MINOR PERMIT APPLICATION FORMS
August 30, 2004

This document contains the following application forms:
- Stationary Source Identification Form
- Minor Permit Emission Summary Form
- Emission Unit Information Form

These forms are required for minor permit applications by the 18 AAC 50.540. [Not all forms are necessarily required for a particular stationary source.]

This document shows what the content of an application must include. The format and level of detail of the forms may vary among paper, electronic, or on-line forms, and depending on the type of emissions unit or stationary source.

The department may choose not to require all of the information on a form for some types of emissions units or stationary sources.

The applicant must provide the information the department will need to
- Determine permit applicability
- Determine whether a new or modified stationary source will cause a violation of ambient air quality standards or a control strategy [such as emission standards or prohibitions], and
- Write permits that will satisfy the requirements of 18 AAC 50.542 and 18 AAC 50.544.

Minor Permit Application
Stationary Source Identification Form

Stationary Source Name	
Project Name (if different)	
Stationary Source Physical address	
UTM Coordinates or latitude & longitude	
Name of legal owner	
Mailing address of legal owner	
Telephone number of legal owner	
E mail address of legal owner	
Name of operator	
Mailing address of operator	
Telephone number of operator	
E mail address of operator	
Name of designated agent	
Mailing address of designated agent	
Physical address of designated agent	
Telephone number of designated agent	
E mail address of designated agent	
Name of billing contact	
Mailing address of billing contact	
Telephone number of billing contact	
E mail address of billing contact	
Name of application contact	
Mailing address of application contact	
Telephone number of application contact	
E Mail address of application contact	
Is this permit for: (Check one)	
A new or relocated stationary source exceeding thresholds in 18 AAC 50.502(c)(1)	
Modifying an existing source with existing emissions greater than amounts in 18 AAC 50.502(c)(1), and an increase greater than in 18 AAC 50.502(c)(3)	
An existing source listed below	
The stationary source contains: (Check any that apply. Say whether new, relocated, or existing.)	
An asphalt plant	
A thermal soil remediation unit	
A rock crusher	
An incinerator with 1000 lbs/hr capacity	
A coal preparation plant	
A Port of Anchorage Stationary Source	
An emission unit with a rated capacity of 10 MMBtu per hour or more that commences construction or relocates in an SO2 special	

protection area after January 18, 1997	

If existing, does the stationary source have (Check any that apply)	
An air quality permit (give number)	
An Owner Requested Limit (give number)	
A Pre Approved (Emission) Limit (give number)	
Are you requesting (Check all that apply)	
Clean Unit designation	
Pollution Control Project designation	
Establish Plantwide Applicability Limit	
Establish emission reductions to offset nonattainment pollutant	
Owner Requested Limit	
Revise or Rescind Title I Permit Conditions	
Provide a short description of the project: If the project is a modification to an existing stationary source, how will this project affect an existing process. If new, what is the nature and purpose of the project. Attach additional sheets if necessary.	
If required to submit an analysis of ambient air quality, or if otherwise requested by the department, provide the following: • a map or aerial photograph showing the locations and distances of ¤ emissions units, buildings, emitting activities and boundaries of the associated with the stationary source, and ¤ nearby or adjacent residences, roads, other occupied structures and general topography within 15 kilometers; • Coordinates and elevations of each modeled unit, along with parameters used to characterize each unit; • An electronic copy of all modeling files; • Other information needed to perform or evaluate air quality dispersion modeling.	
List the number and type of emission units (including non road engines) in this project (e.g., number of diesel engines; number of boilers)	
Attach a completed Coastal Project Questionnaire (CPQ) for the stationary source if located within an approved coastal district.	
Attach a certification consistent with 18 AAC 50.205.	

Minor Permit Application
Emission Unit Information Form

This form is for use by minor permit applicants for providing information required under 18 AAC 50.540(c)(1).

Note: Specific questions will be dependent on the answers provided to previous questions, but may include the following (or similar). The Department intends to develop this form into an on-line format.

Applicants will need to provide the following information for *each* emission unit (as applicable).

This form asks for information showing that the emission unit is capable of complying with the department's emission standards and prohibitions. In many cases the information already provided will be adequate. For example, for a heater burning very low sulfur natural gas, no additional information will be needed to show that the unit is capable of complying with the particulate matter, opacity, or SO_2 emission standards.

For other emission units, emission rate information such as manufacturer data may be needed for an adequate showing.

Reciprocating Engines, Turbines, Boilers & Heaters

- Equipment type
- Make & model
- Rating (brake-hp, kW, MMBtu/hr fuel input, MMBtu/hr boiler output, boilerhp)
- Is this unit portable or permanent (stationary)?
    - If portable and if internal combustion, is this a non-road engine?
    - If portable:
        - is this unit classified as intermittently used oilfield support equipment, per AWQ 03-016?
        - is this unit classified as a construction unit per AWQ 03-017?
- Is this a primary (base-load) or limited operation unit?
    - If limited operation, is this a
        - peaking unit,
        - black-start unit,
        - emergency/backup unit, or
        - other _____?
- Fuels (select all that apply):
    - diesel,
    - gas,
    - propane,
    - fish oil,
    - used oil,
    - other - _____
- Maximum fuel rate for each fuel (gal/hr, scf/hr, MMBtu/hr, lbs/hr)

- Briefly describe any associated air pollution control equipment or methods designed to reduce or control emissions: _____
- Maximum short-term emission factors (lb/hr) and data source (e.g., source test, vendor data, AP-42, other? - ____)
    - NO_2
    - SO_2
    - PM-10
    - CO

Flares:

- Heat release rate (MMBtu/hr)
    - Pilot/purge operation:
    - Maximum:
- Flare gas heat content (Btu/scf):
- Flare gas H_2S content (ppm):
- Maximum short-term emission factors (lb/hr) and data source (e.g., source test, vendor data, AP-42, other? - ____)
    - NO_2
    - SO_2
    - PM-10
    - CO

Incinerators:

- Make & model:
- Rated capacity (lbs per hour):
- Waste type:
- Control equipment description:
- Maximum short-term emission factors (lb/hr) and data source (e.g., source test, vendor data, AP-42, other? - ____)
    - NO_2
    - SO_2
    - PM-10
    - CO

Other:

- Equipment Type:
- Make & model:
- Maximum rated capacity or maximum design throughput:
- Fuel type(s):
- Maximum design fuel consumption rate:
- Materials processed:
- Maximum material processing rate:
- Describe method of operation:
- Maximum short-term emission factors (lb/hr) and data source (e.g., source test, vendor data, AP-42, other? - ____)
    - NO_2
    - SO_2
    - PM-10
    - CO

Asphalt Plants and Soil Remediation Units:

• Source List

] Dryers:
  ] Make & model:
  ] Rated Capacity (tons per hour)_____
  ] Primary Burner: Size Btu/hr Chamber Size _____ cubic feet &
  ] Maximum fuel feed _____ gallon/hr
] Afterburners
  ] Rated Capacity _____
] Material handling devices such as:
  ] Conveyors,
  ] Loaders,
  ] Bins,
  ] Elevators,
  ] Screens, or
  ] Chutes
  ] Asphalt cement heaters,
  ] Fuel fired Silo heaters,
  ] Mixers,
  ] Pug mills,
  ] Dryer control devices:
  ] Baghouses,
  ] Cyclones,
  ] Scrubbers,
  ] Knockout Boxes,
  ] Stationary diesel engines: Size _____ hp, max fuel rate
  ] _____gal/hr
] Other _____.

- Distance to nearest residence._____
- Distance to nearest other occupied structure._____

] Attach Operation and Maintenance Plan
] Attach a particulate matter source test report dated within the last five years, or schedule for conducting the test;

For Asphalt Plant:

] Attach Fugitive dust plan for asphalt plant within one mile of nearest residence or other occupied structure.
- Constructed, modified, or reconstructed before or after June 11, 1973? ___-_____.

For Soil Remediation Unit:

] Attach dust and VOC control plan
] Attach a carbon monoxide continuous emission monitor performance test report, or schedule for conducting the test;

] Attach approval from Spill Protection and Response (SPAR) of your facility Contaminated Sites Workplan

Rock Crushers:

For Initial crushers, Other Crushers, Grinding Mills, Screening Operations, Belt Conveyors, Bucket Elevators, Bagging Operations, Storage Bins, Enclosed Truck or Railcar Loading Stations, Stationary fuel storage tanks:

Equipment Id. _____Rated capacity _____ (units) Date Built _____

Distance to nearest offsite residence or other occupied structure._____

All:

- Existing operational limits (e.g., gal/yr, hrs/yr, kW-hr, seasonal operation - _____, non-concurrent operation with unit - _____, other? - _____)

- Proposed operational limits.

- Information showing that the emission unit is capable of complying with applicable standards in 18 AAC 50.045 – 18 AAC 50.080.

- Other information requested in writing by the department as necessary to determine if the proposed stationary source or modification will meet the criteria in 18 AAC 50.542, or allow the department to issue a permit that satisfies 18 AAC 50.544.

- Control equipment:
    - Pollutants controlled:
    - Provide a physical description of the control equipment:
    - Provide a description of the significant operating parameters and set points for the control equipment:

Minor Permit Application
Emission Summary Form

This form is for use by all minor permit applicants for providing information required under 18 AAC 50.540(b).

Note: The Department intends to develop this form into an on-line format. Specific questions will be dependent on the answers provided to previous questions, but may include the following (or similar).

Is any emissions unit associated with this project designated as a Clean Unit?* ___ If yes,

- emissions unit ID_____
- pollutant _____

Does your stationary source have a plantwide applicability limitation?* ___ If yes,

- pollutant _____

Emission Rates

For these pollutants:

- NO_x
- SO_2
- PM-10
- CO (if located within 10 kilometers of a nonattainment area)
- Lead

- For a **new stationary source**, calculate the annual Potential Emissions; and

- For a **change to an existing stationary source** that increases emissions calculate and show:

  - Annual Potential Emissions from the stationary source before this project; and
  - Annual emissions from the project as either Potential Emissions or Actual Emissions as follows

    ¤ For Potential Emissions
      - The change in potential to emit; and
      - The potential to emit after this project;

    ¤ For Actual Emissions
      - Baseline actual emissions*; and
      - Projected actual emissions*

* As described in 40 C.F.R. 52.21.

For each calculation, provide information necessary for the department to verify the calculations for each emissions unit such as:

- emission factor,
- the source of the emission factor,
- the rated capacity,
- any enforceable limit, and
- a description of the type of modification for the unit.

Show the method of calculation if you use a method other than [(rated capacity) times (emission factor)].

Fuel Information

For each ***liquid fuel*** used at this stationary source, provide:

- Description (e.g., DF#2, Used Oil, Fish Oil, etc)
- Maximum sulfur content (percent, by weight):
- Fuel density (lb/gal):
- Higher Heating Value (Btu/gal):

For each ***gaseous fuel and flare gas*** used at this stationary source, provide:

- Description (e.g., natural gas, propane, etc)
- Maximum H_2S content (ppm):
- Higher Heating Value (Btu/dscf):

For each ***solid fuel*** used at this stationary source, provide:

- Description (e.g., bituminous coal, etc)
- Maximum sulfur content (percent, by weight):
- Higher Heating Value (Btu/lb):