# **Alaska Department of Environmental Conservation Air Quality Control Minor Permit Application**

ADEC USE ONLY
Receiving Date:
ADEC Control #:



Revision Date: 1/04/06

### MINOR PERMIT APPLICATION - EMISSION UNIT INFORMATION

FOR A NEW STATIONARY SOURCE: Complete this form for all emission units.

### FOR A MODIFICATION TO AN EXISTING STATIONARY SOURCE:

IF YOU HAVE A TITLE V PERMIT: Complete this form for each emissions unit that is new or that is affected by a physical change or change in the method of operation.

IF YOU DO NOT HAVE A TITLE V PERMIT: Complete this form for all emissions units.

Section 1	Stationary Source Information
Source Nar	ne:
Source Phy	vsical Address:
City:	

Section 2 Emission Unit Identification and Description

Emission Unit No.	Equipment Type	Make	Model	Serial No.	Max. Rated Capacity or Max. Design Throughput

**Section 3 Emission Unit Use** 

Emission Unit No.	Is unit portable?		If portable, is unit:				Is this	unit a:		If limited	l operation, is the	ne unit:
[List same emissions= units as in Section 2.]	Yes No	- a non road engine? Yes No	- classified intermittent field suppor per Policy ( Yes	ly used oil t equipment	- classified an oil field construction unit per Po 04.02.104	l on olicy ?	primary (base load) unit?	or limited operation unit?	peaking unit?	black start unit?	Emergency / back-up unit?	or other?
					Yes	No						

### **Section 4** Fuels

Complete Section 4a or 4b for each emissions unit, as appropriate.

Section 4a Fuel Burning Equipment not including flares

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Emission Unit Number	Fuel Type(s)	Maximum fuel sulfur content*	Fuel Density	Higher Heating Value**	Maximum design
			(if liquid fuel)		fuel consumption rate
			lb/gal		
		wt. % ppm		☐ btu/gal ☐ Btu/dscf Other	
		☐ wt. % ☐ ppm		□ btu/gal □ Btu/dscf Other	
		wt. % ppm		☐ btu/gal ☐ Btu/dscf Other	
		wt. % ppm		☐ btu/gal ☐ Btu/dscf Other	
		wt. % ppm		□ btu/gal □ Btu/dscf Other	
		wt. % ppm		☐ btu/gal ☐ Btu/dscf Other	
		wt. % ppm		☐ btu/gal ☐ Btu/dscf Other	
		wt. % ppm		☐ btu/gal ☐ Btu/dscf Other	
		wt. % ppm		☐ btu/gal ☐ Btu/dscf Other	
	·	wt. % ppm		□ btu/gal □ Btu/dscf Other	
	·	wt. % ppm		☐ btu/gal ☐ Btu/dscf Other	

<sup>\*</sup>Use Weight percent sulfur for liquid fuels. Use parts per million  $H_2S$  for gaseous fuels.

Use more than one sheet if necessary.

<sup>\*\*</sup>Use Btu per gallon for liquid fuels. Use Btu per dry standard cubic foot for gaseous fuels.

### **Section 4b** Flares

Complete this section if the stationary source contains a flare.

Emission Unit	Heat release rate for pilot	Maximum heat release rate	Flare gas heat content (Btu/scf)	Flare gas H <sub>2</sub> S content (ppm)			
Number:	/ purge operation	(MMBtu/hr)					
	(MMBtu/hr)						
See attached for additional details							

**Section 5 Materials Processed and Methods of Operation** 

Emission Unit Number	Materials Processed	Maximum Material Processing rate	Describe Method of Operation				
See attached for additional details.							

Use more than one sheet if necessary.

Section 6 **Emission Control Information** (if applicable) Control Pollutant(s) Description of the Control Describe significant operating The Control equipment is Necessary: **Emission Unit** Number: equipment Controlled: equipment parameters and set points for the control equipment To comply To avoid a Other – give purpose of with an project control equipment emission classification standard?

### **Section 7** Emission Factors

See attached for additional details

Give exact citations of emission factor sources.

Emission Unit	Emission	Emission	Emission	Emission	Emission	Emission	Emission Factor	Emission	E mission factor	Emission
Number:	factor for	factor	Factor for	factor	factor for	factor	for CO	factor	for Lead	factor
	NOx:	source*	SO2	source*	PM-10	source*	(if within 10 km of	source*	(if new Stationary	source*
							nonattainment		Source)	
							area)			
For Emission fa	For Emission factors from sources other than published data (such as AP-42), documentation is attached.									

<sup>\*</sup>Emission factor source: e.g., AP-42, vendor, source test etc.

Use more than one sheet if necessary.

#### **Emission Unit Limits** Section 8 Proposed Operational **Emission Unit Existing Operational** Is the emission Is the emission unit Are you applying Are you applying If emission unit is or for Clean Unit for designation as a Number: Limit if any Limit if any unit designated would be a Clean designated as part of a Clean Unit? designation? Unit, for which a Pollution Control Pollution Control pollutant(s)? Project? Project? ☐ Yes ☐ No Yes □ No ☐ Yes ☐ Yes No No Yes No Yes No T Yes No Yes No Yes No No Yes Yes No ☐ Yes No Yes No Yes No Yes No Yes No No Yes Yes No No Yes No Yes Yes No Further explanation is attached. (Attach if necessary) Is your stationary source subject to a Plantwide Applicability Limitation? Yes If yes: Which pollutant(s)? Describe the limitation. Are you applying for a PAL? \( \subseteq \text{Yes} \subseteq \subseteq \text{No} \) If yes, which pollutnat(s)? Applicable State Emission Limits (listed in 18 AAC 50.050 through 18 AAC 50.090) Section 9 Complete this section for emissions units that are new or are affected by the physical change or change in operation. **Emission Limit or Standard Emission Unit Regulation Citation** Number:

Use more than one sheet if necessary.

A demonstration of compliance for each emission limit or standard must be attached in order for the application to be considered complete.

## **Section 10 Incinerators**

In addition to Sections 1-9, complete this section if the stationary source contains an incinerator.

Emission Unit	Rated capacity in lbs / hour	Type of waste burned				
Number:						
See attached for additional details						

# **Section 11 Asphalt Plant**

*If the stationary source is an asphalt plant, complete this section instead of Section 2.* 

	Make and Model	Primary burner size (Btu per hour)	Chamber Size (Cubic Feet)	Maximum Fuel Feed: Gallon/hr Scf/hr				
Dryer:		(Did per flour)	(Cubic Peet)					
Afterburner:								
Dryer:								
Afterburner:								
Alterburiler.								
If emission unit is an asphalt plant, identify each piece of installed equipment 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. List only diesel engines that are stationary.								
Material handling devices:  Conveyors, Loaders, Bins, Elevators, Screens, or Chutes		Any of the foll Asphalt c Fuel Fired Mixers Pug mills	owing: ement heaters, d Silo Heaters					
Dryer Control Devices:  Baghouse Cyclone Scrubber Knockout box		Diesel Eng Make & 1 Make & 1 Make & 1	model, Size model, Size					
Distance from dryer exhaust outlet to:  Nearest residence Other occupied structure	- -	Was the asphal after June 11, 1 Before After?	1973?	l, modified or reconstructed before or				
If requested by the department:  Attached is a copy of the operation Attached is  a copy of the most recent particles a schedule for conducting the conducti	articulate matter source the test.	test if within the last five		plan is attached.				

# **Section 12 Soil Remediation Unit**

If the stationary source is a soil remediation unit, complete this section instead of Section 2..

	Make and Model	Primary burner size	Chamber Size	Maximum Fuel Feed:
		(Btu per hour)	(Cubic Feet)	Gallon/hr Scf/hr
Dryer, rotary kiln, combustion				
device in fluidized bed, etc.:				
Afterburner:				
Dryer, rotary kiln, combustion				
device in fluidized bed, etc.:				
Afterburner:				
Identify each piece of installed equipme				pment listed has a place to provide the
size and capacity, provide that addition	al information. List only			
Material handling devices:		Other En	nission Control Equipmen	nt. List:
Conveyors,				
Loaders,				
Bins,				
☐ Elevators,		Diesel Eng	ines:	
Screens, or		Make &	model, Size	_hp, Max fuel rategal/hr
Chutes			model, Size	
		Make &		
Dryer Control Devices:		Storage areas	for	
Baghouse		Untrea	ted soils (Describe)	
Cyclone		If stora	age bin provide the date i	installed:
Scrubber			d soils (Describe)	
Knockout box			age bin provide the date i	installed:
_			truck loading station	Date Installed:
		l <del>==</del>	pading station	Date Installed:
Distance from emission unit outlet to:		I		
Nearest residence				
Other occupied structure	•			
	<del>-</del>			

Attached is a VOC and dust control plan.	If requested by the department:
☐ Attached is a carbon monoxide continuous emission monitor performance test report, or schedule for conducting the test.  ☐ Attached is an approval from Spill Protection and Response (SPAR) of your facility Contaminated Sites Workplan.	Attached is a copy of the operation and maintenance plan for the unit.  Attached is  a copy of the most recent particulate matter source test if within the last five years; or  a schedule for conducting the test.

# **Section 13 Rock Crushers**

If the stationary source is a rock crusher, complete this section instead of Section 2.

<b>Initial Crushers</b>		Other Crushers				
Equipment Id.	Rated capacity (Tons per hour)	Equipment Id.	Rated capacity (Tons per hour)			
Other Grinding Mills		Screening Operations				
Equipment Id.	Rated capacity (Tons per hour)	Equipment Id.	Rated capacity (Tons per hour)			
Belt Conveyors		Belt Conveyors				
Equipment Id.	Rated capacity (Tons per hour)	Equipment Id.	Rated capacity (Tons per hour)			

	Storage Bins	
Rated capacity (Tons per hour)	Equipment Id.	Rated capacity (Tons per hour)
	Enclosed Truck of	r Railcar Loading Stations
Rated capacity (Tons per hour)	Equipment Id.	Rated capacity (Tons per hour)
ated above to: ture	If requested by the  For a rock crus	department: sher, a fugitive dust control plan is attached.
	Rated capacity (Tons per hour)  ted above to:	Rated capacity (Tons per hour)  Enclosed Truck of Equipment Id.  Enclosed Truck of Equipment Id.  If requested by the ted above to:

NOTE: Rock Crushers and Asphalt Plants may be subject to federal New Source Performance Standards (40 C.F.R. 60, Subparts I and OOO.) The department no longer enforces these standards through minor permit. Address all correspondence about compliance with these standards to EPA.