

**BEFORE THE
PUBLIC UTILITIES COMMISSION OF OHIO**

FirstEnergy Generation Corp.'s Notice of
Filing Greenhouse Gas Report

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Case No. 11-5986-EL-UNC

On March 16, 2011, the Commission granted FirstEnergy Generation Corp. ("FirstEnergy") a waiver of O.A.C. 4901:1-41-03(A) in Case No. 10-2985-EL-ACP, and ordered FirstEnergy to file a copy of its federal greenhouse gas report with the Commission.¹ Attached are the reports for FirstEnergy's Ohio facilities, as reported under the U.S. Environmental Protection Agency's Greenhouse Gas Mandatory Reporting Rule.

Respectfully submitted,

/s/ Laura C. McBride

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¹ In its Application, FirstEnergy requested a waiver, to the extent the requirements of O.A.C 4901:1-41-03(A) apply to FirstEnergy. FirstEnergy does not waive its arguments regarding the Commission's jurisdiction, as set forth in the Application.

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: Ashtabula

Facility Identifier: 520002

Facility Reporting Year: 2010

Facility Location:

Address: 2210 South Ridge Road West

City: Ashtabula

State: OH

Postal Code: 44004

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 1037388

CO2 Equivalent (mtons, Subparts NN-PP): 0

Biogenic CO2 (mtons, Subparts C-HH): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2010-01-01

GHG Report End Date: 2010-12-31

Description of Changes to Calculation Methodology:

Description of Best Available Monitoring Methods Used:

Part 75 Biogenic Emissions Indication: No Part 75 methods used

Primary NAICS Code: 221112

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp.

Address: 76 South Main Street, Akron, OH 44308

Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		109.1 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0 (Metric Tons)		
Nitrous Oxide		0 (Metric Tons)		

Unit Details:

Unit Name : 1

Unit Type : OB (Boiler, other)

Unit Description : aux boiler 1

Individual Unit Details:

Maximum Rated Heat Input Capacity: 198

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):
Annual Biogenic CO2 Emissions (metric tons): 0
Annual Fossil fuel based CO2 Emissions (metric tons): 109.1

Tier Fuel Details:

Fuel : Natural Gas (Weighted U.S. Average)
Tier Name : Tier 1 (Equation C-1b, natural gas billing in mmBtu)
Tier Methodology Start Date : 2010-01-01
Tier Methodology End Date : 2010-12-31

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
109.1 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		1031672.6 (Metric Tons)		
Methane		10.84 (Metric Tons)		
Nitrous Oxide		17.349 (Metric Tons)		

Unit Details:

Unit Name : 7
Unit Type : Electricity Generator
Unit Description : 7
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 1031672.6
Annual CO2 Emissions Including Biomass (short tons): 1137212.7
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 132
Operating Hours Stack Gas Flow Rate Substituted: 323
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 228 N2O Emissions CO2 Equivalent (metric tons): 5378

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Facility Name: Eastlake
 Facility Identifier: 520004
 Facility Reporting Year: 2010
 Facility Location:
 Address: 10 Erie Road
 City: Eastlake
 State: OH
 Postal Code: 44095

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 5884875
 CO2 Equivalent (mtons, Subparts NN-PP): 0
 Biogenic CO2 (mtons, Subparts C-HH): 0
 Cogeneration Unit Emissions Indicator: N
 GHG Report Start Date: 2010-01-01
 GHG Report End Date: 2010-12-31
 Description of Changes to Calculation Methodology:
 Description of Best Available Monitoring Methods Used:
 Part 75 Biogenic Emissions Indication: No Part 75 methods used
 Primary NAICS Code: 221112
 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp
 Address: 76 South Main Street, Akron, OH 44308
 Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		927.7 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0.04 (Metric Tons)		
Nitrous Oxide		0.008 (Metric Tons)		

Unit Details:

Unit Name : 6
Unit Type : SCCT (CT (Turbine, simple cycle combustion))
Unit Description : 6

Individual Unit Details:

Maximum Rated Heat Input Capacity: 469

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):
Annual Biogenic CO2 Emissions (metric tons): 0
Annual Fossil fuel based CO2 Emissions (metric tons): 927.7

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2
Tier Name : Tier 2 (Equation C-2a)
Tier Methodology Start Date : 2010-01-01
Tier Methodology End Date : 2010-12-31
Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
927.7 (Metric Tons)	0.04 (Metric Tons)	0.008 (Metric Tons)	1 (Metric Tons)	2 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		5852145.1 (Metric Tons)		
Methane		61.5 (Metric Tons)		
Nitrous Oxide		98.411 (Metric Tons)		

