

STATE OF ALASKA

Dept. of Environmental Conservation Division of Air Quality/ Air Permits Program

Minor General Permit 9 (MG9) Application

Rock Crushers

| For Department Use Only | Permit No.: |
|------------------------------------|------------------|
| Reviewed by: | Date Reviewed: |
| ☐ Complete ☐ Incomplete (specify): | Does Not Qualify |

This application is for a Title I Minor General Permit 9 (MG9) for a rock crusher with a rated capacity of at least 5 tons per hour, and emits less than 100 tons of a regulated pollutant¹ per year (tpy).

Alaska law requires an owner or operator obtain a minor permit under 18 AAC 50.502(b)(3) before construction, operation, or relocation of a stationary source containing a rock crusher with a rated capacity of at least five tons per hour.

Alaska law allows the owner/operator to satisfy the need for a minor permit under 18 AAC 50.502(b) with a general minor permit issued under 18 AAC 50.560.

Note that a source with Potential to Emit (PTE) of a regulated air pollutant greater than 100 tpy needs a Title V operating permit. In order to determine the PTE of your stationary source, complete the worksheet in *Attachment 2*: Determining Potential to Emit (PTE). Regulated pollutant has the meaning given in 40 C.F.R. 71.2.

To obtain an MG9 permit, you must *complete this application in full* and send it along with the appropriate application fee to:

Alaska Department of Environmental Conservation Air Permit Program 555 Cordova St. Anchorage, AK 99501

The administrative fee for this application is not listed with other Air Quality Control administrative fees in 18 AAC 50.400(d). Contact the Department's Air Quality Division (907-465-5100) for the current fee. *Note: Fees are subject to change. To ensure the correct fee is submitted, contact the Department for assistance.*

If this stationary source also uses a thermal soil remediation unit rated at greater than five tons per hour, to **remediate soils**, the owner must also apply for an air quality control minor permit for that activity. If the owner/operator would like to operate an **asphalt plant** and is applying for a **MG9** for

¹Based on AP-42 Emission Factors a diesel engine or engines with a cumulative rating of greater than 2200 bhp will exceed 100 tpy.

rock crusher facilities, they will need a separate permit in addition to the MG9. They may apply for the Minor General Permit 3 (MG3) or General permit (GP3) for asphalt plants depending upon the size of the asphalt plant.

Application Completion and Review Process

You will be notified within 60 days after <u>receipt</u> of the application if your application is complete and if you qualify for the MG9. After your application is determined complete, you will be sent an authorization to operate under the MG9.

By completing this application, the owner or operator acknowledges that the rock crusher facility operated under this permit is required to be operated with a fugitive dust control plan to control fugitive particulate (PM) emissions.

Please fill out the completion checklist below before submitting the application to the Department.

| Completion Checklist: | | | | | | |
|--|--|--|--|--|--|--|
| Qualifying Criteria (Section 1) filled out completely | | | | | | |
| Stationary Source Identification (Section 3) filled out completely | | | | | | |
| Stationary Source Physical Address | | | | | | |
| Permittee name and contact information | | | | | | |
| Responsible Official name and contact information | | | | | | |
| Billing Contact name and contact information | | | | | | |
| Stationary Source Information (Section 4) filled out completely | | | | | | |
| Rock Crusher information | | | | | | |
| Diesel Engine(s) information | | | | | | |
| Equipment summary | | | | | | |
| Equipment list | | | | | | |
| Diesel Engine certifications attached to application (if applicable) | | | | | | |
| Process Flow Diagram attached to application | | | | | | |
| All items from Section 4 included | | | | | | |
| Observable emission point(s) marked | | | | | | |
| Operation and Maintenance Plan attached to application | | | | | | |
| ☐ Fugitive Dust Control Plan attached to application | | | | | | |
| ☐ Potential to Emit (PTE) table (Table A) filled out completely | | | | | | |
| Calculations attached (if applicable) | | | | | | |
| Assessable Emissions Estimates (Attachment 4) filled out completely | | | | | | |
| Certification statement signed by the Responsible Official | | | | | | |

Every box in the checklist above must be checked, with necessary documents attached, in order for this application to be considered as complete (unless that box description is followed by "if applicable"). If the application is not completely filled out with all necessary documents attached, the department will return the application for completion by the applicant. The application will only be approved if all qualifying criteria are met and the application is complete.

Section 1: Qualifying Criteria

A. Exclusions

Please fill out the table below. If you answered "Yes" to any of the questions, then you do not qualify for an MG9 Permit. Please contact ADEC.

Yes No Criteria

| | | a. | Does the stationary source have a stationary source-specific requirement? Stationary source-specific requirements are restrictions on operations that usually allow the stationary source to avoid an applicable requirement. Examples include limits on hours of operation or fuel combustion. These limits are found in the current permit for | | | | | | | | |
|--------|----------|--|--|--|--|--|--|--|--|--|--|
| | | b. | your stationary source. Does the rock crusher plant have emission points with mechanically induced airflow, such as a fan forcing emissions to a stack or control device? | | | | | | | | |
| | | c. | Is any equipment in your processing plant exhausted to a baghouse, | | | | | | | | |
| | | a | cyclone, or wet scrubber? | | | | | | | | |
| | | | Does the stationary source conduct open burning? | | | | | | | | |
| 片 | | | Does the stationary source contain a gas turbine? | | | | | | | | |
| | | | Does the stationary source contain an incinerator? | | | | | | | | |
| 님 | 님 | _ | Does the stationary source contain asbestos demolition or renovation? | | | | | | | | |
| | Ц | n. | Does the stationary source contain servicing of refrigeration equipment containing Class I or Class II substances? | | | | | | | | |
| | | i. | Will this rock crusher operate at a Portland cement plant? | | | | | | | | |
| | | j. | Does the stationary source have the potential to emit more than 100 tons per year of a regulated air pollutant (i.e. is it subject to Title V requirements)? | | | | | | | | |
| | | k. | Will the rock crusher operate at the same location as a Title V permitted source? | | | | | | | | |
| | | | If you check "Yes", contact ADEC for more information. | | | | | | | | |
| Diesel | Gener | ator | (check one) | | | | | | | | |
| | | ck cr | usher facility will utilize a stationary diesel generator(s) to provide electrical | | | | | | | | |
| Ij | f you ch | | the box above, please answer the following questions. If you answer " No " to any of the tions, then you do not qualify for an MG9 permit. Please contact ADEC. | | | | | | | | |
| | Yes N | lo C | Criteria Cri | | | | | | | | |
| | | | a. Will the diesel engine(s) have a combined rating of less than 2200 bhp? | | | | | | | | |
| | | | b. For diesel engine(s) larger than 500 kW (~650 hp), is the engine's exhaust stack height higher than 12 feet, as measured from the ground and does it exhaust unrestricted vertically? | | | | | | | | |
| t | he dies | sel ge | usher facility will utilize a diesel generator(s) to provide electrical power but enerator(s) meets the definition of a nonroad engine ² (see <i>Attachment 1</i> : and will not remain at the same location for more than 12 months. | | | | | | | | |
| П | his roc | ek en | usher facility will utilize highline power and will not have a diesel generator. | | | | | | | | |
| | | This room power. If you che following Yes M This room the diese Definit | b. c. d. e. f. g. h. i. j. K. Diesel Generator This rock crupower. If you checked following ques Yes No G This rock cruthe diesel ge Definitions) | | | | | | | | |

