

2021 Air Pollution Inventory

Fuel Burning Form For Fuels Burned in Anything Other Than a Boiler



PROFILE OF PROCESS EQUIPMENT AND AIR POLLUTION CONTROL EQUIPMENT BURNING PROCESS FUEL FOR RY21

All questions pertain to process equipment or air pollution control equipment (APCE) which burn one or more fuels.

	Process Equipment	Control Equipment
No. of pieces which vent emissions to an identified stack		
No. of pieces added since Reporting Year 2020		
No. of pieces permanently retired since Reporting Year 2020		
No. of pieces burning 1 fuel		
No. of pieces burning 2 fuels		
No. of pieces burning 3 fuels		
Other: ___ Turbines ___ Reciprocating Engines Cogeneration " Yes " ___ No ___		

Facility Name	
Address	
Contact	
Date	Phone

EMISSION FACTORS FOR FUEL BURNED IN EQUIPMENT (i.e., not in a boiler, turbine, etc.):

Emission Factors for process equipment, heaters and air pollution control equipment are listed below. These factors can be used to estimate your air releases. Emission Factors pertain to emissions "before" any air pollution control equipment, which would reduce your emissions according to its efficiency. The "S" beside the Emission Factor for SO_x indicates that you must multiply the Emission Factor by the % sulfur in the fuel burned.

Emission Factors are not readily available for other fuels such as methanol, hydrogen gas, waste oil, etc. Attach your engineering estimates.

NO_x emissions may now be measured by NO_x monitors for a more accurate estimate.

Emission Factors for internal combustion engines, cement kilns/dryers, lime kilns, coke ovens, and blast ovens differ from those listed below.

Call RIDEM for them if needed.

Fuel/Process Name	SCC Code	Particulates	SO _x	NO _x	VOC	CO	Units ("pounds per")
Residual Oil General	3-90-004-89	12.0 S	158.6 S	55	0.28	5	1000 gallons burned
Distillate Oil General	3-90-005-89	2.0	143.6 S	20	0.2	5	1000 gallons burned
Natural Gas General	3-90-006-89	7.6	0.6	100	5.5	84	Million Cubic Feet (MMCF) burned
Liquified Petroleum Gas (LPG) General	3-90-010-89	0.7	.016	13	1	7.5	1000 gallons burned

Return To: Air Pollution Inventory, Office of Air Resources
235 Promenade Street, Providence, RI 02908-5767

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STACK INFORMATION FOR EQUIPMENT and/or ENGINES BURNING FUEL

Facility Name

Contact Name

Phone

This form has enough space to record data for up to 2 stacks from 2 pieces of fuel burning process equipment, engines or air pollution control equipment with up to 3 fuels apiece. You may photocopy this page to report additional equipment. If the information on this form has not changed from the previous year, 2020 Form F3, page 2 may be copied and submitted for 2021. If one stack handles emissions from multiple pieces of process or control equipment or engines, report stack data only once. Show clearly which pieces of process or air pollution control equipment are associated with each stack. Necessary elements are checked. Others are helpful, if available.

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Stack number						
Stack height (ft.)						
Stack diameter (ft.)						
Stack exit temp (F)						
Stack exhaust gas flow rate (acfm)						
NOx CEM?	" Yes	" No		" Yes	" No	
Specify Air Pollution Control Equipment if any						
RI DEM Approval No.						
Installation date (year)						
VOCs removed?	" Yes	" No		" Yes	" No	
Fuel type		natural gas	LPG		natural gas	LPG
Normal firing rate						
Process equipment name or engine						
RI DEM Approval No.						
Installation date (year)						
Fuel type		natural gas	LPG		natural gas	LPG
Normal firing rate						

For equipment burning oil, include grade of oil (e.g., #2) and the sulfur limit (%): # _____ %S

Facility Name _____

Contact Name _____

Phone _____

<<<<<<< REPORT ONLY ONE FUEL PER COLUMN >>>>>>>

Process, Engine or Air Pollution Control Equipment burning fuel														
RIDEM Approval No.														
Process Fuel Type														
Units (gal, cubic ft.)														
Month	Fuel burned		Fuel burned											
Jan 2021														
Feb 2021														
March 2021														
April 2021														
May 2021														
Quarterly Total		%		%										
	No. of days		No. of days											
Jun 2021														
Jul 2021														
Aug 2021														
Quarterly Total		%		%										
Sep 2021														
Oct 2021														
Nov 2021														
Quarterly Total		%		%										
Dec 2021														
Dec+Jan+Feb (2021)		%		%										
Annual Total		100 %		100 %										
<table border="1"> <tr> <td colspan="2">Total process fuel usage by fuel type for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft.)</td> </tr> <tr> <td>Natural Gas</td> <td></td> </tr> <tr> <td>Liquid Propane</td> <td></td> </tr> <tr> <td>Other:</td> <td></td> </tr> <tr> <td>Other:</td> <td></td> </tr> </table>					Total process fuel usage by fuel type for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft.)		Natural Gas		Liquid Propane		Other:		Other:	
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