



Massachusetts Department of Environmental Protection

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Username: **EDECOTIS**

Transaction ID: **1176626**

Document: **Greenhouse Gas Package(GHG)**

Size of File: **4877.29K**

Status of Transaction: **In Process**

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Massachusetts Department of Environmental Protection
Bureau of Air and Waste
Greenhouse Gas Overview

2018
 YEAR OF RECORD
 1180127
 FACILITY AQ Identifier

The “?” icons will reveal information about a particular portion of the form or question such as definitions, instructions, sources of assistance or information. Additional information about filling out these forms is available at the Source Registration and Greenhouse Gas Reporting Website: <https://www.mass.gov/guides/massdep-source-registration>

A. Create a Greenhouse Gas Package(GHG).

1. Select existing or new facility :

Existing Facility:Check to create a complete package for reporting year 2018 Check if you added emission units since your last report.

New Facility:Check if you have never before submitted an AQ Greenhouse Gas Package(GHG).

Date received (DEP use only - mm/dd/yyyy)

B. Amend a Greenhouse Gas Package(GHG).

1. Check if you need to correct or add to a previously submitted GHG Package **2018** ,check the boxes in the list below to select the forms/units you wish to work on.

2.Facility Name :

Our records indicate that this facility has Emission Units (points)

- Facility Information Form (general facility and contact)
 GHG-TES Total Emissions Statement (facility-wide emissions).

	Emission unit name	DEP#	EU Category	Last Update
<input checked="" type="checkbox"/>	BOILER #4 FOUNDERS -2 HB SMITH+2 PVI NATURAL GAS	4	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMER GEN #1 - KOHLER 80R282 - NAT GAS DANIELS HALL	7	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMER GEN #2 - CPI 115G0 - NAT GAS - FOUNDERS HALL	8	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMER GEN #3 - ONAN 15JC4R - NAT GAS - HARRINGTON	9	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMER GEN #4 - OLYMPIAN 96A - NAT GAS- SALISBURY	10	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMER GEN #5 - SUPERIOR 50R161 - #2 OIL FULLER ROOF	12	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	GENERATOR #6-CAT #D200P4 DIESEL FULLER GROUND	13	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	GENERATOR #9-CAT # SR-4 - DIESEL POWER PLANT	14	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	NEW BOILER #1-VICTORY ENERGY - NAT GAS / #2 OIL	15	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	NEW BOILER #2-VICTORY ENERGY - NAT GAS	16	FUEL BURNING DEVICE	2017

**Massachusetts Department of Environmental
Protection**
Bureau of Air and Waste
Greenhouse Gas Overview

2018

YEAR OF RECORD

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FACILITY AQ Identifier

<input checked="" type="checkbox"/>	NEW BOILER #3-VICTORY ENERGY - NAT GAS / #2 OIL	17	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	OFF-CAMPUS RESIDENCES < 50 MMBTU - NAT. GAS	20	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	ON-CAMPUS MISCELLANEOUS SOURCES 1ST SET - NAT. GAS	21	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	ON-CAMPUS MISCELLANEOUS SOURCES 2ND SET - NAT. GAS	22	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	ON-CAMPUS MISCELLANEOUS SOURCES 3RD SET - NAT. GAS	23	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	OFF-CAMPUS RESIDENCES < 10 MMBTU - #2 OIL	24	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	BOILERS (2) GATEWAY - LATTNER - NAT GAS	26	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	BOILERS (2) GATEWAY - CLEAVER BROOKS - NAT GAS	27	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	GENERATOR #7 - KOHLER 500 GATEWAY	28	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	GENERATOR #10 - KOHLER 150 EAST HALL	29	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMER GEN #11 GODDARD HALL OLYMPIAM G60F3 NAT GAS	30	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMER GENERATOR #8 GATEWAY GARAGE CAT D125-6 DIESEL	31	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMERGENCY GENERATOR #12 RECREATION CENTER - DIESEL	32	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMERGENCY GENERATOR #13 GATEWAY 2 - DIESEL	33	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	EMERGENCY GENERATOR #14 - FARRADAY OLYMPIAN	34	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	GATEWAY COGENERATION UNITS - TECOGEN	35	FUEL BURNING DEVICE	2017
<input checked="" type="checkbox"/>	REFRIGERANTS FROM AIR CONDITIONERS	36	GHG-ONLY	2017



2018

Year of Record

1180127

Facility AQ identifier

A. Facility Information:

1. Facility - the site or works where the regulated activity occurs:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

100 INSTITUTE RD

b. Facility Street Address Line 1

183 WEST ST

c. Facility Street Address Line 2

WORCESTER

d. City/Town

MA

e. State

016090000

f. ZIP Code

5088315130

g. Facility Phone Number

5088315551

h. Facility Fax Number

2. Mailing address: (check all that apply)

same address as facility address

100 INSTITUTE ROAD

a. Facility Mailing Address / PO Box Line 1

b. Facility Mailing Address / PO Box Line 2

WORCESTER

c. City/Town

MA

d. State

016090000

e. ZIP Code

3. Facility type - check one:

Utility Private Tribal Federal State Local Government

4. ORIS Facility Code - for large electrical utilities only:

ORIS Facility Code

5. ID Numbers:

132563

a. DEP Account Number / FMF Facility #

1180127

b. Facility AQ Identifier - SSEIS ID Number

6. Location :

42.273585

a. Latitude 42.9 - 41.2

71.809740

b. Longitude - West 73.5 - 69.8 Enter positive values only.

7. North American Industry Classification System (NAICS) 6 digits:

611310

a. (Primary)

b.

c.

d.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

Facility Information

2018
Year of Record

1180127
Facility AQ identifier

8. Facility description (What is being produced and how it is being produced at this facility - update as needed):

WORCESTER POLYTECHNIC INSTITUTE (WPI) IS A TECHNOLOGICAL UNIVERSITY.

9. Facility's normal hours of operation:

12:00 AM

a. Start Time

12:00 AM

b. End Time

c. Continuous - 24 X 7 X 52

d. Which days is the facility open?

S

M

T

W

T

F

S

10. Number of Employees:

800

11. Facility Owner:

same address as facility mailing address (will copy address into fields below)

Please contact your MassDEP Regional Office if the ownership of this facility has changed.

WORCESTER POLYTECHNIC INSTITUTE

a. Owner or Corporation Name

100 INSTITUTE RD

b. Mailing Address Line 1 (for owner or corporation)

c. Mailing Address Line 2

WORCESTER

d. City/Town

MA

e. State

016090000

f. Zip Code

US

g. Country

042121659

h. Owner TIN

5088315216

i. Owner Phone Number

j. Extension

k. Owner Fax Number

williamg@wpi.edu

l. Owner E-mail Address

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

Facility Information

2018
Year of Record

1180127
Facility AQ identifier

12. Facility **contact** information:

same address as facility address

same address as facility mailing address

WILLIAM

a. Facility Contact **First** Name

GRUDZINSKI

Contact **Last** Name

37 LEE STREET

b. Mailing Address Line 1

c. Mailing Address Line 2

WORCESTER

d. City/Town

MA

e. State

030620000

f. Zip Code

US

g. Country

williamg@wpi.edu

h. E-mail Address

5088316406

i. Phone Number

j. Extension

k. Fax Number

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

Facility Information

2018

Year of Record

1180127

Facility AQ identifier

13. Air emissions information contact: Not Applicable for Greenhouse Gas Emissions.

B. Preparer

1. Contact information for the **preparer** of this submittal:

same name and address as GHG emissions contact name and address

same name and address as facility contact name and address

same address as facility address

ELLEN

a. Preparer **First** Name

DECOTIS

Preparer **Last** Name

177 CORPORATE DRIVE

b. Mailing Address Line 1

c. Mailing Address Line 2

PORTSMOUTH

d. City/Town

NH

e. State

038010000

f. Zip Code

US

g. Country

ETDeCotis@tighebond.com

h. E-mail Address

5084719635

i. Phone Number

j. Extension

k. Fax Number

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

Facility Information

2018

Year of Record

1180127

Facility AQ identifier

C. Notes

1. **Notes:** please include in the space below any additional information that will help DEP understand your submission (5000 character max).

D. Certification

"I certify that I have personally examined the foregoing and am familiar with the information contained in this report and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information; I believe that the information is true, accurate, and complete. I am aware that there are signification penalties for submitting false information, including possible fines and imprisonment."

A responsible official for the facility must provide the electronic signature. **The signature and date are inserted below by eDEP during the signature Step.**

Signed under the pains and penalties of perjury:

Signature of Responsible Official

Date

Responsible official - complete all fields below.

WILLIAM

a. **First Name**

GRUDZINSKI

b. **Last Name**

CHIEF ENGINEER

c. **Title**

5088316406

d. **Phone Number**

williamg@wpi.edu

e. **E-mail Address**

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

Facility Information

2018

Year of Record

1180127

Facility AQ identifier



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMER GEN #4 - OLYMPIAN 96A - NAT GAS- SALISBURY

a. Facility's choice of emission unit name - edit as needed

10

b. Facility's emission unit number / code - edit as needed

10

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1995

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

OLYMPIAN

b. Manufacturer

96A

c. Model Number

1.324

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

10

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

20300201

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Natural Gas - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

NATURAL GAS

c. Fuel/Process Description:

EMER GEN #4 - OLYMPIAN 96A - NAT GAS - SALISBURY

2. Total actual amount used for year of record:

0.0345

MILLION CUBIC FEET

(Enter "0" if not used in the year of record)

Amount - year of record Units

.0421 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	2.5266 Tons	0 Tons	0 Tons
Actual for year of record:	2.0703 Tons	0 Tons	0 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

10

DEP EU#

1180127

Emission Factor	120019.655533	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	2.0703	0.0010	0.0011
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

2.0724

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

10

DEP EU#

1180127



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMER GEN #5 - SUPERIOR 50R161 - #2 OIL FULLER ROOF

a. Facility's choice of emission unit name - edit as needed

12

b. Facility's emission unit number / code - edit as needed

12

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1990

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

SUPERIOR

b. Manufacturer

50R161

c. Model Number

.42

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

12

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

20300101

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Distillate Oil (Diesel) - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

DIESEL

c. Fuel/Process Description:

EMER GEN #6 - SUPERIOR 50R161 - #2 OIL - FULLER

2. Total actual amount used for year of record:

(Enter "0" if not used in the year of record)

0.0640

1000 GALLONS

Amount - year of record Units

.057 1000 GALLONS

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	0.6441 Tons	0 Tons	0 Tons
Actual for year of record:	0.7232 Tons	0 Tons	0 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

12

DEP EU#

1180127

Emission Factor	22600	0.910450	0.177650
in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0.7232	0.0007	0.0017
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

0.7256

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

12

DEP EU#

1180127



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

GENERATOR #6-CAT #D200P4 DIESEL FULLER GROUND

a. Facility's choice of emission unit name - edit as needed

13

b. Facility's emission unit number / code - edit as needed

13

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/2004

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

CATERPILLAR

b. Manufacturer

D200P4

c. Model Number

2.216

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
Year of Record
13
DEP EU#
1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300101

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Distillate Oil (Diesel) - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: DIESEL

c. Fuel/Process Description: GENERATOR #7-OLYMPIAM #D200P4 DIESEL

2. Total actual amount used for year of record: 0.2270 1000 GALLONS

(Enter "0" if not used in the year of record) Amount - year of record Units
.205 1000 GALLONS
Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	2.3142 Tons	0 Tons	0 Tons
Actual for year of record:	2.5651 Tons	0.0001 Tons	0 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

13

DEP EU#

1180127

Emission Factor	22600	0.910450	0.177650
in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	2.5651	0.0026	0.0060
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

2.5737

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

13

DEP EU#

1180127

Empty form area with scrollbars.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

GENERATOR #9-CAT # SR-4 - DIESEL POWER PLANT

a. Facility's choice of emission unit name - edit as needed

14

b. Facility's emission unit number / code - edit as needed

14

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/2005

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

CATERPILLAR

b. Manufacturer

SR-4

c. Model Number

4.9

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

14

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300101

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Distillate Oil (Diesel) - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: DIESEL

c. Fuel/Process Description: GENERATOR #8-CATERPILLAR #SR-4 DIESEL

2. Total actual amount used for year of record: 0.9720 1000 GALLONS

(Enter "0" if not used in the year of record) Amount - year of record Units
.972 1000 GALLONS
Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	10.9836 Tons	0 Tons	0 Tons
Actual for year of record:	10.9836 Tons	0.0004 Tons	0.0001 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

14

DEP EU#

1180127

Emission Factor	22600	0.910450	0.177650
in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	10.9836	0.0111	0.0257
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

11.0204

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

14

DEP EU#

1180127

This area is a large, empty rectangular box intended for data entry. It is framed by a thin black border. At the bottom of this box, there is a horizontal scroll bar with a small arrow pointing to the right, indicating that the content can be scrolled horizontally.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

NEW BOILER #1-VICTORY ENERGY - NAT GAS / #2 OIL

a. Facility's choice of emission unit name - edit as needed

15

b. Facility's emission unit number / code - edit as needed

15

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

11/01/2005

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

VICTORY ENERGY

b. Manufacturer

313-14M-1

c. Model Number

27.55

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

15

DEP EU#

1180127

B. Fuels and Emissions

Is GHG emissions reporting required for this fuel, waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input, output or fuel?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

2

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

10200602

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Industrial - Natural Gas - 10-100 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

NATURAL GAS

c. Fuel/Process Description:

BOILER #1 VICTORY ENERGY NAT GAS

2. Total actual amount used for year of record:

26.9232

MILLION CUBIC FEET

(Enter "0" if not used in the year of record)

Amount - year of record Units

25.8558 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions.

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	1551.3533 Tons	0.0294 Tons	0.0029 Tons
Actual for year of record:	1615.3920 Tons	0.0306 Tons	0.0030 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

15

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	1615.3920	0.7642	0.8844
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

1617.0406

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THE MAXIMUM ALLOWED EMISSIONS PER POLLUTANT WERE CALCULATED FROM THE EMISSION LIMITATIONS IN 310 CMR 7.26(33)(B) USING THE MAXIMUM FIRING RATE OF 27.55 MMBTU/HR AND 8,760 HRS FOR NATURAL GAS AND 4320 HRS (180 DAYS) FOR FUEL NO. 2.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

15

DEP EU#

1180127

This section contains a large empty rectangular area for data entry, framed by a thin border. A horizontal scrollbar is visible at the bottom of this area.



B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1. DEP Fuel #:

a. Source Classification Code (SCC):

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Distillate Oil - Grades 1 and 2 - Boiler

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

c. Fuel/Process Description:

2. Total actual amount used for year of record:

(Enter "0" if not used in the year of record) Amount - year of record Units

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input checked="" type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	<input type="text" value="0"/> Tons	<input type="text" value="0"/> Tons	<input type="text" value="0"/> Tons
Actual for year of record:	<input type="text" value="0"/> Tons	<input type="text" value="0"/> Tons	<input type="text" value="0"/> Tons
Emission Factor	<input type="text" value="22509.196969"/>	<input type="text" value="0.903895"/>	<input type="text" value="0.11"/>

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

15

DEP EU#

1180127

in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

0

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

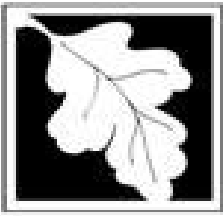
2018

Year of Record

15

DEP EU#

1180127



D. Total Emissions (cont.)

1. Total emissions for this emissions unit only in tons per year:

Calculations: The form calculates this unit's total actual CO₂e for each pollutant (gas) and total CO₂e emissions, from the emissions you have provided in Section B. Return to Section B, if you need to correct those numbers.

Pollutant:	CO2	CH4	N2O	SF6	Refrigerants-CO2e
Actual for previous year	1551.3533 Tons	0.0294 Tons	0.0029 Tons	 Tons	 Tons
Actual for year of record:	1615.3920 Tons	0.0306 Tons	0.0030 Tons	0 Tons	0 Tons
CO ₂ e for previous year (Tons)	 Tons	 Tons	 Tons	 Tons	 Tons
CO ₂ e for year of record (Tons)	1615.3920 Tons	0.7642 Tons	0.8844 Tons	0 Tons	0 Tons

2. Total CO₂e emissions

0

a. Actual for previous year(Tons)

1617.0406

b. Actual for year of record (Tons)



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

NEW BOILER #2-VICTORY ENERGY - NAT GAS

a. Facility's choice of emission unit name - edit as needed

16

b. Facility's emission unit number / code - edit as needed

16

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

10/01/2005

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

VICTORY ENERGY

b. Manufacturer

313-5M-2

c. Model Number

15.32

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
Year of Record
16
DEP EU#
1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 10200602

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Industrial - Natural Gas - 10-100 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: BOILER #2 VICTORY ENERGY NAT GAS

2. Total actual amount used for year of record: 28.7871 MILLION CUBIC FEET

(Enter "0" if not used in the year of record) Amount - year of record Units
29.7958 MILLION CUBIC FEET
Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	1787.75 Tons	0.0338 Tons	0.0033 Tons
Actual for year of record:	1727.2260 Tons	0.0327 Tons	0.0032 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

16

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	1727.2260	0.8171	0.9456
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

1728.9887

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THE MAXIMUM ALLOWED EMISSIONS PER POLLUTANT WERE CALCULATED FROM THE EMISSION LIMITATIONS LISTED IN 310 CMR 7.26(33) (B), USING THE MAXIMUM FIRING RATE OF 15.32 MMBTU/HR AND 8760 HRS FOR NATURAL GAS.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

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DEP EU#

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A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

NEW BOILER #3-VICTORY ENERGY - NAT GAS / #2 OIL

a. Facility's choice of emission unit name - edit as needed

17

b. Facility's emission unit number / code - edit as needed

17

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

11/01/2005

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

VICTORY ENERGY

b. Manufacturer

313-14M-3

c. Model Number

27.55

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
Year of Record
17
DEP EU#
1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 2

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 10200602

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Industrial - Natural Gas - 10-100 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: BOILER#3 VICTORY ENERGY NAT GAS

2. Total actual amount used for year of record: 25.8877 MILLION CUBIC FEET

(Enter "0" if not used in the year of record) Amount - year of record Units
28.8108 MILLION CUBIC FEET
Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	1728.6509 Tons	0.0327 Tons	0.0032 Tons
Actual for year of record:	1553.2620 Tons	0.0294 Tons	0.0029 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

17

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	1553.2620	0.7348	0.8504
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

1554.8472

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THE MAXIMUM ALLOWED EMISSIONS PER POLLUTANT WERE CALCULATED FROM THE EMISSION LIMITATIONS LISTED IN 310 CMR 7.26(33) (B) USING THE MAXIMUM FIRING RATE OF 27.55 MMBTU/HR AND 8,760 HRS FOR NATURAL GAS AND 4,320 HRS (180 DAYS) FOR FUEL OIL NO. 2.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

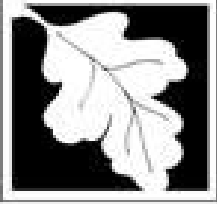
2018

Year of Record

17

DEP EU#

1180127



B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1. DEP Fuel #:

a. Source Classification Code (SCC):

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Distillate Oil - Grades 1 and 2 - Boiler

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

c. Fuel/Process Description:

2. Total actual amount used for year of record:

(Enter "0" if not used in the year of record) Amount - year of record Units

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input checked="" type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	<input type="text" value="0"/> Tons	<input type="text" value="0"/> Tons	<input type="text" value="0"/> Tons
Actual for year of record:	<input type="text" value="0"/> Tons	<input type="text" value="0"/> Tons	<input type="text" value="0"/> Tons
Emission Factor	<input type="text" value="22509.196969"/>	<input type="text" value="0.903895"/>	<input type="text" value="0.11"/>

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

17

DEP EU#

1180127

in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

0

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

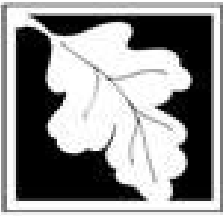
2018

Year of Record

17

DEP EU#

1180127



D. Total Emissions (cont.)

1. Total emissions for this emissions unit only in tons per year:

Calculations: The form calculates this unit's total actual CO₂e for each pollutant (gas) and total CO₂e emissions, from the emissions you have provided in Section B. Return to Section B, if you need to correct those numbers.

Pollutant:	CO2	CH4	N2O	SF6	Refrigerants-CO2e
Actual for previous year	1728.6509 Tons	0.0327 Tons	0.0032 Tons	 Tons	 Tons
Actual for year of record:	1553.2620 Tons	0.0294 Tons	0.0029 Tons	0 Tons	0 Tons
CO ₂ e for previous year (Tons)	 Tons	 Tons	 Tons	 Tons	 Tons
CO ₂ e for year of record (Tons)	1553.2620 Tons	0.7348 Tons	0.8504 Tons	0 Tons	0 Tons

2. Total CO₂e emissions

0

a. Actual for previous year(Tons)

1554.8472

b. Actual for year of record (Tons)



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

OFF-CAMPUS RESIDENCES < 50 MMBTU - NAT. GAS

a. Facility's choice of emission unit name - edit as needed

20

b. Facility's emission unit number / code - edit as needed

20

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

67

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1980

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

VARIOUS

b. Manufacturer

VARIOUS

c. Model Number

17.5388

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

20

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

10300603

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Natural Gas - < 10 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

NATURAL GAS

c. Fuel/Process Description:

VARIOUS EQUIP. NAT GAS

2. Total actual amount used for year of record:

(Enter "0" if not used in the year of record)

19.7322

MILLION CUBIC FEET

Amount - year of record Units

34.4265 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	2065.9302 Tons	0.0391 Tons	0.0038 Tons
Actual for year of record:	1183.9320 Tons	0.0224 Tons	0.0022 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

20

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	1183.9320	0.5601	0.6482
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

1185.1403

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THIS FORM COMBINES RESIDENCES LOCATED AROUND THE MAIN CAMPUS THAT ARE OWNED BY WPI. THESE SOURCES INCLUDE BOILERS, WATER HEATERS AND FURNACES. EACH OF THESE SOURCES HAS A MAXIMUM INPUT RATING < 3 MMBTU/HR AND A COMBINED EQUAL TO 19.5 MMBTU/HR.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

20

DEP EU#

1180127

Empty form area with scrollbars.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

ON-CAMPUS MISCELLANEOUS SOURCES 1ST SET - NAT. GAS

a. Facility's choice of emission unit name - edit as needed

21

b. Facility's emission unit number / code - edit as needed

21

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

21

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1980

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

VARIOUS

b. Manufacturer

VARIOUS

c. Model Number

9.9422

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

21

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

10300603

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Natural Gas - < 10 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

NATURAL GAS

▼

c. Fuel/Process Description:

VARIOUS EQUIP. NAT GAS

2. Total actual amount used for year of record:

(Enter "0" if not used in the year of record)

4.4961

MILLION CUBIC FEET ▼

Amount - year of record Units

7.6294 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	457.8424 Tons	0.0087 Tons	0.0008 Tons
Actual for year of record:	269.7660 Tons	0.0051 Tons	0.0005 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

21

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	269.7660	0.1276	0.1477
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

270.0413

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THIS FORM COMBINES VARIOUS UNITS LOCATED WITHIN THE MAIN CAMPUS. THESE SOURCES INCLUDE BOILERS, WATER HEATERS, DRYERS AND FURNACES. EACH OF THESE SOURCES HAS A MAXIMUM INPUT RATING < 3 MMBTU/HR AND A COMBINED EQUAL TO 9.94 MMBTU/HR.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

21

DEP EU#

1180127

Empty form area with scrollbars.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

ON-CAMPUS MISCELLANEOUS SOURCES 2ND SET - NAT. GAS

a. Facility's choice of emission unit name - edit as needed

22

b. Facility's emission unit number / code - edit as needed

22

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

14

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1980

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

VARIOUS

b. Manufacturer

VARIOUS

c. Model Number

9.041

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

22

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

10300603

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Natural Gas - < 10 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

NATURAL GAS

c. Fuel/Process Description:

VARIOUS EQUIP. NAT GAS

2. Total actual amount used for year of record:
(Enter "0" if not used in the year of record)

82.9934 MILLION CUBIC FEET

Amount - year of record Units

89.1445 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	5349.5477 Tons	0.1012 Tons	0.0098 Tons
Actual for year of record:	4979.6040 Tons	0.0942 Tons	0.0091 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

22

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	4979.6040	2.3557	2.7262
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

4984.6859

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THIS FORM COMBINES VARIOUS UNITS LOCATED WITHIN THE MAIN CAMPUS. THESE SOURCES INCLUDE BOILERS, WATER HEATERS, OVENS, FURNACES AND KITCHEN EQUIPMENT. EACH OF THESE SOURCES HAS A MAXIMUM INPUT RATING < 3 MMBTU/HR AND A COMBINED EQUAL TO 9.93 MMBTU/HR.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