Unit Details:**Unit Name :** 1**Unit Type :** Electricity Generator**Unit Description :** 1**Part 75 Methodology :** CEMS**Methodology Start Date:** 2010-01-01**Methodology End Date:** 2010-12-31**Acid Rain Program Indicator:** Y**Emission Details:****Annual CO2 Emissions Including Biomass** (metric tons): 762450.5**Annual CO2 Emissions Including Biomass** (short tons): 840449.2**Annual CO2 Emissions from Biomass** (metric tons): 0**CEMS Details:****Operating Hours CO2 Concentration Substituted:** 117**Operating Hours Stack Gas Flow Rate Substituted:** 33**Operating Hours Stack Gas Moisture Substituted:** 0**Electricity Fuel Details:**

Fuel type : Mixed (Electric Power sector)
CH4 Emissions CO2 Equivalent (metric tons): 168
N2O Emissions CO2 Equivalent (metric tons): 3975

Unit Name : 2**Unit Type :** Electricity Generator**Unit Description :** 2**Part 75 Methodology :** CEMS**Methodology Start Date:** 2010-01-01**Methodology End Date:** 2010-12-31**Acid Rain Program Indicator:** Y**Emission Details:****Annual CO2 Emissions Including Biomass** (metric tons): 558516.9**Annual CO2 Emissions Including Biomass** (short tons): 615653.2**Annual CO2 Emissions from Biomass** (metric tons): 0**CEMS Details:****Operating Hours CO2 Concentration Substituted:** 27**Operating Hours Stack Gas Flow Rate Substituted:** 26**Operating Hours Stack Gas Moisture Substituted:** 0**Electricity Fuel Details:**

Fuel type : Mixed (Electric Power sector)
CH4 Emissions CO2 Equivalent (metric tons): 123
N2O Emissions CO2 Equivalent (metric tons): 2912

Unit Name : 3**Unit Type :** Electricity Generator**Unit Description :** 3

Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 498870.1
Annual CO2 Emissions Including Biomass (short tons): 549904.5
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 36
Operating Hours Stack Gas Flow Rate Substituted: 10
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 110 N2O Emissions CO2 Equivalent (metric tons): 2601

Unit Name : 4
Unit Type : Electricity Generator
Unit Description : 4
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 1012812.8
Annual CO2 Emissions Including Biomass (short tons): 1116423.6
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 46
Operating Hours Stack Gas Flow Rate Substituted: 4
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 224 N2O Emissions CO2 Equivalent (metric tons): 5280

Unit Name : 5
Unit Type : Electricity Generator
Unit Description : 5
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 3019494.8
Annual CO2 Emissions Including Biomass (short tons): 3328389.1
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 113
Operating Hours Stack Gas Flow Rate Substituted: 47
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 666 N2O Emissions CO2 Equivalent (metric tons): 15741
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Facility Name: Lake Shore
 Facility Identifier: 520005
 Facility Reporting Year: 2010
 Facility Location:
 Address: 205 Willis Street
 City: Cleveland
 State: OH
 Postal Code: 44103

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 739051
 CO2 Equivalent (mtons, Subparts NN-PP): 0
 Biogenic CO2 (mtons, Subparts C-HH): 0
 Cogeneration Unit Emissions Indicator: N
 GHG Report Start Date: 2010-01-01
 GHG Report End Date: 2010-12-31
 Description of Changes to Calculation Methodology:
 Description of Best Available Monitoring Methods Used:
 Part 75 Biogenic Emissions Indication: No Part 75 methods used
 Primary NAICS Code: 221112
 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp.
 Address: 76 South Main Street, Akron, OH 44308
 Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		522.6 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0.02 (Metric Tons)		
Nitrous Oxide		0.004 (Metric Tons)		

Unit Details:

Unit Name : D1

Unit Type : OB (Boiler, other)

Unit Description : D1

Individual Unit Details:

Maximum Rated Heat Input Capacity: 19

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 40.3

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
40.3 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : D2**Unit Type :** OB (Boiler, other)**Unit Description :** D2**Individual Unit Details:****Maximum Rated Heat Input Capacity:** 19**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 40.2**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
40.2 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : aux1**Unit Type :** OB (Boiler, other)**Unit Description :** aux boiler 1**Individual Unit Details:****Maximum Rated Heat Input Capacity:** 75**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 442.1**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
442.1 (Metric Tons)	0.02 (Metric Tons)	0.004 (Metric Tons)	0 (Metric Tons)	1 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		734535 (Metric Tons)		
Methane		7.72 (Metric Tons)		
Nitrous Oxide		12.352 (Metric Tons)		

