



**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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<u>Emissions Information for Fourth Emission Point/Stack</u>
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.

<u>Overall Process Emissions</u>						
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> <small>(Specify VOCs and HAPs Individually in 19.10 through 19.18)</small>	<u>CAS Number</u> <small>(Not required for 19.1 through 19.10)</small>	<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	3.7 tons/year	3.7 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: Overall process emissions in lb/hr represent the highest emissions for each pollutant based on each fuel. SO2 and TOC emissions in tons/yr are based on highest emissions from each fuel. However, CO, NOx, and PM 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.					
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> <ul style="list-style-type: none"> <input type="checkbox"/> Greater Than 25 Tons Per Year of Particulate Matter (PM) <input type="checkbox"/> Greater Than 15 Tons Per Year of PM₁₀ <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(SO₂) <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: