



**DNREC – Division of Air Quality
Application to Construct, Operate, or Modify
Stationary Sources)**

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Emissions Information Application

If you are using this form electronically, press F1 at any time for help

<u>Process Information</u>	
1.	Number of Individual Pieces of Process Equipment in Process: 1
2.	Number of Individual Control Devices in Process: 0

<u>Emissions Information for First Emission Point/Stack</u>						
3. Emission Point Name: Boiler 6 burning natural gas						
4. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: EU 120						
5. Pollutant Emissions						
If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.						
	Pollutant Name <small>(Specify VOCs and HAPs Individually in 5.10 through 5.18)</small>	CAS Number <small>(Not required for 5.1 through 5.10)</small>	Maximum Uncontrolled Emission Rate at Design Capacity	Maximum Controlled Emission Rate at Design Capacity	Annual Potential to Emit (PTE)	Requested Permitted Annual Emissions
5.1.	Particulate Matter (PM)		0.8 lbs/hour	0.8 lbs/hour	3.6 tons/year	3.6 tons/year
5.2.	PM ₁₀		lbs/hour	lbs/hour	tons/year	tons/year
5.3.	PM _{2.5}		lbs/hour	lbs/hour	tons/year	tons/year
5.4.	Sulfur Oxides (SO _x)		0.1 lbs/hour	0.1 lbs/hour	0.3 tons/year	0.3 tons/year
5.5.	Nitrogen Oxides (NO _x)		20.5 lbs/hour	1.2 lbs/hour	5.2 tons/year	5.2 tons/year
5.6.	Carbon Monoxide (CO)		4.1 lbs/hour	0.4 lbs/hour	1.8 tons/year	1.8 tons/year
5.7.	Total Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year
5.8.	Total Hazardous Air Pollutants (HAPs)		lbs/hour	lbs/hour	tons/year	tons/year



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Emissions Information for First Emission Point/Stack						
5.9.	CO ₂		lbs/hour	lbs/hour	tons/year	tons/year
5.10.	CO _{2e}		lbs/hour	lbs/hour	tons/year	tons/year
5.11.	TOC		1.2 lbs/hour	1.2 lbs/hour	5.2 tons/year	5.2 tons/year
5.12.			lbs/hour	lbs/hour	tons/year	tons/year
5.13.			lbs/hour	lbs/hour	tons/year	tons/year
5.14.			lbs/hour	lbs/hour	tons/year	tons/year
5.15.			lbs/hour	lbs/hour	tons/year	tons/year
6. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:						
Attach the Basis of Determination or Calculations for each Emission Rate provided above.						

Emissions Information for Second Emission Point/Stack						
7. Emission Point Name: Boiler 6 burning oil						
8. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: EU 120						
9. Pollutant Emissions						
If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.						
	<u>Pollutant Name</u> (Specify VOCs and HAPs Individually in 9.10 through 9.18)	<u>CAS Number</u> (Not required for 9.1 through 9.10)	<u>Maximum Uncontrolled Emission Rate at Design Capacity</u>	<u>Maximum Controlled Emission Rate at Design Capacity</u>	<u>Annual Potential to Emit (PTE)</u>	<u>Requested Permitted Annual Emissions</u>
9.1.	Particulate Matter (PM)		2.0 lbs/hour	2.0 lbs/hour	1.2 tons/year	1.2 tons/year
9.2.	PM ₁₀		lbs/hour	lbs/hour	tons/year	tons/year
9.3.	PM _{2.5}		lbs/hour	lbs/hour	tons/year	tons/year



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Emissions Information for Second Emission Point/Stack						
9.4.	Sulfur Oxides (SO _x)		0.2 lbs/hour	0.2 lbs/hour	0.1 tons/year	0.1 tons/year
9.5.	Nitrogen Oxides (NO _x)		18.9 lbs/hour	11.0 lbs/hour	8.1 tons/year	8.1 tons/year
9.6.	Carbon Monoxide (CO)		11.0 lbs/hour	6.6 lbs/hour	4.9 tons/year	4.9 tons/year
9.7.	Total Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year
9.8.	Total Hazardous Air Pollutants (HAPs)		lbs/hour	lbs/hour	tons/year	tons/year
9.9.	CO ₂		lbs/hour	lbs/hour	tons/year	tons/year
9.10.	CO _{2e}		lbs/hour	lbs/hour	tons/year	tons/year
9.11.	TOC		0.4 lbs/hour	0.4 lbs/hour	0.3 tons/year	0.3 tons/year
9.12.			lbs/hour	lbs/hour	tons/year	tons/year
9.13.			lbs/hour	lbs/hour	tons/year	tons/year
9.14.			lbs/hour	lbs/hour	tons/year	tons/year
9.15.			lbs/hour	lbs/hour	tons/year	tons/year
10.	Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:					Annual emissions based on a maximum of 1,475 hours/year burning oil
Attach the Basis of Determination or Calculations for each Emission Rate provided above.						

Emissions Information for Third Emission Point/Stack	
11.	Emission Point Name: Boiler 6 burning landfill gas
12.	Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack: EU 120
13.	Pollutant Emissions
If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.	



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Emissions Information for Third Emission Point/Stack					
<u>Pollutant Name</u> (Specify VOCs and HAPs Individually in 13.10 through 13.18)	<u>CAS Number</u> (Not required for 13.1 through 13.10)	<u>Maximum Uncontrolled Emission Rate at Design Capacity</u>	<u>Maximum Controlled Emission Rate at Design Capacity</u>	<u>Annual Potential to Emit (PTE)</u>	<u>Requested Permitted Annual Emissions</u>
13.1. Particulate Matter (PM)		0.7 lbs/hour	0.7 lbs/hour	3.0 tons/year	3.0 tons/year
13.2. PM ₁₀		lbs/hour	lbs/hour	tons/year	tons/year
13.3. PM _{2.5}		lbs/hour	lbs/hour	tons/year	tons/year
13.4. Sulfur Oxides (SO _x)		1.1 lbs/hour	1.1 lbs/hour	4.8 tons/year	4.8 tons/year
13.5. Nitrogen Oxides (NO _x)		120.3 lbs/hour	3.7 lbs/hour	16.3 tons/year	16.3 tons/year
13.6. Carbon Monoxide (CO)		4.1 lbs/hour	0.4 lbs/hour	1.8 tons/year	1.8 tons/year
13.7. Total Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year
13.8. Total Hazardous Air Pollutants (HAPs)		lbs/hour	lbs/hour	tons/year	tons/year
13.9. CO ₂		lbs/hour	lbs/hour	tons/year	tons/year
13.10. CO _{2e}		lbs/hour	lbs/hour	tons/year	tons/year
13.11. TOC		0.3 lbs/hour	0.3 lbs/hour	1.4 tons/year	1.4 tons/year
13.12.		lbs/hour	lbs/hour	tons/year	tons/year
13.13.		lbs/hour	lbs/hour	tons/year	tons/year
13.14.		lbs/hour	lbs/hour	tons/year	tons/year
13.15.		lbs/hour	lbs/hour	tons/year	tons/year
14. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: Emission rates are based on 90% landfill gas and 10% natural gas.					
Attach the Basis of Determination or Calculations for each Emission Rate provided above.					



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<u>Emissions Information for Fourth Emission Point/Stack</u>						
15. Emission Point Name:						
16. Equipment ID Number for all Process Equipment and Control Devices Venting Through Emission Point/Stack:						
17. Pollutant Emissions						
If more than 15 pollutants are emitted at this Emission Point/Stack, attach additional copies of this page as needed.						
	<u>Pollutant Name</u> (Specify VOCs and HAPs Individually in 17.10 through 17.18)	<u>CAS Number</u> (Not required for 17.1 through 17.10)	<u>Maximum Uncontrolled Emission Rate at Design Capacity</u>	<u>Maximum Controlled Emission Rate at Design Capacity</u>	<u>Annual Potential to Emit (PTE)</u>	<u>Requested Permitted Annual Emissions</u>
17.1.	Particulate Matter (PM)		lbs/hour	lbs/hour	tons/year	tons/year
17.2.	PM ₁₀		lbs/hour	lbs/hour	tons/year	tons/year
17.3.	PM _{2.5}		lbs/hour	lbs/hour	tons/year	tons/year
17.4.	Sulfur Oxides (SO _x)		lbs/hour	lbs/hour	tons/year	tons/year
17.5.	Nitrogen Oxides (NO _x)		lbs/hour	lbs/hour	tons/year	tons/year
17.6.	Carbon Monoxide (CO)		lbs/hour	lbs/hour	tons/year	tons/year
17.7.	Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year
17.8.	Total Hazardous Air Pollutants (HAPs)		lbs/hour	lbs/hour	tons/year	tons/year
17.9.	CO ₂		lbs/hour	lbs/hour	tons/year	tons/year
17.10.	CO _{2e}		lbs/hour	lbs/hour	tons/year	tons/year
17.11.			lbs/hour	lbs/hour	tons/year	tons/year
17.12.			lbs/hour	lbs/hour	tons/year	tons/year
17.13.			lbs/hour	lbs/hour	tons/year	tons/year
17.14.			lbs/hour	lbs/hour	tons/year	tons/year
17.15.			lbs/hour	lbs/hour	tons/year	tons/year



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Emissions Information for Fourth Emission Point/Stack

18. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:

Attach the Basis of Determination or Calculations for each Emission Rate provided above.

