

**Rhode Island Department of Environmental Management  
2016 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 RY15**

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

	<b>Process Equipment</b>	<b>Control Equipment</b>
No. of pieces which vent emissions to an identified stack		
No. of pieces added since Reporting Year 2015		
No. of pieces permanently retired since Reporting Year 2015		
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 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: Air Pollution/Toxics 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, 2015 Form F3, page 2 may be copied and submitted for 2016. 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.

H Necessary elements are checked. Others are helpful, if available.

H Stack number		
H Stack height (ft.)		
H 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)		
H 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 2016														
Feb 2016														
March 2016														
April 2016														
May 2016														
Quarterly Total		%		%										
	No. of days		No. of days											
Jun 2016														
Jul 2016														
Aug 2015														
Quarterly Total		%		%										
Sep 2016														
Oct 2016														
Nov 2016														
Quarterly Total		%		%										
Dec 2016														
Dec+Jan+Feb (2016) Total		%		%										
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.f</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.f		Natural Gas		Liquid Propane		Other:		Other:	
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