² Non-road engine is defined in 40 CFR 89.2 and adopted by reference in 18 AAC 50.

| | yermi Yes | it. Plea No | | ontact ADEC. iteria |
|-----------------|--|--|--|--|
| | | | | Will the stationary source follow the location considerations specified in |
| | | | b. | Section 2? If your facility is to be located in a Special Sulfur Dioxide Protection Area (Unalaska or St. Paul Island), will the stationary source follow the restrictions in Section 11: Special Sulfur Dioxide Protection Areas? |
| Sec | tion 2 | 2: Lo | cati | ion Considerations |
| | | _ | - | ate a rock crusher facility, the applicant should consider the permit conditions operating site for the rock crusher facility. |
| oper engi | ating or ne withi | chang n 400 | ing t ft of | es that the Permittee should give adequate consideration to siting issues when he location of a crusher. Specifically, do not operate the rock crusher or diesel the nearest occupied structure off the work site. This setback distance was |
| 18 A | AC 50. | | . tiic | State ambient air quality standards and increments listed in 18 AAC 50.010 and |
| The | | 020. ry sou | | nust comply with these terms when operating the rock crusher facility under this |
| The gene | stationa ral perm | 020. ry sou nit. | rce n | |
| The gene | stationa ral perm | o20. ry southit. 8: Sta | rce n | nust comply with these terms when operating the rock crusher facility under this nary Source Identification Information |
| The gene Sec | stationa ral perm | o20. ry sour nit. 3: Sta | rce natio | nust comply with these terms when operating the rock crusher facility under this nary Source Identification Information |
| The gene Sec St | stationa ral perm tion 3 | o20. ry source B: Sta Source Addres | rce nation | nust comply with these terms when operating the rock crusher facility under this nary Source Identification Information ume |
| Stec St. Ci. U' | stationa ral perm tion 3 ationary | o20. ry source S: Sta Source Addres e, Zip (ordinat | rce nations sales and sale | nust comply with these terms when operating the rock crusher facility under this nary Source Identification Information me |

1771 (SIC)/238110 (NAICS) Driveways & parking lots (concrete work)

Other (provide code & describe activity):

5

³ This should include a street number or legal description of the property. For a portable stationary source operating at a location without an address, describe the location to the nearest landmark.

Stationary Source Contact Information

| <u> </u> | |
|--|--|
| *Permittee - The entity applying for the permit. This can | n be either the owner or the operator. |
| Name | Title |
| Mailing Address | Phone Number |
| City, State, Zip | Email Address (optional) |
| *Responsible Official ⁴ - The name of the individual res | sponsible for the plant's day- to-day operations. |
| Name | Title |
| Mailing Address | Phone Number |
| City, State, Zip | Email Address (optional) |
| *Billing Contact | |
| Name | Title |
| Mailing Address | Phone Number |
| City, State, Zip | Email Address (optional) |
| Legal Owner - The stationary source's legal owner. The | e legal owner could be either a person or a company. |
| Name | Title |
| Mailing Address | Phone Number |
| City, State, Zip | Email Address (optional) |
| Point of Contact – If different from Responsible Official | al. |
| Name | Title |
| Mailing Address | Phone Number |
| City, State, Zip | Email Address (optional) |
| Stationary Source's Consultant - If applicable, the na application and/or prepares reports. | ame of the business or entity that prepared the |
| Name | Title |
| Mailing Address | Phone Number |
| City, State, Zip | Email Address (optional) |
| Designated Agent - The regulations allow Permittees to The designated agent could be a person, a separate compa | • |
| Name | Title |
| Mailing Address | Phone Number |
| City, State, Zip | Email Address (optional) |
| Individuals from your organization authorized to | incur fees (please include consultants, if applicable) |
| Name | Name |
| Name | Name |

^{*}Required fields.

⁴ Responsible Official is defined in 18 AAC 50.990(93). See Attachment 1.

Section 4: Stationary Source Information

In the tables below, fill out the operation information for the rock crushers and diesel engines that will operate with this stationary source.

| What is the combined rated capacity of your initial crushers? tph | Rock Crushers | | | | | | | | | |
|--|-----------------|--|------------------|------------------------------|--------------|----------------------------|--|--|--|--|
| Make: | | | | | | • | | | | |
| Make: Model: Rated Capacity: tph If you have additional crushers (secondary, tertiary), please list the rated capacities. tph | | er is any crusher ti | | terial that has not b | | | | | | |
| If you have additional crushers (secondary, tertiary), please list the rated capacities. tph tph tph tph tph tph tph tph syour facility portable? Yes No Was your facility constructed, reconstructed or modified after Aug 31, 1983? Yes No Diesel Engines - complete all fields for each diesel engine. Engine 1 Is this engine stationary or non-road? Stationary Non-road Make: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr Engine 2 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr Engine 3 Is this engine stationary or non-road? Stationary Non-road Make: Maximum fuel rate: gal/hr Engine 3 Is this engine stationary or non-road? Stationary Non-road Make: Maximum fuel rate: gal/hr Engine 3 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW Design Capacity: hp, kW, MW | Make: | | Model: | | Rated C | apacity: tph | | | | |
| tph | Make: | | Model: | | Rated C | apacity: tph | | | | |
| Is your facility portable? | If you have ac | dditional crush | ers (secondary, | tertiary), please | list the rat | ted capacities. | | | | |
| Was your facility constructed, reconstructed ⁵ or modified after Aug 31, 1983? Yes No Diesel Engines – complete all fields for each diesel engine. Engine 1 Is this engine stationary or non-road? Stationary Non-road ⁶ Make: | | tph | tp | h | tph | tph | | | | |
| Diesel Engines - complete all fields for each diesel engine. Engine 1 | Is your facilit | y portable? | Yes | ☐ No | | | | | | |
| Engine 1 Is this engine stationary or non-road? Stationary Non-road6 Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr gal/hr Engine 2 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr Engine 3 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW | Was your fac | ility constructe | d, reconstructed | ⁵ or modified aft | er Aug 31 | 1, 1983? | | | | |
| Make: Model: Serial #: Manufacture Date: Portable? Yes | Diesel Engine | Diesel Engines – complete all fields for each diesel engine. | | | | | | | | |
| Serial #: Manufacture Date: Portable? | Engine 1 | Is this engine | stationary or no | on-road? | Station | nary Non-road ⁶ | | | | |
| Portable? | Make: | | | Model: | | | | | | |
| Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr Engine 2 | Serial #: | | | Manufacture Date: | | | | | | |
| Engine 2 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr Engine 3 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW | Portable? | Yes | ☐ No | Design Capacity: hp, kW, MV | | | | | | |
| Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr Engine 3 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW | Exhaust Stack | x Diameter: | inches | Maximum fuel rate: gal/h | | | | | | |
| Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr Engine 3 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW | Engine 2 | Is this engine | stationary or no | on-road? | Station | nary Non-road | | | | |
| Portable? Yes No Design Capacity: hp, kW, MW Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr Engine 3 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW | Make: | | | Model: | | | | | | |
| Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr Engine 3 Is this engine stationary or non-road? Stationary Non-road Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW | Serial #: | | | Manufacture Date: | | | | | | |
| Engine 3 Is this engine stationary or non-road? Stationary \(\text{Non-road} \) Make: Model: Serial #: Manufacture Date: Portable? Yes No Design Capacity: hp, kW, MW | Portable? | Yes | ☐ No | Design Capacit | ty: | hp, kW, MW | | | | |
| Make: Model: Serial #: Manufacture Date: Portable? | Exhaust Stack | x Diameter: | inches | Maximum fuel rate: gal/hr | | | | | | |
| Serial #: Manufacture Date: Portable? | Engine 3 | Is this engine | stationary or no | on-road? | Station | nary Non-road | | | | |
| Portable? | Make: | | | Model: | | | | | | |
| | Serial #: | | | Manufacture D | ate: | | | | | |
| Exhaust Stack Diameter: inches Maximum fuel rate: gal/hr | Portable? | Yes | □ No | Design Capacit | ty: | hp, kW, MW | | | | |
| | Exhaust Stack | x Diameter: | inches | Maximum fuel rate: g | | | | | | |

