

Instructions and Information

For office use only:

Reviewed by: _____ Date: _____

- COMPLETE
- INCOMPLETE
- DOES NOT QUALIFY FOR GENERAL PERMIT

I. Soil Remediation Unit General Operating Permit Application

- The \$3,810 permit administration fee is included. (18 AAC 50.400(g)). The Department will not begin review until this permit fee is collected. You will be billed an annual compliance fee as set out by 18 AAC 50.400(h).

Alaska law (AS 46.14.130) requires operators of soil remediation units (SRU) to obtain an operating permit if the plant meets any of the following criteria:

- a potential to emit greater than 100 tons per year of a regulated air contaminant,
- a source with a rated capacity greater than 100 Million Btu/hr,
- a controlled source with a rated capacity or equipment throughput greater than 5 tons per hour,
- a controlled source with a rated capacity greater than 50 Million Btu/hr, or
- equipment subject to a federal emission standard.

Most soil remediation units process more than 5 tons per hour and require a baghouse and/or venturi scrubber to control particulate emission.

Alaska law allows ADEC to issue general operating permits under AS 46.14.210 to similar types of operations. Operators prefer general operating permits because of their low cost as compared to facility specific permits.

This is an application to obtain a general operating permit for qualifying soil remediation units. To obtain a general operating permit, you must complete this application and send it to:

Alaska Department of Environmental Conservation
Air Permit Program
555 Cordova Street
Anchorage, Alaska 99501

You will be notified within 60 days after receipt of the application if you qualify for the general permit and if your application is complete. As soon as your application is complete, you will be sent the general operating permit.

If this facility would like to produce asphalt, the owner must also apply for the asphalt plant general permit (GP-3) or facility specific permit.

Instructions

Please provide all of the information on the left-hand side of the application pages. Instructions are provided on the right-hand side of the pages.

II. Soil Remediation Unit General Operating Permit Qualifying Criteria

#1 Is the facility going to remediate contaminated soil?

- Yes** (continue to next question) **No** (you do not qualify for this permit, contact ADEC)

#2 Does your facility have a capacity to process more than five tons per hour?

- Yes** (continue to next question) **No** (check the criteria in section I. You may not need a permit)

#3 Do you plan on producing asphalt in your facility

- Yes** (You need a separate permit for these activities, contact ADEC, continue to #4) **No** (continue to #4)

#4 Will your facility also do any of the following

(If you check **Yes** to any of the following, STOP! You do not qualify for this permit. Contact ADEC)

- | | | |
|-------------------------------------|------------------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Produce industrial sand or light aggregate (other than by remediating contaminated material)? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Incinerate solid waste? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Stack injection? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Incinerate sewage sludge? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Incinerate industrial wastewater treatment sludge? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Manufacture Portland cement? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Produce lime? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | Prepare coal by breaking, crushing, screening, wet or dry cleaning, or thermal drying? |

(If you checked **No** to all the previous questions, continue.)

#5 Does the facility contain any of the excluded sources listed on page 2 of permit GP4?

- Yes** (you do not qualify for this permit, contact ADEC) **No** (continue)

Instructions and Information for Qualifying Criteria

The Department has specific criteria to determine if your facility qualifies for a general permit. If the facility does not qualify for a general permit, you must apply for a facility-specific operating permit. **To determine if your facility qualifies for a general operating permit, answer the criteria questions by placing an “x” in the box beside your answer and proceed as indicated.** If you have questions, call ADEC at (907) 269-7577.

Criterion #1: This general permit is only valid for soil remediation units (SRU). If your facility does not process contaminated soil, contact the department to apply for a different general or operating permit.

Criterion #2: If a SRU has less than 5 tons per hour capacity, you may not need a permit. Examine the introduction to determine if you do. If you need a permit for other reasons continue with the next question.

Criterion #3: If your facility will also produce hot mix asphalt, you need a separate permit for these activities. See the general permit GP-3 for asphalt plants. If you do not qualify for the asphalt plant general permit than you will need a facility specific permit.

Criterion #4: Additional federal or state emission standards may apply to each of the listed activities. The additional standards are not in this general permit. An applicant who answered **Yes** to Criteria #1 and #2, and engages in an activity listed in Criterion #4 must get either a different general permit, or a facility-specific operating permit (See 18 AAC 50.335).

- ⇒ Produce industrial sand or light aggregate: The New Source Performance Standard (NSPS) Subpart UUU applies to some dryers used to remove moisture. It does not apply to soil remediation because the dryer is used to remove hydrocarbons. If your equipment produces sand or aggregate from *uncontaminated* material, you cannot use the general permit. (NSPSs are found in 40 C.F.R. 60.)
- ⇒ Incinerate solid waste: Contaminated soils are sometimes added to incinerators burning refuse. Facilities cannot use this permit to burn refuse.
- ⇒ Stack injection: Stack injection is releasing materials through a stack which are not process emissions, products of combustion, or materials introduced to control pollutant emissions. Stack injection requires case-by-case approval and added permit conditions to prevent harmful releases. Since case-by-case conditions cannot be included in a general permit, the department requires a facility that engages in stack injection to obtain a site specific operating permit.