If there are more than four Emission Points/Stacks, attach additional copies of this form as needed.

Overall Process Emissions

19. Pollutant Emissions

If more than 15 pollutants are emitted from this Process, attach additional copies of this page as needed.

	<u>Pollutant Name</u> (Specify VOCs and HAPs Individually in 19.10 through 19.18)	<u>CAS Number</u> (Not required for 19.1 through 19.10)	<u>Maximum Uncontrolled Emission Rate at Design Capacity</u>	<u>Maximum Controlled Emission Rate at Design Capacity</u>	<u>Annual Potential to Emit (PTE)</u>	<u>Requested Permitted Annual Emissions</u>
19.1.	Particulate Matter (PM)		2.0 lbs/hour	2.0 lbs/hour	4.1 tons/year	4.1 tons/year
19.2.	PM ₁₀		lbs/hour	lbs/hour	tons/year	tons/year
19.3.	PM _{2.5}		lbs/hour	lbs/hour	tons/year	tons/year
19.4.	Sulfur Oxides (SO _x)		1.1 lbs/hour	1.1 lbs/hour	4.8 tons/year	4.8 tons/year
19.5.	Nitrogen Oxides (NO _x)		120.3 lbs/hour	11.0 lbs/hour	21.7 tons/year	21.7 tons/year
19.6.	Carbon Monoxide (CO)		11.0 lbs/hour	6.6 lbs/hour	6.4 tons/year	6.4 tons/year
19.7.	Total Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year
19.8.	Total Hazardous Air Pollutants (HAPs)		lbs/hour	lbs/hour	tons/year	tons/year
19.9.	CO ₂		lbs/hour	lbs/hour	tons/year	tons/year
19.10.	CO _{2e}		lbs/hour	lbs/hour	tons/year	tons/year
19.12.	TOC		1.2 lbs/hour	1.2 lbs/hour	5.2 tons/year	5.2 tons/year



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<u>Overall Process Emissions</u>					
19.13.		lbs/hour	lbs/hour	tons/year	tons/year
19.14.		lbs/hour	lbs/hour	tons/year	tons/year
19.15.		lbs/hour	lbs/hour	tons/year	tons/year
20. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above: SO ₂ and TOC emissions in tons/yr are based on highest emissions from each fuel. CO and NO _x emissions in tons/yr are based on a worst case scenario of operating 1,475 hours/year on oil and the remaining on 90%LFG/10% Natural Gas. PM emissions in tons/yr is based on a worst case scenario of operating 1,475 hours/year on oil and the remaining on Natural Gas.					
Attach the Basis of Determination or Calculations for each Emission Rate provided above.					

<u>Minor New Source Review Information</u>	
21. Does the Process Have the Potential to Emit More Than Five Tons Per Year of Any Pollutant?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
22. Is the Source New or Existing? See Question 11 of AQM-1	<input checked="" type="checkbox"/> NEW <input type="checkbox"/> EXISTING
If the Process has the Potential to Emit more than five tons per year of any pollutant, and is a New Source, a Control Technology Analysis pursuant to Regulation No. 1125 Section 4 must be conducted and attached to this application.	

<u>Major New Source Review Information</u>	
23. Does the Process Have the Potential to Emit More Than the Significance Level for Any Pollutant? <i>(Check All That Apply)</i>	
<input type="checkbox"/> Greater Than 25 Tons Per Year of Particulate Matter (PM) <input type="checkbox"/> Greater Than 15 Tons Per Year of PM ₁₀ <input type="checkbox"/> Greater Than 10 Tons Per Year of PM _{2.5} <input type="checkbox"/> Greater Than 40 Tons Per Year of Sulfur Dioxide(SO ₂) <input type="checkbox"/> Greater Than 25 Tons Per Year of Nitrogen Oxides (NO _x) in New Castle and Kent County <input type="checkbox"/> Greater Than 100 Tons Per Year of Nitrogen Oxides (NO _x) in Sussex County <input type="checkbox"/> Greater Than 100 Tons Per Year of Carbon Monoxide (CO) <input type="checkbox"/> Greater Than 25 Tons Per Year of Total Volatile Organic Compounds (VOCs) in New Castle and Kent County <input type="checkbox"/> Greater Than 50 Tons Per Year of Total Volatile Organic Compounds (VOCs) in Sussex County <input type="checkbox"/> Greater Than 75,000 Tons Per Year of Equivalent Carbon Dioxide (CO _{2e})	



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If the Process has the Potential to Emit greater than any of the amounts listed above 7 DE Admin. Code 1125 Sections 2 and/or 3 apply. Contact the Department at (302) 323-4542 or (302) 739-9402 for additional information

Additional Information

24. Is There Any Additional Information Pertinent to this Application? YES NO

If YES, complete the rest of Question 24.

24.1. Describe: