

**Alaska Department of Environmental Conservation
Air Quality Control Construction Permit Application**

ADEC USE ONLY
Receiving Date:
ADEC Control #:



FORM F – EMISSION UNIT INFORMATION

Section 1 Stationary Source Information

Source Name:
Source Physical Address:
City:

Include a copy of this form for each emission unit that will emit a regulated air pollutant.

Section 2 Emission Unit Identification

Emission Unit No.: _____

Section 3 Emission Unit Description

Equipment Type:	Make:
Model (attach Vendor Specs):	Serial No.:
Maximum Rated Capacity or Maximum Design Throughput:	
<i>Note: Rated capacity or design throughput may become a permit limit.</i>	

Section 4 Fuels and Materials Processed

Fuel Type(s):	Maximum Design Fuel Consumption Rate:
Materials Processed:	Maximum Material Processing Rate:
Describe Method of Operation:	
<input type="checkbox"/> See attached for additional details.	
Schedule of Operation (indicate the maximum operation for each time period):	3-hr _____ 8-hr _____ 24-hr _____ Days/yr _____

Section 5 Exhaust Parameters

Stack Height (m):	Base Elevation (m):	Stack Inner Exhaust Diameter or Dimensions (m):	Actual Flow Rate (acm/s):	Exit Temp (deg K):
Is stack height greater than 65 meters? YES <input type="checkbox"/> NO <input type="checkbox"/>				
<input type="checkbox"/> If yes, a calculation of good engineering practices stack height, including any computer modeling analyses or field studies, is attached. <i>If yes, this calculation must be attached in order for your application to be complete.</i>				

Section 6 Plans Showing Emission Unit and Exhaust Point Location

A set of plans showing the location of the emission unit, associated buildings and other nearby structures is attached.
 A table of building dimensions is attached.
Note: These must be attached in order for your application to be complete.

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Emission Unit No.: _____

Section 7 Emission Control Information (if applicable) *NOTE: For PSD and Nonattainment Major Sources and Modifications, for control equipment installed for BACT/LAER purposes, skip this section and complete Section 11 instead.*

Control Equipment:	Pollutant(s) Controlled:		
Provide a physical description of the control equipment:			
<input type="checkbox"/> See attached for additional details.			
Provide a description of the significant operating parameters and set points for the control equipment:			
<input type="checkbox"/> See attached for additional details.			
This control equipment is necessary:	<input type="checkbox"/> To comply with an emission standard	<input type="checkbox"/> To avoid a project classification	<input type="checkbox"/> Other – Indicate purpose of control equipment:

Control Equipment:	Pollutant(s) Controlled:		
Provide a physical description of the control equipment:			
<input type="checkbox"/> See attached for additional details.			
Provide a description of the significant operating parameters and set points for the control equipment:			
<input type="checkbox"/> See attached for additional details.			
This control equipment is necessary:	<input type="checkbox"/> To comply with an emission standard	<input type="checkbox"/> To avoid a project classification	<input type="checkbox"/> Other – Indicate purpose of control equipment:

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Emission Unit No.: _____

Section 8 Applicable Federal Emission Limits

New Source Performance Standard (NSPS) Affected Facility?	YES <input type="checkbox"/>	NO <input type="checkbox"/>	<i>If yes, complete Form J.</i>
National Emission Standard for Hazardous Air Pollutants (NESHAP) Affected Facility?	YES <input type="checkbox"/>	NO <input type="checkbox"/>	<i>If yes, complete Form K.</i>
Maximum Achievable Control Technology (MACT) Affected Facility?	YES <input type="checkbox"/>	NO <input type="checkbox"/>	<i>If yes, complete Form K.</i>

Other Emission Limits listed in 18 AAC 50.040

Emission Limit or Standard	Regulation Citation

A demonstration of compliance for each emission limit or standard is attached. *Note: This must be attached in order for your application to be complete.*

Section 9 Applicable State Emission Limits (listed in 18 AAC 50.050 through 18 AAC 50.090)

Emission Limit or Standard	Regulation Citation

A demonstration of compliance for each emission limit or standard is attached. *Note: This must be attached in order for your application to be complete.*

Include multiple copies of this page if more space is required.

Section 10 Mass Emission Rates for Facilities Requiring an Air Quality Impact Analysis

Regulated Air Pollutant	Mass Emission Rate (grams/second)				
	1-hr	3-hr	8-hr	24-hr	Annual
Carbon Monoxide					
Nitrogen Oxides					
PM-10					
Sulfur Oxides					

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Emission Unit No.: _____

Section 11 Emission Control Information for PSD and/or Nonattainment Major Sources and Modifications Only

Control Equipment:	Pollutant(s) Controlled:
Provide a physical description of the control equipment:	
<input type="checkbox"/> See attached for additional details.	
Provide a description of the significant operating parameters and set points for the control equipment:	
<input type="checkbox"/> See attached for additional details.	
This control equipment is proposed as BACT <input type="checkbox"/> LAER <input type="checkbox"/> for pollutant(s):	
Proposed BACT/LAER performance limit:	lbs/hr for pollutant:
_____	_____
_____	lbs/hr for pollutant:
_____	_____
_____	lbs/hr for pollutant:
<i>Note: The proposed BACT/LAER performance limits may become permit limits.</i>	
<input type="checkbox"/> If the control equipment is proposed as BACT or LAER, a detailed BACT analysis or LAER demonstration is attached. <i>Note: This must be attached in order for your application to be complete.</i>	

Control Equipment:	Pollutant(s) Controlled:
Provide a physical description of the control equipment:	
<input type="checkbox"/> See attached for additional details.	
Provide a description of the significant operating parameters and set points for the control equipment:	
<input type="checkbox"/> See attached for additional details.	
This control equipment is proposed as BACT <input type="checkbox"/> LAER <input type="checkbox"/> for pollutant(s):	
Proposed BACT/LAER performance limit:	lbs/hr for pollutant:
_____	_____
_____	lbs/hr for pollutant:
_____	_____
_____	lbs/hr for pollutant:
<i>Note: The proposed BACT/LAER performance limits may become permit limits.</i>	
<input type="checkbox"/> If the control equipment is proposed as BACT or LAER, a detailed BACT analysis or LAER demonstration is attached. <i>Note: This must be attached in order for your application to be complete.</i>	

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Section 12 Attachments

Attachments Included. List attachments: _____

