

Solid Waste Incinerator Permit Applicability



This checklist may assist vendors, owners and operators of solid waste incinerators to identify potentially applicable State and Federal air quality regulations in the State of Alaska. A stationary source may be subject to both State and Federal air quality regulations.

Owners or operators of solid waste incinerators may contact ADEC's Air Permits Program (APP) for assistance in determining State and Federal regulation applicability. See below.

Will this incinerator be used at a stationary source under an operating permit? If so, provide permit #:		
Which of the following waste products do you plan on burning?		
<input type="checkbox"/> "Municipal/Residential/Institutional" wastes include all nonhazardous waste generated in households, institutions, and industry, as well as by agricultural activities. <ul style="list-style-type: none"> Depending on the size and construction date, your incinerator may be subject to 40 CFR 60 Subparts Cb, Ea, Eb, AAAA, BBBB, EEEE, or FFFF. Your unit may require an operating permit. 		
<input type="checkbox"/> "Medical or infectious" waste material include all materials generated in the diagnosis, treatment, or immunization of human beings or animals, as well as all materials that are a threat to human health due to biological agents. <ul style="list-style-type: none"> Depending on the construction date, your incinerator may be subject to 40 CFR 60 Subpart Ec or 40 CFR 62 Subpart HHH. Your unit may require an operating permit. 		
<input type="checkbox"/> "Commercial/Industrial" waste generated at a commercial or industrial facility. <ul style="list-style-type: none"> Depending on the construction date, your incinerator may be subject to 40 CFR 60 Subpart CCCC or DDDD, or 40 CFR 62 Subpart III. Your unit may require an operating permit. 		
<input type="checkbox"/> "Sewage sludge" for the purpose of reducing the volume of sewage by removing combustible matter. <ul style="list-style-type: none"> Depending on the construction date, your incinerator may be subject to 40 CFR 60 Subparts O or LLLL. Your unit may require an operating permit. 		
<input type="checkbox"/> "Hazardous Waste" – If you plan to incinerate hazardous waste, your incinerator is likely subject to RCRA regulations. Contact the U.S. EPA for further information (see http://www.epa.gov/epawaste/comments.htm).		
Charge Capacity:	Prior to the installation of one or more incinerators with a cumulative rated capacity of 1,000 pounds or more per hour, the source requires a state minor permit.	
The incinerator may also require a minor permit if the potential emissions exceed the thresholds for minor permits contact APP for further instructions. Emissions estimations may be performed based on emission factors derived from the incinerator's manufacturer or EPA AP-42 emission factors clearinghouse (www.epa.gov/ttnchie1/ap42).		
Emission type	Potential to Emit (PTE)	Minor Permit Limit
Carbon Monoxide (CO) *within 10 km of a CO nonattainment area		100 TPY*
Nitrogen Oxides		40 TPY
Sulfur Oxides		40 TPY
PM-10		15 TPY
PM-2.5		10 TPY
Lead		0.6 TPY

For permit application information or technical assistance, please forward a copy of this checklist with the incinerator unit specifications to either:

Zeena Siddeek, 265-5303, Fathima.Siddeek@alaska.gov

Patrick Dunn, 269-7582, Patrick.Dunn@alaska.gov

Or contact the Air Permits Program at: Alaska Department of Environmental Conservation, 619 E. Ship Creek Ave, Ste 249 Anchorage, AK 99501, (907) 269-7577

References:

State Regulations: Alaska Administrative Code (AAC)

- 18 AAC 50.040 Federal standards adopted by reference
- 18 AAC 50.050 Incinerator emission standards
- 18 AAC 50.080 Ice fog standards
- 18 AAC 50.110 Air Pollution Prohibited
- 18 AAC 50.065 Open burning
- 18 AAC 50.326(e) Insignificant emission units: emission rate basis.
- 18 AAC 50.502 Minor permits for air quality protection

Federal Regulations:

- 40 CFR 60 Subpart Cb – Emissions guidelines and compliance times for large municipal waste combustors that are constructed on or before September 20, 1994
- 40 CFR 60 Subpart Ce – Emission guidelines and compliance times for hospital/medical/infectious waste incinerators
- 40 CFR 60 Subpart Ea – Standards of performance for municipal waste combustors for which construction is commenced after December 20, 1989 and on or before September 20, 1994
- 40 CFR 60 Subpart Eb - Standards of performance for large municipal waste combustors for which construction is commenced after September 20, 1994 or for which modification or reconstruction is commenced after June 19, 1996
- 40 CFR 60 Subpart Ec – Standards of performance for new stationary sources:
Hospital/medical/infectious waste incinerators
- 40 CFR 60 Subpart O – Standards of performance for sewage treatment plants
- 40 CFR 60 Subpart AAAA – Standards of performance for small municipal waste combustion units for which construction is commenced after August 30, 1999 or for which modification or reconstruction is commenced after June 6, 2001
- 40 CFR 60 Subpart BBBB – Emission guidelines and compliance times for small municipal waste combustion units constructed on or before August 30, 1999
- 40 CFR 60 Subpart CCCC – Standards of performance for commercial and industrial solid waste incineration units
- 40 CFR 60 Subpart DDDD – Emission guidelines and compliance times for commercial and industrial solid waste incineration units
- 40 CFR 60 Subpart EEEE – Standards of performance for other solid waste incineration units for which construction is commenced after December 9, 2004, or for which modification or reconstruction is commenced on or after June 16, 2006
- 40 CFR 60 Subpart FFFF – Emission guidelines and compliance times for other solid waste incineration units that commenced construction on or before December 9, 2004
- 40 CFR 60 Subpart LLLL – Standards of performance for new sewage sludge incineration units
- 40 CFR 60 Subpart MMMM – Emission guidelines and compliance times for existing sewage sludge incineration units
- 40 CFR 62 Subpart HHH – Federal plan requirements for hospital/medical/infectious waste incinerators constructed on or before December 1, 2008
- 40 CFR 62 Subpart III – Federal plan requirements for commercial and industrial solid waste incineration units that commenced construction on or before November 30, 1999