Unit Details:**Unit Name :** 18**Unit Type :** Electricity Generator**Unit Description :** 18**Part 75 Methodology :** CEMS**Methodology Start Date:** 2010-01-01**Methodology End Date:** 2010-12-31**Acid Rain Program Indicator:** Y**Emission Details:****Annual CO2 Emissions Including Biomass** (metric tons): 734535**Annual CO2 Emissions Including Biomass** (short tons): 809677.9**Annual CO2 Emissions from Biomass** (metric tons): 0**CEMS Details:****Operating Hours CO2 Concentration Substituted:** 67**Operating Hours Stack Gas Flow Rate Substituted:** 209**Operating Hours Stack Gas Moisture Substituted:** 0**Electricity Fuel Details:****Fuel type :** Mixed (Electric Power sector)**CH4 Emissions CO2 Equivalent** (metric tons): 162**N2O Emissions CO2 Equivalent** (metric tons): 3829

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Facility Name: Edgewater (2857)

Facility Identifier: 520012

Facility Reporting Year: 2010

Facility Location:

Address: 200 West Oberlin Avenue

City: Lorain

State: OH

Postal Code: 44052

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 180

CO2 Equivalent (mtons, Subparts NN-PP): 0

Biogenic CO2 (mtons, Subparts C-HH): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2010-01-01

GHG Report End Date: 2010-12-31

Description of Changes to Calculation Methodology:

Description of Best Available Monitoring Methods Used:

Part 75 Biogenic Emissions Indication: No Part 75 methods used

Primary NAICS Code: 221112

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp.

Address: 76 South Main Street, Akron, OH 44308

Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		178.9 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0 (Metric Tons)		
Nitrous Oxide		0.002 (Metric Tons)		

Unit Details:

Unit Name : cta

Unit Type : SCCT (CT (Turbine, simple cycle combustion))

Unit Description : CTA

Individual Unit Details:

Maximum Rated Heat Input Capacity: 347

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 80.6

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
80.6 (Metric Tons)	0 (Metric Tons)	0.001 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : ctb**Unit Type :** SCCT (CT (Turbine, simple cycle combustion))**Unit Description :** CTB**Individual Unit Details:****Maximum Rated Heat Input Capacity:** 347**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 98.3**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
98.3 (Metric Tons)	0 (Metric Tons)	0.001 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

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Facility Name: R E Burger

Facility Identifier: 520015

Facility Reporting Year: 2010

Facility Location:

Address: 57246 Ferry Landing Road

City: Shadyside

State: OH

Postal Code: 43947

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 1174855

CO2 Equivalent (mtons, Subparts NN-PP): 0

Biogenic CO2 (mtons, Subparts C-HH): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2010-01-01

GHG Report End Date: 2010-12-31

Description of Changes to Calculation Methodology:

Description of Best Available Monitoring Methods Used:

Part 75 Biogenic Emissions Indication: No Part 75 methods used

Primary NAICS Code: 221112

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp.

Address: 76 South Main Street, Akron, OH 44308

Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		214.1 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0.01 (Metric Tons)		
Nitrous Oxide		0.001 (Metric Tons)		

Unit Details:

Unit Name : emda

Unit Type : OCS (Other combustion source)

Unit Description : EMD-A

Other Unit Name :

Individual Unit Details:

Maximum Rated Heat Input Capacity: 26

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 22.8

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
22.8 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : emdb**Unit Type :** OCS (Other combustion source)**Unit Description :** EMD-B1**Other Unit Name :****Individual Unit Details:****Maximum Rated Heat Input Capacity:** 26**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 18**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
18 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : emdb2**Unit Type :** OCS (Other combustion source)**Unit Description :** EMD-B2**Other Unit Name :****Individual Unit Details:****Maximum Rated Heat Input Capacity:** 26**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 15.4**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
15.4 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : ymb
Unit Type : OB (Boiler, other)
Unit Description : aux boiler YMB

Individual Unit Details:

Maximum Rated Heat Input Capacity: 2

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 157.9

Tier Fuel Details:

Fuel : Kerosene

Tier Name : Tier 1 (Equation C-1)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
157.9 (Metric Tons)	0.01 (Metric Tons)	0.001 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		1168291.5 (Metric Tons)		
Methane		12.28 (Metric Tons)		
Nitrous Oxide		19.646 (Metric Tons)		

Unit Details:

Unit Name : CS0001

Unit Type : Electricity Generator

Unit Description : CS0001

Part 75 Methodology : CEMS

Methodology Start Date: 2010-01-01

Methodology End Date: 2010-12-31

Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 1168291.5

Annual CO2 Emissions Including Biomass (short tons): 1287807.7

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 0

Operating Hours Stack Gas Flow Rate Substituted: 0

Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Subbituminous
CH4 Emissions CO2 Equivalent (metric tons): 258
N2O Emissions CO2 Equivalent (metric tons): 6090

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: W H Sammis

Facility Identifier: 520016

Facility Reporting Year: 2010

Facility Location:

Address: State Route 7

City: Stratton

State: OH

Postal Code: 43961

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 11864716

CO2 Equivalent (mtons, Subparts NN-PP): 0

Biogenic CO2 (mtons, Subparts C-HH): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2010-01-01

GHG Report End Date: 2010-12-31

Description of Changes to Calculation Methodology:

Description of Best Available Monitoring Methods Used:

Part 75 Biogenic Emissions Indication: No Part 75 methods used

Primary NAICS Code: 221112

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp.

Address: 76 South Main Street, Akron, OH 44308

Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		107.1 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0.00 (Metric Tons)		
Nitrous Oxide		0.001 (Metric Tons)		

Unit Details:

Unit Name : EMDA

Unit Type : OCS (Other combustion source)

Unit Description : EMD-A

Other Unit Name :

Individual Unit Details:

Maximum Rated Heat Input Capacity: 26

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 26.5

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
26.5 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : EMD B1**Unit Type :** OCS (Other combustion source)**Unit Description :** EMD_B1**Other Unit Name :****Individual Unit Details:****Maximum Rated Heat Input Capacity:** 26**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 18.9**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
18.9 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : EMD B2**Unit Type :** OCS (Other combustion source)**Unit Description :** EMD-B2**Other Unit Name :****Individual Unit Details:****Maximum Rated Heat Input Capacity:** 26**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 20.4**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
20.4 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Tons)				
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Unit Name : EMDB3

Unit Type : OCS (Other combustion source)

Unit Description : EMD-B3

Other Unit Name :

Individual Unit Details:

Maximum Rated Heat Input Capacity: 26

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 18.9

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
18.9 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : EMDB4

Unit Type : OCS (Other combustion source)

Unit Description : EMD-B4

Other Unit Name :

Individual Unit Details:

Maximum Rated Heat Input Capacity: 26

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 22.4

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
22.4 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
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Carbon Dioxide		11800487.7 (Metric Tons)		
Methane		124.02 (Metric Tons)		
Nitrous Oxide		198.44 (Metric Tons)		

Unit Details:

Unit Name : CSA
Unit Type : Electricity Generator
Unit Description : CSA
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 3781651
Annual CO2 Emissions Including Biomass (short tons): 4168513.9
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 43
Operating Hours Stack Gas Flow Rate Substituted: 7
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 835 N2O Emissions CO2 Equivalent (metric tons): 19714
--

Unit Name : CSB
Unit Type : Electricity Generator
Unit Description : CSB
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 3708246.4
Annual CO2 Emissions Including Biomass (short tons): 4087600
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 33
Operating Hours Stack Gas Flow Rate Substituted: 3
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 819 N2O Emissions CO2 Equivalent (metric tons): 19331
--

Unit Name : CSC
Unit Type : Electricity Generator
Unit Description : CSC
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 3265564.5
Annual CO2 Emissions Including Biomass (short tons): 3599631.8
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 71
Operating Hours Stack Gas Flow Rate Substituted: 51
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 721 N2O Emissions CO2 Equivalent (metric tons): 17023
--

Unit Name : CS0001
Unit Type : Electricity Generator
Unit Description : CS0001
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 507231.4
Annual CO2 Emissions Including Biomass (short tons): 559121.2
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 5
Operating Hours Stack Gas Flow Rate Substituted: 1
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 112 N2O Emissions CO2 Equivalent (metric tons): 2644

Unit Name : CS0002
Unit Type : Electricity Generator
Unit Description : CS0002
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 179642.7
Annual CO2 Emissions Including Biomass (short tons): 198020.2
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 3
Operating Hours Stack Gas Flow Rate Substituted: 2
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 40 N2O Emissions CO2 Equivalent (metric tons): 937

Unit Name : Unit 7
Unit Type : Electricity Generator
Unit Description : Unit 7
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:**Annual CO2 Emissions Including Biomass** (metric tons): 358151.7**Annual CO2 Emissions Including Biomass** (short tons): 394790.6**Annual CO2 Emissions from Biomass** (metric tons): 0**CEMS Details:****Operating Hours CO2 Concentration Substituted:** 0**Operating Hours Stack Gas Flow Rate Substituted:** 0**Operating Hours Stack Gas Moisture Substituted:** 0**Electricity Fuel Details:****Fuel type :** Mixed (Electric Power sector)**CH4 Emissions CO2 Equivalent** (metric tons): 79**N2O Emissions CO2 Equivalent** (metric tons): 1867

Certification Statement:

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Facility Name: Bay Shore
 Facility Identifier: 520021
 Facility Reporting Year: 2010
 Facility Location:
 Address: 4701 Bay Shore Road
 City: Oregon
 State: OH
 Postal Code: 43616

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 3917299
 CO2 Equivalent (mtons, Subparts NN-PP): 0
 Biogenic CO2 (mtons, Subparts C-HH): 0
 Cogeneration Unit Emissions Indicator: N
 GHG Report Start Date: 2010-01-01
 GHG Report End Date: 2010-12-31
 Description of Changes to Calculation Methodology:
 Description of Best Available Monitoring Methods Used:
 Part 75 Biogenic Emissions Indication: No Part 75 methods used
 Primary NAICS Code: 221112
 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp.
 Address: 76 South Main Street, Akron, OH 44308
 Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		2073.1 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0.08 (Metric Tons)		
Nitrous Oxide		0.017 (Metric Tons)		

Unit Details:

Unit Name : CT-1
Unit Type : SCCT (CT (Turbine, simple cycle combustion))
Unit Description : CT-1

Individual Unit Details:

Maximum Rated Heat Input Capacity: 284

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):
Annual Biogenic CO2 Emissions (metric tons): 0
Annual Fossil fuel based CO2 Emissions (metric tons): 27.2

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2
Tier Name : Tier 2 (Equation C-2a)
Tier Methodology Start Date : 2010-01-01
Tier Methodology End Date : 2010-12-31
Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
27.2 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0.0 (Metric Tons)

Unit Name : LDM**Unit Type :** PRH (Process Heater)**Unit Description :** LDM**Individual Unit Details:****Maximum Rated Heat Input Capacity:** 12**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 2045.9**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
2045.9 (Metric Tons)	0.08 (Metric Tons)	0.017 (Metric Tons)	2 (Metric Tons)	5 (Metric Tons)

Subpart D: Electricity Generation**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		3898160.2 (Metric Tons)		
Methane		71.33 (Metric Tons)		
Nitrous Oxide		50.196 (Metric Tons)		

Unit Details:**Unit Name :** 1**Unit Type :** Electricity Generator**Unit Description :** 1**Part 75 Methodology :** CEMS**Methodology Start Date:** 2010-01-01**Methodology End Date:** 2010-12-31**Acid Rain Program Indicator:** Y**Emission Details:****Annual CO2 Emissions Including Biomass** (metric tons): 1456327**Annual CO2 Emissions Including Biomass** (short tons): 1605309.3**Annual CO2 Emissions from Biomass** (metric tons): 0**CEMS Details:****Operating Hours CO2 Concentration Substituted:** 30**Operating Hours Stack Gas Flow Rate Substituted:** 75**Operating Hours Stack Gas Moisture Substituted:** 0**Electricity Fuel Details:****Unit Name :** CS5

Unit Type : Electricity Generator
Unit Description : CS5
Part 75 Methodology : CEMS
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 2441833.2
Annual CO2 Emissions Including Biomass (short tons): 2691632.7
Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 10
Operating Hours Stack Gas Flow Rate Substituted: 13
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type : Mixed (Electric Power sector) CH4 Emissions CO2 Equivalent (metric tons): 539 N2O Emissions CO2 Equivalent (metric tons): 12729
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Certification Statement:

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Facility Name: Richland Peaking Station

Facility Identifier: 520022

Facility Reporting Year: 2010

Facility Location:

Address: 801 Carpenter Road

City: Defiance

State: OH

Postal Code: 43512

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 60007

CO2 Equivalent (mtons, Subparts NN-PP): 0

Biogenic CO2 (mtons, Subparts C-HH): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2010-01-01

GHG Report End Date: 2010-12-31

Description of Changes to Calculation Methodology:

Description of Best Available Monitoring Methods Used:

Part 75 Biogenic Emissions Indication: No Part 75 methods used

Primary NAICS Code: 221112

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp.