An NSPS or a National Emission Standard for Hazardous Air Pollutants may apply to each of these activities below. Apply for an individual operating permit if your facility is engaged in any of the following,:

- ⇒ Incinerate sewage sludge or industrial wastewater treatment sludge;
- ⇒ Manufacture Portland cement;
- ⇒ Produce lime;
- ⇒ Prepare Coal.

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#5 Did you obtain a construction permit before the facility was built?

Yes (continue to #6) **No** (Please explain why this facility did not go through the construction permit program)

#6 Does your current permit contain any of the following facility-specific provisions:

Yes **No** A BACT requirement?

Yes **No** A LAER requirement?

Yes **No** A previously determined specific limit to comply with ambient air quality standards; maximum allowable ambient concentrations; or 18 AAC 50.110, protection of public health or welfare?

Yes **No** Emission trading?

Yes **No** Limit to avoid a requirement (example. PSD avoidance)?

If you answered Yes to any of the above, you do not qualify for the general permit.

#7 When this facility locates to the Special Protection Areas as defined in 18 AAC 50.025(c) (Dutch Harbor/Unalaska or St. Paul) does the facility burn a fuel with a sulfur content at or less than 0.075% Sulfur and operates inside the highlighted regions of the sulfur dioxide special protection areas contained in Section X of this application and does the facility contain a source with a rated capacity of 10 MMBtu/hour or more? Operating restrictions in these special protection areas are detailed in Section X and in the permit.

Yes (continue to next question) **No** (you do not qualify for this permit, contact ADEC)

#8 If the facility has a diesel engine with a capacity at or larger than 500 kW (~650 hp) please answer the following; if the facility does not have any engines of this size go to the next question.

Is the engine(s) exhaust stack height greater than 12 feet from the ground and does it exhaust unrestricted and vertically?

Yes (continue to next question) **No** (you do not qualify for this permit, contact ADEC)

#9 Does the facility have an afterburner?

Yes (continue to next question) **No** (you do not qualify for this permit, contact ADEC)

#10 Will the soil not be hazardous waste (under 40 C.F.R. 261.3) and the soil contaminants be limited to:

- crude oil, fuel oils
- natural gas condensate
- gasoline
- hydraulic oils, or
- lubricating oils?

Yes (continue to next question) **No** (you do not qualify for this permit, contact ADEC)

#11 Will the facility:

- release materials other than process emissions, products of combustion, or materials introduced to control pollutant emissions from any stack? Conduct open burning of any materials?
- Process or produce the following minerals, their concentrates, or any mixture including more than 50% of the following by weight: alumina, ball clay, bentonite, diatomite, feldspar, fuller's earth, gypsum, industrial sand, kaolin, lightweight aggregate, magnesium compounds, perlite, roofing granules, talc, titanium dioxide or vermiculite?

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Yes (you do not qualify for this permit, contact ADEC) **No** (continue with section III on page 6)

Criterion #5: Every facility that can qualify for this permit needs (or needed) a pre-construction permit before the facility is built. A pre-construction permit could be either one issued under 18 AAC 50.300-320, or under the former 18 AAC 50.400. If you need a pre-construction permit, please contact the department.

Criterion #6: A general permit cannot contain “facility-specific requirements” from a past permit. The facility-specific requirements do not include permit terms to assure compliance with a generally applicable underlying requirement. For example, a condition specifying pressure drop in a scrubber to assure compliance with a particulate emission or opacity standard is not a facility-specific condition. For this criterion, a facility specific requirement does not include a VOC or dust control plan submitted with the application.

Criterion #7: The department predicts that air quality in the listed “a special protection areas” may not be as healthy as in other areas. Therefore, any new or temporary source operating in a special protection area must perform an ambient air quality demonstration and get an operating permit.

Criterion #8: If the facility contains engines with a capacity greater than 500kW (~ 650 hp), and these engines have exhaust stacks less than 12 feet tall as measured from the ground, the department has predicted that the facility has the potential to exceed maximum allowable ambient concentrations. The exhaust stacks must be vertical and have unrestricted flow (no rain caps, etc.) The department requires operators of portable facilities with diesel generators of this size with shorter stacks to obtain an individual facility specific operating permit that includes an ambient air compliance demonstration. Facilities in this category do not qualify for this general permit. Operators have the option to raise their stacks to the specified height and remove flow restricting devices in order to qualify for this permit.

Criterion #9: SRUs must destroy volatile organic compounds released from contaminated soils to prevent noxious odors or the potential to cause health problems. The afterburner will destroy these compounds.

Criterion #10: SRU afterburners are not designed and tested as hazardous waste incinerators. Soil contaminants which may be processed under this permit only include crude oil and certain refined petroleum products. State and federal rules specify rigorous procedures, equipment, and monitoring for treating hazardous waste. There is inadequate information available to grant general approval to treat other unspecified materials not defined as hazardous. Owners or operators who want to treat other specific contaminants not defined as hazardous may apply for facility-specific permits.

Criterion #11: These requirements are to exclude facilities subject to standards not covered in this general permit.

12. Location Considerations

The permit condition relating to location selection is reproduced here in its entirety. The soil remediation unit must comply with items a through c below in order to use this general permit.

