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Transaction ID: 1176626

Document: Greenhouse Gas Package(GHG)

Size of File: 4877.29K

Status of Transaction: In Process

Date and Time Created: 2/24/2020:3:52:21 PM

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

YEAR OF RECORD

1180127

FACILTY 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	Check if you added emission units since your last
year 2018	report.
New Facility:Check if you have never before submitted an AQ Green	nhouse 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 so in the list below to select the forms/units you wish to work	_

2.Facility Name:	WORCESTER POLYTECHNICAL	. INSTITUTE
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Our records indicate that this facility has 26 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
V	BOILER #4 FOUNDERS -2 HB SMITH+2 PVI NATURAL GAS	4	FUEL BURNING DEVICE	2017
<u>~</u>	EMER GEN #1 - KOHLER 80R282 - NAT GAS DANIELS HALL	7	FUEL BURNING DEVICE	2017
<u>~</u>	EMER GEN #2 - CPI 115G0 - NAT GAS - FOUNDERS HALL	8	FUEL BURNING DEVICE	2017
V	EMER GEN #3 - ONAN 15JC4R - NAT GAS - HARRINGTON	9	FUEL BURNING DEVICE	2017
<u>~</u>	EMER GEN #4 - OLYMPIAN 96A - NAT GAS- SALISBURY	10	FUEL BURNING DEVICE	2017
<u>~</u>	EMER GEN #5 - SUPERIOR 50R161 - #2 OIL FULLER ROOF	12	FUEL BURNING DEVICE	2017
V	GENERATOR #6-CAT #D200P4 DIESEL FULLER GROUND	13	FUEL BURNING DEVICE	2017
V	GENERATOR #9-CAT # SR-4 - DIESEL POWER PLANT	14	FUEL BURNING DEVICE	2017
V	NEW BOILER #1-VICTORY ENERGY - NAT GAS / #2 OIL	15	FUEL BURNING DEVICE	2017
~	NEW BOILER #2-VICTORY ENERGY - NAT GAS	16	FUEL BURNING DEVICE	2017
			I	i

Bureau of Air and Waste

Greenhouse Gas Overview

2018

YEAR OF RECORD

1180127

FACILTY AQ Identifier

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



Facility Information

2018	
Year of Record	

1180127

Α.	Faci	litv	Inforr	mation:

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	MA		016090000
d. City/Town	e. State		f. ZIP Code
5088315130		5088315551	
g. Facility Phone Number		h. Facility Fax Nu	mber
. Mailing address: (check all that apply)	same address a	as facility address	
100 INSTITUTE ROAD			
a. Facility Mailing Address / PO Box Line 1			
b. Facility Mailing Address / PO Box Line 2			
WORCESTER	MA		016090000
WORCESTER	MA d. State		016090000 e. ZIP Code
WORCESTER c. City/Town	•		
WORCESTER c. City/Town	•		
WORCESTER c. City/Town Facility type - check one: C Utility Private C Tribal	d. State	○ State	e. ZIP Code
WORCESTER c. City/Town Facility type - check one: C Utility Private C Tribal	d. State		e. ZIP Code C Local Government
WORCESTER c. City/Town Facility type - check one: C Utility Private C Tribal ORIS Facility Code - for large electrical utilitie	d. State	☐ State ORIS Facility Co	e. ZIP Code C Local Government
c. City/Town Facility type - check one: C Utility Private Tribal ORIS Facility Code - for large electrical utilitie ID Numbers:	d. State © Federal s only:	ORIS Facility Co	e. ZIP Code C Local Government
WORCESTER c. City/Town Facility type - check one: C Utility Private C Tribal ORIS Facility Code - for large electrical utilitie ID Numbers:	d. State © Federal s only:	ORIS Facility Co	e. ZIP Code C Local Government
WORCESTER c. City/Town Facility type - check one: C Utility Private C Tribal ORIS Facility Code - for large electrical utilitie ID Numbers:	d. State © Federal s only:	ORIS Facility Co	e. ZIP Code C Local Government
WORCESTER c. City/Town Facility type - check one: C Utility Private C Tribal ORIS Facility Code - for large electrical utilitie ID Numbers: 132563 a. DEP Account Number / FMF Facility #	d. State © Federal s only:	ORIS Facility Co	e. ZIP Code C Local Government
WORCESTER c. City/Town Facility type - check one: C Utility Private C Tribal ORIS Facility Code - for large electrical utilitie ID Numbers: 132563 a. DEP Account Number / FMF Facility #	d. State © Federal s only:	ORIS Facility Co	e. ZIP Code C Local Government
WORCESTER c. City/Town Facility type - check one: C Utility Private Tribal ORIS Facility Code - for large electrical utilitie ID Numbers: 132563 a. DEP Account Number / FMF Facility # Location: 42.273585	d. State © Federal s only:	ORIS Facility Co 1180127 b. Facility AQ Identif	e. ZIP Code C Local Government de
WORCESTER c. City/Town . Facility type - check one: C Utility Private C Tribal . ORIS Facility Code - for large electrical utilitie . ID Numbers: 132563 a. DEP Account Number / FMF Facility # . Location :	d. State © Federal s only:	ORIS Facility Co 1180127 D. Facility AQ Identif 71.809740 b. Longitude - Wes	e. ZIP Code C Local Government de
WORCESTER c. City/Town . Facility type - check one: C Utility Private Tribal . ORIS Facility Code - for large electrical utilitie . ID Numbers: 132563 a. DEP Account Number / FMF Facility # . Location : 42.273585 a. Latitude 42.9 - 41.2	d. State © Federal s only:	ORIS Facility Co 1180127 D. Facility AQ Identif 71.809740 b. Longitude - Wes	e. ZIP Code C Local Government de

Facility Information

2018

Year of Record

1180127

Facility description (What is being produced and how it	is being produced at	this facility - update as needed):
VORCESTER POLYTECHNIC INSTITUTE (WPI) IS A TECHNOLOGIC	AL UNIVERSITY.	
Facility's normal hours of operation:		
12:00 AM	▼	✓ c. Continuous - 24 X 7 X 52
a. Start Time b. End Time		
d. Which days is the facility open?	Гм Гт	MW MT MF MS
a. Which days is the lasting open.		
0. Number of Employees: 800		
Facility Owner: same address as facility	, mailing addrage (will	copy address into fields below)
Same address as facility	Thailing address (will	copy address into fields below)
Please contact your MassDEP Regional Office if the own	ership 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)		
2. maining realises 2o . (i.e. cilinoi ci corporation)		
A Marillan Address Line O		
c. Mailing Address Line 2		
		016090000
WORCESTER	MA	
WORCESTER d. City/Town	IMA e. State	f. Zip Code
d. City/Town	e. State	
d. City/Town US ■ G. Country	e. State 042121659	
d. City/Town	e. State 042121659	

Facility Information

2018

Year of Record

1180127

12. Facility contact information:	same address as facility address	
	same address as facility mailing address	
WILLIAM	GRUDZINSKI	
a. Facility Contact First Name	Contact Last Name	
37 LEE STREET		
b. Mailing Address Line 1		
c. Mailing Address Line 2		
WORCESTER	MA	030620000
d. City/Town	e. State	f. Zip Code
US	williamg@wpi.edu	
g. Country	h. E-mail Address	
5088316406		
i. Phone Number	j. Extension	k. Fax Number

Facility Information

2018

Year of Record

1180127

s. Air emissions information contact: Not Applicable fo	or Greenhouse Gas Emissic	ons.
_		
. Preparer		
Contact information for the preparer of this submittal:		ddress as GHG emissions contact name and
	address	days on the state of the second order of
	same name and a	ddress as facility contact name and address facility address
LLEN		,
Preparer First Name	DECOTIS Preparer Last Name	
77 CORPORATE DRIVE		
Mailing Address Line 1		
J		
Mailing Address Line 2		
ORTSMOUTH	NH	038010000
City/Town	e. State	f. Zip Code
JS	▼ ETDeCotis@tighebo	nd.com
Country	h. E-mail Address	
084719635		
Phone Number	j. Extension	k. Fax Number

Facility Information

2018

Year of Record

1180127

C. I	N	otes
C.	v	ひしせる

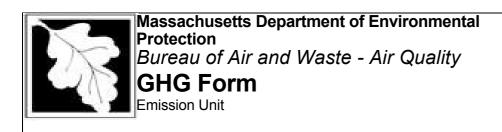
paracter max).	
) Cartification	
D. Certification	
certify that I have personally examined the foregoing and	Responsible official - complete all fields below.
certify that I have personally examined the foregoing and m familiar with the information contained in this report	<u> </u>
certification certify that I have personally examined the foregoing and m familiar with the information contained in this report all attachments and that, based on my inquiry of those polividuals immediately responsible for obtaining the	WILLIAM
certify that I have personally examined the foregoing and m familiar with the information contained in this report nd all attachments and that, based on my inquiry of those ndividuals immediately responsible for obtaining the	<u> </u>
certify that I have personally examined the foregoing and m familiar with the information contained in this report nd all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the information; I believe that the information is true, accurate,	WILLIAM
certify that I have personally examined the foregoing and m familiar with the information contained in this report all attachments and that, based on my inquiry of those adviduals immediately responsible for obtaining the aformation; I believe that the information is true, accurate, and complete. I am aware that there are signification	WILLIAM
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the afformation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including	WILLIAM a. First Name
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the aformation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including	WILLIAM a. First Name GRUDZINSKI
certify that I have personally examined the foregoing and m familiar with the information contained in this report nd all attachments and that, based on my inquiry of those ndividuals immediately responsible for obtaining the	WILLIAM a. First Name GRUDZINSKI
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the aformation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including ossible fines and imprisonment."	WILLIAM a. First Name GRUDZINSKI b. Last Name
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the aformation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including ossible fines and imprisonment."	WILLIAM a. First Name GRUDZINSKI b. Last Name CHIEF ENGINEER
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the aformation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including cossible fines and imprisonment." Tresponsible official for the facility must provide the electronic signature. The signature and date are inserted elow by eDEP during the signature Step.	WILLIAM a. First Name GRUDZINSKI b. Last Name CHIEF ENGINEER
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those dividuals immediately responsible for obtaining the formation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including possible fines and imprisonment." The responsible official for the facility must provide the electronic signature. The signature and date are inserted elow by eDEP during the signature Step.	WILLIAM a. First Name GRUDZINSKI b. Last Name CHIEF ENGINEER c. Title
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the aformation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including cossible fines and imprisonment." The responsible official for the facility must provide the electronic signature. The signature and date are inserted the elow by eDEP during the signature Step.	WILLIAM a. First Name GRUDZINSKI b. Last Name CHIEF ENGINEER c. Title 5088316406
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the aformation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including ossible fines and imprisonment." The responsible official for the facility must provide the electronic signature. The signature and date are inserted elow by eDEP during the signature Step. Signed under the pains and penalties of perjury:	WILLIAM a. First Name GRUDZINSKI b. Last Name CHIEF ENGINEER c. Title 5088316406
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those dividuals immediately responsible for obtaining the formation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including possible fines and imprisonment." The responsible official for the facility must provide the electronic signature. The signature and date are inserted elow by eDEP during the signature Step.	WILLIAM a. First Name GRUDZINSKI b. Last Name CHIEF ENGINEER c. Title 5088316406 d. Phone Number
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the aformation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including ossible fines and imprisonment." The responsible official for the facility must provide the electronic signature. The signature and date are inserted elow by eDEP during the signature Step. Signed under the pains and penalties of perjury:	WILLIAM a. First Name GRUDZINSKI b. Last Name CHIEF ENGINEER c. Title 5088316406 d. Phone Number williamg@wpi.edu
certify that I have personally examined the foregoing and m familiar with the information contained in this report and all attachments and that, based on my inquiry of those adividuals immediately responsible for obtaining the aformation; I believe that the information is true, accurate, and complete. I am aware that there are signification enalties for submitting false information, including ossible fines and imprisonment." The responsible official for the facility must provide the electronic signature. The signature and date are inserted elow by eDEP during the signature Step. Signed under the pains and penalties of perjury:	WILLIAM a. First Name GRUDZINSKI b. Last Name CHIEF ENGINEER c. Title 5088316406 d. Phone Number williamg@wpi.edu