⁵ "Reconstruction" means replacing components of an existing crusher, belt conveyor, grinding mill, bagging operation, screening operation, storage bin, bucket elevator, or enclosed truck or railcar loading station so that the cost of replacement is 50% or more of the cost of a comparable new unit. In computing the cost of replacement and of a comparable new unit, do not include the cost of ore contact surfaces: crushing surfaces; screen meshes, bars, and plates; conveyor belts; and elevator buckets. Costs are limited to any 2 year period.

Please see 40 C.F.R. 60.15 and 40 C.F.R. 60.673.

⁶ Non-road engine is defined in 40 C.F.R. 89.2. See Attachment 1.

Crusher Equipment List

Please identify any of the following equipment that makes up your rock crushing operation by filling in any requested information. *If additional room is needed to complete the emission inventory of your rock crusher operation, please attach additional pages to the application.*

Equipment Summary

| Equipment Type | Number of Units |
|-------------------------------|-----------------|
| Initial Crushers | |
| Secondary Crushers | |
| Tertiary Crushers | |
| Screens | |
| Belt Conveyors | |
| Stationary Fuel Storage Tanks | |

List of Equipment

| Equipment ID | Equipment Description (Make/Model) | Manufacture Date |
|--------------|------------------------------------|------------------|
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Section 5: Stationary Diesel Engine Generator Certification

Please attach documents that certify that the stationary diesel engine generator will meet the grain loading standard for fuel burning equipment of 0.05 grains per dry standard cubic feet (gr/dscf).

There is some question whether engines less than 200 hp meet the particulate matter standard of 0.05 gr/dscf. For engines of this size please include vendor particulate emission estimates including exhaust flow estimates, source test of an identical unit or a schedule when a source test will be performed on that unit.

You do not need to attach a certification if a generator is a non-road engine. See attachment 1 for the non-road engine definition.

Section 6: Process Flow Diagram

Please attach a process flow diagram to this application. Stationary source process diagrams show the typical stationary source process including emission points, and items from your Crusher Equipment List. Mark which emission points will be monitored. See example process flow diagram on the next page (excerpt from US Environmental Protection Agency Regulatory and Inspection Manual for Nonmetallic Mineral Processing Plants (Revised), November 1997).

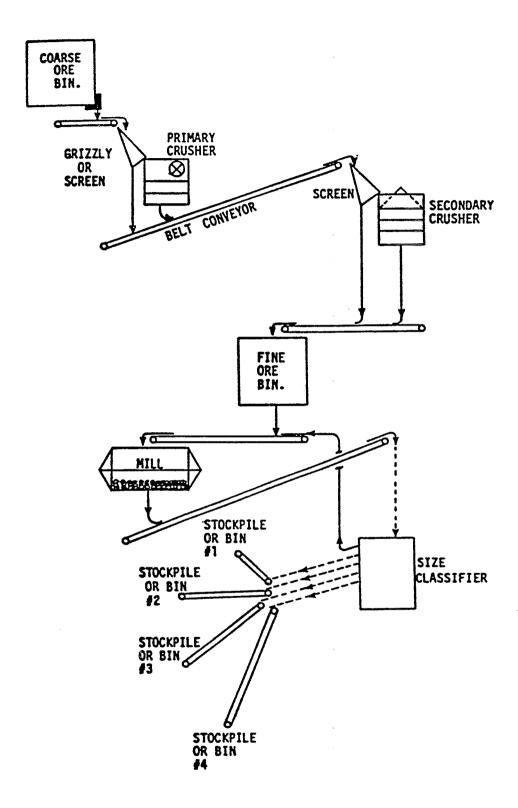


Figure 2. General schematic for nonmetallic minerals processing.

Section 7: Operation and Maintenance Plan

The Department requires stationary source operators to develop an Operation and Maintenance (O&M) plan. This plan describes how the stationary source complies with emission standards listed in 18 AAC 50.055 (smoke and PM emissions) on a continuous basis.

The plan must be submitted to the Department as part of this application and it must be kept on site for operator referral. The O&M Plan is a written document updated on a regular basis and whenever the stationary source has a change in operations.

The following lists some considerations to incorporate into the stationary source specific O&M plan. This list is by no means comprehensive. The operators have the burden to show compliance with the emission limits. Good operations and maintenance of equipment is a crucial element in complying with emission standards.

Items to include in the O&M Plan:

- A. A blank copy of operator's inspection and maintenance forms, if applicable.
- B. A list of vendor contacts and suppliers for the air pollution control equipment, list the spare parts required on site by manufacturer.
- C. A summary of the maintenance tracking system used at this stationary source. This does not mean a complex computer system. It could be a simple as index cards that show when parts were replaced to track problems.
- D. List automated indicators/alarms that may aid the operator in determining malfunctions and correcting the problem.
- E. Reference to the manufacturer's operating and maintenance manual that describes when preventative maintenance should occur and how to operate the equipment.

Your written O&M plan may consist of nothing more than a checklist for the daily, weekly, monthly, and seasonal checks and records. If you already have and use an inspection checklist for air pollution sources at your rock crusher facility, you may include that with your O&M plan.

Section 8: Fugitive Dust Control Plan

Attach a fugitive dust control plan that addresses each fugitive dust source and how the facility owner or operator plans to take reasonable precautions to prevent fugitive dust.

The Fugitive Dust Control Plan (Plan) has the purpose to control the fugitive dust emissions from asphalt plant and crusher related activities. The Plan is required for all Minor General Permit holders in order to ensure that reasonable precautions to prevent fugitive dust are taken.

A sample plan can be found in *Attachment 5:* Sample Fugitive Dust Control Plan. This plan may be filled out and used for any Minor General Permitted 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:
 - o Water application;
 - Dust suppressants;
 - Wind barriers;
 - o Hoods, covers, or enclosures;
 - Cleanup of loose materials;
 - o Minimizing drop distances and lowering loader buckets before dumping;
 - o Fans;
 - o Dust collectors;
- Methods to prevent vehicle track-out or carryout, such as:
 - o Grizzlies or grates;
 - o Gravel pads;
 - o Paved surfaces;
 - Wheel washers;
 - Truck washing.

Section 9: Potential to Emit

Provide the Rock Crusher and Diesel Engine Potential to Emit (PTE) for PM-10 in tons per year (tpy) in **Table A**. If your diesel engines qualify as non-road engines (See *Attachment 1*: Definitions), count their PTE in "Total PTE" but do not count in "Stationary Source PTE."

See Attachment 2: Determining Potential to Emit (PTE) for instructions on how to determine PTE for your facility. If the PTE tables in Attachment 2: Determining Potential to Emit (PTE) are not used for completing **Table A**, please include your PTE calculations with this application.

Table A: Potential to Emit (PTE)

| Pollutant | Rock Crusher Facility | Diesel Generator | Total PTE |
|-----------------|--------------------------|------------------|-----------|
| NO _x | N/A | | |
| CO | N/A | | |
| SO_2 | N/A | | |
| PM-10 | | | |
| VOC | N/A | | |

Section 10: Emission Fees

Applicants must include an estimate for the emissions from the stationary source with their application. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit (PTE) in quantities greater than 10 tpy. The quantity for which fees will be assessed is the lesser of the stationary source's assessable PTE measured in tpy; or the stationary source's projected annual rate of emissions that will occur from July 1 to the following June 30. Alternately, you may opt to use PTE from Section 9: Potential to Emit for your Emission Fee calculation. The use of larger potential emissions will result in larger fees.

Complete and submit the form in *Attachment 4:* Emission Fee Estimate to the Department to report your emission estimates for the current state fiscal year.

Use *Attachment 3:* Calculating Assessable Emissions as a guide and worksheet for completing the emissions fee estimate. The emissions estimate may be made based on the previous year's operations or the expected operations for the coming year. Emission fees are billed in advance by the department before July 1st of the current year.

In order to estimate emission fees you must have the following information available:

- 1. Tons of rock crushed/processed in the previous year, or hours of rock crusher production, or expected tons of rock crush to be processed.
- 2. Hours, or expected hours, of operation of the diesel engine(s).

The actual hours of operation (if not known) may be estimated by dividing the tons of rock crush produced by the rated capacity of the rock crusher facility. If the rock crusher facility is operated at less than the maximum rate of production, use that rate in place of the rated capacity.

Total the estimated emissions from the Rock Crusher Facility and the Diesel Generator(s) for each pollutant. Enter the total amount in the Total Estimated Emissions block.

The current emission fee rate may be found in 18 AAC 50.410.

Section 11: Special Sulfur Dioxide Protection Areas

Two areas in the state have been defined as special protection areas for sulfur dioxide under 18 AAC 50.025(c)(1).

- The Unalaska area, the land and water areas within 3.4-mile radius of the intersection of 53 53'4" N latitude and 166 32'11" W longitude.
- The St. Paul Island area, the land and water areas south of UTM Northing 6333.00 kilometers (57 8'29" N latitude) and within 0.6 kilometers of St. Paul Island.

The special protection areas for sulfur dioxide are established to prevent the violation of the ambient air quality standard and maximum allowable ambient concentration for sulfur dioxide. The following restrictions on operation apply in the protection areas:

• The stationary source must use only Ultra Low Sulfur Diesel fuel in diesel engines or use highline power for electricity generation.

Section 12: Certification

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

| Signati | ire of Res | ponsibl | le Offici | al | |
|-----------|------------|---------|-----------|----|--|
| Printea | l Name | | | | |
| Title | | | | | |

Attachment 1: Definitions

Assessable Emission means:

[18 AAC 50.990(13)]

"Assessable emission" has the meaning given in AS 46.14.250(h)(1);

[AS 46.14.250(h)(1)]

"Assessable emission" means the quantity of each air pollutant for which emission fees are assessed and is the lesser of

- A) The stationary source's potential to emit, in tons per year, each air pollutant; or
- B) The projected annual rate of emissions, in tons per year, of each air pollutant by the stationary source based upon previous actual annual emissions if the permittee can demonstrate to the department its previous actual annual rate of emissions through monitoring, modeling, calculations, or other method acceptable to the department.

Potential to Emit (PTE) means:

[18 AAC 50.990(80)]

"Potential to emit" has the meaning given in AS 46.14.990;

[AS 46.14.990(22)]

"Potential to emit" has the meaning given in 40 C.F.R. 51.166(b);

[40 C.F.R. 51.166(b)(4)]

Potential to emit means the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable. Secondary emissions do not count in determining the potential to emit of a stationary source.

Responsible official means:

[18 AAC 50.990(93)]

- A) For a corporation, a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or a duly authorized representative of that person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under AS 46.14 or this chapter, and
 - i. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million in second quarter 1980 dollars; or
 - ii. The delegation of authority to the representative is approved in advance by the department;
- B) For a partnership or sole proprietorship, a general partner or the proprietor, respectively; and
- C) For a public agency, a principal executive officer or ranking elected official; for the purposes of this chapter, a principal executive officer of a federal agency includes the chief executive officer with responsibility for the overall operations of a principal geographic unit in this state;

Nonroad engine means:

[18 AAC 50.990(63)]

"Nonroad engine" has the meaning given in 40 C.F.R. 89.2, as revised as of September 18, 2007, adopted by reference.

[40 C.F.R. 89.2]

- A) Except as discussed in paragraph (B) of this definition, a nonroad engine is any internal combustion engine:
 - i. In or on a piece of equipment that is self-propelled or serves a dual purpose by both propelling itself and performing another function (such as garden tractors, off-highway mobile cranes and bulldozers); or
 - ii. In or on a piece of equipment that is intended to be propelled while performing its function (such as lawnmowers and string trimmers); or
 - iii. That, by itself or in or on a piece of equipment, is portable or 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.
- B) An internal combustion engine is not a nonroad engine if:
 - i. The engine is used to propel a motor vehicle or a vehicle used solely for competition, or is subject to standards promulgated under section 202 of the Act; or
 - ii. The engine is regulated by a federal New Source Performance Standard promulgated under section 111 of the Act; or
 - iii. The engine otherwise included in paragraph (1)(iii) of this definition remains or will remain at a location for more than 12 consecutive months or a shorter period of time for an engine located at a seasonal source. A location is any single site at a building, structure, facility, or installation. Any engine (or engines) that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period. An engine located at a seasonal source is an engine that remains at a seasonal source during the full annual operating period of the seasonal source. A seasonal source is a stationary source that remains in a single location on a permanent basis (i.e., at least two years) and that operates at that single location approximately three months (or more) each year. This paragraph does not apply to an engine after the engine is removed from the location.

Attachment 2: Determining Potential to Emit (PTE)

Use the following tables to determine PTE for your facility, or calculate PTE using approved emission factors (EF) and equations to complete **Table A** in Section 9: Potential to Emit of this application. The tables below provide approved EFs and emissions equation based on AP-42, 5th edition.

How to use the Emissions Calculation Tables:

Rock Crusher

- 1. You will need to the following information to proceed:
 - a. The rated capacity (RC) of your initial crusher in tons per hour (tph);
 - b. Number of conveyor transfer points in your operation (this number changes with equipment configuration, so use maximum); and
 - c. If your operation has fines screening.⁷
- 2. Round the RC value of your crusher to the nearest value listed in the tables (increments of 25).
- 3. Based on RC, find the emissions calculation in each table that applies to your operation and record in the table at the end of this attachment Record the PM-10 potential emissions in Section 9, Table A, Rock Crusher Facility column.

Diesel Engines

- 1. You will need the following information to proceed:
 - a. Rated capacity (in horsepower (hp)) of each diesel engine; and
 - b. If your engines are classified as stationary or non-road.
- 2. Determine the PTE of each diesel engine separately.
- 3. Round each RC to the nearest value found in the tables (increments of 25 or 50 hp).
- 4. Use the table that fits the engine you are calculating PTE for. One table is for engines with RC of more than 600 hp, the other is for smaller engines.
- 5. Record the emissions value in the table at the end of this attachment for each pollutant for each engine based on RC value.
- 6. Add up the potential emissions for all engines and record in Section 9, **Table A**, Diesel Engines column.

Total and Stationary PTE

- 1. For Total PTE, add all diesel engine PTE values for each pollutant, and add all engines plus rock crusher PTE for PM-10. Non-road engine PTE should be included in this total.
- 2. For Stationary PTE, total all PTE values for each pollutant for the stationary engines. Subtract the Aggregate Handling and Storage Piles value (from calculation table E) from the Rock Crusher PTE, then add the result to the PTE of the stationary engines. Do not count non-road engines in this total.
- 3. Record the Total and Stationary Total in Section 9, **Table A**, Total and Stationary columns.

NOTE: You can calculate PTE without using the tables in this attachment. If you do your own calculations, please attach them to this application for Department review. You can use the general calculation instructions in *Attachment 3:* Calculating Assessable Emissions, using 3650 operating hours, as a reference for completing your own calculations.

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⁷ DEFINITION OF FINES OR WHERE TO FIND DEFINITION

MG9 Attachment 2: Emissions Calculation Table

Emissions from Rock Crushers are for Particulate Matter only, fuel burning equipment must be counted seperately for all criteria pollutants.

Constants:

2.) 2000 (lbs/ton)

Assumptions:

- 1.) 3650 hours of operation per year
- 2.) $E = (EF \times (Hours of operation per year \times RC)) / lbs per ton$

Abbreviations:

tpy tons per year

tph tons per hour

EF emission factor (AP-42)

RC rated capacity (crushing

lbs pounds

E emissions

ULSD Ultra low sulfur diesel

NoC number of conveyers

Initial and Secondary crushing is counted through subsequent processes.

| A: Tertiary Crushing; EF: 0.0024 | | | |)24 | (lbs/to | on crus | shed st | one) | | | | | | | | | | | | | | | |
|----------------------------------|-----|-----|-----|-----|---------|---------|---------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RC(tph) | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| PM(tpy) | 0.4 | 0.5 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.4 | 2.6 | 2.8 | 3.1 | 3.3 | 3.5 |

^{*}For all rated capacities, round up to the nearest tabled value.

| B: Fines | Crushii | ng; EF: | | 0.0 | 15 | (lbs/to | on crus | shed st | one) | | | | | | | | | | | | | | |
|-----------------|---------|---------|-----|-----|-----|---------|---------|---------|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| RC(tph) | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| PM(tpy) | 2.7 | 3.4 | 4.1 | 4.8 | 5.5 | 6.2 | 6.8 | 7.5 | 8.2 | 8.9 | 9.6 | 10.3 | 11.0 | 11.6 | 12.3 | 13.0 | 13.7 | 15.1 | 16.4 | 17.8 | 19.2 | 20.5 | 21.9 |

^{*}For all rated capacities, round up to the nearest tabled value.

| C: Screer | ning; El | =: | | 0.00 | 087 | (lbs/to | on crus | shed st | one) | | | | | | | | | | | | | | |
|-----------|----------|-----|-----|------|-----|---------|---------|---------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| RC(tph) | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| PM(tpy) | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4.0 | 4.4 | 4.8 | 5.2 | 5.6 | 6.0 | 6.4 | 6.7 | 7.1 | 7.5 | 7.9 | 8.7 | 9.5 | 10.3 | 11.1 | 11.9 | 12.7 |

^{*}For all rated capacities, round up to the nearest tabled value.

| D: Fines | Screen | ing; EF | : | 0.0 | 72 | (lbs/to | on crus | hed st | one) | | | | | | | | | | | | | | |
|-----------------|--------|---------|------|------|------|---------|---------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| RC(tph) | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| PM(tpy) | 13.1 | 16.4 | 19.7 | 23.0 | 26.3 | 29.6 | 32.9 | 36.1 | 39.4 | 42.7 | 46.0 | 49.3 | 52.6 | 55.8 | 59.1 | 62.4 | 65.7 | 72.3 | 78.8 | 85.4 | 92.0 | 98.6 | 105.1 |

^{*}For all rated capacities, round up to the nearest tabled value.

MG9 Attachment 2: Emissions Calculation Table

Aggregate handling emissions are considered fugitive, include in total but not stationary emissions.

| E: Handl | ing & S | torage | ; EF: | 0.0 |)5 | (lbs/to | on crus | shed st | one) | | | | | | | | | | | | | | |
|----------|---------|--------|-------|------|------|---------|---------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RC(tph) | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| PM(tpy) | 9.1 | 11.4 | 13.7 | 16.0 | 18.3 | 20.5 | 22.8 | 25.1 | 27.4 | 29.7 | 31.9 | 34.2 | 36.5 | 38.8 | 41.1 | 43.3 | 45.6 | 50.2 | 54.8 | 59.3 | 63.9 | 68.4 | 73.0 |

^{*}For all rated capacities, round up to the nearest tabled value.

| F: Conve | yer Tra | ansfer | Point F | M(tpy | /); EF: | Ī | 0.00 |)11 | (lbs/to | on crus | shed st | one) | | х | <i>K</i> or "(| Convey | er Cor | nstant' | ' (Num | ber of | Conve | eyers)* | * |
|----------|---------|--------|---------|-------|---------|-----|------|-----|---------|---------|---------|------|------|------|----------------|--------|--------|---------|--------|--------|-------|---------|------|
| RC(tph) | | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| | 1 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.8 | 1.9 | 2.0 | 2.1 | 2.3 | 2.6 | 2.8 | 3.1 | 3.3 | 3.5 | 3.8 |
| | 2 | 0.7 | 0.9 | 1.1 | 1.3 | 1.5 | 1.7 | 1.8 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 3.0 | 3.1 | 3.3 | 3.7 | 4.1 | 4.4 | 4.8 | 5.2 | 5.5 | 5.9 |
| | 3 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 | 2.8 | 3.0 | 3.3 | 3.5 | 3.8 | 4.0 | 4.3 | 4.5 | 5.0 | 5.5 | 6.0 | 6.6 | 7.1 | 7.6 | 8.1 |
| | 4 | 1.3 | 1.6 | 1.9 | 2.2 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8 | 4.2 | 4.5 | 4.8 | 5.1 | 5.4 | 5.7 | 6.4 | 7.0 | 7.7 | 8.3 | 8.9 | 9.6 | 10.2 |
| | 5 | 1.5 | 1.9 | 2.3 | 2.7 | 3.1 | 3.5 | 3.9 | 4.3 | 4.6 | 5.0 | 5.4 | 5.8 | 6.2 | 6.6 | 7.0 | 7.7 | 8.5 | 9.3 | 10.1 | 10.8 | 11.6 | 12.4 |
| | 6 | 1.8 | 2.3 | 2.7 | 3.2 | 3.6 | 4.1 | 4.5 | 5.0 | 5.4 | 5.9 | 6.4 | 6.8 | 7.3 | 7.7 | 8.2 | 9.1 | 10.0 | 10.9 | 11.8 | 12.7 | 13.6 | 14.5 |
| NoC - | 7 | 2.1 | 2.6 | 3.1 | 3.6 | 4.2 | 4.7 | 5.2 | 5.7 | 6.3 | 6.8 | 7.3 | 7.8 | 8.3 | 8.9 | 9.4 | 10.4 | 11.5 | 12.5 | 13.6 | 14.6 | 15.6 | 16.7 |
| NOC | 8 | 2.4 | 2.9 | 3.5 | 4.1 | 4.7 | 5.3 | 5.9 | 6.5 | 7.1 | 7.7 | 8.2 | 8.8 | 9.4 | 10.0 | 10.6 | 11.8 | 12.9 | 14.1 | 15.3 | 16.5 | 17.7 | 18.8 |
| | 9 | 2.6 | 3.3 | 3.9 | 4.6 | 5.2 | 5.9 | 6.6 | 7.2 | 7.9 | 8.5 | 9.2 | 9.8 | 10.5 | 11.1 | 11.8 | 13.1 | 14.4 | 15.7 | 17.0 | 18.4 | 19.7 | 21.0 |
| | 10 | 2.9 | 3.6 | 4.3 | 5.1 | 5.8 | 6.5 | 7.2 | 8.0 | 8.7 | 9.4 | 10.1 | 10.8 | 11.6 | 12.3 | 13.0 | 14.5 | 15.9 | 17.4 | 18.8 | 20.2 | 21.7 | 23.1 |
| | 11 | 3.2 | 4.0 | 4.7 | 5.5 | 6.3 | 7.1 | 7.9 | 8.7 | 9.5 | 10.3 | 11.1 | 11.9 | 12.6 | 13.4 | 14.2 | 15.8 | 17.4 | 19.0 | 20.5 | 22.1 | 23.7 | 25.3 |
| | 12 | 3.4 | 4.3 | 5.1 | 6.0 | 6.9 | 7.7 | 8.6 | 9.4 | 10.3 | 11.1 | 12.0 | 12.9 | 13.7 | 14.6 | 15.4 | 17.2 | 18.9 | 20.6 | 22.3 | 24.0 | 25.7 | 27.4 |
| | 13 | 3.7 | 4.6 | 5.5 | 6.5 | 7.4 | 8.3 | 9.2 | 10.2 | 11.1 | 12.0 | 12.9 | 13.9 | 14.8 | 15.7 | 16.6 | 18.5 | 20.3 | 22.2 | 24.0 | 25.9 | 27.7 | 29.6 |
| | 14 | 4.0 | 5.0 | 6.0 | 6.9 | 7.9 | 8.9 | 9.9 | 10.9 | 11.9 | 12.9 | 13.9 | 14.9 | 15.9 | 16.9 | 17.9 | 19.8 | 21.8 | 23.8 | 25.8 | 27.8 | 29.8 | 31.8 |

^{*}For all rated capacities, round up to the nearest tabled value.

If your operation does not fit into any of these tables, please consult the Department for assistance with your application.

^{**}K = (1.3407 x NoC) + .9451; values for K are based on a logical determination for maximum potential drop points based on a NoC.

MG9 Attachment 2: Emissions Calculation Table

ULSD IC Engine > 600hp, Uncontrolled

| | | | _ | | | | | | | | | | | | | | | | |
|-----------------------|----------|--------|---------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| EF(lbs/hp-hr) RC(hp) | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 |
| 0.0055 CO | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 10.5 | 11.0 | 10.5 | 11.0 | 11.5 | 12.0 | 12.5 | 13.0 | 13.6 | 14.1 |
| 0.024 Nox | 26.3 | 28.5 | 30.7 | 32.9 | 35.0 | 37.2 | 39.4 | 41.6 | 43.8 | 46.0 | 48.2 | 46.0 | 48.2 | 50.4 | 52.6 | 54.8 | 56.9 | 59.1 | 61.3 |
| 0.0007 PM-10 | 0.8 | 0.8 | 0.9 | 1.0 | 1.0 | 1.1 | 1.1 | 1.2 | 1.3 | 1.3 | 1.4 | 1.3 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 |
| 0.000705 VOC | 0.8 | 0.8 | 0.9 | 1.0 | 1.0 | 1.1 | 1.2 | 1.2 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 |
| SO2 with ULSD .0015% | sulfur c | ontent | limit b | y weig | ht | | | | | | | | | | | | | | |
| 1.2135E-05 SO2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

^{*}For all rated capacities, round up to the nearest tabled value.