Address: 76 South Main Street, Akron, OH 44308

Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		4.8 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0 (Metric Tons)		
Nitrous Oxide		0 (Metric Tons)		

Unit Details:

Unit Name : ct1

Unit Type : SCCT (CT (Turbine, simple cycle combustion))

Unit Description : CT-1

Individual Unit Details:

Maximum Rated Heat Input Capacity: 327

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 4.8

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
4.8 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : ct2**Unit Type :** SCCT (CT (Turbine, simple cycle combustion))**Unit Description :** CT-2**Individual Unit Details:****Maximum Rated Heat Input Capacity:** 327**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 0**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Monthly**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : ct3**Unit Type :** SCCT (CT (Turbine, simple cycle combustion))**Unit Description :** CT-3**Individual Unit Details:****Maximum Rated Heat Input Capacity:** 327**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 0**Tier Fuel Details:****Fuel :** Natural Gas (Weighted U.S. Average)**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Monthly**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : GPreheaters**Unit Type :** PRH (Process Heater)**Unit Description :** preheaters**Small Unit Aggregation Details:**

Highest Maximum Rated Heat Input Capacity: 0

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 0

Tier Fuel Details:

Fuel : Natural Gas (Weighted U.S. Average)

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Frequency of HHV determinations : Monthly

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		59944.7 (Metric Tons)		
Methane		1.11 (Metric Tons)		
Nitrous Oxide		0.111 (Metric Tons)		

Unit Details:

Unit Name : CTG4

Unit Type : Electricity Generator

Unit Description : CTG4

Part 75 Methodology : Appendix G, Equation G-4

Methodology Start Date: 2010-01-01

Methodology End Date: 2010-12-31

Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 20752.4

Annual CO2 Emissions Including Biomass (short tons): 22875.4

Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:

Operating Hours Fuel Flow Rate: 48

Operating Hours HHV Substitution: 0

Electricity Fuel Details:

Fuel type : Natural Gas (Weighted U.S. Average)
CH4 Emissions CO2 Equivalent (metric tons): 8
N2O Emissions CO2 Equivalent (metric tons): 12

Unit Name : CTG5

Unit Type : Electricity Generator

Unit Description : CTG5

Part 75 Methodology : Appendix G, Equation G-4

Methodology Start Date: 2010-01-01

Methodology End Date: 2010-12-31

Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 21778.9
Annual CO2 Emissions Including Biomass (short tons): 24006.9
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:

Operating Hours Fuel Flow Rate: 0

Operating Hours HHV Substitution: 0

Electricity Fuel Details:

Fuel type : Natural Gas (Weighted U.S. Average)
CH4 Emissions CO2 Equivalent (metric tons): 9
N2O Emissions CO2 Equivalent (metric tons): 13

Unit Name : CTG6

Unit Type : Electricity Generator

Unit Description : CTG6

Part 75 Methodology : Appendix G, Equation G-4

Methodology Start Date: 2010-01-01

Methodology End Date: 2010-12-31

Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 17413.4

Annual CO2 Emissions Including Biomass (short tons): 19194.8

Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:

Operating Hours Fuel Flow Rate: 0

Operating Hours HHV Substitution: 0

Electricity Fuel Details:

Fuel type : Natural Gas (Weighted U.S. Average)
CH4 Emissions CO2 Equivalent (metric tons): 7
N2O Emissions CO2 Equivalent (metric tons): 10

Certification Statement:

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Facility Name: West Lorain
 Facility Identifier: 521058
 Facility Reporting Year: 2010
 Facility Location:
 Address: 7101 West Erie Ave
 City: Lorain
 State: OH
 Postal Code: 44053

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 45936
 CO2 Equivalent (mtons, Subparts NN-PP): 0
 Biogenic CO2 (mtons, Subparts C-HH): 0
 Cogeneration Unit Emissions Indicator: N
 GHG Report Start Date: 2010-01-01
 GHG Report End Date: 2010-12-31
 Description of Changes to Calculation Methodology:
 Description of Best Available Monitoring Methods Used:
 Part 75 Biogenic Emissions Indication: No Part 75 methods used
 Primary NAICS Code: 221112
 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp.
 Address: 76 South Main Street, Akron, OH 44308
 Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		5888.7 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0.24 (Metric Tons)		
Nitrous Oxide		0.048 (Metric Tons)		

Unit Details:

Unit Name : GPreheaters
Unit Type : PRH (Process Heater)
Unit Description : preheaters

Small Unit Aggregation Details:

Highest Maximum Rated Heat Input Capacity: 5

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):
Annual Biogenic CO2 Emissions (metric tons): 0
Annual Fossil fuel based CO2 Emissions (metric tons): 0.7

Tier Fuel Details:

Fuel : Natural Gas (Weighted U.S. Average)
Tier Name : Tier 2 (Equation C-2a)
Tier Methodology Start Date : 2010-01-01
Tier Methodology End Date : 2010-12-31
Frequency of HHV determinations : Monthly

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
0.7 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)

Unit Name : CT1a**Unit Type :** SCCT (CT (Turbine, simple cycle combustion))**Unit Description :** CT-1A**Individual Unit Details:****Maximum Rated Heat Input Capacity:** 811**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 2845.2**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
2845.2 (Metric Tons)	0.12 (Metric Tons)	0.023 (Metric Tons)	2 (Metric Tons)	7 (Metric Tons)

Unit Name : CT1B**Unit Type :** SCCT (CT (Turbine, simple cycle combustion))**Unit Description :** CT-1B**Individual Unit Details:****Maximum Rated Heat Input Capacity:** 811**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 3042.8**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
3042.8 (Metric Tons)	0.12 (Metric Tons)	0.025 (Metric Tons)	3 (Metric Tons)	10 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		39988.8 (Metric Tons)		
Methane		0.74 (Metric Tons)		
Nitrous Oxide		0.074 (Metric Tons)		

Unit Details:

Unit Name : 2
Unit Type : Electricity Generator
Unit Description : 2
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 7964.9
Annual CO2 Emissions Including Biomass (short tons): 8779.7
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:

Operating Hours Fuel Flow Rate: 0
Operating Hours HHV Substitution: 0

Electricity Fuel Details:

Fuel type : Natural Gas (Weighted U.S. Average) CH4 Emissions CO2 Equivalent (metric tons): 3 N2O Emissions CO2 Equivalent (metric tons): 5
--

Fuel type : Distillate Fuel Oil No. 2 CH4 Emissions CO2 Equivalent (metric tons): 0 N2O Emissions CO2 Equivalent (metric tons): 0
--

Unit Name : 3
Unit Type : Electricity Generator
Unit Description : 3
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 7527.8
Annual CO2 Emissions Including Biomass (short tons): 8297.9
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:

Operating Hours Fuel Flow Rate: 0
Operating Hours HHV Substitution: 0

Electricity Fuel Details:

Fuel type : Distillate Fuel Oil No. 2 CH4 Emissions CO2 Equivalent (metric tons): 0 N2O Emissions CO2 Equivalent (metric tons): 0
--

Fuel type : Natural Gas (Weighted U.S. Average) CH4 Emissions CO2 Equivalent (metric tons): 3 N2O Emissions CO2 Equivalent (metric tons): 4
--

Unit Name : 4
Unit Type : Electricity Generator
Unit Description : 4
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 2010-01-01

Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 7611.3
Annual CO2 Emissions Including Biomass (short tons): 8389.9
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:

Operating Hours Fuel Flow Rate: 0
Operating Hours HHV Substitution: 0

Electricity Fuel Details:

Fuel type : Distillate Fuel Oil No. 2
CH4 Emissions CO2 Equivalent (metric tons): 0
N2O Emissions CO2 Equivalent (metric tons): 0

Fuel type : Natural Gas (Weighted U.S. Average)
CH4 Emissions CO2 Equivalent (metric tons): 3
N2O Emissions CO2 Equivalent (metric tons): 4

Unit Name : 5
Unit Type : Electricity Generator
Unit Description : 5
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 8101.1
Annual CO2 Emissions Including Biomass (short tons): 8929.8
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:

Operating Hours Fuel Flow Rate: 0
Operating Hours HHV Substitution: 0

Electricity Fuel Details:

Fuel type : Distillate Fuel Oil No. 2
CH4 Emissions CO2 Equivalent (metric tons): 0
N2O Emissions CO2 Equivalent (metric tons): 0