Facility Information

2018

Year of Record

1180127



2018
Year of Record
10
DEP EU#
1180127
Facility AO Identifier

EMER GEN #4 - OLYMPIAN 96A - NAT GAS- SALISBURY	
a. Facility's choice of emission unit name - edit as ne	eded
10	10
b. Facility's emission unit number / code - edit as nee	
	2000 C. DEL Ellinosion Clin (10)//
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	▼ C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
,	unit?
Control to the lighten and decomposition detect	
Emission unit installation and decommission dates:	
01/01/1995	
a.Installation Date (mm/dd/yyyy) - estimate if unknowr	b. Decommission Date (mm/dd/yyyy) - if applicable
	Complete only if the unit was shut down permanently or
	replaced since the last report.
Emission Huit Doubecoment	
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	a the drandownlist helew, for the unit heing rangeed
19 NO 165 - Select DEF 5 emissions unit number from	The dropdownist below, for the drift being replaced.
b. DEP's Emission Unit Number and facility's emission	on unit name
·	
Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE
RECIPROCATING IC ENGINE	
OLYMPIAN	
b. Manufacturer	
b. Manufacturer	
96A	1.324

GHG Form

Emission Unit

2018	
Year of Record	
10	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C © 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. Number of fuels for this unit (previous records): 1	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".
1. DEP Fuel #:	1
	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
(Enter "0" if not used in the year of record)	0.0345 MILLION CUBIC FEET 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 er listed below to manually enter emissions.	Prior year missions UNLESS you check a box to to the left of the pollutant ord" means that you are certifying that there were less than 0.000

Pollutant:	CO2	CH4	N20
Actual for previous year	2.5266 Tons	Tons	0 Tons
Actual for year of record:	2.0703 Tons	0 Tons	0 Tons

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		•		•		<u> </u>
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	2.0703 Tons		0.0010 Tons		0.0011 Tons	
Pollutant:	SF6		Refrigerents-CO2e		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		<u> </u>		▼		
Calculation Method		<u>▼</u>		▼		
Specify General Reporting Protocol EF						
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	

4	Total	CO2e	emissions
т.	1 Otal	0020	CITIOSIONS

0

a. Actual for previous year (Tons)

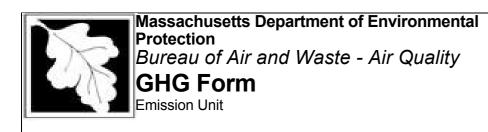
2.0724

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	2018 Year of Record
	Emission Unit	DEP EU#
4]		[>]



2018	
Year of Record	
12	
DEP EU#	
1180127	
Facility AQ Identifier	

. Facility Identifiers:	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
. Emission Unit Identifiers:	
EMER GEN #5 - SUPERIOR 50R161 - #2 OIL FULLER ROOF	
a. Facility's choice of emission unit name - edit as neede	a
12	12
b. Facility's emission unit number / code - edit as needed	C. DEP Emission Unit (EU)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	1 -
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
i. Emission only suregery	unit?
. Emission unit installation and decommission dates:	
01/01/1990	h December Data (markida nan) if anglisahla
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.
. 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 u	nit name
.Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE
RECIPROCATING IC ENGINE	
SUPERIOR	
b. Manufacturer	
50R161	.42
c. Model Number	d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018	
Year of Record	
12	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C • 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. Number of fuels for this unit (previous records): 1	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".
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
b. Fuel/Material/Waste Type:	SCC Description - filled by eDEP after error check
	DIESEL
c. Fuel/Process Description:	EMER GEN #6 - SUPERIOR 50R161 - #2 OIL - FULLER
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
listed below to manually enter emissions .	Prior year missions UNLESS you check a box to to the left of the pollutant ord" means that you are certifying that there were less than 0.000

Pollutant:	CO2	CH4	N20
Actual for previous year	0.6441 Tons	Tons	0 Tons
Actual for year of record:	0.7232 Tons	0 Tons	0 Tons

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		~]		•		<u>-</u>]
Specify General Reporting Protocol EF		▼		•		<u>-</u>
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record	0.7232		0.0007		0.0017	
(Tons)	Tons		Tons		Tons	
Pollutant:	□ SF6		Refrigerents-CO2e		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		~]		•		<u>-</u>]
Calculation Method		_				<u>-</u>
Specify General Reporting Protocol EF						
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

a. Actual for previous year (Tons)

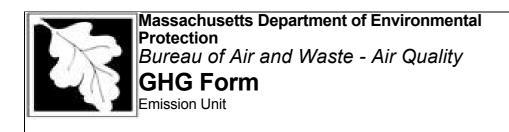
0.7256

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	2018 Year of Record
	Emission Unit	DEP EU# 1180127
4		[>]



2018
Year of Record
13
DEP EU#
1180127
Facility AO Identifier

WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
. Emission Unit Identifiers:	
GENERATOR #6-CAT #D200P4 DIESEL FULLER GROUND	
a. Facility's choice of emission unit name - edit as nee	eded
13	13
b. Facility's emission unit number / code - edit as need	ded c. DEP Emission Unit (EU)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
-	
FUEL BURNING DEVICE	▼ Pes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?
	unit:
. 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.
. Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	the dropdownlist below, for the unit being replaced.
	▼
b. DEP's Emission Unit Number and facility's emission	n unit name
.Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE
RECIPROCATING IC ENGINE	
CATERPILLAR	
b. Manufacturer	
D200P4	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	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C © 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. Number of fuels for this unit (previous records): 1	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".
1. DEP Fuel #:	1
	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
(Enter "0" if not used in the year of record)	0.2270 1000 GALLONS Amount - year of record Units .205 1000 GALLONS
3. Total emissions for this fuel only in tons per year: Calculations: The form will automatically calculate the actual er listed below to manually enter emissions.	Prior year missions UNLESS you check a box to to the left of the pollutant ord" means that you are certifying that there were less than 0.0001

Pollutant:	CO2	CH4	N20
Actual for previous year	2.3142 Tons	Tons	0 Tons
Actual for year of record:	2.5651 Tons	0.0001 Tons	0 Tons

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 Tons		0.0026 Tons		0.0060 Tons
Pollutant:	SF6		Refrigerents-CO2e		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 Tons		0 Tons		Tons

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

a. Actual for previous year (Tons)

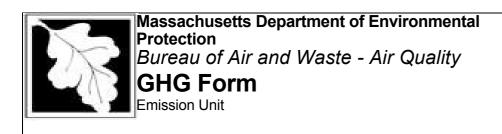
2.5737

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	2018 Year of Record
	GHG Form Emission Unit	13 DEP EU# 1180127
1		[>]



2018
Year of Record
14
DEP EU#
1180127
Facility AO Identifier

Facility Identifiers:	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
Emission Unit Identifiers:	
GENERATOR #9-CAT # SR-4 - DIESEL POWER PLANT	
a. Facility's choice of emission unit name - edit as neede	ed
14	14
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?
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.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	e dropdownlist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission u	ınit name
Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE ▼
RECIPROCATING IC ENGINE	
CATERPILLAR	
b. Manufacturer	
SR-4	4.9
OIN-4	P1.3

GHG Form

Emission Unit

2018	
Year of Record	
14	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	€ Yes C No			
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C € 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. Number of fuels for this unit (previous records): 1	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".			
1. DEP Fuel #:	1			
	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			
(Enter "0" if not used in the year of record)	0.9720 1000 GALLONS 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 er listed below to manually enter emissions.				

Pollutant:	CO2	CH4	N20
Actual for previous year	10.9836 Tons	Tons	Tons
Actual for year of record:	10.9836 Tons	0.0004 Tons	0.0001 Tons

Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018	
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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 Tons		0.0111 Tons		0.0257 Tons
Pollutant:	□ SF6		Refrigerents-CO2e		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		<u>•</u>		•	
Specify General Reporting Protocol EF					
CO2e for previous year	Tons		Tons		Tons
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons

4.	l otal	CO2e	emissions

0

a. Actual for previous year (Tons)

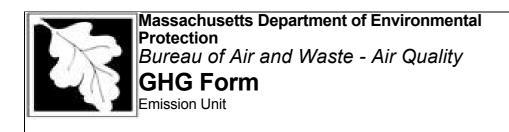
11.0204

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	2018 Year of Record
	Emission Unit	DEP EU# 1180127
4		[·



2018
Year of Record
15
DEP EU#
1180127
Facility AQ Identifier

MODOFOTED DOLVETCO INDOMERS OF	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number c	c. Facility AQ Identifier
Emission Unit Identifiers:	
NEW BOILER #1-VICTORY ENERGY - NAT GAS / #2 OIL	
a. Facility's choice of emission unit name - edit as needed	d
15	15
b. Facility's emission unit number / code - edit as needed	
b. I defintly a emission unit number / code - edit as needed	C. DEL ETHISSION OTHER (E-O)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
	unit?
Emission unit installation and decommission dates:	
14/04/0005	7
11/01/2005	h Decembingion Date (mm/dd/\(mm/dd/\(\text{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\\dext{mm/dd/\dext{mm/dd/\\dext{mm/dd/\dext
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.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
GNs GVas Calast DEDia amissions unit sumbos from the	duandar milit halar. Farkha rinik haina yanlarad
No C 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 u	nit name
Equipment	
a. Equipment Type	
EPA Unit Type Code	BOILER
BOILER	
BOILER	
VICTORY ENERGY	
VICTORY ENERGY b. Manufacturer	27.55

GHG Form

Emission Unit

2018	
Year of Record	
15	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?				
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C G 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. Number of fuels for this unit (previous records): 2	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".			
1. DEP Fuel #:	1			
	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			
(Enter "0" if not used in the year of record)	26.9232 MILLION CUBIC FEET Amount - year of record Units 25.8558 MILLION CUBIC FEET			
3. Total emissions for this fuel only in tons per year: Calculations: The form will automatically calculate the actual ellisted below to manually enter emissions.	Prior year missions UNLESS you check a box to to the left of the pollutant ord" means that you are certifying that there were less than 0.000			

Pollutant:	CO2	CH4	N20
Actual for previous year	1551.3533	0.0294	0.0029
	Tons	Tons	Tons
Actual for year of record:	1615.3920	0.0306	0.0030
	Tons	Tons	Tons

Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018	
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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	1615.3920	0.7642	0.8844
(Tons)	Tons	Tons	Tons
Pollutant:	SF6	Refrigerents-CO2e	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	0	0	0

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	2018 Year of Record
	GHG Form	15
	Emission Unit	DEP EU#
		1180127
1		[>]



GHG Form

Emission Unit

2018	
Year of Record	
15	
DEP EU#	
1180127	
Facility AQ Identifier	

B.Fuels and En	nissions		
Is GHG emissions reporting requirematerial/finished product?	ired for this fuel,waste or raw	⊙ Yes	
Is this fuel, waste, or raw materi input,output or fuel?	al/finished product an	C C G input output Fuel	
Add a NEW fuel (New chamber if you need to add a fuel that you did no will add a blank Sect. B form to your for this unit" below is greater than 1, checking this box. Number of fuels for this unit	ot report on previously (eDEP package). If "Number of fuels review the other fuels before	this unit permanently. You even if amount is "0" – the next report cycle. If "Numb	the box if you stopped using this fuel in must still report for this year of record fuel will be removed from the unit in the per of fuels for this unit" is 1, do not delete also checked "Add a New fuel".
1. DEP Fuel #:		2	
a. Source Classification Code (S		SCC does not pass the	rs - Commercial/Institutional - Distillate
b. Fuel/Material/Waste Type:		SCC Description - filled b	by eDEP after error check
c. Fuel/Process Description:		BOILER#1 VICTORY ENER(GY#2 FUEL OIL
(Enter "0" if not used in the year of record)		0.0000 Amount - year of record 0 1000 GALLOI	1000 GALLONS Units
listed below to manually enter er	ly in tons per year: natically calculate the actual er missions . issions "Actual for year of reco		heck a box to to the left of the pollutan
Pollutant:	CO2	CH4	N20
Actual for previous year	Tons	[0 Tons	[0 Tons
Actual for year of record:	0 Tons	0 Tops	0 Tons

0.903895

0.11

22509.196969

Emission Factor

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		V		•		<u> </u>
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	
Pollutant:	□ SF6		Refrigerents-CO2e		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		_		•		<u> </u>
Calculation Method		▼		▼		
Specify General Reporting Protocol EF						
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	
. Total CO2e emissions						
0						
a. Actual for previous year (To	ns)					
0						
b. Actual for year of record (To	ns)					[] → [
• 1.						

