units are lb per ton of hot mix asphalt produced. The preceding emission factors were compiled from AP42, 5th Edition, Tables 11.1-3, 11.1-7, & 11.1-8.

Equation 6

$$E = (EF \times \text{Hp} \times \text{Hours of operation}) / 2,000 \text{ lb per ton}$$

Where:

E = Emissions per year in tons (TPY)

EF = emission factor

HP= horsepower of unit

Hours of operation = hours of engine operation

lb per ton = 2,000

Equation 7

$$E = (EF \times \text{MMBtu}) / 2,000 \text{ lb per ton}$$

Where:

E = Emissions per year in tons (TPY)

EF = emission factor

MMBtu = MMBtu of diesel consumed

lb per ton = 2,000

Emission Factors for Diesel Engines less than or equal to 600 hp

Pollutant	CO	NO _x	SO ₂	PM-10	VOC
Emission factor (lb/hp-hr) power output	6.68 E -03	0.031	2.05 E -03	2.20 E -03	2.47 E -03
Emission factor (lb/MMBtu) fuel input	0.95	4.41	0.29	0.31	0.35

The preceding emission factors were compiled from AP42, 5th Edition, Table 3.3-1.

³⁶ Emissions controlled with a fabric filter (baghouse)

³⁷ Emissions controlled with a wet scrubber (ND indicates there was no data for a PM10 emission factor. Facilities may use the PM emission factor of 0.045 for total PM or use data from the manufacturer or source test data when computing PTE for plants using a wet scrubber.)

Emission Factors for Large Diesel Engines more than 600 hp Diesel Fuel, Uncontrolled Emissions

Pollutant	CO	NO _x	SO ₂ ³⁸	PM-10	VOC
Emission factor (lb/hp-hr) power output	5.5 E-03	0.024	8.09 E-03S ₁	0.0007	7.05 E-04
Emission factor (lb/MMBtu) fuel input	0.85	3.2	1.01S ₁	0.1	0.09

The preceding emission factors were compiled from AP42, 5th Edition, Table 3.4-1.

Emission Factors for Large Diesel Engines more than 600 hp Diesel Fuel, Controlled Emissions³⁹

Pollutant	CO	NO _x	SO ₂ ³⁸	PM-10	VOC
Emission factor (lb/hp-hr) power output	5.5 E-03	0.013	8.09 E-03S ₁	0.0007	7.05 E-04
Emission factor (lb/MMBtu) fuel input	0.85	1.9	1.01S ₁	0.1	0.09

The preceding emission factors were compiled from AP42, 5th Edition, Table 3.4-1.

Emission Factors for Large Diesel Engines more than 600 hp Duel Fuel, Uncontrolled

Pollutant	CO	NO _x	SO ₂ ⁴⁰	PM-10	VOC
Emission factor (lb/hp-hr) power output	7.5 E-03	0.018	4.06 E-04S ₁ +9.57 E-03S ₂	ND	5.29 E-03
Emission factor (lb/MMBtu) fuel input	1.16	2.7	0.05S ₁ + 0.895S ₂	ND	0.8

The preceding emission factors were compiled from AP42, 5th Edition, Table 3.4-1.

Note: AP-42 did not list an emission factor for controlled NO_x emissions for Duel-Fired Large Diesel Engine.

Equation 8

$$E = (EF \times \text{tons of rock crushed}) / 2,000 \text{ lb per ton}$$

Where:

E = Emissions per year in tons (TPY)

EF = pollutant emission factor in lb/ton of rock crushed

lb per ton = 2,000

³⁸ Assumes that all sulfur in the fuel is converted to SO₂. S₁ = % sulfur in fuel oil. For example, if sulfur content is 1.5%, S = 1.5.

³⁹ References 8-26. Controlled NO_x is by ignition timing retard.

⁴⁰ Assumes that all sulfur in the fuel is converted to SO₂. S₁ = % sulfur in fuel oil; S₂ = % sulfur in natural gas. For example, if sulfur content is 1.5%, S = 1.5.

Emission Factors for Crushed Stone Processing (lb/ton of stone crushed)

	Primary and Secondary Crushing	Tertiary Crushing	Fines Crushing	Screening	Fines Screening	Conveyor Transfer Point ⁴¹	Aggregate Handling and Storage Piles ⁴²
PM	None	0.0054	0.0390	0.025	0.30	0.0030	0.11
PM-10	None	0.0024	0.0150	0.0087	0.072	0.00110	0.05

*Emission factor units are lb per ton of stone processed. The preceding emission factors were compiled from AP-42, 5th Edition, Table 11.19.2-2 and Equation 1 of Chapter 13.2.4.**

() This emission factor conservatively assumed 10 mph wind speed and 0.25 percent moisture content.*

⁴¹ This emission factor of 0.0011 lb/ton of stone processed is per conveyor drop point. To calculate total emissions from the number of conveyors (NoC) use the equation: Emissions (tons) = (NoC x 2 transfer points per conveyor) x 0.0011 lb/ton of rock processed x tons of rock processed / 2000 lb per ton.

⁴² This emission factor conservatively assumed 10 mph wind speed and 0.25 percent moisture content. PM-10 uses k of 0.35 and total PM uses k of 0.74, AP-42 Chapter 13.2.4.3.

FUGITIVE OR SMOKE EMISSION INSPECTION OUTDOOR LOCATION																																										
Company _____		Observer _____																																								
Location _____		Affiliation _____																																								
Company Rep. _____		Date _____																																								
Sky Conditions _____		Wind Direction _____																																								
Precipitation _____		Wind Speed _____																																								
Sketch process unit: indicate observer position relative to source; indicate potential emission points and/or actual emission points.																																										
Observations <table border="1"> <thead> <tr> <th></th> <th>Clock Time</th> <th>Observation period duration, min:sec</th> <th>Accumulated emission time, min:sec</th> </tr> </thead> <tbody> <tr> <td rowspan="10">Begin Observation</td> <td></td> <td></td> <td></td> </tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr> <td rowspan="2">End Observation</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Clock Time	Observation period duration, min:sec	Accumulated emission time, min:sec	Begin Observation																															End Observation			
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Section 19. Fugitive Dust Control Plan

Overview

The Fugitive Dust Control Plan has been designed to control the fugitive dust emissions from asphalt plant and crusher related activities. The Plan is required for all GP3 sources that fall under the setback requirements of Condition 69.2 to ensure that reasonable precautions to prevent fugitive dust are taken. A sample plan can be found at the end of this section. Fugitive dust emissions sources covered by this fugitive dust control plan include:

- haul roads;
- crushing circuit conveyor drop points;
- Primary, secondary, and tertiary crushers;
- Organic soil stockpiles;
- Waste rock and overburden piles

Active Fugitive Dust Controls

The main fugitive dust sources that will require active fugitive dust controls are haul roads. As deemed necessary, or as requested by the Department, fugitive dust emissions from haul roads will be controlled primarily by watering the haul roads when daily minimum ambient air temperatures are consistently above 32° Fahrenheit (F). To improve the effectiveness of haul road watering, hygroscopic dust suppressants (e.g., calcium and/or magnesium chloride) will be used when watering haul roads as needed. Haul roads will not be watered when daily minimum ambient air temperatures is below 32° F to avoid creating icy conditions on haul roads which create a safety hazard.

Passive Fugitive Dust Controls

Fugitive dust sources that rely on passive fugitive dust controls to reduce fugitive dust controls include: crushing circuit conveyor drop points, primary, secondary, and tertiary crushers and associated transport and screening operations, organic soil stockpiles, and waste rock and overburden piles.