- a. The permittee may not move to a new location under this permit that is within 700 yards of the nearest residence.
- b. The operator shall:
 1. provide notice to the department at least 10 days in advance of the move of any soil remediation unit or crusher operation by using the application addendum form in attachment 5 of this permit.
 2. give adequate consideration to siting issues as described in condition c below when operating or changing locations of a soil remediation unit or crusher permitted to operate under this permit.

[18AAC50.110, 5/26/72; 18AAC50.350(f)(3), 5/3/02]

- c. *If the operator selects a location near residences or other occupied structures and the location results in complaints concerning the air emissions, the department will investigate these complaints. These investigations could result in:*
 1. *the operator being required to prove, by air quality dispersion modeling or other means, that emissions from the plant are not harmful to the neighbors by conducting an ambient air quality investigation under 18AAC50.201.*
 2. *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 contaminants in the ambient air does not exceed the ambient air quality standards, maximum allowable ambient concentrations or the limitations of 18 AAC 50.110.*
 3. *air quality monitoring investigations; or*
 4. *the requirement to obtain a site specific permit with requirements tailored to the exact operation contemplated; and.*
 5. *Operators must be aware that if additional air dispersion modeling, an investigation under 18AAC50.201 or a site specific permit is needed, these requirements could result in significant delays and expenses.*

III. Identification Information

Facility Name _____
Facility Contact Person _____
Telephone Number _____

Physical Address _____
Mailing Address _____
UTM Coordinates or _____
Latitude/Longitude _____

Legal Owner _____
Mailing Address _____
Telephone Number _____

Operator (*if different from owner*) _____
Mailing Address _____
Telephone Number _____

Facility's Consultant _____
Mailing Address _____
Telephone Number _____

Designated Agent _____
Mailing Address _____
Telephone Number _____

Billing Contact Person _____
Mailing Address _____
Telephone Number _____

Individuals within your organization Authorized to Incur Fees

SIC Code: 1629

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Provide the following information. Where applicable, please provide fax numbers and e-mail addresses.

Facility Name - the name of the facility that is applying for this permit.

Facility Contact Person - the name of the individual responsible for the facility's day-to-day operations.

Telephone Number - the contact person's telephone number.

Physical Address - the facility's address. This should include a street number or legal description of the property. For a portable facility operating at a location without an address, describe the location to the nearest landmark.

Mailing Address - if different from the physical address, the address where the facility receives mail.

UTM Coordinates - the facility's Universal Transverse Mercator (UTM) coordinates.

Latitude/Longitude - the facility's Latitude and Longitude coordinates. Provide either the UTM or the Latitude/Longitude coordinates of the facility.

Legal Owner - the facility's legal owner. The legal owner could be either a person or a separate company.

Mailing Address - the owner's mailing address.

Telephone Number - the owner's telephone number.

Operator - if different from the owner, the operator's name. The operator could be either a person or a separate company.

Mailing Address - the operator's mailing address.

Telephone Number - the operator's telephone number.

Consultant Name - the name of the business or entity that is preparing the application.

Mailing Address - the consultant's mailing address.

Telephone Number - the consultant's telephone number.

Designated Agent - the designated agent's name. Alaska statute requires permittees to obtain a designated agent for service of process in the state. The designated agent could be a person, a separate company, or a law firm.

Mailing Address - the designated agent's mailing address.

Telephone Number - the designated agent's telephone number.

Billing Contact - the billing contact's name.

Mailing Address - the billing contact's mailing.

Telephone Number - the billing contact's telephone number.

Individuals Authorized to Incur Fees - Please list any and all individuals that you authorize to incur department fees. Please list consultants if applicable.

IV. Source Information

A. Soil Remediation Unit

Please identify each piece of equipment your facility uses or owns and stores on site at the facility by placing an “x” in the box beside the piece of equipment. If the equipment listed has a place to provide the size and capacity, provide that additional information. Only stationary diesel engines should be included under diesel engines. Do not include mobile sources (i.e., Trucks, loaders, forklift).

- Dryers, Combustion devices in Fluidized bed, rotary kiln etc.:
Primary Burner: Size _____ MMBtu/hr & Combustion chamber size _____ cubic feet,
Maximum fuel feed _____ gal/hr
- Afterburner:
Secondary Burner: Size _____ MMBtu/hr & Combustion chamber size _____ cubic feet,
maximum fuel feed _____ gal/hr

- Material handling devices such as: (*Describe Sources*)
 - Conveyors _____ Date Installed: _____
 - Loaders _____
 - Bins _____
 - Elevators _____ Date Installed: _____
 - Screens _____ Date Installed: _____
 - Chutes _____
- Mixers _____
- Dryer control devices:
 - Baghouses _____ Date Installed: _____
 - Cyclones _____
 - Scrubbers _____
- Knockout Boxes,
- Diesel engines: Size _____ hp-hr, Maximum fuel feed _____
 Size _____ hp-hr, Maximum fuel feed _____
 Size _____ hp-hr, Maximum fuel feed _____

Please attach sheet listing any additional engines

- Storage areas for
 - Untreated soils (Describe) _____

If storage bin provide the date installed: _____
 - Treated soils (Describe) _____

If storage bin provide the date installed: _____
 - Enclosed truck _____ Date Installed: _____
 - Railcar loading station _____ Date Installed: _____
- Crushers _____ Date Installed: _____

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- Grinders _____ Date Installed: _____
- Insignificant sources _____
- Other _____
-
- Identify each piece of equipment that your facility uses or owns and stores at your facility by placing an “x” in the box beside the equipment listing. Where required, provide the size, capacity of the equipment, or a brief description. The list of insignificant sources based on production rate or size is located in Section VII of the application.

