

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 for additional details.

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 waste" includes all nonhazardous waste generated in households, offices, stores, and institutions, as well as yard waste. <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" ¹ includes 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, you 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" includes all nonhazardous waste generated at commercial or industrial facilities. <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, LLLL, or MMMM*. 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 (12 tons/day), 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. 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). Contact APP for further instructions.		
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

The Department charges a fee per hour of staff time for technical assistance. See 18 AAC 50.400(h). This fee can be waived for qualifying small businesses. For permit application information or technical assistance, please forward a copy of this checklist and the incinerator unit specifications to:

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.

¹ Incinerators used solely for cremating human remains are exempt from **Federal** incinerator regulations.

Regulations and Permit Applicability Checklist for Incinerators

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 (design combustion capacity greater than 250 tons per day) municipal waste combustors (MWCs) 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 large MWCs that commenced construction after December 20, 1989 and on or before September 20, 1994
- 40 CFR 60 Subpart Eb - Standards of performance for large MWCs that commenced construction 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 (capacity of at least 35 tons/day but no more than 250 tons/day) MWCs that commenced construction after August 30, 1999 or commenced reconstruction or modification after June 6, 2001
- 40 CFR 60 Subpart BBBB* – Emission guidelines and compliance times for small MWCs constructed on or before August 30, 1999
- 40 CFR 60 Subpart CCCC – Standards of performance for commercial and industrial solid waste incineration (CISWI) units that commenced construction after June 4, 2010 or commenced reconstruction or modification after August 7, 2013.
- 40 CFR 60 Subpart DDDD* – Emission guidelines and compliance times for CISWI units that commenced construction on or before June 4, 2010, or commenced reconstruction or modification after June 4, 2010 but no later than August 7, 2013.
- 40 CFR 60 Subpart EEEE – Standards of performance for other solid waste incineration (OSWI) units that commenced construction after December 9, 2004, or commenced reconstruction or modification on or after June 16, 2006
- 40 CFR 60 Subpart FFFF* – Emission guidelines and compliance times for OSWI 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 CISWI units that commenced construction on or before November 30, 1999. Cyclonic barrel burners are currently exempt from this Subpart.

* The Department has not yet developed or submitted any existing emission guideline State Plans to the U.S. EPA in accord with the procedures outlined in 40 C.F.R. Part 60, Subparts BBBB, DDDD, FFFF, and MMMM. Therefore the model rule is not an applicable requirement at this time.

If you own or operate an incinerator that is subject to these rules, please contact the Air Permits Program for guidance, as most affected facilities are required to submit an initial notification.