



Air Quality Operating Permit Application: General Incinerator Operating Permit

SOURCE NAME: _____	DATE: _____
NDEQ FACILITY ID#: _____	

THE INSTRUCTIONS ACCOMPANYING THIS SECTION CONTAIN DETAILED EXPLANATIONS.
Please type responses or use black ink. Do NOT use pencil.

Section 1. Administrative Information and Certification:

Source Information									
1) Source Name:									
2) NDEQ Facility ID#:									
3) Source SIC Code(s):									
4) Source NAICS Code(s):									
5) Source Description:									
6) Physical Address:									
7) City:				8) State: Nebraska			9) Zip:		
10) County:		¼	¼	Section:		Township:		Range:	
11) Is the source located within 50 miles of another state? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, indicate which state(s): <input type="checkbox"/> Colorado <input type="checkbox"/> Iowa <input type="checkbox"/> Kansas <input type="checkbox"/> Missouri <input type="checkbox"/> South Dakota <input type="checkbox"/> Wyoming									
12) UTM Coordinates: Zone: X: Y:									
13) Is the source located on leased property? <input type="checkbox"/> No <input type="checkbox"/> Yes If yes, fill in 14-18 below									
14) Property Owner Name:									
15) Property Owner Mailing Address:									
16) Property Owner City:				17) State:			18) Zip:		
If your source is owned by a business or government entity with a different name, complete 19 through 24.									
19) Owner Name:									
20) Owner Mailing Address:									
21) Owner City:				22) State:			23) Zip:		
24) Is the owner incorporated? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, name of state where incorporated:									
Contact Information									
25) Source Contact Person:									
26) Source Contact Person's Title or Responsibility:									
27) Phone Number:				29) Fax Number:					
28) Alt. Phone Number:				30) E-mail Address:					
31) Who is the Primary Contact for questions? <input type="checkbox"/> Source Contact <input type="checkbox"/> Other (fill in 32-37 below)									
32) Primary Contact Name:									
33) Primary Contact Company:									
34) Phone Number:				36) Fax Number:					
35) Alt. Phone Number:				37) E-mail Address:					



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Section 1. Administrative Information and Certification (continued):

Operating Schedule

38) Is this incinerator operated seasonally?
 Yes No If Yes, give the operating range in months:

39) Operating Hours of incinerator (seasonal and non-seasonal sources):
 Hours per Day: _____ Days per Week: _____ Weeks per Year: _____

Project Information

40) This application is for (check one):
 Initial General Incinerator Operating Permit
 General Incinerator Operating Permit Renewal; Expiration Date of Current Permit: _____

Historical Permitting Information

41) What year was the incinerator originally constructed?

42) Has your source received any permits prior to this application:
 Yes No If Yes, provide a brief description of each construction permit (CP), the most recent operating permit (OP), and other (low emitter determination or no-operating-permit-required determination) obtained from the NDEQ (attach additional sheets if needed).

Date Permit Issued	Type of Permit	Brief Description
	<input type="checkbox"/> CP <input type="checkbox"/> OP <input type="checkbox"/> Other	
	<input type="checkbox"/> CP <input type="checkbox"/> OP <input type="checkbox"/> Other	
	<input type="checkbox"/> CP <input type="checkbox"/> OP <input type="checkbox"/> Other	
	<input type="checkbox"/> CP <input type="checkbox"/> OP <input type="checkbox"/> Other	
	<input type="checkbox"/> CP <input type="checkbox"/> OP <input type="checkbox"/> Other	

43) Construction Permit(s) Attached: Yes No
The operating permit application must include a copy of each active construction permit issued for your incinerator.

Source Description

44) On separate sheet(s) of paper, provide a brief narrative description of your source and how the incinerator is used at your source. The narrative should also explain how materials (including fuel) flow through the incineration process.

Is a Source Description included with your application?
 Yes No If No, Please Explain:

Source Layout Diagram

45) On a separate sheet(s) of paper, provide a diagram or site drawing that shows all buildings, the incinerator(s), any other emission points and units, stack(s), control equipment (if any), and property boundaries. Make sure all elements in the drawing are properly identified. Show and identify fences or other public access restrictions. Be sure to identify adjacent roads and include a north arrow. Include an effective date for the diagram.