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	2018 Year of Record 15 DEP EU#	
GHG Form		
Emission Unit	1180127	



Total Emissions

2018	
Year of Record	
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DEP EU#	
1180127	
Facility AQ identifier	

D. Total Emissions (cont.)

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

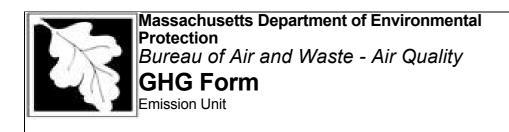
Calculations: The form calculates this unit's total actual CO2e for each pollutant (gas) and total CO2e emissions, from the emissions you have provided in Section B. Return to Section B, if you need to correct those numbers.

Pollutant:	CO2	CH4	N2O	SF6	Refrigerents-CO2e
Actual for	1551.3533	0.0294	0.0029		
revious ear	Tons	Tons	Tons	Tons	Tons
Actual for ear of	1615.3920	0.0306	0.0030	0	0
ecord:	Tons	Tons	Tons	Tons	Tons
CO2e for previous					
	Tons	Tons	Tons	Tons	Tons
CO2e for					
ear of	1615.3920	0.7642	0.8844	0	0
record Tons)	Tons	Tons	Tons	Tons	Tons

2	Total CO2e emissions	
	0	
	A Actual for provious yes	or/Topo\

1617.0406

a. Actual for previous year(Tons) b. Actual for year of record (Tons)



2018	1
Year of Record	
16	1
DEP EU#	
1180127	1
Facility AQ Identifier	

WORCESTER POLYTECHNICAL INSTITUTE					
a. Facility Name					
132563	1180127				
b. DEP Account Number c. Facility AQ Identifier					
Emission Unit Identifiers:					
NEW BOILER #2-VICTORY ENERGY - NAT GAS					
a. Facility's choice of emission unit name - edit as neede	d				
16	16				
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#				
	1				
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units				
FUEL BURNING DEVICE	Yes C No				
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?				
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.				
Emission Unit Replacement	replaced since the last report.				
a. Is this unit, replacing another emission unit?					
	dropdownlist below, for the unit being replaced.				
b. DEP's Emission Unit Number and facility's emission u					
Equipment					
a. Equipment Type					
EPA Unit Type Code	BOILER				
BOILER					
VICTORY ENERGY					
b. Manufacturer					
313-5M-2	15.32				
c. Model Number	d. Max Input Rating MMBtu/hr (must be greater than 0)				

GHG Form

Emission Unit

2018	
Year of Record	
16	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?			
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C G 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. Number of fuels for this unit (previous records): 1	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".		
1. DEP Fuel #:	1		
	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		
(Enter "0" if not used in the year of record)	28.7871 MILLION CUBIC FEET Amount - year of record Units 29.7958 MILLION CUBIC FEET		
3. Total emissions for this fuel only in tons per year: Calculations: The form will automatically calculate the actual ellisted below to manually enter emissions.	Prior year missions UNLESS you check a box to to the left of the pollutant ord" means that you are certifying that there were less than 0.000		

Pollutant:	CO2	CH4	N20
Actual for previous year	1787.75	0.0338	0.0033
	Tons	Tons	Tons
Actual for year of record:	1727.2260	0.0327	0.0032
	Tons	Tons	Tons

Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018	
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16	
DEP EU#	
1180127	

Emission Factor	120000		2.270761		0.220462	
in pounds per unit	MILLION CUBIC FEET		MILLION CUBIC FEET		MILLION CUBIC FEET	<u>-</u>]
Calculation Method		_		_		~]
Specify General Reporting Protocol EF		-		_		_
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	1727.2260 Tons		0.8171 Tons		0.9456 Tons	
Pollutant:	SF6		Refrigerents-CO2e		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 Tons		0 Tons		0 Tons	

1	Total	CO26	emissions
4.	TOTAL	COZE	emissions

0

a. Actual for previous year (Tons)

1728.9887

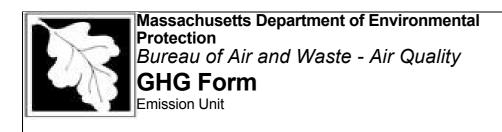
b. Actual for year of record (Tons)

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.

Emission Unit DEP EU# 1180127	Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality GHG Form	2018 Year of Record
		DEP EU# 1180127



2018
Year of Record
17
DEP EU#
1180127
Facility AO Identifier

. Facility Identifiers:	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
	c. Facility AQ Identifier
E. Emission Unit Identifiers:	o. I domey reg identified
NEW BOILER #3-VICTORY ENERGY - NAT GAS / #2 OIL	
a. Facility's choice of emission unit name - edit as neede	:d
17	17
b. Facility's emission unit number / code - edit as needed	d c. DEP Emission Unit (EU)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	✓ G Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?
Emission unit installation and decommission dates:	
T	
11/01/2005	h Decemberation Date (mm/dd/www) if applicable
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.
. Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	e dropdownlist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission u	unit name
Equipment	
Equipment Type	
a. Equipment Type EPA Unit Type Code	POIL ED
El A Offic Type Code	BOILER
BOILER	
VICTORY ENERGY	
b. Manufacturer	
313-14M-3	27.55
	d. Max Input Rating MMBtu/hr (must be greater than 0)
o. moder rumber	a. max input rating initibitatin (must be greater than o)

GHG Form

Emission Unit

2018	
Year of Record	
17	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel, waste or raw material/finished product?	Yes C No
Is this fuel, waste, or raw material/finished product an input,output or fuel?	C C © 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. Number of fuels for this unit (previous records): 2	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".
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
Total actual amount used for year of record: (Enter "0" if not used in the year of record)	25.8877 MILLION CUBIC FEET Amount - year of record Units 28.8108 MILLION CUBIC FEET
listed below to manually enter emissions .	Prior year emissions UNLESS you check a box to to the left of the pollutant ord" means that you are certifying that there were less than 0.000

Pollutant:	C02	CH4	N2O
Actual for previous year	1728.6509	0.0327	0.0032
	Tons	Tons	Tons
Actual for year of record:	1553.2620	0.0294	0.0029
	Tons	Tons	Tons

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		T		_		<u>-</u>
Specify General Reporting Protocol EF		_		•		
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	1553.2620 Tons		0.7348 Tons		0.8504 Tons	
Pollutant:	SF6		Refrigerents-CO2e		Other Specify Other Pollutant	
Actual for previous year	Tons		Tons		Tons	
Actual for year of record:	Tons		Tons		Tons	
Actual for year of record: Emission Factor	Tons					
	Tons			•		
Emission Factor	Tons	▼		•		
Emission Factor in pounds per unit	Tons					
Emission Factor in pounds per unit Calculation Method Specify General Reporting	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	2018 Year of Record
	GHG Form	17
	Emission Unit	DEP EU#
		1180127
1		
4		



Emission Unit

0

Tons

22509.196969

Actual for year of record:

Emission Factor

2018
Year of Record
17
DEP EU#
1180127
Facility AQ Identifier

Is GHG emissions reporting requ material/finished product?	ired for this fuel,waste or rav	✓ Yes C No	
Is this fuel, waste, or raw material input, output or fuel?	al/finished product an	C C © input output Fuel	
Add a NEW fuel (New chamber if you need to add a fuel that you did no will add a blank Sect. B form to your pfor this unit" below is greater than 1, checking this box. Number of fuels for this un	t report on previously (eDEP backage). If "Number of fuels review the other fuels before	this unit permanently. You neven if amount is "0" – the funext report cycle. If "Number	he box if you stopped using this fuel in must still report for this year of record uel will be removed from the unit in the er of fuels for this unit" is 1, do not delete so checked "Add a New fuel".
1. DEP Fuel #:		2	
a. Source Classification Code (So	CC):	SCC does not pass the e	- Commercial/Institutional - Distillate
b. Fuel/Material/Waste Type:		FUEL NO.2	•
			<u></u>
c. Fuel/Process Description:		BOILER#3 VICTORY ENERG	Y #2 FUEL OIL
c. Fuel/Process Description: 2. Total actual amount used for ye (Enter "0" if not used in the year o		0.0000 Amount - year of record 0 1000 GALLON	1000 GALLONS Units
2. Total actual amount used for ye (Enter "0" if not used in the year of a content of the grant	of record) y in tons per year: latically calculate the actual enissions. ssions "Actual for year of rec	0.0000 Amount - year of record 0 1000 GALLON Prior year emissions UNLESS you che	1000 GALLONS Units
2. Total actual amount used for ye (Enter "0" if not used in the year of	of record) y in tons per year: latically calculate the actual enissions. ssions "Actual for year of rec	0.0000 Amount - year of record 0 1000 GALLON Prior year emissions UNLESS you che	1000 GALLONS Units IS eck a box to to the left of the pollutant

0

Tons

0.903895

0

Tons

0.11

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		•		•		<u>-</u>]
Specify General Reporting Protocol EF	Г	•		•		<u> </u>
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	
Pollutant:	☐ SF6		Refrigerents-CO2e		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		•				<u> </u>
Calculation Method		•		•		<u> </u>
Specify General Reporting Protocol EF						
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	
. Total CO2e emissions						
0						
a. Actual for previous year (To	ns)	4				
0						
b. Actual for year of record (To	ns)					n.

C. Notes

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

Massachusetts Department of Environmental Protection	2018
Bureau of Air and Waste - Air Quality	Year of Record
GHG Form	17
Emission Unit	DEP EU#
	1180127



2018
Year of Record
17
DEP EU#
1180127

Facility AQ identifier

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.

