Rhode Island Department of Environmental Management

2023 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 RY23

		All questions pertain to process equipment or air pollution control equipment (APCE) which burn one or more fuels.	Process Equipment	Control Equipment
Facility Name		No. of pieces which vent emissions to an identified stack		
-		No. of pieces added since Reporting Year 2022		
Address		No. of pieces permanently retired since Reporting Year 2022		
		No. of pieces burning 1 fuel		
Contact		No. of pieces burning 2 fuels		
		No. of pieces burning 3 fuels		
Date	Phone	Other:TurbinesReciprocating 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 G	as (LPG)						
General	3-90-010-89	0.7	.016	13	1	7.5	1000 gallons burned

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235 Promenade Street, Providence, RI 02908-5767

STACK INFORMATION FOR EQUIPMENT and/or ENGINES BURNING FUEL

Facility Name

H

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, 2022 Form F3, page 2 may be copied and submitted for 2023. 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								
H	Stack height (ft.)								
H	Stack diameter (ft.)								
	Stack exit temp (F)								
	Stack exhaust gas flow rate (acfm)								
	NOx CEM?	u	Yes	["] No			Yes	No	
	Specify Air Pollution Control Equipment if any								
	RI DEM Approval No.								
	Installation date (year)								
	VOCs removed?	"	Yes	" No	_	ш	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

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Facility Name

Contact Name

Phone

Control Equipment burning fuel Image: Control Equipment burning fuel Image: Control Equipment burning fuel Image: Control Equipment burning fuel RIDEM Approval No. Fuel burned Image: Control Equipment burning fuel Image: Control Equipment burning fuel Image: Control Equipment burning fuel Month Fuel burned Fuel burned Image: Control Equipment burning fuel Image: Control Equipment burning fuel Image: Control Equipment burning fuel Month Fuel burned Fuel burned Image: Control Equipment burning fuel Image: Control Equipment burning fuel March 2023 Image: Control Equipment burning fuel Image: Control Equipment burning fuel Image: Control Equipment burning fuel March 2023 Image: Control Equipment burning fuel March 2023 Image: Control Equipment burning fuel Image: Control Equipment burn	Process, Engine or Air Pollution						
RIDEM Approval No.	Control Equipment burning fuel						
Process Fuel Type Image: Control of the second se	RIDEM Approval No.						
Units (gal, cubic ft.)Fuel burnedFuel burned <t< td=""><td>Process Fuel Type</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Process Fuel Type						
Month Jan 2023Fuel burnedFuel burnedFuel burnedFuel burnedFeb 2023Image: State of the stat	Units (gal, cubic ft.)						
Jan 2023 Feb 2023 Image: Constraint of the second sec	Month	Fuel burned		Fuel burned		Fuel burned	
Feb 2023 Image: Constraint of the second	Jan 2023						
March 2023 March 2	Feb 2023						
April 2023 Image: Constraint of the second seco	March 2023						
May 2023	April 2023						
Quarterity Total % % % No. of days No. of days <th< td=""><td>May 2023</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	May 2023						
No. of days No. of days No. of days Jul 2023 Image: Constraint of the second seco	Quarterly Total		%		%		%
Jun 2023 Jul 2023 Image: Constraint of the second sec			No. of days		No. of days		No. of days
Jul 2023 Image: Constraint of the second	Jun 2023						
Aug 2023	Jul 2023						
Quarterly Total % % % Sept 2023	Aug 2023						
Sept 2023 Image: Constraint of the sector of t	Quarterly Total		%		%		%
Oct 2023 Image: Second se	Sept 2023						
Nov 2023 Image: Second se	Oct 2023						
Quarterly Total % % % Dec 2023 Dec+Jan+Feb (2023) % % % % Annual Total 100 % 100 % 100 % 100 % Image: Total process fuel usage by fuel type for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft) Natural Gas Image: Company for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft) Induid Propane Image: Company for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft) Image: Company for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft) Other: Image: Company for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft) Image: Company for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft) Other: Image: Company for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft) Image: Company for facility. Image: Company for facility. Image: Company for facility. Image: Company for facility. Image: Company for facility. Other: Image: Company for facility. Image: Company for facility. Image: Company for facility.	Nov 2023						
Dec 2023 Image: Constraint of the cons	Quarterly Total		%		%		%
Dec+Jan+Feb (2023) % % Annual Total 100 % 100 % 100 % Total process fuel usage by fuel type for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft 100 % Natural Gas	Dec 2023						
Annual Total 100 % 100 % Total process fuel usage by fuel type for facility. Units (gal, MCF (thousand cu.ft.), CCF (hundred cu.ft 100 % Natural Gas	Dec+Jan+Feb (2023)		%		%		%
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:	Annual Total		100 %		100 %		100 %
Liquid Propane Other: Other:		Total process fuel usa Natural Gas	ge by fuel type	for facility. Units (gal, M	<u>CF (thousanc</u>	l cu.ft.), CCF (hundred cu.ff	
Other: Other:		Liquid Propane					-
Other:		Other:					-
		Other:					

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