22

DEP EU#

1180127

A large, empty rectangular area intended for data entry, framed by a thin black border. At the bottom of this area, there is a horizontal scroll bar with a small arrow pointing to the right, indicating that the content can be scrolled horizontally.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

ON-CAMPUS MISCELLANEOUS SOURCES 3RD SET - NAT. GAS

a. Facility's choice of emission unit name - edit as needed

23

b. Facility's emission unit number / code - edit as needed

23

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

6

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1980

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

VARIOUS

b. Manufacturer

VARIOUS

c. Model Number

9.416

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

23

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

10300603

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Natural Gas - < 10 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

NATURAL GAS

c. Fuel/Process Description:

VARIOUS EQUIP. NAT GAS

2. Total actual amount used for year of record:
(Enter "0" if not used in the year of record)

5.4664 MILLION CUBIC FEET

Amount - year of record Units

10.6582 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	639.5982 Tons	0.1210 Tons	0.0012 Tons
Actual for year of record:	327.9840 Tons	0.0062 Tons	0.0006 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

23

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	327.9840	0.1552	0.1796
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

328.3188

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THIS FORM COMBINES VARIOUS UNITS LOCATED WITHIN THE MAIN CAMPUS. THESE SOURCES INCLUDE BOILERS, WATER HEATERS, OVENS, FURNACES AND KITCHEN EQUIPMENT. EACH OF THESE SOURCES HAS A MAXIMUM INPUT RATING < 3 MMBTU/HR AND A COMBINED EQUAL TO 8.677 MMBTU/HR.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

23

DEP EU#

1180127



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

OFF-CAMPUS RESIDENCES < 10 MMBTU - #2 OIL

a. Facility's choice of emission unit name - edit as needed

24

b. Facility's emission unit number / code - edit as needed

24

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

11

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1980

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

VARIOUS

b. Manufacturer

VARIOUS

c. Model Number

1.9971

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
Year of Record
24
DEP EU#
1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 10300501

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Distillate Oil - Grades 1 and 2 - Boiler

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: FUEL NO.2

c. Fuel/Process Description: VARIOUS EQUIP. #2 FUEL OIL

2. Total actual amount used for year of record: 0.0000 1000 GALLONS

(Enter "0" if not used in the year of record) Amount - year of record Units
0 1000 GALLONS
Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	0 Tons	0 Tons	0 Tons
Actual for year of record:	0 Tons	0 Tons	0 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

24

DEP EU#

1180127

Emission Factor	22509.196969	0.903895	0.11
in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

0

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THIS FORM COMBINES VARIOUS UNITS LOCATED AROUND THE MAIN CAMPUS AND THAT ARE OWNED BY WPI. THESE SOURCES INCLUDE BOILERS, WATER HEATERS, AND FURNACES. EACH OF THESE SOURCES HAS A MAXIMUM INPUT RATING < 1 MMBTU/HR AND A COMBINED EQUAL TO 2.3 MMBTU/HR.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

24

DEP EU#

1180127



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

BOILERS (2) GATEWAY - LATTNER - NAT GAS

a. Facility's choice of emission unit name - edit as needed

27

b. Facility's emission unit number / code - edit as needed

26

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

2

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/2007

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

LATTNER

b. Manufacturer

WLF

c. Model Number

6.7

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
Year of Record
26
DEP EU#
1180127

B. Fuels and Emissions

Is GHG emissions reporting required for this fuel, waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input, output or fuel? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 10300603

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Natural Gas - < 10 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: BOILER (2) GATEWAY - NAT GAS

2. Total actual amount used for year of record: 1.9678 MILLION CUBIC FEET

(Enter "0" if not used in the year of record) Amount - year of record Units
31.4005 MILLION CUBIC FEET
Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	1884.3401 Tons	0.0357 Tons	0.0035 Tons
Actual for year of record:	118.0680 Tons	0.0022 Tons	0.0002 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

26

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	118.0680	0.0559	0.0646
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

118.1885

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

26

DEP EU#

1180127



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

BOILERS (2) GATEWAY - CLEAVER BROOKS - NAT GAS

a. Facility's choice of emission unit name - edit as needed

26

b. Facility's emission unit number / code - edit as needed

27

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

2

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/2007

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

CLEAVER BROOKS

b. Manufacturer

FLX 700

c. Model Number

12

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
Year of Record
27
DEP EU#
1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 10300603

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Natural Gas - < 10 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: BOILERS (2) GATEWAY - NAT GAS

2. Total actual amount used for year of record: 15.9272 MILLION CUBIC FEET
(Enter "0" if not used in the year of record)

Amount - year of record Units
4.6369 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	278.2645 Tons	0.0053 Tons	0.0005 Tons
Actual for year of record:	955.6320 Tons	0.0181 Tons	0.0018 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

27

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	955.6320	0.4521	0.5232
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

956.6073

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THIS FORM COMBINES 2 BOILERS OF 6 MMBTU/HR EACH.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

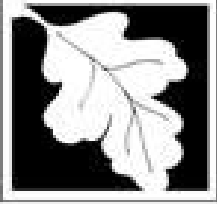
Year of Record

27

DEP EU#

1180127

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A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

GENERATOR #7 - KOHLER 500 GATEWAY

a. Facility's choice of emission unit name - edit as needed

28

b. Facility's emission unit number / code - edit as needed

28

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

12/01/2006

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

KOHLER

b. Manufacturer

500REOZVB

c. Model Number

5

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

28

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

20300101

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Distillate Oil (Diesel) - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

DIESEL

c. Fuel/Process Description:

GENERATOR #9 - KOHLER - DIESEL

2. Total actual amount used for year of record:

(Enter "0" if not used in the year of record)

1.3320

1000 GALLONS

Amount - year of record Units

1.365 1000 GALLONS

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	15.4277 Tons	0 Tons	0 Tons
Actual for year of record:	15.0516 Tons	0.0006 Tons	0.0001 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

28

DEP EU#

1180127

Emission Factor	22600	0.910450	0.177650
in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	15.0516	0.0152	0.0353
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

15.1021

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

28

DEP EU#

1180127



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

GENERATOR #10 - KOHLER 150 EAST HALL

a. Facility's choice of emission unit name - edit as needed

29

b. Facility's emission unit number / code - edit as needed

29

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

08/01/2008

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

KOHLER

b. Manufacturer

150REOZGD

c. Model Number

1.62

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

29

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

20300101

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Distillate Oil (Diesel) - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

DIESEL

c. Fuel/Process Description:

GENERATOR #10 KOHLER - DIESEL

2. Total actual amount used for year of record:
(Enter "0" if not used in the year of record)

0.3360 1000 GALLONS

Amount - year of record Units

.356 1000 GALLONS

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	4.0273 Tons	0 Tons	0 Tons
Actual for year of record:	3.7968 Tons	0.0002 Tons	0 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

29

DEP EU#

1180127

Emission Factor	22600	0.910450	0.177650
in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	3.7968	0.0038	0.0089
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

3.8095

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

29

DEP EU#

1180127

Empty form area with scrollbars.