B. Sources from the Non Metallic Mineral Processing Plant
Federal New Source Performance Standard: Subpart OOO
Rock Crushers and Conveyors

A processing plant is any combination of equipment used to crush or grind any non-metallic mineral including each

- Crusher or Grinding mill
- Screening operation
- Bucket elevator
- Belt conveyors and belt conveyor transfer points
- Bagging operation
- Storage bin
- Enclosed truck or railcar loading station;

A Subpart OOO processing plant is a processing plant that:

- Is constructed, reconstructed (see 40 CFR 60.15 for specific definition), or modified after August 31, 1983;
- Has a cumulative rated initial grinding capacity larger than 150 tons per hour for a portable plant or 25 tons per hour for a fixed plant;

Source Information

Information to determine what requirements apply

1. Was your facility constructed, reconstructed¹, or modified after August 31, 1983?

“ Yes “ No

If yes, answer the following question

2. Are any conveyor transfer points or other sources of particulate matter emissions enclosed in a building?

“ Yes “ No

3. Does any structure have mechanically induced airflow to exhaust particulate emissions?

“ Yes “ No

4. Is any equipment in your rock crushing process exhausted to a baghouse, cyclone, or wet scrubber (excluding the drum or dryer)?

“ Yes “ No

If you answered yes to any of the questions #2-#4 you do not qualify for the general permit.

¹ Reconstructed as defined in 40 CFR 60.673

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Source List

Please identify any of the following equipment that makes up your facility by placing an "x" in the box, and filling any requested information. *Do not include any conveyors, generators, or other equipment that are part of the soil remediation unit and listed in Section A.*

" Initial crushers (*list all initial crushers regardless of size or age*)

Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____
Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____
Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____
Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____
Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____

For the remainder of the source list, you only need to list equipment that has been built, reconstructed or modified after August 31, 1983.

" Other crushers

Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____
Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____
Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____
Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____
Equipment Id. _____	Rated capacity _____	tons per hour	Date built: _____

Grinding Mills

Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____

" Screening Operations

Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____

" Belt Conveyors

Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____
Equipment Id: _____	Date built: _____

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Equipment Id: _____ Date built: _____
Equipment Id: _____ Date built: _____

“ Bucket Elevators

Equipment Id: _____ Date built: _____
Equipment Id: _____ Date built: _____

“ Bagging Operations

Equipment Id: _____ Date built: _____
Equipment Id: _____ Date built: _____

“ Storage bins

Equipment Id: _____ Date built: _____
Equipment Id: _____ Date built: _____

“ Enclosed Truck or Railcar Loading Stations

Equipment Id: _____ Date built: _____
Equipment Id: _____ Date built: _____

“ Stationary fuel storage tanks

Date Installed _____ Capacity _____ (gallons) Fuel Stored _____
Date Installed _____ Capacity _____ (gallons) Fuel Stored _____
(Attach additional pages as necessary)

V. Emission Fee Information

Note: When making application for a soil remediation unit general permit the applicant must estimate the emissions from the plant using the table below as a guide. The emissions estimate must be based on the previous year's operations or the expected operations for the coming year. Emission fees are billed in advance by the department after July 1st of the current year.

For the Period January 1 to December 31. Emission fee estimates are due no later than March 31 of the current year.	
NOx TPY (A) = tons of soil processed multiplied by	
0.0000375 for diesel fired SRU	0.000015 for nat gas fired SRU
CO TPY (B) = tons of soil processed multiplied by	
0.000018 for diesel fired SRU	0.000028 for nat gas fired SRU
NOx TPY (C1) from diesel generators	Multiply kW hours by 0.000020786 = C1
CO TPY (C2) from diesel generators	Multiply kW hours by 0.000004479 = C2
SO₂ TPY (D) = gals of diesel burned for the year multiplied by 0.0000355	
Determine Total NOx A + C1 = X Determine Total CO B + C2 = Y	
If either X or Y or D is less than 10 tons do not include in calculation below.	
NOX (X) + CO (Y) + SO₂ (D) = Total emissions in tons per year (TPY)	
Total emissions (TPY) x current rate (\$/ton)* = Emission Fee in \$	

* The current emission fee rate (\$/ton) is found in 18 AAC 50.410.

VI. Other Documents Required

In addition to this application, please include:

- A particulate matter source test report dated within the last five years, or Schedule for conducting the test;
- A carbon monoxide continuous emission monitor performance test report, or Schedule for conducting the test;
- Facility process diagrams including stack heights of equipment ;
- A fugitive dust and VOC control plan that addresses each fugitive dust and VOC source(See condition 29 of the permit for details of the fugitive dust plan.); and
- A plan for preventing ground and surface water contamination by soil contaminants.
- Approval from Spill Protection and Response (SPAR) of your facility Contaminated Sites Workplan required by 18 AAC 75 and/or 78.
- A Location Selection Form certifying that location considerations have been taken into account when the location for the plant was selected (See Section X).
- Operation and Maintenance Plan (See Section XI).

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Fee Information

The department charges applicants

- C An annual compliance fee as set out by 18 AAC 50.400(h).
- C A fee per ton for contaminants emitted in quantities greater than 10 tons/year (TPY). Permittees pay for emissions from SRU operations and diesel engine operations. The current fee rate is listed in 18 AAC 50.410.

With the current emission fee structure, permittees are required to pay for emissions based on the tons of soil treated, the amount of fuel burned at the facility and the number of kilowatt hours produced if the facility generates its own electricity. The emission fee calculation table on page 13 shows how to make these calculations for nitrogen oxides, carbon monoxide and sulfur dioxide. Fees are applicable only if these pollutants are emitted in quantities greater than ten tons per year.

The department's current emission fee rate is shown in 18 AAC 50.410(b). The rate is given in \$ per ton of emissions in quantities greater than ten tons per year. The department also allows facilities to submit their own emission fee calculations.

Other Documents Required

In addition to this application, the department needs the following documentation:

- A copy of the most recent particulate matter source test report or a schedule saying when you will conduct the test. If a particulate matter source test has not been conducted within the last 5 years, the permit requires the permittee to do so within the first 30 days of operation under the permit.
- A copy of the most recent carbon monoxide continuous emission monitor (CEM) performance test report; or a schedule stating when you will conduct the test. If a carbon monoxide performance test report is not submitted with the application, the permit requires the permittee to test within the first 30 days of operation under the permit.
- Facility process diagrams that show the typical facility configuration and identify each emission point control device and the exhaust stack heights of the equipment.
- A fugitive dust and VOC control plan that addresses each fugitive and VOC source.
- A plan for preventing ground and surface water contamination from soil contaminants leaching or draining out of contaminated or treated soil piles.
- Approval from ADEC Spill Protection and Response (SPAR) of the facility Contaminated Sites Workplan.

VII. Insignificant Sources

Identify any insignificant source at your facility. Insignificant sources are based on size and production rate basis, not air emission sources. Please see regulations 18 AAC 50.225(t) for more information.

- all storage tanks less than 10,000 gallons in size,
- combustion equipment (not including internal combustion engines) with a rated capacity less than 4,000,000 Btu/hr burning natural gas, butane, propane, or LPG;
- combustion equipment (not including internal combustion engines) with a rated capacity less than 1,700,000 Btu/hr burning kerosene, No. 1, or No. 2 fuel oil.
- Other _____.

Please identify the insignificant sources owned or operated by your facility. If requested by the Department, include sufficient documentation to determine whether a source has been appropriately listed as insignificant.

VIII. Compliance Certification

Requirement	Compliance Status	Continuous/Intermittent	Method used to determine compliance
0.05 gr/dscf for fuel burning equip. installed after July 1, 1972.	" In Compliance " Not in Compliance Not applicable (attach explanation)	" Continuous " Intermittent	" Have conducted source test within last 5 years. " Other (attach description & documentation)
0.10 gr/dscf for fuel burning equip. installed before July 1, 1972.	" In Compliance " Not in Compliance Not applicable (attach explanation)	" Continuous " Intermittent	" Have conducted source test within last 5 years. " Other (attach description & documentation)
500 PPM SO ₂	" In Compliance " Not in Compliance " Not applicable (attach explanation)	" Continuous " Intermittent	" All records kept " Conducted fuel sulfur analysis or blended fuel " Other (attach description & documentation)
20% opacity	" In Compliance " Not in Compliance " Not applicable (Attach explanation)	" Continuous " Intermittent	" All records kept " Method 9 observations " Other (attach description & documentation)
100 PPM CO using CEMS	" In Compliance " Not in Compliance " Not applicable	" Continuous " Intermittent	" All records kept " 40 CFR Subpart A and F " Other (attach description & documentation)
Coastal Zone management	" In Compliance " Not in Compliance " Does Not Apply	" Continuous " Intermittent	" Contacted AWCRSA " Other (attach description & documentation)

Instructions for Compliance Certification

In order to operate under this general operating permit, you must certify compliance with Alaska's emission standards and Coastal Zone Management (CZM) requirements, if operating in an area covered by the Coastal Management Plan.

In order to operate under this general operating permit, you must certify compliance with Alaska's emission standards. Continuous compliance means the facility has not exceeded the requirement during the compliance period. Intermittent compliance means that the facility has exceeded the requirements at least once during the time period.

For the application, please certify that the facility's compliance status for the facility up to the day the application is signed. If a facility has had compliance problems in the past but has installed control equipment to fix the problem the problem should be solved and the facility compliance is "continuous". If the facility has had exceeded permit limits in the past and has not changed equipment or added controls the compliance would be "intermittent".

IX. Certification

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

Signature

Printed Name

Title

State of Alaska, City of _____, Borough of _____

On this _____ day of _____, 20____ before me personally appeared _____, whose identity was proved to me on the basis of satisfactory evidence to be the person whose name is subscribed this instrument, and acknowledged that he (she) executed the same.

Notary Public _____

My Commission Expires on _____

Addresses

Please send the completed application to:

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

Date Issued _____

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X. Operations and Maintenance Plan

The Department requires facility operators to develop an Operation and Maintenance Plan. This plan describes how the facility complies with emission standards listed in 18 AAC 50.055 (dust and smoke) on a continuous basis.

The following lists some considerations to incorporate into the facility specific operations and maintenance plan. This list is by no means comprehensive. The operators have the burden to show compliance with the emission limits. Good operation and maintenance of air pollution control equipment is a crucial element in complying with emission standards.

The Operation and Maintenance Plan is a written document updated on a regular basis and when facility operations change. The responsible official is responsible for the creation and upkeep of the plan. The plan must be submitted to the ADEC as part of this application and it must be kept on site for operator referral.

The Plan should include, but is not limited to the following:

- A. A blank copy of operator 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 facility. This does not mean a complex computer system. It could be as 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. Calibration procedures and expected accuracy of all instruments and monitors.

The plan should consider and discuss the following applicable sources and equipment. Here are some suggestions for items to include in a Preventative Maintenance (PM) Plan. Your written PM 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 asphalt plant, you may submit that as your PM plan.

Roads, workpads, and stockpiles

They should be wetted or treated to have sufficient moisture to limit generation of fugitive dust.

Dryer and burner

- A. Excess air and damper setting should be set at least once per season. The dryer should be inspected to ensure it is operating properly.
- B. Cracks or holes in the dryer shell, or outlet plenum should be repaired as soon as practicable.

Instructions and Information

- C. Maintain the burner
 - Atomization device
 - Nozzle appropriate for fuel type
 - Cone
 - Air damper
 - Linkages
 - Fuel pressure regulator

Dry Cyclone (if applicable)

- A. Follow the manufacturer's guidelines for adjusting the vortex shield in order to maximize the cyclone efficiency.
- B. Inspect the cyclone every month -outside body, dust hopper, and dust removal device.
- C. At least once per season inspect the inside of the cyclone the inlet and outlet for wear.

Fabric Filter (Baghouse)

Record manufacturer's specified temperatures, pressure and flow rate.

Monitoring of Operation:

Record daily and compare with manufacturer's specifications or opacity regulation:

- A. Pressure at baghouse inlet inches water column
- B. Pressure at baghouse outlet inches water column
- C. Temperature at baghouse inlet
- D. Dust level in hopper
- E. Discharge pressure at air compressor for bag cleaning in psig
- F. Screw conveyor motor amps ammeter
- G. Visible emissions

Preventative Maintenance

Weekly Maintenance Recommendations

- A. Check for and remove dust from the clean side of the tubesheet area and check for corrosion. If more than a dust film is found, repair leak.
- B. Check inlet and outlet damper seals, repair if needed
- C. Thoroughly inspect bags, replace damaged bags, clamps, or cages, immediately
- D. Check all damper valves for proper operation, repair seal as necessary
- E. Check bag shaker assembly or compressed air lines including, filters, and dryers, replace parts as necessary.
- F. Check operation and sequence of all compressed air valves, repair or replace malfunctioning valves.

Monthly Maintenance

- A. Clean, Repair/replace bags per manufacturer's recommendation. Log work.
- B. Inspect inside of housing for corrosion, repair any holes immediately and investigate the

Instructions and Information

- corrosion problems further.
- C. Inspect door seals, repair as necessary.

Wet scrubber (venturi scrubber) Record *manufacturer's specified pressure drop and flowrate.*

Record daily and compare with manufacturer's specifications or opacity regulation:

- A. Gas pressure at scrubber venturi inlet, inches water column
- B. Gas pressure at scrubber venturi outlet, inches water column
- C. Scrubbing water temperature, F and pressure, psig
- D. Water Pump motor current draw, amps or water flow rate
- E. Visible emissions from stack, excessive droplet carryover indicates poor mist eliminator performance

Preventative Maintenance

Weekly

- A. Check pump for leaking gland, replace defective mechanical seal or packing
- B. Inspect piping valves and fittings for leaks or signs of corrosion replace corroded or faulty parts.
- C. Check the scrubber for holes and leaks, repair.
- D. If the scrubbing water appears muddy, check settling/cooling pond.

Monthly

Inspect the mist eliminator, including internals, for proper operation, plugging and corrosion.
Clean out and/or repair.

Once per season

- A. Completely flush the scrubber piping and clean out instrument connections, check accuracy of instruments (pressure gauges, thermocouples etc.).
- B. Thoroughly inspect the scrubber body, venturi plate, and lining. Replace worn parts.

Ductwork and induced draft fan

Preventative Maintenance

Weekly

- A. Make quick visual inspections for holes or leaks
- B. Operate dampers several times to insure proper operation
- C. Inspect fan bearings for proper oil level and temperature, excess vibration.
- D. Check fan belts for proper tension, wear.
- E. Thoroughly inspect stack for holes, crack, leaks, repair as necessary.