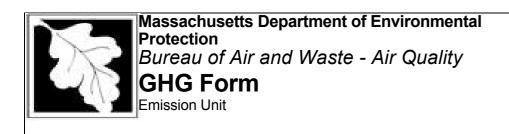
Pollutant:	CO2	CH4	N2O	SF6	Refrigerents-CO2e
Actual for previous	1728.6509	0.0327	0.0032		
ear	Tons	Tons	Tons	Tons	Tons
Actual for ear of	1553.2620	0.0294	0.0029	0	0
record:	Tons	Tons	Tons	Tons	Tons
CO2e for previous					
	Tons	Tons	Tons	Tons	Tons
CO2e for					
ear of	1553.2620	0.7348	0.8504	0	0
record Tons)	Tons	Tons	Tons	Tons	Tons

2	Total CO2e emissions	
	0	
	a Astual for provious va	/T\

1554.8472

a. Actual for previous year(Tons)

b. Actual for year of record (Tons)



2018	1
Year of Record	
20	1
DEP EU#	
1180127	
Facility AO Identifier	

. Facility Identifiers:			
WORCESTER POLYTECHNICAL INSTITUTE			
a. Facility Name			
132563	180127		
b. DEP Account Number c.	Facility AQ Identifier		
. Emission Unit Identifiers:			
OFF-CAMPUS RESIDENCES < 50 MMBTU - NAT. GAS			
a. Facility's choice of emission unit name - edit as needed			
20	20		
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#		
	67		
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units		
FUEL BURNING DEVICE			
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?		
. 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.		
. Emission Unit Replacement	replaced since the last report.		
a. Is this unit, replacing another emission unit?			
	ropdownlist below, for the unit being replaced.		
	-		
b. DEP's Emission Unit Number and facility's emission un	it name		
Equipment			
a. Equipment Type			
EPA Unit Type Code	BOILER ▼		
DOILED.			
BOILER			
VARIOUS			
b. Manufacturer			
VARIOUS 1:	7.5388		
	Max Input Rating MMBtu/hr (must be greater than 0)		

GHG Form

Emission Unit

2018	
Year of Record	
20	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel, waste or raw			
material/finished product?			
Is this fuel, waste, or raw material/finished product an	0 0 6		
input,output or fuel?	input output Fuel		
	mpar super too		
Add a NEW fuel (New chamber if incinerator): Check the box if	Delete this fuel: Check the box if you stopped using this fuel in		
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You must still report for this year of record		
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" – the fuel will be removed from the unit in the		
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number of fuels for this unit" is 1, do not delete		
checking this box.	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):	40200002		
	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 CAR		
	NATURAL GAS		
c. Fuel/Process Description:	VARIOUS EQUIP. NAT GAS		
Total actual amount used for year of record:	19.7322 MILLION CUBIC FEET ▼		
(Enter "O" if not used in the year of record)			
	Amount - year of record Units 34.4265 MILLION CUBIC FEET		
	Prior year		
3. Total emissions for this fuel only in tons per year:	missions LINILESS you shock a boy to to the left of the pollutant		
Calculations: The form will automatically calculate the actual er listed below to manually enter emissions.	missions onless you oneck a box to to the left of the pollutant		
	ord" means that you are certifying that there were less than 0.0001		
(or zero) tons of emissions each.	nd mount that you are certifying that there were less than 0.000 i		

Pollutant:	CO2	CH4	N20
Actual for previous year	2065.9302	0.0391	0.0038
	Tons	Tons	Tons
Actual for year of record:	1183.9320	0.0224	0.0022
	Tons	Tons	Tons

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	<u> </u>		
Specify General Reporting Protocol EF			
CO2e for previous year	Tons	Tons	Tons
CO2e for year of record (Tons)	1183.9320 Tons	0.5601 Tons	0.6482 Tons
Pollutant:	□ SF6	Refrigerents-CO2e	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	0	0	0

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

a. Actual for previous year (Tons)

1185.1403

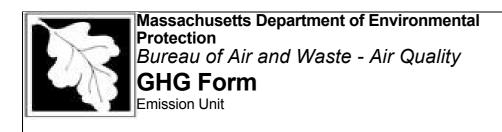
b. Actual for year of record (Tons)

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	2018 Year of Record 20
	Emission Unit	DEP EU# 1180127
4		[>]



2018
Year of Record
21
DEP EU#
1180127
Facility AO Identifier

WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	180127
b. DEP Account Number c.	Facility AQ Identifier
Emission Unit Identifiers:	
ON-CAMPUS MISCELLANEOUS SOURCES 1ST SET - NAT. GAS	
a. Facility's choice of emission unit name - edit as needed	
21	21
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#
,	
d ODIC ID # for large electrical utilities only	21
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
	unit?
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.
Emission Unit Replacement	·
a. Is this unit, replacing another emission unit?	
€ No C Yes - Select DEP's emissions unit number from the di	ropdownlist below, for the unit being replaced.
 b. DEP's Emission Unit Number and facility's emission unit 	it name
Equipment	
a. Equipment Type	
EPA Unit Type Code	BOILER ▼
BOILER	
VARIOUS	
b. Manufacturer	
VARIOUS 9.	9422
c. Model Number d.	Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018	
Year of Record	
21	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel, waste or raw material/finished product?	© Yes C No
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C G 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. Number of fuels for this unit (previous records): 1	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".
1. DEP Fuel #:	1
	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
(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 er listed below to manually enter emissions.	

Pollutant:	CO2	CH4	N20
Actual for previous year	457.8424	0.0087	0.0008
	Tons	Tons	Tons
Actual for year of record:	269.7660	0.0051	0.0005
	Tons	Tons	Tons

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		-		<u>_</u>	
CO2e for previous year	Tons		Tons		Tons
CO2e for year of record (Tons)	269.7660 Tons		0.1276 Tons		0.1477 Tons
Pollutant:	SF6		Refrigerents-CO2e		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 Tons		0 Tons		0 Tons

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

a. Actual for previous year (Tons)

270.0413

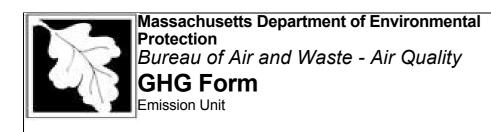
b. Actual for year of record (Tons)

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	2018 Year of Record
	GHG Form	21
	Emission Unit	DEP EU#
		1180127
1].		[>]



2018	
Year of Record	
22	
DEP EU#	
1180127	
Facility AQ Identifier	

. Facility Identifiers:		
WORCESTER POLYTECHNICAL INSTITUTE		
a. Facility Name		
132563	180127	
. DEP Account Number c. Facility AQ Identifier		
. Emission Unit Identifiers:		
ON-CAMPUS MISCELLANEOUS SOURCES 2ND SET - NAT. GAS		
a. Facility's choice of emission unit name - edit as needed		
22	22	
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#	
-		
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units	
a. Onto the # - for large electrical utilities offly	e. Combined Office – effect fulfiber of individual dfiles	
FUEL BURNING DEVICE	G Yes C No	
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?	
. Emission unit installation and decommission dates:		
04/04/4090		
a.Installation Date (mm/dd/yyyy) - estimate if unknown	b. Decommission Date (mm/dd/yyyy) - if applicable	
a.installation bate (illinadayyyyy) - estimate ii ulikilowii		
	Complete only if the unit was shut down permanently or replaced since the last report.	
. Emission Unit Replacement		
a. Is this unit, replacing another emission unit?		
	dropdownlist below, for the unit being replaced.	
b. DEP's Emission Unit Number and facility's emission un	nit name	
.Equipment		
a. Equipment Type EPA Unit Type Code	POILED.	
Li A Offic Type Gode	BOILER	
BOILER		
VARIOUS		
b. Manufacturer		
VARIOUS 9	0.041	
c. Model Number d	. Max Input Rating MMBtu/hr (must be greater than 0)	

GHG Form

Emission Unit

2018	
Year of Record	
22	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	€ Yes C 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	Delete this fuel: Check the box if you stopped using this fuel in		
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You must still report for this year of record		
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" – the fuel will be removed from the unit in the		
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number of fuels for this unit" is 1, do not delete		
checking this box.	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		
Total actual amount used for year of record:	82.9934 MILLION CUBIC FEET ▼		
(Enter "0" if not used in the year of record)			
(= 1.0.1	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 e	missions UNLESS you check a box to to the left of the polluta		
listed below to manually enter emissions.			
Important: Leaving blanks for emissions "Actual for year of reco	ord" means that you are certifying that there were less than 0		
or zero) tons of emissions each.			

Pollutant:	CO2	CH4	N20
Actual for previous year	5349.5477	0.1012	0.0098
	Tons	Tons	Tons
Actual for year of record:	4979.6040	0.0942	0.0091
	Tons	Tons	Tons

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		_		T	
Specify General Reporting Protocol EF		-		✓	
CO2e for previous year	Tons		Tons		Tons
CO2e for year of record (Tons)	4979.6040 Tons		2.3557 Tons		2.7262 Tons
Pollutant:	SF6		Refrigerents-CO2e		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 Tons		0 Tons		0 Tons

1	Total	CO26	emissions
4.	TOTAL	COZE	emissions

0

a. Actual for previous year (Tons)

4984.6859

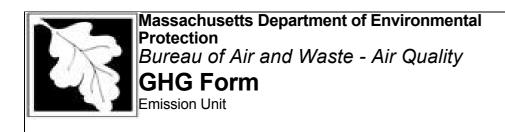
b. Actual for year of record (Tons)

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	2018 Year of Record
	GHG Form	22
	Emission Unit	DEP EU#
		1180127
_1		
ı] <u>.</u>		[] >]



2018
Year of Record
23
DEP EU#
1180127
Facility AO Identifier

WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
Emission Unit Identifiers:	
ON-CAMPUS MISCELLANEOUS SOURCES 3RD SET - NAT. GAS	
a. Facility's choice of emission unit name - edit as neede	-d
23	23
b. Facility's emission unit number / code - edit as needed	
b. I domity a difficulty full both a difficulty foods and the floods of the foods of the foods of the floods of th	
d ODIC ID # familiares also desired of the control	
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	☑
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?
Emission unit installation and decommission dates:	
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.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	dropdownlist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission u	ınit name
Equipment	
a. Equipment Type	
EPA Unit Type Code	BOILER ▼
	DOILE (
BOILER	
VARIOUS	
b. Manufacturer	
VARIOUS	9.416
c. Model Number	d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018	
Year of Record	
23	
DEP EU#	
1180127	

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?	C C G 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. Number of fuels for this unit (previous records): 1	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".	
1. DEP Fuel #:	1	
	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	
(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 er listed below to manually enter emissions.		

Pollutant:	CO2	CH4	N20
Actual for previous year	639.5982	0.1210	0.0012
	Tons	Tons	Tons
Actual for year of record:	327.9840	0.0062	0.0006
	Tons	Tons	Tons

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	<u> </u>		•
CO2e for previous year	Tons	Tons	Tons
CO2e for year of record (Tons)	327.9840 Tons	0.1552 Tons	0.1796 Tons
Pollutant:	□ SF6	Refrigerents-CO2e	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	0	0	0

4	Total	CO2e	emissions
т.	1 Otal	0020	CITIOSIONS

0

a. Actual for previous year (Tons)

328.3188

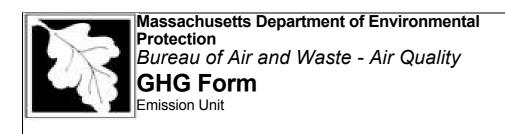
b. Actual for year of record (Tons)

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	2018 Year of Record 23
	Emission Unit	DEP EU# 1180127
1		[+]



2018
Year of Record
24
DEP EU#
1180127
Facility AO Identifier

Facility Identifiers:			
WORCESTER POLYTECHNICAL INSTITUTE			
a. Facility Name			
132563	1180127		
b. DEP Account Number	c. Facility AQ Identifier		
. Emission Unit Identifiers:			
OFF-CAMPUS RESIDENCES < 10 MMBTU - #2 OIL			
a. Facility's choice of emission unit name - edit as neede	ed .		
24	24		
b. Facility's emission unit number / code - edit as needed	d c. DEP Emission Unit (EU)#		
	11		
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units		
-			
	▼ C No		
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?		
Francisco visit installation and decomposition dates.			
. 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.		
. Emission Unit Replacement			
a. Is this unit, replacing another emission unit?			
No C Yes - Select DEP's emissions unit number from the	e drondownlist below for the unit being replaced		
The Street School Self-of Chilosophia unit Humber from the	- diopadwinist below, for the unit being replaced.		
b. DEP's Emission Unit Number and facility's emission u	unit name		
Emiliana			
Equipment			
a. Equipment Type EPA Unit Type Code	POILED1		
Li // Giii: Type Gode	BOILER		
BOILER			
VARIOUS			
b. Manufacturer			
VARIOUS	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	

Is GHG emissions reporting required for this fuel,waste or raw	Yes CNo			
material/finished product?	2.00			
Is this fuel, waste, or raw material/finished product an	0 0 0			
input,output or fuel ?	input output Fuel			
Add a NEW fuel (New chamber if incinerator): Check the box if	Delete this fuel: Check the box if you stopped using this fuel in			
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You must still report for this year of record			
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" – the fuel will be removed from the unit in the			
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number of fuels for this unit" is 1, do not delete			
checking this box.	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			
	<u></u>			
c. Fuel/Process Description:	VARIOUS EQUIP. #2 FUEL OIL			
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:	•			
	missions 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 reco	ord" means that you are certifying that there were less than 0.00			
(or zero) tons of emissions each.	· · · · · · · · · · · · · · · · · · ·			

Pollutant:	CO2	□ CH4	N20
Actual for previous year	Tons	Tons	Tons
Actual for year of record:	0 Tons	0 Tons	0 Tons

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				<u>-</u>	
CO2e for previous year	Tons		Tons		Tons
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons
Pollutant:	□ SF6		Refrigerents-CO2e		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 Tons		0 Tons		0 Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

Ю

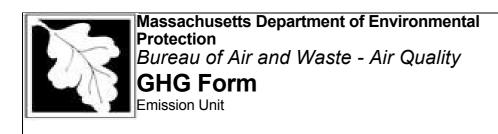
b. Actual for year of record (Tons)

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	2018 Year of Record
	Emission Unit	DEP EU# 1180127
1		[[+]



2018
Year of Record
26
DEP EU#
1180127
Eacility AO Identifier

WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563 1180127	
b. DEP Account Number c.	: Facility AQ Identifier
Emission Unit Identifiers:	
BOILERS (2) GATEWAY - LATTNER - NAT GAS	
a. Facility's choice of emission unit name - edit as needed	t
27	26
b. Facility's emission unit number / code - edit as needed	
2. Tabling Commodition and Hamber 7 code Can do Hooded	
d ODIO ID # for large all addition within	2 Cambined Unite contain growth as of individual unite
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	☑
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
	unit?
Emission unit installation and decommission dates:	
04/04/2007	7
01/01/2007 a.Installation Date (mm/dd/yyyy) - estimate if unknown	b. Decommission Date (mm/dd/yyyy) - if applicable
3. Installation Date (Illinad/yyyy) - estimate ii unknown	
	Complete only if the unit was shut down permanently or
	replaced since the last report.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	drandownlist helow for the unit heing replaced
Tes - Select DEL 3 emissions unit number from the t	aropuowinist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission ur	nit name
Equipment	
a. Equipment Type	
EPA Unit Type Code	BOILER
BOILER	
	<u> </u>
LATTNER	
b. Manufacturer	
	6.7
WLF 6	3 /

GHG Form

Emission Unit

2018	
Year of Record	
26	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?			
Is this fuel, waste, or raw material/finished product an			
input,output or fuel?	input output Fuel		
	input output radi		
Add a NEW fuel (New chamber if incinerator): Check the box if	Delete this fuel: Check the box if you stopped using this fuel in		
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You must still report for this year of record		
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" - the fuel will be removed from the unit in the		
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number of fuels for this unit" is 1, do not delete		
checking this box.	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		
	<u>_</u>		
c. Fuel/Process Description:	BOILER (2) GATEWAY - NAT GAS		
Total actual amount used for year of record:	10070		
/ Enter "O" if not used in the year of record)	1.9678 MILLION CUBIC FEET		
(Lines of inflot used in the year of record)	Amount - year of record Units		
	31.4005 MILLION CUBIC FEET		
I	Prior year		
3. Total emissions for this fuel only in tons per year:			
Calculations: The form will automatically calculate the actual en	nissions UNLESS you check a box to to the left of the pollutant		
listed below to manually enter emissions .			
	rd" means that you are certifying that there were less than 0.0001		
(or zero) tons of emissions each.			

Pollutant:	CO2	CH4	N20
Actual for previous year	1884.3401	0.0357	0.0035
	Tons	Tons	Tons
Actual for year of record:	118.0680	0.0022	0.0002
	Tons	Tons	Tons

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 Tons		0.0559 Tons		0.0646 Tons
Pollutant:	SF6		Refrigerents-CO2e		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		<u>_</u>		•	
Calculation Method					
Specify General Reporting Protocol EF					
CO2e for previous year	Tons		Tons		Tons
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

a. Actual for previous year (Tons)

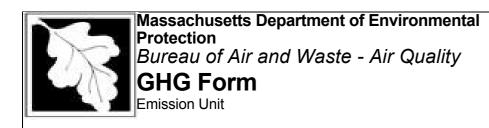
118.1885

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	2018 Year of Record 26
	Emission Unit	DEP EU# 1180127
4		



2018	1
Year of Record	
27	
DEP EU#	
1180127	
Facility AO Identifier	

Facility Identifiers:		
WORCESTER POLYTECHNICAL INSTITUTE		
a. Facility Name		
132563 1180127		
b. DEP Account Number c. Facility AQ Identifier		
Emission Unit Identifiers:		
BOILERS (2) GATEWAY - CLEAVER BROOKS - NAT GAS		
a. Facility's choice of emission unit name - edit as neede	d	
26	27	
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#	
	2	
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units	
FUEL BURNING DEVICE	C Yes C No	
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?	
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	
a.iiistaliation Date (iiiiii/dd/yyyy) - estimate ii diikiiowii		
	Complete only if the unit was shut down permanently or replaced since the last report.	
. Emission Unit Replacement		
a. Is this unit, replacing another emission unit?		
No C 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 u	ınıt name	
Equipment		
a. Equipment Type		
EPA Unit Type Code	BOILER	
BOILER		
CLEAVER BROOKS		
b. Manufacturer		
FLX 700	12	
	d. Max Input Rating MMBtu/hr (must be greater than 0)	

GHG Form

Emission Unit

2018	
Year of Record	
27	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	© Yes C No	
Is this fuel, waste, or raw material/finished product an input,output or fuel?	C C G 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. Number of fuels for this unit (previous records): 1	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".	
1. DEP Fuel #:	1	
	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	
(Enter "0" if not used in the year of record)	15.9272 MILLION CUBIC FEET 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 er listed below to manually enter emissions.		

Pollutant:	CO2	CH4	N20
Actual for previous year	278.2645	0.0053	0.0005
	Tons	Tons	Tons
Actual for year of record:	955.6320	0.0181	0.0018
	Tons	Tons	Tons

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 Tons	0.4521 Tons	0.5232 Tons
Pollutant:	☐ SF6	Refrigerents-CO2e	Other Specify Other Pollutant
Actual for previous year	Tons	Tons	Tons
Actual for previous year Actual for year of record:	Tons	Tons	Tons
Actual for year of record:			
Actual for year of record: Emission Factor	Tons	Tons	Tons
Actual for year of record: Emission Factor in pounds per unit	Tons	Tons	Tons
Actual for year of record: Emission Factor in pounds per unit Calculation Method Specify General Reporting	Tons	Tons	Tons

1	Total	CO26	emissions
4.	TOTAL	COZE	emissions

0

a. Actual for previous year (Tons)

956.6073

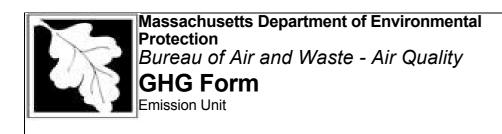
b. Actual for year of record (Tons)

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	2018 Year of Record
	GHG Form	27
	Emission Unit	DEP EU#
		1180127
([>]



2018
Year of Record
28
DEP EU#
1180127
Facility AO Identifier

Facility Identifiers:	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
Emission Unit Identifiers:	
GENERATOR #7 - KOHLER 500 GATEWAY	
a. Facility's choice of emission unit name - edit as need	ded
28	28
b. Facility's emission unit number / code - edit as need	
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	▼
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?
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.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	he dropdownlist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission	ı unit name
Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE ▼
	THE STATE OF THE S
RECIPROCATING IC ENGINE	
KOHLER	
b. Manufacturer	
500REOZVB	5
c. Model Number	d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018	
Year of Record	
28	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	
Is this fuel, waste, or raw material/finished product an input,output or fuel?	C C ⊙ 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. Number of fuels for this unit (previous records): 1	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".
1. DEP Fuel #:	1
	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
(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 enlisted below to manually enter emissions.	

Pollutant:	CO2	CH4	N20
Actual for previous year	15.4277 Tons	Tons	0 Tons
Actual for year of record:	15.0516 Tons	0.0006 Tons	0.0001 Tons

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	-1
Calculation Method		✓		-		<u>-</u>]
Specify General Reporting Protocol EF		▼		_		-]
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	15.0516 Tons		0.0152 Tons		0.0353 Tons	
Pollutant:	□ SF6		Refrigerents-CO2e		Other Specify Other Pollutant	
Actual for previous year	Tons		Tons		Tons	
Actual for year of record:	Tons		Tons		Tons	
Emission Factor			Г			
in pounds per unit		▼		•		<u>-</u>]
Calculation Method		<u>▼</u> 1		•		•]
Specify General Reporting Protocol EF						
CO2e for previous year	Tons		Tons		Tons	

4.	Total CO2e emissions
	0

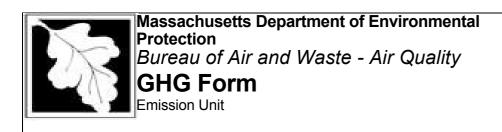
a. Actual for previous year (Tons)

15.1021

b. Actual for year of record (Tons)

C. Notes

	Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality GHG Form	2018 Year of Record 28
	Emission Unit	DEP EU# 1180127
4		[•]



2018
Year of Record
29
DEP EU#
1180127
Facility AO Identifier

NACOCCUED DOLLATEOUNION IN COURT ITE	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	180127
b. DEP Account Number c.	. Facility AQ Identifier
Emission Unit Identifiers:	
GENERATOR #10 - KOHLER 150 EAST HALL	
a. Facility's choice of emission unit name - edit as needed	i
29	29
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#
	0. 2
d ODICID# for large allegation williting only	Combined Heite autonomobou of individual units
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	☐ Yes ☐ No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
	unit?
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
3. Installation Date (Illinadiyyyy) estimate ii unikiowii	
	Complete only if the unit was shut down permanently or
	replaced since the last report.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
No Yes - Select DEP's emissions unit number from the c	drandownlist below for the unit being replaced
19 NO 10 165 - Select DEF 5 emissions unit number from the C	propagowniist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission un	nit name
Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE
RECIPROCATING IC ENGINE	\neg
KOLILED.	
KOHLER	
b. Manufacturer	
b. Manufacturer	1.62

