Rhode Island Department of Environmental Management

2024 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 RY24

Facility Name

Address

Contact

Date **Phone**

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 2023		
No. of pieces permanently retired since Reporting Year 2023		
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_____		

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 SOx 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. NOx emissions may now be measured by NOx 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	SOx	NOx	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: DEM.AirInventory@dem.ri.gov
Air Pollution Inventory, Office of Air Resources
235 Promenade Street, Providence, RI 02908-5767

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, 2023 Form F3, page 2 may be copied and submitted for 2024. 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.

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

Return to: DEM.AirInventory@dem.ri.gov
Air Pollution Inventory, Office of Air Resources
235 Promenade Street, Providence, RI 02908-5767

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		Fuel burned	
Jan 2024						
Feb 2024						
March 2024						
April 2024						
May 2024						
Quarterly Total		%		%		%
		No. of days		**No. of days**		**No. of days**
Jun 2024						
Jul 2024						
Aug 2024						
Quarterly Total		%		%		%
Sept 2024						
Oct 2024						
Nov 2024						
Quarterly Total		%		%		%
Dec 2024						
Dec+Jan+Feb (2024)		%		%		%
Annual Total		**100 %**		**100 %**		**100 %**

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:_____	

Return to: DEM.AirInventory@dem.ri.gov
Air Pollution Inventory, Office of Air Resources
235 Promenade Street, Providence, RI 02908-5767