BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

FirstEnergy Generation, LLC's)	
Notice of Filing Greenhouse Gas Reports)	Case No. 13-0916-EL-UNC
)	

On March 16, 2011, the Commission granted FirstEnergy Generation, LLC (formerly 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 2012 reports for FirstEnergy's Ohio facilities, as reported under the U.S. Environmental Protection Agency's Greenhouse Gas Mandatory Reporting Rule.

Respectfully submitted,

/s/ Scott J. Casto

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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: 2012

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-II and RR-UU): 392233

CO2 Equivalent (mtons, Subparts LL-QQ): 0

Biogenic CO2 (mtons, Subparts C-II and RR-UU): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2012-01-01 GHG Report End Date: 2012-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Primary NAICS Code: 221112 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation, LLC 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	Own Result?
Carbon Dioxide		69445.7 (Metric Tons)	
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		1.31 (Metric Tons)	
Nitrous Oxide		0.131 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 69445.7 (metric tons)

Tier Fuel Details:

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

Tier Name: Tier 1 (Equation C-1)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Fuel Emission Details:

		Total N2O emissions	emissions	Total N2O emissions CO2e	
69445.7	1.31 (Metric	0.131 (Metric	27.5 (Metric	40.6 (Metric	
(Metric Tons)	Tons)	Tons)	Tons)	Tons)	

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Carbon Dioxide		320975 (Metric Tons)	
Methane		3.37 (Metric Tons)	
Nitrous Oxide		5.398 (Metric Tons)	

Unit Details:

Unit Name: 7

Unit Type: Electricity Generator

Unit Description: 7

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 320975 **Annual CO2 Emissions Including Biomass** (short tons): 353810.7

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 52 Operating Hours Stack Gas Flow Rate Substituted: 6 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 3373490 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 3.37 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 5.398

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 70.8 (Metric Tons) N₂O Emissions CO₂ Equivalent: 1673.4 (Metric Tons)

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Facility Name: Bay Shore Facility Identifier: 520021 Facility Reporting Year: 2012

Facility Location:

Address: 4701 Bay Shore Road

City: Oregon State: OH

Postal Code: 43616

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-II and RR-UU): 1799146.7

CO2 Equivalent (mtons, Subparts LL-QQ): 0

Biogenic CO2 (mtons, Subparts C-II and RR-UU): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2012-01-01 GHG Report End Date: 2012-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Primary NAICS Code: 221112 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation, LLC 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	Own Result?
Carbon Dioxide		2417.3 (Metric Tons)	
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.09 (Metric Tons)	
Nitrous Oxide		0.02 (Metric Tons)	

Unit Details:

Unit Name: CT-1

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

Unit Description: CT-1
<u>Individual Unit Details:</u>

Maximum Rated Heat Input Capacity: 284 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 95.8 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details:

		Total N20 emissions	emissions	Total N2O emissions CO2e	
95.8 (Metric Tons)	0 (Metric Tons)	0.001 (Metric Tons)	0.1 (Metric Tons)	0.2 (Metric Tons)	

Unit Name: LDM

Unit Type: PRH (Process Heater)

Unit Description : LDM Individual Unit Details:

Maximum Rated Heat Input Capacity: 12 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 2321.5 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 Tier Methodology End Date: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details:

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	Ν	N

Fuel Emission Details:

		emissions		Total N2O emissions CO2e
2321.5 (Metric Tons)	0.09 (Metric Tons)	0.019 (Metric Tons)	2 (Metric Tons)	5.8 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Carbon Dioxide		1790727 (Metric Tons)	
Methane		46.33 (Metric Tons)	
Nitrous Oxide		16.198 (Metric Tons)	

Unit Details:

Unit Name: 1

Unit Type: Electricity Generator

Unit Description: 1

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 1319673.7 Annual CO2 Emissions Including Biomass (short tons): 1454676.3

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 16 Operating Hours Stack Gas Flow Rate Substituted: 3 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Petroleum Coke

Annual heat input: 13794941 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 41.38

(Metric Tons)

Annual N₂O emissions from combustion of the specified fuel: 8.277

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 869 (Metric Tons) N₂O Emissions CO₂ Equivalent: 2565.9 (Metric Tons)

Fuel type: Subbituminous

Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons)

Unit Name: CS5

Unit Type: Electricity Generator

Unit Description: CS5

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01

Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 471053.3 Annual CO2 Emissions Including Biomass (short tons): 519242 Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 11 Operating Hours Stack Gas Flow Rate Substituted: 0 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 4950825 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 4.95 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 7.921

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 104 (Metric Tons) N₂O Emissions CO₂ Equivalent: 2455.5 (Metric Tons)

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Facility Name: R E Burger Facility Identifier: 520015 Facility Reporting Year: 2012

Facility Location:

Address: 57246 Ferry Landing Road

City: Shadyside State: OH

Postal Code: 43947

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-II and RR-UU): 131

CO2 Equivalent (mtons, Subparts LL-QQ): 0

Biogenic CO2 (mtons, Subparts C-II and RR-UU): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2012-01-01 GHG Report End Date: 2012-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Primary NAICS Code: 221112 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation, LLC 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	Own Result?
Carbon Dioxide		130.7 (Metric Tons)	
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 18.4 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details:

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

	Total CH4 emissions	Total N20 emissions	emissions	Total N2O emissions CO2e
18.4 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 18.7 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2

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

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	Nove
Ν	Ν	N	N	N	Ν	N	N	N	Ν	N

Fuel Emission Details :

Total CO2 emissions	Total CH4 emissions	Total N20 emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
18.7 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 18.7 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details:

Januar	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details:

1.010.00	Total CH4 emissions	Total N2O	emissions	Total N2O emissions CO2e
18.7 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 74.9 (metric tons)

Tier Fuel Details:

Fuel: Kerosene

Tier Name: Tier 1 (Equation C-1)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Fuel Emission Details :

Total CO2 emissions		Total N2O emissions	emissions	Total N2O emissions CO2e
74.9 (Metric Tons)	0 (Metric Tons)	0.001 (Metric Tons)	0.1 (Metric Tons)	0.2 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Carbon Dioxide		0 (Metric Tons)	
Methane		0 (Metric Tons)	
Nitrous Oxide		0 (Metric Tons)	

Unit Details:

Unit Name: CS0001

Unit Type: Electricity Generator Unit Description: CS0001 Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

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

Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons)

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Facility Name: Eastlake Facility Identifier: 520004 Facility Reporting Year: 2012

Facility Location:

Address: 10 Erie Road

City: Eastlake State: OH

Postal Code: 44095

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-II and RR-UU): 4195681.1

CO2 Equivalent (mtons, Subparts LL-QQ): 0

Biogenic CO2 (mtons, Subparts C-II and RR-UU): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2012-01-01 GHG Report End Date: 2012-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Primary NAICS Code: 221112 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation, LLC 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	Own Result?
Carbon Dioxide		811.4 (Metric Tons)	
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.03 (Metric Tons)	
Nitrous Oxide		0.007 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 811.4 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 Tier Methodology End Date: 2012-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

	Total CH4 emissions	emissions	emissions	Total N2O emissions CO2e
811.4 (Metric Tons)	0.03 (Metric Tons)	0.007 (Metric Tons)	0.7 (Metric Tons)	2 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Carbon Dioxide		4172196.7 (Metric Tons)	
Methane		43.84 (Metric Tons)	
Nitrous Oxide		70.16 (Metric Tons)	

Unit Details:

Unit Name: 1

Unit Type: Electricity Generator

Unit Description: 1

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 469857.6 **Annual CO2 Emissions Including Biomass** (short tons): 517924

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 113 Operating Hours Stack Gas Flow Rate Substituted: 4 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 4938261 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 4.94 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 7.901

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 103.7 (Metric Tons) N₂O Emissions CO₂ Equivalent: 2449.3 (Metric Tons)

Unit Name: 2

Unit Type: Electricity Generator

Unit Description: 2

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 394019.5 Annual CO2 Emissions Including Biomass (short tons): 434327.7

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 124 Operating Hours Stack Gas Flow Rate Substituted: 19 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 4141191 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 4.14 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 6.626

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 86.9 (Metric Tons) N₂O Emissions CO₂ Equivalent: 2054.1 (Metric Tons)

Unit Name: 3

Unit Type: Electricity Generator

Unit Description: 3

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 422886.6 Annual CO2 Emissions Including Biomass (short tons): 466147.9

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 171 Operating Hours Stack Gas Flow Rate Substituted: 15 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 4444571 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 4.44 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 7.111

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 93.2 (Metric Tons) N₂O Emissions CO₂ Equivalent: 2204.4 (Metric Tons)

Unit Name: 4

Unit Type: Electricity Generator

Unit Description: 4

Part 75 Methodology : CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 606396.7 Annual CO2 Emissions Including Biomass (short tons): 668431.1

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 134 Operating Hours Stack Gas Flow Rate Substituted: 13 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 6373292 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 6.37 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 10.197

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 133.8 (Metric Tons) N₂O Emissions CO₂ Equivalent: 3161.1 (Metric Tons)

Unit Name: 5

Unit Type: Electricity Generator

Unit Description: 5

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 2279036.3 Annual CO2 Emissions Including Biomass (short tons): 2512181.7

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 80 Operating Hours Stack Gas Flow Rate Substituted: 5 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 23952910 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 23.95

(Metric Tons)

Annual N₂O emissions from combustion of the specified fuel: 38.325

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 503 (Metric Tons)
N₂O Emissions CO₂ Equivalent: 11880.8 (Metric Tons)

Certification Statement:

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Facility Name: Lake Shore Facility Identifier: 520005 Facility Reporting Year: 2012

Facility Location:

Address: 205 Willis Street

City: Cleveland State: OH

Postal Code: 44103

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-II and RR-UU): 218318.3

CO2 Equivalent (mtons, Subparts LL-QQ): 0

Biogenic CO2 (mtons, Subparts C-II and RR-UU): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2012-01-01 GHG Report End Date: 2012-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Primary NAICS Code: 221112 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation, LLC 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	Own Result?
Carbon Dioxide		327.1 (Metric Tons)	
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.01 (Metric Tons)	
Nitrous Oxide		0.002 (Metric Tons)	

Unit Details:

Unit Name: D1

Unit Type: OB (Boiler, other)

Unit Description: D1

Individual Unit Details:

Maximum Rated Heat Input Capacity: 19 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 19.3 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details :

	January	February	March	April	May	June	July	August	September	October	Nove
Ī	N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details:

Total CO2 emissions	Total CH4 emissions	emissions	emissions	Total N2O emissions CO2e	
19.3 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 19.3 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details:

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	Ν	N

Fuel Emission Details:

Total CO2 emissions	1	Total N2O emissions	emissions	Total N2O emissions CO2e	
19.3 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 288.5 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details:

Total CO2 emissions	nissions emissions		emissions	Total N2O emissions CO2e	
288.5 (Metric Tons)	0.01 (Metric Tons)	0.002 (Metric Tons)	0.3 (Metric Tons)	0.7 (Metric Tons)	

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Carbon Dioxide		216812.2 (Metric Tons)	
Methane		2.28 (Metric Tons)	
Nitrous Oxide		3.646 (Metric Tons)	

Unit Details:

Unit Name: 18

Unit Type: Electricity Generator

Unit Description: 18

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 216812.2 Annual CO2 Emissions Including Biomass (short tons): 238992.1

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 13 Operating Hours Stack Gas Flow Rate Substituted: 5 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 2278738 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 2.28 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 3.646

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 47.9 (Metric Tons) N₂O Emissions CO₂ Equivalent: 1130.3 (Metric Tons)

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: 2012

Facility Location:

Address: State Route 7

City: Stratton State: OH

Postal Code: 43961

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-II and RR-UU): 8546671.4

CO2 Equivalent (mtons, Subparts LL-QQ): 0

Biogenic CO2 (mtons, Subparts C-II and RR-UU): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2012-01-01 GHG Report End Date: 2012-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Primary NAICS Code: 221112 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation, LLC 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	Own Result?
Carbon Dioxide		253.6 (Metric Tons)	
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0 (Metric Tons)	
Nitrous Oxide		0 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 55 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

Januar	y February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

		Total N2O emissions	emissions	Total N2O emissions CO2e	
55 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0.1 (Metric Tons)	0.1 (Metric Tons)	

Unit Name: EMDB1

Unit Type: OCS (Other combustion source)

Unit Description: EMD_B1

Other Unit Name:

Individual Unit Details:

Maximum Rated Heat Input Capacity: 26 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 53.1 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	Nove
N	N	Ν	Ν	Ν	N	Ν	Ν	N	N	N

Fuel Emission Details:

Total CO2 emissions	Total CH4 emissions	Total N20 emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
53.1 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0.1 (Metric Tons)	0.1 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 52.6 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details:

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details:

	Total CH4 emissions	Total N2O	emissions	Total N2O emissions CO2e
52.6 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0.1 (Metric Tons)

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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 51.9 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations : Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details :

	Total CH4 emissions	Total N20 emissions	emissions	Total N2O emissions CO2e
51.9 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0.1 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 41 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details:

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details:

		Total N2O emissions	emissions	Total N2O emissions CO2e
41 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0 (Metric Tons)	0.1 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Carbon Dioxide		8500229.9 (Metric Tons)	
Methane		89.34 (Metric Tons)	
Nitrous Oxide		142.941 (Metric Tons)	

Unit Details:

Unit Name: CSA

Unit Type: Electricity Generator

Unit Description: CSA

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01

Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 3226648.7 Annual CO2 Emissions Including Biomass (short tons): 3556734.9

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 44
Operating Hours Stack Gas Flow Rate Substituted: 4
Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 33912404 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 33.91

(Metric Tons)

Annual N₂O emissions from combustion of the specified fuel: 54.26

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 712.1 (Metric Tons) N₂O Emissions CO₂ Equivalent: 16820.6 (Metric Tons)

Unit Name: CSB

Unit Type: Electricity Generator

Unit Description: CSB

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 2949189 Annual CO2 Emissions Including Biomass (short tons): 3250891

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 33 Operating Hours Stack Gas Flow Rate Substituted: 2 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 30996319 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 31 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 49.594

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 651 (Metric Tons) N₂O Emissions CO₂ Equivalent: 15374.1 (Metric Tons)

Unit Name: CSC

Unit Type: Electricity Generator

Unit Description : CSC

Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 2324392.2 Annual CO2 Emissions Including Biomass (short tons): 2562177.5

Annual CO2 Emissions from Biomass (metric tons): 0

CEMS Details:

Operating Hours CO2 Concentration Substituted: 56 Operating Hours Stack Gas Flow Rate Substituted: 0 Operating Hours Stack Gas Moisture Substituted: 0

Electricity Fuel Details:

Fuel type: Mixed (Electric Power sector)
Annual heat input: 24429674 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 24.43

(Metric Tons)

Annual N₂O emissions from combustion of the specified fuel: 39.087

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 513 (Metric Tons) N₂O Emissions CO₂ Equivalent: 12117 (Metric Tons)

Unit Name: CS0001

Unit Type: Electricity Generator Unit Description: CS0001 Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

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

Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons) Unit Name: CS0002

Unit Type : Electricity Generator Unit Description : CS0002 Part 75 Methodology : CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

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

Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons)

Unit Name: Unit 7

Unit Type: Electricity Generator

Unit Description: Unit 7
Part 75 Methodology: CEMS

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

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

Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons)

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: West Lorain Facility Identifier: 521058 Facility Reporting Year: 2012

Facility Location:

Address: 7101 West Erie Ave

City: Lorain State: OH

Postal Code: 44053

Facility Site Details:

CO2 Equivalent (excluding biogenic, mtons, Subparts C-II and RR-UU): 141592.2

CO2 Equivalent (mtons, Subparts LL-QQ): 0

Biogenic CO2 (mtons, Subparts C-II and RR-UU): 0

Cogeneration Unit Emissions Indicator: N

GHG Report Start Date: 2012-01-01 GHG Report End Date: 2012-12-31

Description of Changes to Calculation Methodology:

Part 75 Biogenic Emissions Indication:

Primary NAICS Code: 221112 Second Primary NAICS Code:

Parent Company Details:

Parent Company Name: FirstEnergy Generation, LLC 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	Own Result?
Carbon Dioxide		1999.4 (Metric Tons)	
Biogenic Carbon dioxide		0 (Metric Tons)	
Methane		0.08 (Metric Tons)	
Nitrous Oxide		0.017 (Metric Tons)	

Unit Details:

Unit Name : GPpreheaters

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

Small Unit Aggregation Details:

Highest Maximum Rated Heat Input Capacity: 5

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

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

Tier Fuel Details:

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

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

Tier Methodology Start Date: 2012-01-01 Tier Methodology End Date: 2012-12-31 Frequency of HHV determinations: Monthly

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details:

		Total N2O emissions	emissions	Total N2O emissions CO2e
0 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 945.2 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details:

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	Ν	N

Fuel Emission Details:

		emissions	emissions	Total N2O emissions CO2e
945.2 (Metric Tons)	0.04 (Metric Tons)	0.008 (Metric Tons)	0.8 (Metric Tons)	2.4 (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 (mmBtu/hr)

Emission Details:

Annual Biogenic CO2 Emissions: 0 (metric tons)

Annual Fossil fuel based CO2 Emissions: 1054.2 (metric tons)

Tier Fuel Details:

Fuel: Distillate Fuel Oil No. 2 Tier Name: Tier 2 (Equation C-2a)

Tier Methodology Start Date: 2012-01-01 **Tier Methodology End Date**: 2012-12-31

Frequency of HHV determinations: Once per fuel lot

Tier 2 Monthly HHV Details :

January	February	March	April	May	June	July	August	September	October	Nove
N	N	N	N	N	N	N	N	N	N	N

Fuel Emission Details:

		Total N2O emissions	emissions	Total N2O emissions CO2e
1054.2 (Metric Tons)	0.04 (Metric Tons)	0.009 (Metric Tons)	0.9 (Metric Tons)	2.7 (Metric Tons)

Subpart D: Electricity Generation

Gas Information Details

Gas Name	Other Gas Name	Gas Quantity	Own Result?
Carbon Dioxide		139451.2 (Metric Tons)	
Methane		2.59 (Metric Tons)	
Nitrous Oxide		0.259 (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: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 28042.8 Annual CO2 Emissions Including Biomass (short tons): 30911.6

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)

Annual heat input: 520065 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0.52 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0.052

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 10.9 (Metric Tons) N₂O Emissions CO₂ Equivalent: 16.1 (Metric Tons)

Fuel type: Distillate Fuel Oil No. 2
Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons)

Unit Name: 3

Unit Type: Electricity Generator

Unit Description: 3

Part 75 Methodology: Appendix G, Equation G-4

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 26718.3 Annual CO2 Emissions Including Biomass (short tons): 29451.6

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
Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons)

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

Annual heat input: 495595 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0.5 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0.05 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 10.5 (Metric Tons) N₂O Emissions CO₂ Equivalent: 15.5 (Metric Tons)

Unit Name: 4

Unit Type: Electricity Generator

Unit Description: 4

Part 75 Methodology: Appendix G, Equation G-4

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 28269.3 Annual CO2 Emissions Including Biomass (short tons): 31161.2

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
Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons)

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

Annual heat input: 524331 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0.52 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0.052

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 10.9 (Metric Tons) N₂O Emissions CO₂ Equivalent: 16.1 (Metric Tons)

Unit Name: 5

Unit Type: Electricity Generator

Unit Description: 5

Part 75 Methodology: Appendix G, Equation G-4

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 27896.2 Annual CO2 Emissions Including Biomass (short tons): 30750

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 Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons)

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

Annual heat input: 517419 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0.52 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0.052

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 10.9 (Metric Tons) N₂O Emissions CO₂ Equivalent: 16.1 (Metric Tons)

Unit Name: 6

Unit Type: Electricity Generator

Unit Description: 6

Part 75 Methodology: Appendix G, Equation G-4

Methodology Start Date: 2012-01-01 Methodology End Date: 2012-12-31 Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 28524.6 Annual CO2 Emissions Including Biomass (short tons): 31442.7

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: Distillate Fuel Oil No. 2
Annual heat input: 0 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0 (Metric

Tons)

CH₄ Emissions CO₂ Equivalent: 0 (Metric Tons) N₂O Emissions CO₂ Equivalent: 0 (Metric Tons)

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

Annual heat input: 529095 (mmBtu)

Annual CH₄ emissions from combustion of the specified fuel: 0.53 (Metric

Tons)

Annual N₂O emissions from combustion of the specified fuel: 0.053

(Metric Tons)

CH₄ Emissions CO₂ Equivalent: 11.1 (Metric Tons) N₂O Emissions CO₂ Equivalent: 16.4 (Metric Tons) This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 13-0916-EL-UNC

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