GHG Form

Emission Unit

2018	
Year of Record	
29	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel, waste or raw	CV CV
material/finished product?	
Is this fuel, waste, or raw material/finished product an input,output or fuel?	C C • 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. Number of fuels for this unit (previous records): 1	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".
1. DEP Fuel #:	1
	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
(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 enlisted below to manually enter emissions.	•

Pollutant:	CO2	CH4	N2O
Actual for previous year	4.0273 Tons	Tons	Tons
Actual for year of record:	3.7968 Tons	0.0002 Tons	0 Tons

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	▼1	1000 GALLONS	•	1000 GALLONS	
Calculation Method		_		_		-
Specify General Reporting Protocol EF		•		•		<u> </u>
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	3.7968 Tons		0.0038 Tons		0.0089 Tons	
Pollutant:	SF6		Refrigerents-CO2e		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				_		<u></u>
Calculation Method				•		<u>_</u>
Specify General Reporting Protocol EF						
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	

4	Total	CO2e	emissions
т.	1 Otal	0020	CITIOSIONS

0

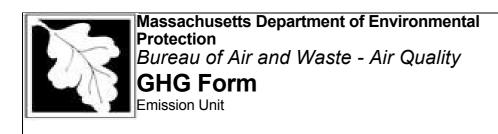
a. Actual for previous year (Tons)

3.8095

b. Actual for year of record (Tons)

C. Notes

	Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality	2018 Year of Record
	GHG Form	29
	Emission Unit	DEP EU#
		1180127
1		
4)



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

1. Facility Identifiers:	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
b. DEL Account Number	C. I domey Active miner
2. Emission Unit Identifiers:	
EMER GEN #11 GODDARD HALL OLYMPIAM G60F3 NAT GAS	S
a. Facility's choice of emission unit name - edit as nee	eded
laa	
30	30
b. Facility's emission unit number / code - edit as need	ded c. DEP Emission Unit (EU)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	▼ G Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
	unit?
3. Emission unit installation and decommission dates:	
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.
A. Envisaine Unit Dealers and	
4. Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
• No C Yes - Select DEP's emissions unit number from	the drandouglist helps, for the unit being replaced
19 No 10 Tes - Select DEP's emissions unit number from	the dropdownlist below, for the drift being replaced.
	▼
b. DEP's Emission Unit Number and facility's emission	n unit name
,	
5.Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE ▼1
·	
RECIPROCATING IC ENGINE	
OLYMPIAN	1
b. Manufacturer	
D. IVIATIUIACIUI CI	
G60F3	.678
c. Model Number	
C. MOUEL NUMBER	d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018	
Year of Record	
30	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	© Yes C No
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C € input output Fuel
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	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".
1. DEP Fuel #:	1
	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
(Enter "0" if not used in the year of record)	0.0074 Amount - year of record Units .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 en listed below to manually enter emissions.	

Pollutant:	CO2	CH4	N20
Actual for previous year	0.8178 Tons	Tons	Tons
Actual for year of record:	0.4441 Tons	0 Tons	0 Tons

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 Tons		0.0002 Tons		0.0002 Tons	
Pollutant:	SF6		Refrigerents-CO2e		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 Tons		0 Tons		0 Tons	

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

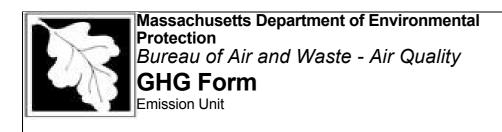
a. Actual for previous year (Tons)

0.4445

b. Actual for year of record (Tons)

C. Notes

Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality	2018 Year of Record
GHG Form	30
Emission Unit	DEP EU#
	1180127
	>



2018	1
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31	
DEP EU#	
1180127	
Facility AO Identifier	

b. DEP's Emission Unit Number and facility's emiss	ssion unit name
	▼
No	rom the dropdownlist below, for the unit being replaced.
a. Is this unit, replacing another emission unit?	
. Emission Unit Replacement	
	replaced since the last report.
, , , , , , , , , , , , , , , , , , , ,	Complete only if the unit was shut down permanently or
a.Installation Date (mm/dd/yyyy) - estimate if unknow	own b. Decommission Date (mm/dd/yyyy) - if applicable
05/01/2007	
. Emission unit installation and decommission date	es:
	unit?
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
FUEL BURNING DEVICE	▼
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
b. Facility's emission unit number / code - cuit as no	C. DEI EINSSON ONE (EO)#
b. Facility's emission unit number / code - edit as ne	needed c. DEP Emission Unit (EU)#
a. Facility's choice of emission unit name - edit as r	
EMER GENERATOR #8 GATEWAY GARAGE CAT D125-6 D	DIFEFI
	DIFOEL
. Emission Unit Identifiers:	
b. DEP Account Number	c. Facility AQ Identifier
132563	1180127
a. Facility Name	

GHG Form

Emission Unit

2018	
Year of Record	
31	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	
Is this fuel, waste, or raw material/finished product an input,output or fuel?	C C © input output Fuel
Add a NEW fuel (New chamber if incinerator): Check the box if	Delete this fuel: Check the box if you stopped using this fuel in
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You must still report for this year of record
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" – the fuel will be removed from the unit in the
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number of fuels for this unit" is 1, do not delete
checking this box.	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
5	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
5	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
Total actual amount used for year of record:	1.1170 1000 GALLONS ▼1
/ Enter "0" if not used in the year of record)	Amount - year of record Units
Г	.1 1000 GALLONS
<u> </u>	Prior year
3. Total emissions for this fuel only in tons per year: Calculations: The form will automatically calculate the actual en listed below to manually enter emissions.	

Pollutant:	C02	CH4	N20
Actual for previous year	1.1245 Tons	Tons	0 Tons
Actual for year of record:	12.6221 Tons	0.0005 Tons	0.0001 Tons

Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018	
Year of Record	
31	
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)	12.6221 Tons	0.0127 Tons	0.0296 Tons
Pollutant:	□ SF6	Refrigerents-CO2e	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 Tons	0 Tons	Tons

1	Total	CO26	emissions
4.	TOTAL	COZE	emissions

0

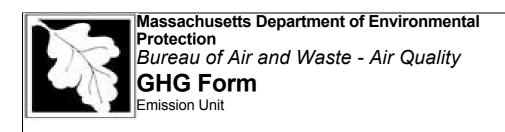
a. Actual for previous year (Tons)

12.6644

b. Actual for year of record (Tons)

C. Notes

	Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality	2018 Year of Record
	GHG Form	31
	Emission Unit	DEP EU#
		1180127
1		
4		



2018	1
Year of Record	
32	
DEP EU#	
1180127	
Facility AO Identifier	

WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
a. I acility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
Emission Unit Identifiers:	
EMERGENCY GENERATOR #12 RECREATION CENTER - DIES	EL
a. Facility's choice of emission unit name - edit as ne	
32	32
b. Facility's emission unit number / code - edit as nee	ded c. DEP Emission Unit (EU)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
c c category	unit?
Facination with tradellation and decomposition dates	
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.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	the dropdownlist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission	on unit name
Consideration and	
Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE
RECIPROCATING IC ENGINE	
KHOLER	
b. Manufacturer	
400050700	
400REOZDD	4.41

GHG Form

Emission Unit

2018	
Year of Record	
32	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel, waste or raw material/finished product?	Yes	
Is this fuel, waste, or raw material/finished product an	0 0 0	
input,output or fuel?	input output Fuel	
Add a NEW fuel (New chamber if incinerator): Check the box if	Delete this fuel: Check to	he box if you stopped using this fuel in
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You r	nust still report for this year of record
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" - the f	uel will be removed from the unit in the
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number	er of fuels for this unit" is 1, do not delete
checking this box.	this fuel unless you have al	so 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 Che	ck" after entry of SCC; call DEP if
	SCC does not pass the e	rror check.)
	Internal Combustion Engines Oil (Diesel) - Reciprocating	s - Commercial/Institutional - Distillate
	SCC Description - filled by	y eDEP after error check
b. Fuel/Material/Waste Type:	DIFOFI	1
	DIESEL	-4
		▼
c. Fuel/Process Description:	DIESEL	
	0.5740	1000 GALLONS
(Enter "0" if not used in the year of record)	Amount - year of record	Units
	.638 1000 GALL	ONS
	Prior year	
3. Total emissions for this fuel only in tons per year: Calculations: The form will automatically calculate the actual er listed below to manually enter emissions. Important: Leaving blanks for emissions "Actual for year of reco (or zero) tons of emissions each.	•	·

Pollutant:	C02	CH4	N2O
Actual for previous year	7.2058 Tons	Tons	0 Tons
Actual for year of record:	6.4862 Tons	0.0003 Tons	0.0001 Tons

Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018	
Year of Record	
32	
DEP EU#	
1180127	

Emission Factor	22600		0.910450		0.177650	
in pounds per unit	1000 GALLONS	•	1000 GALLONS	•	1000 GALLONS	_
Calculation Method		<u>-</u>		_		<u> </u>
Specify General Reporting Protocol EF		•		•		
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	6.4862 Tons		0.0065 Tons		0.0152 Tons	
Pollutant:	SF6		Refrigerents-CO2e		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		•		•		<u>-</u> 1
Calculation Method		<u>_</u>		•		
Specify General Reporting Protocol EF						
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	

4	Total	CO2e	emissions
т.	1 Otal	0020	CITIOSIONS

0

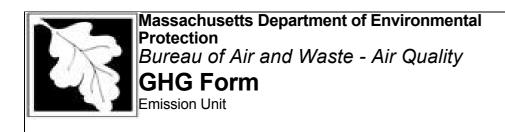
a. Actual for previous year (Tons)

6.5079

b. Actual for year of record (Tons)

C. Notes

	Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality GHG Form	2018 Year of Record 32
	Emission Unit	DEP EU# 1180127
1		[+]



2018
Year of Record
33
DFP FU#
1180127
Facility AQ Identifier

NAODOEOTED DOLVETED IN ICAL IN ICATION	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	80127
b. DEP Account Number c.	Facility AQ Identifier
Emission Unit Identifiers:	
EMERGENCY GENERATOR #13 GATEWAY 2 - DIESEL	
a. Facility's choice of emission unit name - edit as needed	
22	22
33	33 c. DER Emission Unit /EU\#
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	⊙ Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
	unit?
Emission unit installation and decommission dates:	
Zimosion dim motanation did dosoimmooion datos.	
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.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
No Yes - Select DEP's emissions unit number from the dr	ropdownlist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission uni	t name
5. BELL & Ellipsion Clik Number and lashing & climesion and	, name
Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE
RECIPROCATING IC ENGINE	
CUMMINS	
b. Manufacturer	
DFEH 60 HZ	78

GHG Form

Emission Unit

2018	
Year of Record	
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DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C € input output Fuel
Add a NEW fuel (New chamber if incinerator): Check the box if	Delete this fuel: Check the box if you stopped using this fuel in
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You must still report for this year of record
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" – the fuel will be removed from the unit in the
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number of fuels for this unit" is 1, do not delete
checking this box.	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 er listed below to manually enter emissions.	

Pollutant:	CO2	CH4	N20
Actual for previous year	5.9539 Tons	Tons	0 Tons
Actual for year of record:	6.4749 Tons	0.0003 Tons	0.0001 Tons

Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2018	
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33	
DEP EU#	
1180127	

Emission Factor	22600		0.910450		0.177650
in pounds per unit	1000 GALLONS	- 1	1000 GALLONS	_	1000 GALLONS
Calculation Method		- 1		_	
Specify General Reporting Protocol EF		▼]		•	
CO2e for previous year	Tons		Tons		Tons
CO2e for year of record (Tons)	6.4749 Tons		0.0065 Tons		0.0152 Tons
Pollutant:	SF6		Refrigerents-CO2e		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 Tons		0 Tons		Tons

1	Total	CO26	emissions
4.	TOTAL	COZE	emissions

0

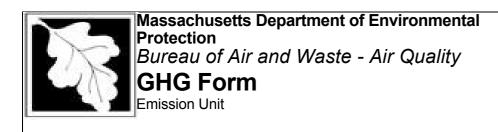
a. Actual for previous year (Tons)

6.4966

b. Actual for year of record (Tons)

C. Notes

Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality	2018 Year of Record
GHG Form	33
Emission Unit	DEP EU#
	1180127
	[>]



2018	
Year of Record	
34	
DEP EU#	
1180127	
Facility AQ Identifier	

WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
. Emission Unit Identifiers:	
EMERGENCY GENERATOR #14 - FARRADAY OLYMPIAN	
a. Facility's choice of emission unit name - edit as ne	eded
34	34
b. Facility's emission unit number / code - edit as nee	eded 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	g. Is GHG emissions reporting required for this emission's unit?
. Emission unit installation and decommission dates:	
06/21/2013	
a.Installation Date (mm/dd/yyyy) - estimate if unknowr	b. Decommission Date (mm/dd/yyyy) - if applicable
	Complete only if the unit was shut down permanently or replaced since the last report.
. Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	n the dropdownlist below, for the unit being replaced.
No C Yes - Select DEP's emissions unit number from b. DEP's Emission Unit Number and facility's emission	on unit name
b. DEP's Emission Unit Number and facility's emission	on unit name
b. DEP's Emission Unit Number and facility's emission.	on unit name
b. DEP's Emission Unit Number and facility's emission. Equipment a. Equipment Type	
b. DEP's Emission Unit Number and facility's emission.	on unit name RECIPROCATING IC ENGINE
b. DEP's Emission Unit Number and facility's emission. Equipment a. Equipment Type	
b. DEP's Emission Unit Number and facility's emission. Equipment a. Equipment Type EPA Unit Type Code	
b. DEP's Emission Unit Number and facility's emission. Equipment a. Equipment Type EPA Unit Type Code RECIPROCATING IC ENGINE	
b. DEP's Emission Unit Number and facility's emission. Equipment a. Equipment Type EPA Unit Type Code RECIPROCATING IC ENGINE OLYMPIAN	

GHG Form

Emission Unit

2018	
Year of Record	
34	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw	CV CV
material/finished product?	
Is this fuel, waste, or raw material/finished product an input,output or fuel?	C C • 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. Number of fuels for this unit (previous records): 1	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".
1. DEP Fuel #:	1
	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
(Enter "0" if not used in the year of record)	0.0222 MILLION CUBIC FEET 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 enlisted below to manually enter emissions.	•

Pollutant:	CO2	CH4	N20
Actual for previous year	1.2352 Tons	Tons	Tons
Actual for year of record:	1.3322 Tons	0 Tons	0 Tons

Bureau of Air and Waste - Air Quality

GHG Form

Emission Unit

2010	
2018	
Year of Record	
34	
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		•		<u>-</u>		<u> </u>
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record	1.3322		0.0006		0.0007	-
(Tons)	Tons		Tons		Tons	
Pollutant:	□ SF6		Refrigerents-CO2e		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		▼		•		<u></u>
Calculation Method		•		_		<u>_</u>
Specify General Reporting Protocol EF						
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

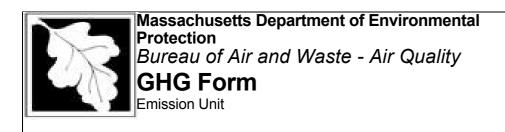
a. Actual for previous year (Tons)

1.3335

b. Actual for year of record (Tons)

C. Notes

	Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality	2018 Year of Record
	GHG Form	34
	Emission Unit	DEP EU#
		1180127
41		
1		>



2018
Year of Record
35
DEP EU#
1180127
Facility AO Identifier

WODCECTED DOLVTECHNICAL INICTITUTE	
WORCESTER POLYTECHNICAL INSTITUTE a. Facility Name	
a. I domy Hame	
	180127
b. DEP Account Number c	. Facility AQ Identifier
Emission Unit Identifiers:	
GATEWAY COGENERATION UNITS - TECOGEN	
a. Facility's choice of emission unit name - edit as needed	1
35	35
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#
,	
d ODIS ID # for large electrical utilities only	e. Combined Units – enter number of individual units
d. ORIS ID # – for large electrical utilities only	e. Combined Offics – effet flumber of individual units
FUEL BURNING DEVICE	Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
	unit?
Emission unit installation and decommission dates:	
04/23/2014	7
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.
Emission Unit Poplacement	
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	dropdownlist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission ur	nit name
Equipment	
a. Equipment Type	
EPA Unit Type Code	OTHER COMBUSTION ▼
COGENERATION UNITS	
TECOGEN	
b. Manufacturer	
CM-75	1.854
c. Model Number d	f. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018	
Year of Record	
35	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel,waste or raw material/finished product?				
Is this fuel, waste, or raw material/finished product an input,output or fuel?	C C € input output Fuel			
Add a NEW fuel (New chamber if incinerator): Check the box if	Delete this fuel: Check the box if you stopped using this fuel in			
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You must still report for this year of record			
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" – the fuel will be removed from the unit in the			
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number of fuels for this unit" is 1, do not delete			
checking this box.	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			
	TATOTAL GAO			
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)	Amount - year of record Units			
	.6334 MILLION CUBIC FEET			
i	Prior year			
3. Total emissions for this fuel only in tons per year: Calculations: The form will automatically calculate the actual er listed below to manually enter emissions.				
(or 2010) tons or emissions each.				

Pollutant:	CO2	CH4	N20
Actual for previous year	38.0093	0.0007	0.0001
	Tons	Tons	Tons
Actual for year of record:	42.2169	0.0008	0.0001
	Tons	Tons	Tons

Bureau of Air and Waste - Air Quality

GHG Form

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	<u>•</u>]	MILLION CUBIC FEET		MILLION CUBIC FEET	_
Calculation Method		•		✓		<u>_</u>
Specify General Reporting Protocol EF				•		<u>_</u>
CO2e for previous year	Tons		Tons	-	Tons	
CO2e for year of record (Tons)	42.2169 Tons		0.02 Tons		0.0231 Tons	
Pollutant:	SF6		Refrigerents-CO2e		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		<u> </u>		-		▼
Calculation Method				_		<u>_</u>
Specify General Reporting Protocol EF						
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		0 Tons	

4.	lotai	CO2e	emissions	

0

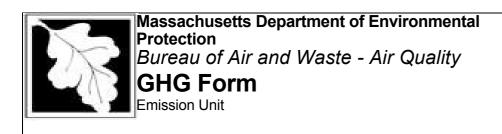
a. Actual for previous year (Tons)

42.26

b. Actual for year of record (Tons)

C. Notes

	Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality GHG Form	2018 Year of Record 35
	Emission Unit	DEP EU# 1180127
4		[>]



2018
Year of Record
4
DEP EU#
1180127
Facility AO Identifier

WORCESTER POLYTECHNICAL INSTITUTE		
a. Facility Name		
132563		
b. DEP Account Number	c. Facility AQ Identifier	
. Emission Unit Identifiers:		
BOILER #4 FOUNDERS -2 HB SMITH+2 PVI NATURAL GAS		
a. Facility's choice of emission unit name - edit as neede	pd .	
b Escilitu's emission unit number / ends edit as product	A DED Emission Unit /EU/#	
b. Facility's emission unit number / code - edit as needed	d c. DEP Emission Unit (EU)#	
	5	
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units	
FUEL BURNING DEVICE	▼ Yes C No	
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's	
	unit?	
. Emission unit installation and decommission dates:		
06/01/1985	h Decembigation Data (mm/dd/mm) if applicable	
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.	
. Emission Unit Replacement		
a. Is this unit, replacing another emission unit?		
No	drandouglist helpsy for the unit heing rankeed	
19 NO 19 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 u	ınit name	
.Equipment		
a. Equipment Type		
EPA Unit Type Code	BOILER _▼	
BOILER		
HB SMITH / PVI		
b. Manufacturer		
VARIOUS	8.944	

GHG Form

Emission Unit

2018	
Year of Record	
4	
DEP EU#	
1180127	

Is GHG emissions reporting required for this fuel, waste or raw material/finished product?				
Is this fuel, waste, or raw material/finished product an	0 0 0			
input,output or fuel?	input output Fuel			
	input output ruei			
Add a NEW fuel (New chamber if incinerator): Check the box if	Delete this fuel: Check th	ne box if you stopped using this fuel in		
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You must still report for this year of record			
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" - the fuel will be removed from the unit in the			
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number of fuels for this unit" is 1, do not delete			
checking this box.	this fuel unless you have als	so checked "Add a New fuel".		
Number of fuels for this unit (previous records): 1				
1. DEP Fuel #:	1			
1. DEI 1 001#.				
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			
		<u>. •</u>		
c. Fuel/Process Description:	BOILER #4 FOUNDERS+HB SMITH+PVI NATURAL GAS			
Total actual amount used for year of record:	4.1532	MILLION CUBIC FEET 🔻		
/ Finter IIOII if not wood in the week of necessary	Amount - year of record	Units		
	•			
	6.5734 MILLION CUBIC FEET			
	Prior year			
3. Total emissions for this fuel only in tons per year:	minaiana LINII ECC waxa aha			
Calculations: The form will automatically calculate the actual en	HISSIOHS UNLESS YOU CHE	eck a box to to the left of the pollutant		
listed below to manually enter emissions . Important: Leaving blanks for emissions "Actual for year of reco	ord" means that you are so	rtifying that there were less than 0.000		
(or zero) tons of emissions each.	oru ilicalis tilat you ale ce	minying that there were less than 0.000		
(or zero) tons or emissions each.				