Is a Source Layout Diagram included with your application?
 Yes No If No, Please Explain:



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Section 1. Administrative Information and Certification (continued)

Responsible Official Certification Statements	
46) Compliance Certification	
<input type="checkbox"/> I hereby certify that, based on information and belief formed after reasonable inquiry, the incinerator that emits air pollutants, which is identified in this application and that is subject to the applicable requirements identified in this application: <ol style="list-style-type: none"> 1. Is in compliance with all applicable requirements; 2. Will continue to comply with all applicable requirements; and, 3. Will comply with all applicable requirements for which compliance is not currently achieved. 	
47) Truth and Accuracy Certification	
<input type="checkbox"/> I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this Air Quality Operating Permit application are true, accurate, and complete. I certify that all hard copies of this application are identical in content.	
48) Application Submittal	
<input type="checkbox"/> I certify that the application package contains an original of the application (Sections 1 through 4) and a copy of the application.	
<input type="checkbox"/> I certify that a copy of each active construction permit is attached to the original application. (The application copy does not have to include the construction permits.)	
<input type="checkbox"/> I certify that the New Source Performance Standard (NSPS) Applicability Review is attached to the original application.	
49) Responsible Official Certification (see instructions for signatory requirements):	
Typed or Printed Name of Responsible Official	Title
Signature of Responsible Official	Date (mm/dd/yyyy)



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Section 2. Incinerator Information

50) Incinerator Type									
<input type="checkbox"/> Excess Air				<input type="checkbox"/> Starved Air					
Other (describe):									
Note: If you selected Other, you will need to consult with the NDEQ.									
Manufacturer's Information									
51) Manufacturer's Name:									
52) Manufacturer's Mailing Address:									
City:		State:			Zip Code:				
53) Telephone:				54) Web Site:					
55) Emission Control <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, select the type of emission control									
<input type="checkbox"/> Afterburner		<input type="checkbox"/> Fabric Filter (Baghouse)			<input type="checkbox"/> Electrostatic Precipitator				
Other:									
56) Control Efficiency:				57) Pollutant(s) Controlled:					
58) If the incinerator has an afterburner, please provide the afterburner temperature in Fahrenheit:									
59) Do you want to limit emissions by making the control device required: <input type="checkbox"/> Yes <input type="checkbox"/> No									
60) Auxiliary Fuel									
Type:				Heat Content (include units):					
61) Maximum Fuel Capacity of Incinerator (include units):									
Incinerator Throughput Rating (Capacity)									
62) Maximum Incinerator Throughput (from Manufacturer; include units)									
63) Maximum throughput limit for incinerator (from the CP or requested in this application): <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide the limit (include units):									
64) Maximum Annual Throughput (tons per year) if different from #62:									
65) Incinerator Limited Operation Schedule <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, enter the limited schedule									
Hours per Day:			Days per Week:			Weeks per Year:			
66) Copy of manufacturer's specifications are attached to the operating permit application: <input type="checkbox"/> Yes <input type="checkbox"/> No									
67) Stack Information									
Height		Top Inside Diameter		Stack Discharge		Exit Velocity of Gas		Exit Temperature of Gas	
	ft		ft	<input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Vertical with Rain Cap		m/s		°K	



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Section 3. Material to be Incinerated

68) Incineration Material
List or describe each type of material incinerated:
69) Recordkeeping
Indicate how the amount of material incinerated is tracked:
<input type="checkbox"/> Production Records <input type="checkbox"/> Weight Records Other :
70) Ash Handling
Describe how ashes are handled and/or disposed:



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4. Potential Emissions Calculations

4.1 Excess Air

The following table uses emission factors from NDEQ's annual emissions inventory in the emissions calculations with two exceptions, the carbon dioxide emission factor is from AP-42, Chapter 2, Section 2.1, Table 2.1-7, and the PM_{2.5} emission factor, which is explained in footnote 4.

If you have emission factors from the incinerator's manufacturer or from a performance test of your incinerator, use those emission factors instead of the emission factor(s) in the following table.

- a) List pollutants for which you are not using the provided emission factor(s): _____
- b) Identify the Emission Factor Source: _____

If you are limiting emissions by accepting a limit on the throughput of the incinerator, use the limited throughput in the calculations (see Section 63 above). If you have not accepted a limit on throughput, then enter the maximum amount of material that can be incinerated in one year (see Section 62 above).