As deemed necessary, or as requested by the Department, fugitive dust emissions from crushing circuit drop points will be minimized by enclosing crushing circuit drop points and or installing water sprays to capture dust. Once the enclosures are installed on the conveyor drop points, the Permittee will perform maintenance to the enclosures to reduce fugitive dust emissions from conveyor drop points. The Permittee will minimize drop distances as deemed practical to minimize fugitive dust emissions.

As deemed necessary, or as requested by the Department, fugitive dust emissions from organic soil stockpile will be controlled by tilling and seeding the organic soil stockpiles. The organic soil stockpiles will be vegetated to reduce the loss of organic soil to both water and wind erosion. Once the organic soil stockpiles have been vegetated, activities to maintain vegetative cover such as watering or fertilizing will be undertaken as necessary.

As deemed necessary, or as requested by the Department, fugitive dust control for the crushing activities covered by this permit will utilize both active and passive methods to control fugitive dust emissions from operations. Active methods of fugitive dust control will require ongoing

actions to be effective for fugitive dust control. Passive methods of fugitive dust control will not require ongoing actions but periodic observations to verify that a passive fugitive dust control method is still effective. Regardless as to whether an active or passive method is chosen to control fugitive dust emissions from a potential fugitive dust source, regular evaluations shall be conducted by the Permittee to determine if a selected fugitive dust control method continues to be effective.

Monitoring and Recordkeeping

Upon request from the Department, perform US EPA Method 22 observations on fugitive dust/smoke sources using the form in Fugitive Emission Inspection *Form* in Section 18.

A sample fugitive dust control plan is on the following page. This plan may be filled out and used for a GP3 source. You are not required to use the sample form, but similar information contained in the sample form should be included in your plan. If you already have a plan developed or you wish to develop your own plan, the following items should be addressed:

- Points capable of producing fugitive emissions;
- Control of fugitive dust sources, such as:
 - Water application;
 - Dust suppressants;
 - Wind barriers;
 - Hoods, covers, or enclosures;
 - Cleanup of loose materials;
 - Minimizing drop distances and lowering loader buckets before dumping;
 - Fans;
 - Dust collectors;
- Methods to prevent trackout or carryout, such as:
 - Grizzlies or grates;
 - Gravel pads;
 - Paved surfaces;
 - Wheel washers;
 - Truck washing.

Fugitive Dust Control Plan

Please note, it is the responsibility of the Permittee to ensure that no part of their fugitive dust control plan violates any local, state, or federal law.

Section 1 – General Information

1-A Facility Information	
Company Name:	
Plant Name:	
Permit No.:	
1-B Contacts	
Report the names, address, and phone numbers of persons and owners or operators responsible for the implementation of the Dust Control Plan and responsible for the dust generating operation and dust control applications.	
<i>Responsible Official</i> (authorized under 18 AAC 50.990(93))	
Name:	
Phone Number:	
<i>On-site Manager/Operator or Point of Contact</i> (if different from above)	
Name:	
Phone Number:	
1-C Recordkeeping and Reporting	
Keep copy of Fugitive Dust Control Plan on-site at all times. Keep records of deviations from dust plan, reasons for the deviation, and corrective actions taken for at least five years.	

Section 2 – Fugitive Emission Points

2-A Fugitive Emission Points
Identify the relative locations of actual and potential sources of fugitive dust emissions.
☐ Bulk material handling and storage areas. ☐ Paved and unpaved access roads, haul roads, traffic areas, and equipment storage yards. ☐ Exit points where carryout and trackout onto paved public roads may occur. ☐ Water supply locations if water application will be used for controlling visible dust emissions. ☐ Rock crushing operations. ☐ Screening ☐ Conveyors ☐ Fines Screening ☐ Asphalt plant operations ☐ Screening ☐ Conveyors ☐ Baghouse Catch ☐ Drum Mixer Discharge ☐ Hot mix storage silo receiving point
2-B Comments – Fugitive Emission Points

Section 3 – Control of Fugitive Dust Sources

3-A Control of Fugitive Dust Sources Check any boxes that apply. Checked boxes represent methods that will be used <i>as needed</i>. <i>Active Operations</i> ☐ Water will be applied to dry areas during leveling, grading, trenching, and earthmoving activities. ☐ Wind barriers will be constructed and maintained, and water or dust suppressants will be applied to the disturbed surface areas. <i>Inactive Operations, including after work hours, weekends, and holidays</i> ☐ Not applicable for this project (Please explain why in Section 3-C). ☐ Water or dust suppressants will be applied on disturbed surface areas to form a visible crust, and vehicle access will be restricted to maintain the visible crust. <i>Sites Inactive for Seven or More Days</i> ☐ Not applicable for this project (Please explain why in Section 3-C). ☐ Vehicle access will be restricted and water/dust suppressants will be applied at all un-vegetated areas. ☐ Vegetation will be established on all previously disturbed areas. ☐ Gravel will be applied and maintained at all previously disturbed areas. ☐ Previously disturbed areas will be paved. <i>Unpaved Access and Haul Roads, Traffic and Equipment Storage Areas</i> ☐ Not applicable for this project (Please explain why in Section 3-C). ☐ Apply water or dust suppressants to unpaved haul and access roads. ☐ Post speed limit signs of not more than 15 mph at each entrance, and again every 500 ft. ☐ Water or dust suppressants will be applied to vehicle traffic and equipment storage areas. <i>Wind Events</i> ☐ Water application equipment will apply water to control fugitive dust during wind events, unless unsafe to do so. Outdoor construction activities that disturb the soil will cease whenever visible dust emissions cannot be effectively controlled.
3-B Bulk Materials Check any boxes that apply. Checked boxes represent methods that will be used <i>as needed</i>. <i>Outdoor Handling of Bulk Materials</i> ☐ Water or dust suppressants will be applied when handling bulk materials. ☐ Wind barriers with less than 50 percent porosity will be installed and maintained, and water or dust suppressants will be applied. <i>Outdoor Storage of Bulk Materials</i> ☐ Water or dust suppressants will be applied to storage piles. ☐ Storage piles will be covered with tarps, plastic, or other suitable material and anchored in such a manner that prevents the cover from being removed by wind actions. ☐ Wind barriers with less than 50 percent porosity will be installed and maintained around the storage piles and water or dust suppressants will be applied. ☐ A three-sided structure (< 50% porosity) will be used that is at least as high as the storage piles. <i>On-Site Transporting of Bulk Materials</i> ☐ Vehicle speed will be limited on the work site. ☐ All haul trucks will be loaded such that the freeboard is not less than six inches when transported across any paved public access road. ☐ A sufficient amount of water will be applied to the top of the load to limit visible dust emissions. ☐ Haul trucks will be covered with a tarp or other suitable cover.

Section 3 – Control of Fugitive Dust Sources (cont.)

3-B Bulk Materials - continued

Off-Site Transporting of Bulk Materials

- ☐ No bulk materials will be transported to or from the project site.
- ☐ Materials for transport will be wetted as needed.
- ☐ Covers will be used, as needed. Some or all of the following will be used as necessary:
- The interior of emptied truck cargo compartments will be cleaned or covered before leaving the site.
 - Spillage or loss of bulk materials from holes or other openings in the cargo compartment's floor, sides, and tailgates will be prevented.
 - Haul trucks will be covered with a tarp or other suitable cover or will be loaded such that the freeboard is not less than six inches when transported on any paved public access road to or from the project site.

Outdoor Transport using a Chute or Conveyor

- ☐ No chutes or conveyors will be used.
- ☐ Chute or conveyor will be fully enclosed.
- ☐ Water spray equipment will be used to sufficiently wet the materials.
- ☐ Transported materials will be washed or screened to remove fines (PM-10 or smaller).

3-C Comments – Control of Fugitive Dust Sources

Section 4 – Dust Control Methods

4-A Water Application

Complete this section if water application will be used as a control method for limiting visible dust emissions and stabilizing surface areas. Check and answer everything that applies. Checked boxes represent methods that will be used **as needed**.

Water Application Equipment:

- ☐ Sprinklers:
Describe the activities that will utilize sprinklers: _____
- ☐ Water Truck, ☐ Water Trailer, ☐ Water Wagon, ☐ Other: _____
Describe the activities that will utilize this equipment: _____

Water application equipment is available to operate after normal working hours, on weekends, and holiday.
After-hours contact: _____ Phone number: _____

Water Supply (as needed):

- ☐ Fire hydrants. Obtain necessary approval to use specific hydrants.
- ☐ Storage tanks Number and capacity: _____
- ☐ Wells Number and flow rate: _____
- ☐ Canal, River, Pond, Lake, etc. Describe: _____
- Approval granted by the owner or public agency to use their water source for this project.
Owner or Agency: _____
Contact: _____ Phone number: _____
- ☐ Other: _____

Section 4 – Dust Control Methods (cont.)

4-B Dust Suppressant Products

Suppressant materials include, but are not limited to: hygroscopic suppressants (road salts), adhesives, petroleum emulsions, polymer emulsions, and bituminous material (road oils).

Copy this section if more than one dust suppressant product will be used.

☐ Not applicable. Only water application will be the control method used.

☐ Applicable.

Product Name: _____

Application Equipment: _____

Number of Application Equipment Available: _____

Attach each of the following information that fully describes this product. Use the checklist below to make sure all information is submitted with this plan.

☐ Product Specifications (MSDS, Product Safety Data Sheet, etc.).

☐ Manufacturer's Usage Instructions (method, frequency, and intensity of application).

☐ Environmental impacts and approvals or certifications related to the appropriate and safe use for ground application.

4-C Other Dust Control Methods

Check the other types of dust control methods that will be implemented at the construction site.

☐ Physical barriers for restricting unauthorized vehicle access:

☐ Fences ☐ Gates ☐ Posts ☐ Berms ☐ Concrete Barriers

☐ Other: _____

☐ Wind barriers – Describe: _____

☐ Posted speed limit signs meet state and Federal Department of Transportation standards.

☐ Posted at 15 miles per hour, ☐ Posted at _____ miles per hour (less than 15 mph)

☐ Re-establish vegetation for temporarily stabilizing previously disturbed surfaces.

Explain: _____

☐ Apply and maintain gravel:

☐ On haul roads ☐ On access roads ☐ At equipment storage yards

☐ At vehicle traffic areas ☐ For temporarily stabilizing previously disturbed areas.

Explain: _____

☐ Apply pavement – Explain: _____

☐ Other: _____

4-D Comments – Dust Control Methods

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Section 5 – Carryout and Trackout

5-A Treatments for Preventing Trackout

Trackout is any material that adheres to vehicle tires and is deposited onto a paved public road or the paved shoulder of a paved public road. Check one or a combination that will apply.

☐ *Grizzly*: Rails, pipes, or grates used to dislodge debris off of vehicles before exiting the site. Extends from the intersection with the paved public road surface for the full width of the unpaved exit surface for the distance of at least 25 feet.

Describe: _____

☐ *Gravel Pad*: A layer of washed gravel at least one inch or larger in diameter, three inches deep, and extends from the intersection with the public paved road surface for the full width of the unpaved exit surface for a distance of at least 50 feet.

Describe: _____

☐ *Paved Surface*: Extends from the intersection with the paved public road surface for the full width of the unpaved access road for at least 100 feet to allow mud and dirt to drop off of vehicles before exiting the site.

Describe: _____

Mud and dirt deposits accumulating on paved interior roads will be removed with sufficient frequency, but not less frequently than once per workday.