Fuel type : Natural Gas (Weighted U.S. Average)
CH4 Emissions CO2 Equivalent (metric tons): 3
N2O Emissions CO2 Equivalent (metric tons): 5

Unit Name : 6
Unit Type : Electricity Generator
Unit Description : 6
Part 75 Methodology : Appendix G, Equation G-4
Methodology Start Date: 2010-01-01
Methodology End Date: 2010-12-31
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 8783.7
Annual CO2 Emissions Including Biomass (short tons): 9682.3
Annual CO2 Emissions from Biomass (metric tons): 0

Appendix G Equation G4:

Operating Hours Fuel Flow Rate: 0
Operating Hours HHV Substitution: 0

Electricity Fuel Details:

Fuel type : Distillate Fuel Oil No. 2
CH4 Emissions CO2 Equivalent (metric tons): 0
N2O Emissions CO2 Equivalent (metric tons): 0

Fuel type : Natural Gas (Weighted U.S. Average)
CH4 Emissions CO2 Equivalent (metric tons): 3
N2O Emissions CO2 Equivalent (metric tons): 5

Certification Statement:

The designated representative or alternate designated representative must sign (i.e., agree to) this certification statement. If you are an agent and you click on "SUBMIT", you are not agreeing to the certification statement, but are submitting the certification statement on behalf of the designated representative or alternate designated representative who is agreeing to the certification statement. An agent is only authorized to make the electronic submission on behalf of the designated representative, not to sign (i.e., agree to) the certification statement.

Facility Name: Mad River

Facility Identifier: 521177

Facility Reporting Year: 2010

Facility Location:

Address: 2341 West National Road Route 40

City: Springfield

State: OH

Postal Code: 45504

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-HH): 682

CO2 Equivalent (mtons, Subparts NN-PP): 0

Biogenic CO2 (mtons, Subparts C-HH): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2010-01-01

GHG Report End Date: 2010-12-31

Description of Changes to Calculation Methodology:

Description of Best Available Monitoring Methods Used:

Part 75 Biogenic Emissions Indication: No Part 75 methods used

Primary NAICS Code: 221112

Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation Corp

Address: 76 South Main Street, Akron, OH 44308

Percent Ownership Interest: 100

Subpart C: General Stationary Fuel Combustion**Gas Information Details**

Gas Name	Other Gas Name	Gas Quantity	Override	Override Explanation
Carbon Dioxide		679.7 (Metric Tons)		
Biogenic Carbon dioxide		0 (Metric Tons)		
Methane		0.03 (Metric Tons)		
Nitrous Oxide		0.005 (Metric Tons)		

Unit Details:

Unit Name : cta

Unit Type : OB (Boiler, other)

Unit Description : CTA

Individual Unit Details:

Maximum Rated Heat Input Capacity: 356

Emission Details:

Annual Sorbent based CO2 Emissions (metric tons):

Annual Biogenic CO2 Emissions (metric tons): 0

Annual Fossil fuel based CO2 Emissions (metric tons): 252.5

Tier Fuel Details:

Fuel : Distillate Fuel Oil No. 2

Tier Name : Tier 2 (Equation C-2a)

Tier Methodology Start Date : 2010-01-01

Tier Methodology End Date : 2010-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
252.5 (Metric Tons)	0.01 (Metric Tons)	0.002 (Metric Tons)	0 (Metric Tons)	1 (Metric Tons)

Unit Name : ctb**Unit Type :** OB (Boiler, other)**Unit Description :** CTB**Individual Unit Details:****Maximum Rated Heat Input Capacity:** 356**Emission Details:****Annual Sorbent based CO2 Emissions** (metric tons):**Annual Biogenic CO2 Emissions** (metric tons): 0**Annual Fossil fuel based CO2 Emissions** (metric tons): 427.2**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2**Tier Name :** Tier 2 (Equation C-2a)**Tier Methodology Start Date :** 2010-01-01**Tier Methodology End Date :** 2010-12-31**Frequency of HHV determinations :** Once per fuel lot**Tier 2 Monthly HHV Details :**

January	February	March	April	May	June	July	August	September	October	November	December
N	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
427.2 (Metric Tons)	0.02 (Metric Tons)	0.003 (Metric Tons)	0 (Metric Tons)	1 (Metric Tons)

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

12/20/2011 10:40:04 AM

in

Case No(s). 11-5986-EL-UNC

Summary: Notice of Filing Federal Greenhouse Gas Reports electronically filed by Ms. Laura C. McBride on behalf of FirstEnergy Generation Corp.