Pollutant ^[1]	Waste (tons/year) (A)	Emission Factor (lb/ton) (B)	Control Factor (C) ^[2]	Potential Emissions (tons/year) = [A x B x C]/2,000
Carbon Monoxide (CO)		1.37		
Nitrogen Oxides (NO _x)		3.56		
Lead (Pb)		0.213		
Particulate matter less than 10 microns in diameter (PM ₁₀)		25.1		
Sulfur Oxides (SO _x)		3.46		
Arsenic (As)		0.00437		
Cadmium (Cd)		0.0109		
Chromium (Cr)		0.00897		
Mercury (Hg)		0.0056		
Nickel (Ni)		0.00785		
CDD/CDF ^[3]		0.000015		
Hydrochloric Acid (HCl)		6.4		
Particulate matter less than 2.5 microns in diameter (PM _{2.5})		16.7417 ^[4]		
Carbon Dioxide (CO ₂)		1,970		

^[1] Pollutant order is same as in the Annual Emissions Inventory Report except for two additional pollutants at the end of the table.

^[2] If your incinerator does not have a control device, C=1.

^[3] CDD/CDF = total tetra- through octa- chlorinated dibenzo-p-dioxin/chlorinated dibenzofurans, 2,3,7,8-tetrachlorodibenzo-p-dioxin, and dibenzofurans.

^[4] The PM_{2.5} emission factor is calculated by multiplying the PM_{2.5} fraction by the PM₁₀ emission factor. The PM_{2.5} fraction of PM₁₀ is taken from Appendix A of the South Coast Air Quality Management District, *Final - Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds*, October 2006.



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4. Potential Emissions Calculations (continued)

4.2 Starved Air

The following table uses emission factors from NDEQ's annual emissions inventory in the emissions calculations with two exceptions, the carbon dioxide emission factor is from AP-42, Chapter 2, Section 2.1, Table 2.1-9, and the PM_{2.5} emission factor, which is explained in footnote 4.

If you have emission factors from the incinerator's manufacturer or from a performance test of your incinerator, use those emission factors instead of the emission factor(s) in the following table.

- a) List pollutants for which you are not using AP-42 emission factors: _____
- b) Identify the Emission Factor Source: _____

If you are limiting emissions by accepting a limit on the throughput of the incinerator, use the limited throughput in the calculations (see Section 63 above). If you have not accepted a limit on throughput, then enter the maximum amount of material that can be incinerated in one year (see Section 62 above).

Pollutant ^[1]	Waste (tons/year) (A)	Emission Factor (lb/ton) (B)	Control Factor (C) ^[2]	Potential Emissions (tons/year) = [A x B x C]/2,000
Carbon Monoxide (CO)		0.299		
Nitrogen Oxides (NO _x)		3.16		
Particulate matter less than 10 microns in diameter (PM ₁₀)		3.43		
Sulfur Oxides (SO _x)		3.23		
Arsenic (As)		0.000669		
Cadmium (Cd)		0.00241		
Chromium (Cr)		0.00331		
Mercury (Hg)		0.0056		
Nickel (Ni)		0.00552		
CDD/CDF ^[3]		0.00000294		
Hydrochloric Acid (HCl)		2.15		
Particulate matter less than 2.5 microns in diameter (PM _{2.5})		16.7417 ^[4]		
Lead (Pb)	-	no data	-	-
Carbon Dioxide (CO ₂)		1,970		

^[1] Pollutant order is same as in the Annual Emissions Inventory Report except for two additional pollutants at the end of the table.

^[2] If your incinerator does not have a control device, C=1.

^[3] CDD/CDF = total tetra- through octa- chlorinated dibenzo-p-dioxin/chlorinated dibenzofurans, 2,3,7,8-tetrachlorodibenzo-p-dioxin, and dibenzofurans

^[4] The PM_{2.5} emission factor is calculated by multiplying the PM_{2.5} fraction by the PM₁₀ emission factor. The PM_{2.5} fraction of PM₁₀ is taken from Appendix A of the South Coast Air Quality Management District, *Final - Methodology to Calculate Particulate Matter (PM) 2.5 and PM2.5 Significance Thresholds*, October 2006.