2018
 Year of Record
 30
 DEP EU#
 1180127
 Facility AQ Identifier

A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMER GEN #11 GODDARD HALL OLYMPIAM G60F3 NAT GAS

a. Facility's choice of emission unit name - edit as needed

30

b. Facility's emission unit number / code - edit as needed

30

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

06/01/2009

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

OLYMPIAN

b. Manufacturer

G60F3

c. Model Number

.678

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

30

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300201

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Natural Gas - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: EMER GEN GODDARD OLYMPUS NAT GAS

2. Total actual amount used for year of record: 0.0074 MILLION CUBIC FEET
(Enter "0" if not used in the year of record)

.0136 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	0.8178 Tons	0 Tons	0 Tons
Actual for year of record:	0.4441 Tons	0 Tons	0 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

30

DEP EU#

1180127

Emission Factor	120019.655533	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0.4441	0.0002	0.0002
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

0.4445

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
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GHG Form

Emission Unit

2018

Year of Record

30

DEP EU#

1180127

This section contains a large, empty rectangular area for data entry, framed by a thin black border. A horizontal scrollbar is visible at the bottom of this area, indicating that the content can be scrolled horizontally.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMER GENERATOR #8 GATEWAY GARAGE CAT D125-6 DIESEL

a. Facility's choice of emission unit name - edit as needed

31

b. Facility's emission unit number / code - edit as needed

31

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

05/01/2007

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

CATERPILLAR

b. Manufacturer

D125-6

c. Model Number

1.4819

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

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DEP EU#

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B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

20300101

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Distillate Oil (Diesel) - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

DIESEL

c. Fuel/Process Description:

EMER GEN#12 GATEWAY GARAGE CAT DIESEL

2. Total actual amount used for year of record:

(Enter "0" if not used in the year of record)

1.1170

1000 GALLONS

Amount - year of record Units

.1 1000 GALLONS

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	1.1245 Tons	0 Tons	0 Tons
Actual for year of record:	12.6221 Tons	0.0005 Tons	0.0001 Tons

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Emission Factor	22600	0.910450	0.177650
in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	12.6221	0.0127	0.0296
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

12.6644

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

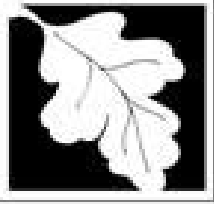
Year of Record

31

DEP EU#

1180127

Empty form area with scrollbars.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMERGENCY GENERATOR #12 RECREATION CENTER - DIESEL

a. Facility's choice of emission unit name - edit as needed

32

b. Facility's emission unit number / code - edit as needed

32

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

07/08/2012

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

KHOLER

b. Manufacturer

400REOZDD

c. Model Number

4.41

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

32

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300101

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Distillate Oil (Diesel) - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: DIESEL

c. Fuel/Process Description: DIESEL

2. Total actual amount used for year of record: 0.5740 1000 GALLONS
(Enter "0" if not used in the year of record)

Amount - year of record Units

.638 1000 GALLONS

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	7.2058 Tons	0 Tons	0 Tons
Actual for year of record:	6.4862 Tons	0.0003 Tons	0.0001 Tons

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Emission Unit

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Emission Factor	22600	0.910450	0.177650
in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	6.4862	0.0065	0.0152
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

6.5079

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

32

DEP EU#

1180127

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A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMERGENCY GENERATOR #13 GATEWAY 2 - DIESEL

a. Facility's choice of emission unit name - edit as needed

33

b. Facility's emission unit number / code - edit as needed

33

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/2014

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

CUMMINS

b. Manufacturer

DFEH 60 HZ

c. Model Number

3.78

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
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DEP EU#
1180127

B. Fuels and Emissions

Is GHG emissions reporting required for this fuel, waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input, output or fuel? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300101

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Distillate Oil (Diesel) - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: DIESEL

c. Fuel/Process Description: DIESEL

2. Total actual amount used for year of record: 0.5730 1000 GALLONS
(Enter "0" if not used in the year of record)

Amount - year of record Units
.527 1000 GALLONS

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	5.9539 Tons	0 Tons	0 Tons
Actual for year of record:	6.4749 Tons	0.0003 Tons	0.0001 Tons

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Emission Factor	22600	0.910450	0.177650
in pounds per unit	1000 GALLONS	1000 GALLONS	1000 GALLONS
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	6.4749	0.0065	0.0152
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

6.4966

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
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GHG Form

Emission Unit

2018

Year of Record

33

DEP EU#

1180127

This section contains a large, empty rectangular area for data entry, framed by a thin border. A horizontal scrollbar is visible at the bottom of this area, indicating that the content can be scrolled horizontally.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMERGENCY GENERATOR #14 - FARRADAY OLYMPIAN

a. Facility's choice of emission unit name - edit as needed

34

b. Facility's emission unit number / code - edit as needed

34

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

06/21/2013

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

OLYMPIAN

b. Manufacturer

G250LG2

c. Model Number

.853

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
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1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300201

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Natural Gas - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: NATURAL GAS

2. Total actual amount used for year of record: 0.0222 MILLION CUBIC FEET
(Enter "0" if not used in the year of record)

Amount - year of record Units
.0206 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	1.2352 Tons	0 Tons	0 Tons
Actual for year of record:	1.3322 Tons	0 Tons	0 Tons

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Emission Factor	120019.655533	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	1.3322	0.0006	0.0007
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

1.3335

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
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Emission Unit

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A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

GATEWAY COGENERATION UNITS - TECOGEN

a. Facility's choice of emission unit name - edit as needed

35

b. Facility's emission unit number / code - edit as needed

35

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

2

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

04/23/2014

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

OTHER COMBUSTION

COGENERATION UNITS

TECOGEN

b. Manufacturer

CM-75

c. Model Number

1.854

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
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35
DEP EU#
1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300204

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Natural Gas - Reciprocating: Cogeneration

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: NATURAL GAS

2. Total actual amount used for year of record: 0.7035 MILLION CUBIC FEET
(Enter "0" if not used in the year of record)

.6334 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	38.0093 Tons	0.0007 Tons	0.0001 Tons
Actual for year of record:	42.2169 Tons	0.0008 Tons	0.0001 Tons

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Emission Unit

2018

Year of Record

35

DEP EU#

1180127

Emission Factor	120019.655533	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	42.2169	0.02	0.0231
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

42.26

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

35

DEP EU#

1180127

Empty form area with scrollbars.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

BOILER #4 FOUNDERS -2 HB SMITH+2 PVI NATURAL GAS

a. Facility's choice of emission unit name - edit as needed

4

b. Facility's emission unit number / code - edit as needed

4

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

5

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

06/01/1985

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

BOILER

BOILER

HB SMITH / PVI

b. Manufacturer

VARIOUS

c. Model Number

8.944

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

4

DEP EU#

1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

10300603

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

External Combustion Boilers - Commercial/Institutional - Natural Gas - < 10 Million BTU/hr

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

NATURAL GAS

c. Fuel/Process Description:

BOILER #4 FOUNDERS+HB SMITH+PVI NATURAL GAS

2. Total actual amount used for year of record:

4.1532

MILLION CUBIC FEET

(Enter "0" if not used in the year of record)

Amount - year of record Units

6.5734 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	394.4099 Tons	0.0075 Tons	0.0007 Tons
Actual for year of record:	249.1920 Tons	0.0047 Tons	0.0005 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

4

DEP EU#

1180127

Emission Factor	120000	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	249.1920	0.1179	0.1364
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

249.4463

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

THIS FORM COMBINES 2 BOILERS OF 2 MMBTU EACH, 2 WATER HEATERS OF 0.7 MMBTU EACH, 1 WATER HEATER OF 1.8 MMBTU AND MISCELLANEOUS KITCHEN EQUIPMENT (WITH A COMBINED MMBTU OF 1.7). THEREFORE, THE TOTAL MAXIMUM INPUT RATING (SECTION A-9-D) IS LISTED AS 8.9 MMBTU.

UPDATE FOR RY2017 - THE EDEP SYSTEM PRE-POPULATED AN APPROVAL DATE AND WOULD NOT ALLOW US TO DELETE IT. THEREFORE WE ENTERED AN APPROVAL NUMBER OF NA SO THAT THE FORM COULD BE VALIDATED. PLEASE NOTE THAT THIS EMISSION UNIT DOES

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

4

DEP EU#

1180127

NOT HAVE A PLAN APPROVAL.



2018

Year of Record

7

DEP EU#

1180127

Facility AQ Identifier

A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMER GEN #1 - KOHLER 80R282 - NAT GAS DANIELS HALL

a. Facility's choice of emission unit name - edit as needed

7

b. Facility's emission unit number / code - edit as needed

7

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1996

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

KOHLER

b. Manufacturer

80-R2-82

c. Model Number

1.097

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
Year of Record
7
DEP EU#
1180127

B. Fuels and Emissions

Is GHG emissions reporting required for this fuel, waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input, output or fuel? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300201

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Natural Gas - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: EMER GEN #1 - KOHLER 80-R2-82 - NAT GAS - PWR HSE

2. Total actual amount used for year of record: 0.0372 MILLION CUBIC FEET
(Enter "0" if not used in the year of record)

.0389 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	2.3370 Tons	0 Tons	0 Tons
Actual for year of record:	2.2324 Tons	0 Tons	0 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

7

DEP EU#

1180127

Emission Factor	120019.655533	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	2.2324	0.0011	0.0012
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

2.2347

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

7

DEP EU#

1180127



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMER GEN #2 - CPI 115G0 - NAT GAS - FOUNDERS HALL

a. Facility's choice of emission unit name - edit as needed

8

b. Facility's emission unit number / code - edit as needed

8

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1985

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

CPI

b. Manufacturer

115G0

c. Model Number

1.614

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
Year of Record
8
DEP EU#
1180127

B.Fuels and Emissions

Is GHG emissions reporting required for this fuel,waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input,output or fuel ? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300201

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Natural Gas - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: EMER GEN #2 - CPI 115G0 - NAT GAS - FOUNDERS HALL

2. Total actual amount used for year of record: 0.0353 MILLION CUBIC FEET
(Enter "0" if not used in the year of record)

Amount - year of record Units
.0347 MILLION CUBIC FEET

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input checked="" type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	2.0824 Tons	0 Tons	0 Tons
Actual for year of record:	2.1183 Tons	0 Tons	0 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

8

DEP EU#

1180127

Emission Factor	120019.655533	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	2.1183	0.0010	0.0012
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

2.1205

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

8

DEP EU#

1180127

Empty form area with scrollbars.



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

EMER GEN #3 - ONAN 15JC4R - NAT GAS - HARRINGTON

a. Facility's choice of emission unit name - edit as needed

9

b. Facility's emission unit number / code - edit as needed

9

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

FUEL BURNING DEVICE

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1968

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

RECIPROCATING IC ENGINE

RECIPROCATING IC ENGINE

ONAN

b. Manufacturer

15JC4R

c. Model Number

.206

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018
Year of Record
9
DEP EU#
1180127

B. Fuels and Emissions

Is GHG emissions reporting required for this fuel, waste or raw material/finished product? Yes No

Is this fuel, waste, or raw material/finished product an input, output or fuel? input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records): 1

1. DEP Fuel #: 1

a. Source Classification Code (SCC): 20300201

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

Internal Combustion Engines - Commercial/Institutional - Natural Gas - Reciprocating

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type: NATURAL GAS

c. Fuel/Process Description: EMER GEN #3 - ONAN 15JC4R - NAT GAS - HARRINGTON

2. Total actual amount used for year of record: 0.0047 MILLION CUBIC FEET

(Enter "0" if not used in the year of record)
Amount - year of record Units
.0064 MILLION CUBIC FEET
Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input checked="" type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	0.3845 Tons	0 Tons	0 Tons
Actual for year of record:	0.2820 Tons	0 Tons	0 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

9

DEP EU#

1180127

Emission Factor	120019.655533	2.270761	0.220462
in pounds per unit	MILLION CUBIC FEET	MILLION CUBIC FEET	MILLION CUBIC FEET
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0.2820	0.0001	0.0002
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:			
	Tons	Tons	Tons
Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

0.2823

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

9

DEP EU#

1180127



A. Equipment Description

1. Facility Identifiers:

WORCESTER POLYTECHNICAL INSTITUTE

a. Facility Name

132563

b. DEP Account Number

1180127

c. Facility AQ Identifier

2. Emission Unit Identifiers:

REFRIGERANTS FROM AIR CONDITIONERS

a. Facility's choice of emission unit name - edit as needed

36

b. Facility's emission unit number / code - edit as needed

36

c. DEP Emission Unit (EU)#

d. ORIS ID # – for large electrical utilities only

e. Combined Units – enter number of individual units

GHG-ONLY

f. Emission Unit Category

Yes No

g. Is GHG emissions reporting required for this emission's unit?

3. Emission unit installation and decommission dates:

01/01/1980

a. Installation Date (mm/dd/yyyy) - estimate if unknown

b. Decommission Date (mm/dd/yyyy) - if applicable

Complete only if the unit was shut down permanently or replaced since the last report.

4. Emission Unit Replacement

a. Is this unit, replacing another emission unit?

No Yes - Select DEP's emissions unit number from the dropdownlist below, for the unit being replaced.

b. DEP's Emission Unit Number and facility's emission unit name

5. Equipment

a. Equipment Type

EPA Unit Type Code

OTHER FUGITIVE

AIR CONDITIONERS

VARIOUS

b. Manufacturer

NA

c. Model Number

d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018

Year of Record

36

DEP EU#

1180127

B. Fuels and Emissions

Is GHG emissions reporting required for this fuel, waste or raw material/finished product?

Yes No

Is this fuel, waste, or raw material/finished product an input, output or fuel?

input output Fuel

Add a NEW fuel (New chamber if incinerator): Check the box if you need to add a fuel that you did not report on previously (eDEP will add a blank Sect. B form to your package). If "Number of fuels for this unit" below is greater than 1, review the other fuels before checking this box.

Delete this fuel: Check the box if you stopped using this fuel in this unit permanently. You must still report for this year of record even if amount is "0" – the fuel will be removed from the unit in the next report cycle. If "Number of fuels for this unit" is 1, do not delete this fuel unless you have also checked "Add a New fuel".

Number of fuels for this unit (previous records):

1

1. DEP Fuel #:

1

a. Source Classification Code (SCC):

99999998

SCC (Click on "Error Check" after entry of SCC; call DEP if SCC does not pass the error check.)

GHG Source Categories - Unspecified Technology - Chillers & Stationary Air Conditioners - Fugitive Emissions

SCC Description - filled by eDEP after error check

b. Fuel/Material/Waste Type:

COOLANT

c. Fuel/Process Description:

AIR CONDITIONERS

2. Total actual amount used for year of record:
(Enter "0" if not used in the year of record)

0.0000 TONS

Amount - year of record Units

.067 TONS

Prior year

3. Total emissions for this fuel only in tons per year:

Calculations: The form will automatically calculate the actual emissions UNLESS you check a box to the left of the pollutant listed below to manually enter emissions .

Important: Leaving blanks for emissions "Actual for year of record" means that you are certifying that there were less than 0.0001 (or zero) tons of emissions each.

Pollutant:	<input checked="" type="checkbox"/> CO2	<input type="checkbox"/> CH4	<input type="checkbox"/> N2O
Actual for previous year	0 Tons	0 Tons	0 Tons
Actual for year of record:	 Tons	 Tons	 Tons

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

36

DEP EU#

1180127

Emission Factor			
in pounds per unit			
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons
Pollutant:	<input type="checkbox"/> SF6	<input checked="" type="checkbox"/> Refrigerents-CO2e	<input type="checkbox"/> Other Specify Other Pollutant
Actual for previous year			
	Tons	Tons	Tons
Actual for year of record:		0	
	Tons	Tons	Tons
Emission Factor		0.0000	
in pounds per unit		TONS	
Calculation Method			
Specify General Reporting Protocol EF			
CO2e for previous year			
	Tons	Tons	Tons
CO2e for year of record (Tons)	0	0	0
	Tons	Tons	Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

0

b. Actual for year of record (Tons)

C. Notes

Please include in the space below any additional information that will help DEP understand your submission.

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018

Year of Record

36

DEP EU#

1180127

This area is a large, empty rectangular box intended for data entry. It is framed by a thin black border. At the bottom of this box, there is a horizontal scroll bar with a small arrow pointing to the right, indicating that the content can be scrolled horizontally.



GHG TES
Total Emissions Statement

2018
Year of Record
DEP EU#
1180127
Facility AQ Identifier

A. Annual Total Emissions Statement

1. Facility Identifiers:

WORCESTER POLYTECHNIC INSTITUTE

a. Facility Name

132563

1180127

b. DEP Account Number

c. Facility AQ Identifier

2. Total Emissions :

This form calculates your facility's actual emissions, including CO2e emissions for each greenhouse gas pollutant, as well as, Total CO2e emissions, by adding the emissions you entered in the forms for each emission unit. The results are displayed in the tables below. You must validate each emission unit's form first, before the results below will be complete.

Pollutant:	CO2	CH4	N2O	SF6	Refrigerents-CO2e
Actual for previous year	16232.7611 Tons	.4151 Tons	.0298 Tons	0 Tons	 Tons
Actual for year of record:	13089.4577 Tons	0.2488 Tons	0.0246 Tons	0 Tons	 Tons
CO2e for previous year (Tons)	 Tons	 Tons	 Tons	 Tons	 Tons
CO2e for year of record (Tons)	13089.4577 Tons	6.2237 Tons	7.2716 Tons	0 Tons	 Tons

3. Total CO2e emissions

0

a. Actual for previous year (Tons)

13102.9530

b. Actual for year of record (Tons)

B. Notes

1. Please include in the space below any additional information that will help DEP understand your submission (5000 character max).

Massachusetts Department of Environmental Protection
Bureau of Air and Waste - Air Quality

GHG TES

Total Emissions Statement

2018

Year of Record

DEP EU#

1180127

2. Attachments:

Check here to submit attachments to this form .

For eDEP on-line filers, this will create a new step on your Current Submittals Page where you will attach electronic files to your submittal. For attachments that **cannot** be sent electronically, please list all such attachments in the notes above and deliver them to DEP with a paper copy of this form."