ULSD IC Engine < 600hp

| EF(lbs/hp-hr) RC(hp) | 50 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 550 |
|-----------------------|----------|--------|---------|--------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.00668 CO | 0.6 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.4 | 3.7 | 4.0 | 4.3 | 4.6 | 4.9 | 5.2 | 5.5 | 5.8 | 6.1 | 6.7 |
| 0.031 Nox | 2.8 | 5.7 | 7.1 | 8.5 | 9.9 | 11.3 | 12.7 | 14.1 | 15.6 | 17.0 | 18.4 | 19.8 | 21.2 | 22.6 | 24.0 | 25.5 | 26.9 | 28.3 | 31.1 |
| 0.0022 PM-10 | 0.2 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 2.0 | 2.2 |
| 0.0000247 VOC | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| SO2 with ULSD .0015% | sulfur c | ontent | limit b | y weig | ht | | | | | | | | | | | | | | |
| 1.2135E-05 SO2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

^{*}For all rated capacities, round up to the nearest tabled value.

If your engine does not fit into either of these tables, or does not use ULSD, please consult the Department for assistance with your application.

Use tabled values for each IC engine, not total generating capacity.

Total emissions calculated on actual operating hours in a calendar year (not 3650), are your Asessable Emissions for Emission Fees.

Stationary, or Potential to Emit is the total emissions not including any Non-Road Engines (See restrictions on Non-Road Engines in Condition 1.3)

Rock Crushing Plant Emissions Totals

| (tpy) | | | | | | | | | <u>es</u> | <u>Total</u> | <u>Stationary</u> |
|-------|---|---|---|---|----|---|--|--|-----------|--------------|-------------------|
| CO | | | | | | | | | | | |
| NOx | Α | В | С | D | E* | F | | | | | |
| SO2 | | | | | | | | | | | |
| PM-10 | | | | | | | | | | | |
| VOC | | | | | | | | | | | |

^{*}Include emissions from E in Total, but not Stationary.

If Stationary emissions for any one (1) pollutant are greater than 100tpy, at Title V Major Permit may be required. Please contact the Department.

Attachment 3: Calculating Assessable Emissions

Assessable Emissions differ from a source's Potential to Emit (PTE). PTE is used in calculating a source's permit applicability and classification, i.e. minor or major source. While PTE does not include fugitive particulate emissions, assessable emissions do. A source can be classified as a minor source, yet have emission fees based on a criteria pollutant in excess of 100 tons. Likewise, a major source can have a PTE in excess of 100 tpy of a criteria pollutant, yet pay emission fees for that pollutant at a rate far lower. Assessable Emissions use the same calculations as PTE, only operating hours are not based on a maximum potential of 3650 hours (assumed) but instead are based on actual operation for a calendar year. For examples and steps on completing this form to assist in submission of Assessable Emissions, please see the information below.

Equation:

 $E = (EF \times (tons \text{ of rock crushed or hours of operation in a given year } \times RC)) / 2000 \text{ lbs per ton}$

| | Abbreviations: |
|------|--|
| tpy | tons per year |
| tph | tons per hour |
| EF | emission factor (AP-42) |
| RC | rated capacity (hp for diesel engines) |
| lbs | pounds |
| Е | emissions |
| ULSD | Ultra low sulfur diesel |
| NoC | number of conveyers |

Report using *Attachment 4:* Emission Fee Estimate and submit with this application. Each emission unit (rock crushers and diesel engines) listed in Section 4: Stationary Source Information will need a separate calculation using equations provided, where rated capacity is the horsepower for diesel engines and tons per hour for the crusher.

Emission factors are pollutant/emission unit specific. Fuel assumes use of Ultra Low Sulfur Diesel (ULSD); please contact the Department for assistance if you use alternative fuels. Please see the worksheet on the next page for emission factors and further assistance.

MG9 Assessable Emissions Calculations Worksheet

| Rock Crushing | Tertiary Crushing | Fines Crushing | Screening | Fines Screening | Aggregate Handling & Storage Piles |
|---------------|----------------------|-------------------|-----------|--------------------|------------------------------------|
| PM-10 EF | 0.0024 | 0.015 | 0.0087 | 0.072 | 0.05 |

| Diesel Engines | CO | NOx | SO ₂ ¹ | VOC | PM-10 |
|--------------------|---------|-------|------------------------------|-----------|--------|
| Greater than 600hp | 0.0055 | 0.024 | 0.000012 | 0.000705 | 0.0007 |
| Less than 600hp | 0.00668 | 0.031 | 0.000012 | 0.0000247 | 0.0022 |

^{1:} SO₂ EF for use with ULSD

Rock Crushing Worksheet: $E = (EF \times tons \circ f \cdot rock \cdot crushed) / 2000 \cdot lbs \cdot per ton$

| Tertiary Crushing | Fines Crushing | Screening | Fines Screening | Aggregate Handling & Storage Piles |
|----------------------|----------------|-----------|-----------------|------------------------------------|
| | | | | |

Conveyer transfer points can change depending on configuration of your plant. The Department has simplified emissions calculations for conveyers based on reasonable assumptions of transfer points given a set NoC as follows:

| Conveyor | Transfer | Points: |
|----------|----------|---------|
| | Transici | i omis. |

Emissions: _____ = (((1.3407 x NoC) + 1) x .0011 x tons of rock crushed) / 2000 lbs per ton

Diesel Engine Worksheet (for every engine listed in Section 4):

E = (EF x hours of operation x RC) / 2000 lbs per ton

| CO | NO _X | SO_2 | VOC | PM-10 |
|----|-----------------|--------|-----|-------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

<u>Total Emissions</u>: add items in Rock Crushing Worksheet and Conveyor Transfer Points and PM-10 column from diesel engines rows above for total PM-10. Add remaining columns for all diesel engines.

| CO | NO_X | SO_2 | VOC | PM-10 |
|----|--------|--------|-----|-------|
| | | | | |
| | | | | |

<u>Assessable Emissions</u>: for any pollutant total greater than 10 (tons), round to nearest whole number, for any pollutant less than 10 tons, round down to 0. Enter these values below and on *Attachment 4*: Emission Fee Estimate and submit with this application.

| | CO | NO_X | SO_2 | VOC | PM-10 |
|---|----|--------|--------|-----|-------|
| I | | | | | |
| ı | | | | | |
| L | | | | | |

Attachment 4: Emission Fee Estimate

| Submi | t the | fol | lowing | inforn | nation t | to the | De | partment | at th | ne same | time | you | submit | your a | appl | licatio | n. |
|-------|-------|-----|--------|--------|----------|--------|----|----------|-------|---------|------|-----|--------|--------|------|---------|----|
| | | | | | | | | | | | | | | | | | |

| ADEC Air Permits Program 610 University Avenue Fairbanks, AK 99709-3643 Or FAX to (907) 451-2187 Or Email to: DEC.AQ.Airreports@alaska.gov (If emailed, the report must be signed and certified in accordance with 18 AAC 50.345(j).) Or Submit emissions online at the following website: https://myalaska.state.ak.us/deca/air/airtoo Stationary Source Name: Permit Number: Date: _Emission Fee Estimate for: (State fiscal year) Table 1. Total Emissions & Assessable Emission Fee Estimate Pollutant Rock Crusher Diesel Generator Assessable Emission NO ₈ N/A CO N/A SO ₂ N/A PM-10 VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. Signature Printed Name Title | | E | 1 | J 11 |
|---|---------------------------------------|---------------------------|-----------------------------|-----------------------------------|
| FAX to (907) 451-2187 Or Email to: DEC.AQ.Airreports@alaska.gov (If emailed, the report must be signed and certified in accordance with 18 AAC 50.345(j).) Or Submit emissions online at the following website: https://myalaska.state.ak.us/deca/air/airtoo Stationary Source Name: Permit Number: Date: _Emission Fee Estimate for : (State fiscal year) Table 1. Total Emissions & Assessable Emission Fee Estimate Pollutant Rock Crusher Diesel Generator Assessable Emission NOx N/A CO N/A SO2 N/A PM-10 VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | 610 University A | venue | | |
| Cor Email to: DEC.AQ.Airreports@alaska.gov (If emailed, the report must be signed and certified in accordance with 18 AAC 50.345(j).) Or Submit emissions online at the following website: https://myalaska.state.ak.us/deca/air/airtoo Stationary Source Name: Permit Number: Date: _ Emission Fee Estimate for: (State fiscal year) Table 1. Total Emissions & Assessable Emission Fee Estimate Pollutant Rock Crusher Diesel Generator Assessable Emission NOx N/A CO N/A SO2 N/A PM-10 VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | Or | | | |
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| Submit emissions online at the following website: https://myalaska.state.ak.us/deca/air/airtoo Stationary Source Name: | · · · · · · · · · · · · · · · · · · · | | | ith 18 AAC 50.345(j).) |
| Stationary Source Name: | Or | | | |
| Permit Number: | Submit emissions | s online at the following | website: https://myalaska.s | state.ak.us/deca/air/airtoolsweb/ |
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| Table 1. Total Emissions & Assessable Emission Fee Estimate Pollutant Rock Crusher Diesel Generator Assessable Emission NOx N/A CO N/A SO2 N/A PM-10 VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | Permit Number | | Date: Emission Fee | |
| Pollutant Rock Crusher Diesel Generator Assessable Emission NOx N/A CO N/A SO2 N/A PM-10 VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | | | | |
| NO _x N/A CO N/A SO ₂ N/A PM-10 VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | Table 1. Total E | missions & Assessable F | Emission Fee Estimate | |
| CO N/A SO ₂ N/A PM-10 VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | Pollutant | Rock Crusher | Diesel Generator | Assessable Emissions |
| SO ₂ N/A PM-10 VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | NO _x | N/A | | |
| PM-10 VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | СО | N/A | | |
| VOC N/A Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | SO ₂ | N/A | | |
| Based on information and belief formed after reasonable inquiry, I certify that the statements information in and attached to this document are true, accurate, and complete. | PM-10 | | | |
| information in and attached to this document are true, accurate, and complete. | VOC | N/A | | |
| Signature Printed Name Title | | | | |
| | Signature | Prin | nted Name 7 | Title |

Attachment 5: Sample 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 | |
| | and phone numbers of persons and owners or operators responsible for the |
| • | Control Plan and responsible for the dust generating operation and dust control |
| applications. | |
| 1 00 : | rized under 18 AAC 50.990(93)) |
| Name: | |
| Phone Number: | |
| On-site Manager/Operator | or Point of Contact (if different from above) |
| Name: | |
| Phone Number: | |
| 1-C Recordkeeping and R | |
| | t Control Plan on-site at all times. |
| | 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 Poi | |
| | ns of actual and potential sources of fugitive dust emissions. |
| Bulk material handling | |
| | ess roads, haul roads, traffic areas, and equipment storage yards. |
| _ ` | out and vehicle track-out onto paved public roads may occur. |
| | if water application will be used for controlling visible dust emissions. |
| Rock crushing operation | |
| Screening | |
| Asphalt plant operations | |
| Screening | Conveyors Baghouse Catch Drum Mixer Discharge |
| | e 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> . |
| Active Operations |
| 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. |
| Inactive Operations, including after work hours, weekends, and holidays |
| 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. |
| Sites Inactive for Seven or More Days |
| 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. |
| Unpaved Access and Haul Roads, Traffic and Equipment Storage Areas |
| 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. Wind Events |
| |
| 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> . |
| Outdoor Handling of Bulk Materials |
| 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. |
| Outdoor Storage of Bulk Materials |
| 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. |
| On-Site Transporting of Bulk Materials |
| ☐ 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 |
| will be used as needed. Water Application Equipment: |
| Water Application Equipment: |
| Water Application Equipment: Sprinklers: |
| Water Application Equipment: |
| Water Application Equipment: Sprinklers: Describe the activities that will utilize sprinklers: |
| Water Application Equipment: ☐ Sprinklers: ☐ Describe the activities that will utilize sprinklers: ☐ Water Truck, ☐ Water Trailer, ☐ Water Wagon, ☐ Other: |
| Water Application Equipment: Sprinklers: Describe the activities that will utilize sprinklers: |
| Water Application Equipment: ☐ Sprinklers: ☐ Describe the activities that will utilize sprinklers: ☐ Water Truck, ☐ Water Trailer, ☐ Water Wagon, ☐ Other: |
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| Water Application Equipment: Sprinklers: Describe the activities that will utilize sprinklers: Describe the activities that will utilize sprinklers: 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 Application Equipment: Sprinklers: Describe the activities that will utilize sprinklers: Describe the activities that will utilize this equipment: 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): |
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| 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: □ |
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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: |
| |
| AD Comments Doct Control Walls do |
| 4-D Comments – Dust Control Methods |
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Section 5 – Carryout and Vehicle Track-out

| 5-A Treatments for Preventing Track-out |
|--|
| Track-out 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 Vehicle Carryout and Track-out |
| Clean up Method: Check the method(s) below that will be used for cleaning carryout and track-out. |
| 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 track-out 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 |
| Alaaka Danantmant of Envinonmantal Canaamiatian Divisian at W-1 D |
| Alaska Department of Environmental Conservation, Division of Water Permit. 5 D. Comments - Vehicle Correspond and Trock out |
| Alaska Department of Environmental Conservation, Division of Water Permit. 5-D Comments – Vehicle Carryout and Track-out |