Monthly

- A. Inspect ductwork for leaks
- B. Inspect the fan bearing housing for leaks and cracks, repair as necessary.
- C. Open the fan housing and inspect the wheel for abrasion, corrosion, and material build-up.

Once per season

- A. Thoroughly inspect damper blades for wear, replace if necessary.
- B. Inspect automatic damper drives, bearings, repair or replace as necessary.
- C. Thoroughly inspect all ductwork joints and seals for tightness and check tightness of flange

Instructions and Information

bolts, repair.

Diesel Engines

Weekly checks

- A. Oil lube system maintenance.
- B. Other Preventative Maintenance.
 - 1. fuel filters/sediment bowl
 - 2. injector condition

Please explain corrective actions related

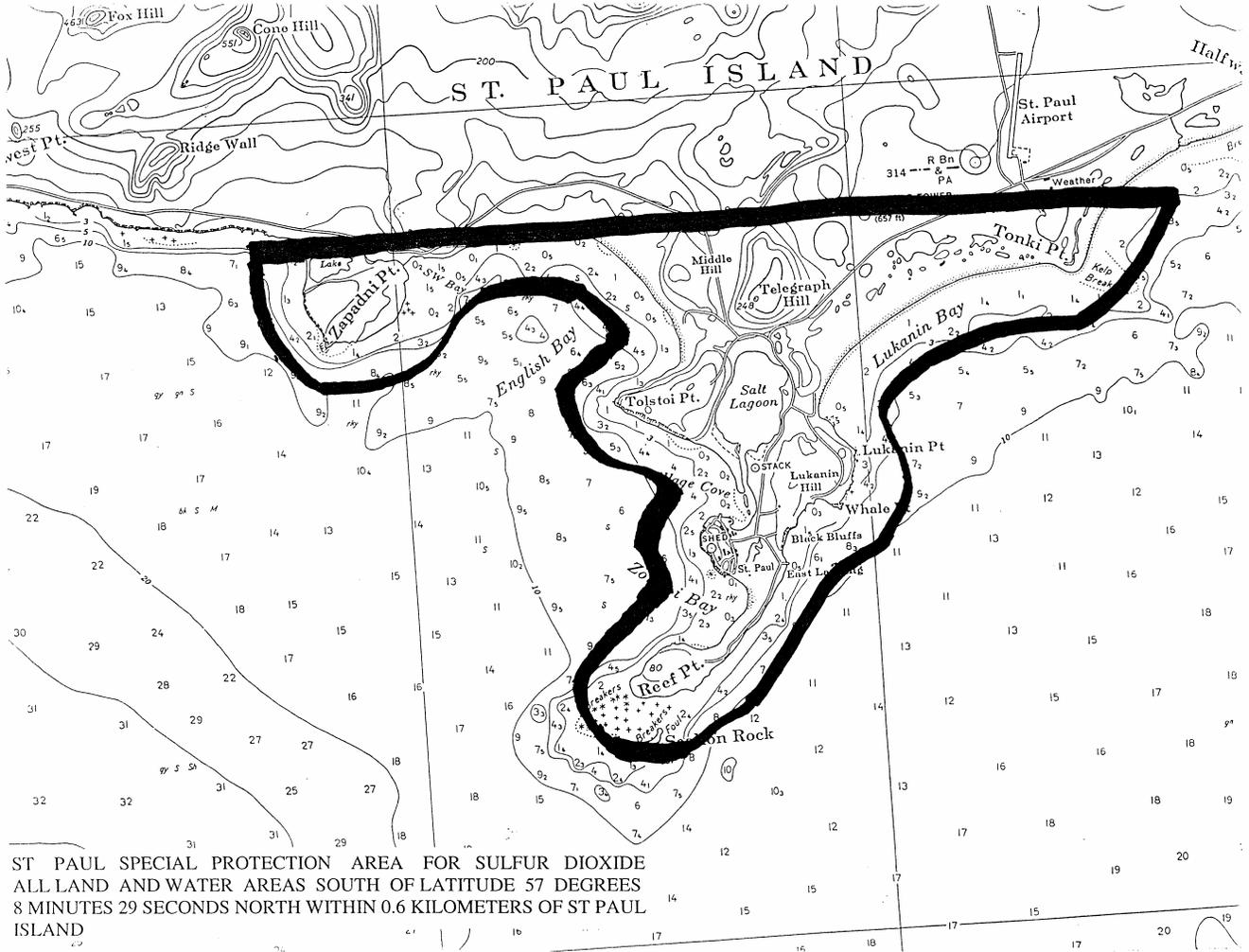
XI. Special Sulfur Dioxide Protection Areas **St. Paul Island and Dutch Harbor**

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

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. Currently, the Department has designated Areas in Dutch Harbor and St. Paul as special protection areas. The exact boundaries of these areas can be found in 18 AAC 50.025(c)(1).