Clean-up Frequency: _____

☐ *Wheel Washer*: Uses water to dislodge debris from tires and vehicle undercarriage.

Describe: _____

☐ *Other*: _____

5-B Treatments for Preventing Carryout

Carryout occurs when materials from emptied or loaded haul trucks, vehicles, or trailers falls onto a paved public road or paved shoulder of a paved public road. Check all methods that apply.

☐ No haul trucks will be routinely entering or leaving the project site.

Emptied Haul Trucks:

☐ Interior cargo compartments will be cleaned before leaving the project site.

☐ Cargo compartment will be covered with a tarp or suitable cover before leaving the project site.

Loaded Haul Trucks: Spillage or loss of materials from holes or other opening in the cargo compartment will be prevented when material is transported onto any paved public access road.

☐ Haul trucks will be loaded such that the freeboard is not less than six inches with water applied to the top of the load before leaving the project site.

☐ Cargo compartment and load will be covered with a tarp or suitable cover before leaving the project site.

☐ Other: _____

5-C Cleaning up Carryout and Trackout

Clean up Method: Check the method(s) below that will be used for cleaning carryout and trackout.

☐ Manually sweeping and picking up.

☐ Mechanical sweeping with a rotary brush or broom accompanied or preceded by water.

Describe the types of equipment that will be used: _____

☐ Operating a PM10-efficient street sweeper.

Make and Model: _____

☐ Flushing with water – allowed if: _____

- No curbs or gutters are present.
- Using water will not result as a source of trackout and carryout.
- Using water will not result in adverse impacts on storm water drainage systems.
- Using water will not violate any National Pollutant Discharge Elimination System permit program or Alaska Department of Environmental Conservation, Division of Water Permit.

5-D Comments - Carryout and Trackout

Section 20. Public Access Control Plan

Stationary Source - Public Access Control Plan

Purpose

This Public Access Control Plan is designed to protect the general public from potential exposure to air pollutant concentrations above the national ambient air quality standards by preventing unauthorized access into areas within the property boundary of the stationary source. The **Owner/Operator** shall establish reasonable restrictions on general public access to meet this goal.

Public Access Control Measures

The general public will not be allowed to enter the area within a reasonable distance from the crusher activities. The Permittee shall implement the following measures to help ensure that unauthorized personnel do not approach the crushing operations. These measures include:

1. Warning Signs; and
2. Surveillance and Exclusion.

Warning Signs:

To notify unauthorized personnel that entry is not allowed into the area around the crusher, signs will be posted at strategic locations, as follows:

- At approximately 400-yard intervals leading to the crusher from any reasonable general public approach area;
- At approximately 800-yard intervals along the ambient air boundary in sections that are not reasonable public approach areas.

The sign specifications are:

- Each sign will have dimensions of 4 feet by 6 feet.
- Each sign will be inspected regularly and will be repaired or replaced, as necessary.
- Each sign will be free of visible obstructions.
- Each sign will read:

Company Name
DANGER
UNAUTHORIZED PERSONNEL KEEP OUT
If access is requested,
contact the Stationary Source Operator⁴³
Phone (907) xxx-xxxx⁴⁴

Ambient Air Boundary Surveillance and Exclusion:

The Permittee shall take necessary precautions to prevent unauthorized access into the stationary source with a rock crusher and escort unauthorized personnel from area. The Permittee shall ensure that warning signs are standing and clear of obstructions and correct problems associated with the warning signs as soon as practicable.

⁴³ Permittee shall insert the operator's name

⁴⁴ Permittee shall insert the correct phone number.

Section 21. Nonroad Engine Location Log

Permittee Name: _____ Permit No.: AQ _____

Facility Name: _____

EU ID No.: _____

Engine Manufacturer: _____ Engine Model: _____

Engine Serial No.: _____ Engine Rating: _____

Location	Initial Date at Location	Date Moved off Location	Not operating or in storage?

- Use One Sheet for each nonroad engine reported in the FOR.