Pollutant:	CO2	CH4	N20
Actual for previous year	394.4099	0.0075	0.0007
	Tons	Tons	Tons
Actual for year of record:	249.1920	0.0047	0.0005
	Tons	Tons	Tons

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 Tons		0.1179 Tons		0.1364 Tons
Pollutant:	SF6		Refrigerents-CO2e		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 Tons		0 Tons		Tons

4. Total CO2e emissions

0

a. Actual for previous year (Tons)

249.4463

b. Actual for year of record (Tons)

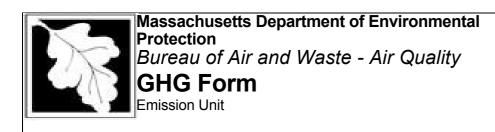
C. Notes

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

Linission Ont		Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality	2018 Year of Record
11801		GHG Form	4
· · ·		Emission Unit	DEP EU#
NOT HAVE A PLAN APPROVAL.			1180127
41	NOT HAVE A PLANA	APPROVAL.	∏. ⊾1



2018	1
Year of Record	
7	1
DEP EU#	
1180127	
Facility AO Identifier	

. Facility Identifiers:	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
. Emission Unit Identifiers:	
EMER GEN #1 - KOHLER 80R282 - NAT GAS DANIELS HALL	
a. Facility's choice of emission unit name - edit as neede	d
7	7
b. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?
. 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.
. Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	dropdownlist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission u	ınit name
.Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE
RECIPROCATING IC ENGINE	
KOHLER	
b. Manufacturer	
80-R2-82	1.097
c. Model Number	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

material/finished product?	W Yes C No		
Is this fuel, waste, or raw material/finished product an	0 0 0		
input,output or fuel ?	input output Fuel		
Add a NEW fuel (New chamber if incinerator): Check the box if	Delete this fuel: Check the box if you stopped using this fuel in		
you need to add a fuel that you did not report on previously (eDEP	this unit permanently. You must still report for this year of record		
will add a blank Sect. B form to your package). If "Number of fuels	even if amount is "0" – the fuel will be removed from the unit in the		
for this unit" below is greater than 1, review the other fuels before	next report cycle. If "Number of fuels for this unit" is 1, do not delet		
checking this box.	this fuel unless you have also checked "Add a New fuel".		
Number of fuels for this unit (previous records):			
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)			
, =,	Amount - year of record Units		
	.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 to the left of the polluta		
·			
listed below to manually enter emissions .	cord" means that you are certifying that there were less than 0		

Pollutant:	C02	CH4	N20
Actual for previous year	2.3370 Tons	Tons	0 Tons
Actual for year of record:	2.2324 Tons	0 Tons	0 Tons

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 Tons		0.0011 Tons		0.0012 Tons
Pollutant:	□ SF6		Refrigerents-CO2e		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		▼1		✓	•
Specify General Reporting Protocol EF					
CO2e for previous year	Tons		Tons		Tons
CO2e for year of record (Tons)	0		0		0

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

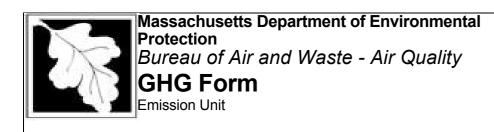
a. Actual for previous year (Tons)

2.2347

b. Actual for year of record (Tons)

C. Notes

Massachusetts Department of Environmental Pa Bureau of Air and Waste - Air Quality GHG Form Emission Unit	Year of Record 7 DEP EU#
	1180127



2018
Year of Record
8
DEP EU#
1180127
Facility AO Identifier

WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	180127
b. DEP Account Number c.	Facility AQ Identifier
Emission Unit Identifiers:	
EMER GEN #2 - CPI 115G0 - NAT GAS - FOUNDERS HALL	
a. Facility's choice of emission unit name - edit as needed	
8	8
o. Facility's emission unit number / code - edit as needed	c. DEP Emission Unit (EU)#
3. I dominy o difficulties a fine fine fine fine fine fine fine fine	o. Der Einicolon Chit (EO)
d ODIO ID # foology 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Openhina dillaita
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	G Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's
	unit?
Emission unit installation and decommission dates:	
04/04/4005	1
01/01/1985 a.Installation Date (mm/dd/yyyy) - estimate if unknown	b. Decommission Date (mm/dd/yyyy) - if applicable
a.installation Date (Illin/dd/yyyy) - estimate ii diikhowii	
	Complete only if the unit was shut down permanently or
	replaced since the last report.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
No C Yes - Select DEP's emissions unit number from the c	trandayalist balay, for the unit being replaced
19 NO 19 165 - Select DEF'S emissions unit number from the C	propagoninst below, for the unit being replaced.
o. DEP's Emission Unit Number and facility's emission un	nit name
Equipment	
a. Equipment Type	
EPA Unit Type Code	RECIPROCATING IC ENGINE
RECIPROCATING IC ENGINE	
CPI	
o. Manufacturer	
115G0	.614

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?	
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C G 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. Number of fuels for this unit (previous records): 1	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".
1. DEP Fuel #:	1
	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
(Enter "0" if not used in the year of record)	0.0353 MILLION CUBIC FEET 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 er listed below to manually enter emissions.	

Pollutant:	CO2	CH4	N20
Actual for previous year	2.0824 Tons	Tons	0 Tons
Actual for year of record:	2.1183 Tons	0 Tons	0 Tons

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 Tons		0.0010 Tons		0.0012 Tons
Pollutant:	□ SF6		Refrigerents-CO2e		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		<u>_</u>			
Specify General Reporting Protocol EF					
CO2e for previous year	Tons		Tons		Tons
CO2e for year of record (Tons)	0 Tons		0 Tons		Tons

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

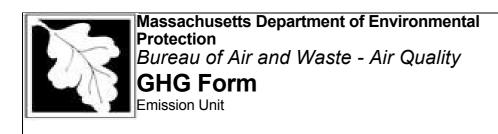
a. Actual for previous year (Tons)

2.1205

b. Actual for year of record (Tons)

C. Notes

	Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality GHG Form	2018 Year of Record
	Emission Unit	DEP EU# 1180127
1		



2018
Year of Record
9
DEP EU#
1180127
Facility AO Identifier

Facility Identifiers:	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
Emission Unit Identifiers:	
EMER GEN #3 - ONAN 15JC4R - NAT GAS - HARRINGTON	
a. Facility's choice of emission unit name - edit as need	ded
9	9
b. Facility's emission unit number / code - edit as neede	ed c. DEP Emission Unit (EU)#
d. ORIS ID # – for large electrical utilities only	e. Combined Units – enter number of individual units
FUEL BURNING DEVICE	Yes C No
f. Emission Unit Category	g. Is GHG emissions reporting required for this emission's unit?
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.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
	ne dropdownlist below, for the unit being replaced.
b. DEP's Emission Unit Number and facility's emission	unit name
Equipment	
a. Equipment Type EPA Unit Type Code	DECIDED CATING IO ENGINE
LI A OTIIL TYPE COME	RECIPROCATING IC ENGINE
RECIPROCATING IC ENGINE	
ONAN	
b. Manufacturer	
15JC4R	.206
c. Model Number	d. Max Input Rating MMBtu/hr (must be greater than 0)

GHG Form

Emission Unit

2018	
Year of Record	
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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?			
Is this fuel, waste, or raw material/finished product an input,output or fuel?	C C € 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. Number of fuels for this unit (previous records): 1	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".		
1. DEP Fuel #:	1		
	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		
(Enter "0" if not used in the year of record)	0.0047 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 enlisted below to manually enter emissions.			

Pollutant:	CO2	CH4	N20
Actual for previous year	0.3845 Tons	Tons	Tons
Actual for year of record:	0.2820 Tons	0 Tons	0 Tons

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 Tons		0.0001 Tons		0.0002 Tons
Pollutant:	□ SF6		Refrigerents-CO2e		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 Tons		0 Tons		Tons

1	Total	CO2a	emissions
4.	TOTAL	COZE	emissions

0

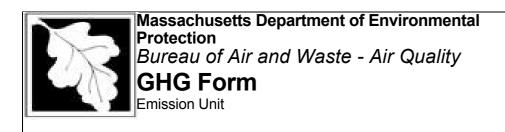
a. Actual for previous year (Tons)

0.2823

b. Actual for year of record (Tons)

C. Notes

Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality GHG Form Emission Unit	2018 Year of Record 9 DEP EU#
	1180127



2018	1
Year of Record	
36	1
DEP EU#	
1180127	
Facility AQ Identifier	

Facility Identifiers:	
WORCESTER POLYTECHNICAL INSTITUTE	
a. Facility Name	
132563	1180127
b. DEP Account Number	c. Facility AQ Identifier
Emission Unit Identifiers:	
REFRIGERANTS FROM AIR CONDITIONERS	
a. Facility's choice of emission unit name - edit as ne	eeded
36	36
b. Facility's emission unit number / code - edit as ne	eded 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	g. Is GHG emissions reporting required for this emission's unit?
Emission unit installation and decommission dates	3:
01/01/1980	
a.Installation Date (mm/dd/yyyy) - estimate if unknow	b. Decommission Date (mm/dd/yyyy) - if applicable
	Complete only if the unit was shut down permanently or replaced since the last report.
Emission Unit Replacement	
a. Is this unit, replacing another emission unit?	
© No ☐ Yes - Select DEP's emissions unit number from	m the dropdownlist below, for the unit being replaced.
	T _k
b. DEP's Emission Unit Number and facility's emissi	ion unit name
Environment	
Equipment Type	
a. Equipment Type EPA Unit Type Code	OTHER FUGITIVE ▼1
	OTHERT OGHTVE
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	

R Fuels and Emissions

B.Fuels and Emissions		
Is GHG emissions reporting required for this fuel,waste or raw material/finished product?	€ Yes C No	
Is this fuel, waste, or raw material/finished product an input,output or fuel ?	C C • 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. Number of fuels for this unit (previous records): 1	Delete this fuel: Check the box is this unit permanently. You must still even if amount is "0" – the fuel will I next report cycle. If "Number of fue this fuel unless you have also check	I report for this year of record be removed from the unit in the Is for this unit" is 1, do not delete
1. DEP Fuel #:	1	
	99999998 SCC (Click on "Error Check" after SCC does not pass the error check GHG Source Categories - Unspecific Stationary Air Conditioners - Fugitive	eck.) ed Technology - Chillers &
b. Fuel/Material/Waste Type:	SCC Description - filled by eDEF	after error check
c. Fuel/Process Description:	AIR CONDITIONERS	
(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 e listed below to manually enter emissions. Important: Leaving blanks for emissions "Actual for year of reco (or zero) tons of emissions each.	missions UNLESS you check a b	·
Pollutant:	Гсн4	N2O
Actual for previous year Tons	Tons	Tons
Actual for year of record:	Tons	Tons

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		~]		_	_	1
Calculation Method		▼		_	_	1
Specify General Reporting Protocol EF		T		•		1
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		Tons	
Pollutant:	SF6		Refrigerents-CO2e		Other Specify Other Pollutant	
Actual for previous year	Tons		Tons		Tons	
Actual for year of record:	Tons		0 Tons		Tons	
Emission Factor			0.0000			
in pounds per unit		~	TONS	•	_	1
Calculation Method		_		•	_	1
Specify General Reporting Protocol EF]
CO2e for previous year	Tons		Tons		Tons	
CO2e for year of record (Tons)	0 Tons		0 Tons		Tons	

4	Total	CO2e	emissions
т.	1 Otal	0020	CITIOSIONS

0

a. Actual for previous year (Tons)

Ю

b. Actual for year of record (Tons)

C. Notes

	Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality	2018 Year of Record
	GHG Form Emission Unit	36 DEP EU# 1180127
4		



GHG TES

Total Emissions Statement

2018	
Year of Record	
DEP EU#	
1180127	
Facility AQ Identifier	

A. Annual Total Emissions Statement

WORCES	TER POLYTECHNIC INS	TITUTE				
a. Facilit	y Name					
132563	132563		1180127	1180127		
b. DEP Account Number		c. Facility AQ Ide	c. Facility AQ Identifier			
2. Total E	missions :					
		=	-	-	pollutant, as well as, Total (
		=			ayed in the tables below.Yo	
nust valid	date each emission i	unit's form first, before the	e results below will be o	omplete.		
Pollutant:	CO2	CH4	N2O	SF6	Refrigerents-CO2e	
Actual for	16232.7611	.4151	.0298	0		
revious rear	Tons	Tons	Tons	Tons	Tons	
Actual for						
ear of	13089.4577	0.2488	0.0246	0		
ecord:	Tons	Tons	Tons	Tons	Tons	
O2e for						
revious	J.	J.		l l		
ear Tons)	Tons	Tons	Tons	Tons	Tons	
O2e for						
ear of	13089.4577	6.2237	7.2716	0		
ecord Tons)	Tons	Tons	Tons	Tons	Tons	
Total CC	2e emissions				·	
0						
a. Actual	for previous year (To	ons)				
13102.95	30					
	for year of record (To					

Massachusetts Department of Environmental Protection Bureau of Air and Waste - Air Quality	2018
GHG TES	Year of Record
Total Emissions Statement	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."

[**•**]