See the attached maps in order to locate where the following restrictions apply

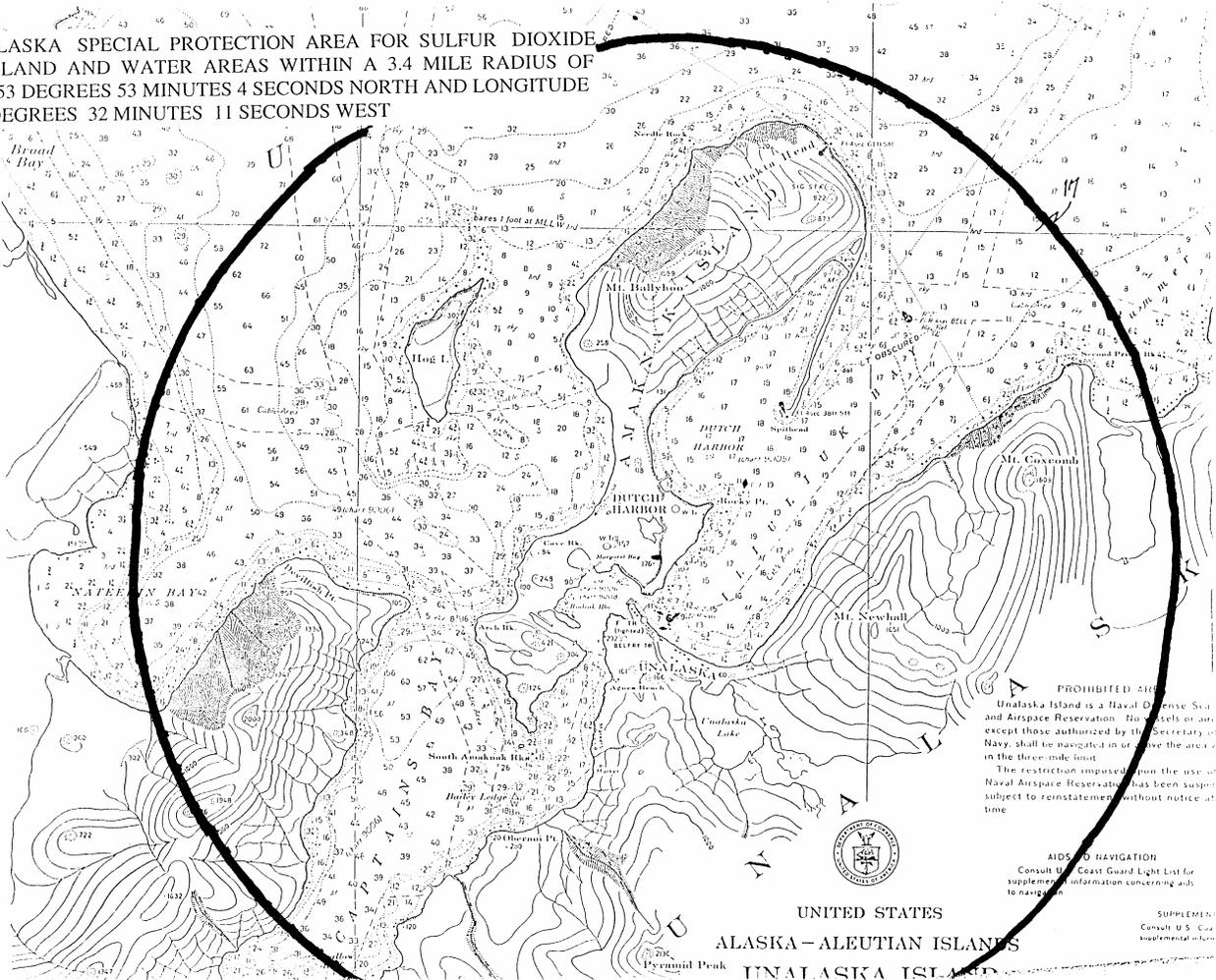
- 1) the facility must use 0.075% S content by weight diesel fuel or use natural gas.
- 2) The diesel electric generators or other diesel engines may not be used. The plant must operate using high line power.



ST PAUL SPECIAL PROTECTION AREA FOR SULFUR DIOXIDE
ALL LAND AND WATER AREAS SOUTH OF LATITUDE 57 DEGREES
8 MINUTES 29 SECONDS NORTH WITHIN 0.6 KILOMETERS OF ST PAUL
ISLAND

Instructions and Information

UNALASKA SPECIAL PROTECTION AREA FOR SULFUR DIOXIDE
 ALL LAND AND WATER AREAS WITHIN A 3.4 MILE RADIUS OF
 LAT 53 DEGREES 53 MINUTES 4 SECONDS NORTH AND LONGITUDE
 166 DEGREES 32 MINUTES 11 SECONDS WEST



PROHIBITED AIRCRAFT
 Unalaska Island is a Naval Defense Sea and Airspace Reservation. No vessels or aircraft, except those authorized by the Secretary of Navy, shall be navigated in or above the area in the three-mile limit.
 The restriction imposed upon the use of Naval Airspace Reservation has been suspended subject to reinstatement without notice at any time.

AIDS TO NAVIGATION
 Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUPPLEMENTAL INFORMATION
 Consult U.S. Coast Guard supplemental information.

UNITED STATES
 ALASKA - ALEUTIAN ISLANDS
 UNALASKA ISLAND