

The Dayton Power and Light Company's ) Case No. 17-0802-EL-ECP  
Notice of Filing Greenhouse Gas Report )  
)

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**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:** Montpelier Electric Gen Station  
**Facility Identifier:** 520812  
**Facility Reporting Year:** 2016  
**Facility Location:**  
Address: 8495 SOUTH 450 WEST  
City: PONETO  
State: IN  
Postal Code: 46781

**Facility Site Details:**

**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 109681.7  
**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0  
**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0  
**Cogeneration Unit Emissions Indicator:** N  
**GHG Report Start Date:** 2016-01-01  
**GHG Report End Date:** 2016-12-31  
**Description of Changes to Calculation Methodology:**  
**Part 75 Biogenic Emissions Indication:**  
**Plant Code Indicator:** Y  
**Primary NAICS Code:** 221112  
**Second Primary NAICS Code:**

**Parent Company Details:**

**Parent Company Name:** THE DAYTON POWER & LIGHT CO  
**Address:** 1065 Woodman Drive, Dayton, OH 45432  
**Percent Ownership Interest:** 100

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

Gas Name	Other Gas Name	Other Gas GHG Group	Gas Quantity	Own Result?
Biogenic Carbon dioxide			0 (Metric Tons)	
Methane			2.05 (Metric Tons)	
Nitrous Oxide			0.205 (Metric Tons)	
Carbon Dioxide			109569.4 (Metric Tons)	

**Unit Details:**

**Unit Name :** G3CT1  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31

Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 11338.3  
Annual CO2 Emissions Including Biomass (short tons): 12498.2  
Annual CO2 Emissions from Biomass (metric tons): 0

Electricity Fuel Details:

Fuel type:	Natural Gas (Weighted U.S. Average)
Annual heat input:	211880 (mmBtu)
CH <sub>4</sub> Emissions CO <sub>2</sub> Equivalent:	5.3 (Metric Tons)
N <sub>2</sub> O Emissions CO <sub>2</sub> Equivalent:	6.3 (Metric Tons)

Unit Name : G2CT1  
Unit Type : Electricity Generator  
Unit Description :  
Plant Code : (numeric, maximum of 6 digits)  
Part 75 Methodology : LME (\$75.19(c)(4)(iii))  
Methodology Start Date: 2016-01-01  
Methodology End Date: 2016-12-31  
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 10761.5  
Annual CO2 Emissions Including Biomass (short tons): 11862.4  
Annual CO2 Emissions from Biomass (metric tons): 0

Electricity Fuel Details:

Fuel type:	Natural Gas (Weighted U.S. Average)
Annual heat input:	200987 (mmBtu)
CH <sub>4</sub> Emissions CO <sub>2</sub> Equivalent:	5.0 (Metric Tons)
N <sub>2</sub> O Emissions CO <sub>2</sub> Equivalent:	6.0 (Metric Tons)

Unit Name : G3CT2  
Unit Type : Electricity Generator  
Unit Description :  
Plant Code : (numeric, maximum of 6 digits)  
Part 75 Methodology : LME (\$75.19(c)(4)(iii))  
Methodology Start Date: 2016-01-01  
Methodology End Date: 2016-12-31  
Acid Rain Program Indicator: Y

Emission Details:

Annual CO2 Emissions Including Biomass (metric tons): 19800.4  
Annual CO2 Emissions Including Biomass (short tons): 21826  
Annual CO2 Emissions from Biomass (metric tons): 0

Electricity Fuel Details:

Fuel type:	Natural Gas (Weighted U.S. Average)
Annual heat input:	370019 (mmBtu)
CH <sub>4</sub> Emissions CO <sub>2</sub> Equivalent:	9.3 (Metric Tons)
N <sub>2</sub> O Emissions CO <sub>2</sub> Equivalent:	11.0 (Metric Tons)

**Unit Name :** G2CT2  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**  
**Annual CO2 Emissions Including Biomass** (metric tons): 18561.8  
**Annual CO2 Emissions Including Biomass** (short tons): 20460.7  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b> Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b> 347023 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 8.7 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 10.3 (Metric Tons)

**Unit Name :** G1CT2  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**  
**Annual CO2 Emissions Including Biomass** (metric tons): 5871.1  
**Annual CO2 Emissions Including Biomass** (short tons): 6471.7  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b> Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b> 109748 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 2.7 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 3.3 (Metric Tons)

**Unit Name :** G4CT1  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**  
**Annual CO2 Emissions Including Biomass** (metric tons): 12544.4  
**Annual CO2 Emissions Including Biomass** (short tons): 13827.7  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b>	Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b>	234673 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b>	5.9 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b>	7.0 (Metric Tons)

**Unit Name :** G4CT2  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 17484  
**Annual CO2 Emissions Including Biomass** (short tons): 19272.6  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b>	Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b>	326786 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b>	8.2 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b>	9.7 (Metric Tons)

**Unit Name :** G1CT1  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 13207.9  
**Annual CO2 Emissions Including Biomass** (short tons): 14559.1  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b>	Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b>	246848 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b>	6.2 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b>	7.4 (Metric Tons)

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**Facility Name:** Frank M Tait Station  
**Facility Identifier:** 520009  
**Facility Reporting Year:** 2016  
**Facility Location:**  
Address: 2102 ARBOR BLVD  
City: MORaine  
State: OH  
Postal Code: 45439

**Facility Site Details:**

**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 120722.6  
**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0  
**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0  
**Cogeneration Unit Emissions Indicator:** N  
**GHG Report Start Date:** 2016-01-01  
**GHG Report End Date:** 2016-12-31  
**Description of Changes to Calculation Methodology:**  
**Part 75 Biogenic Emissions Indication:**  
**Plant Code Indicator:** Y  
**Primary NAICS Code:** 221112  
**Second Primary NAICS Code:**

**Parent Company Details:**

**Parent Company Name:** THE DAYTON POWER & LIGHT CO  
**Address:** 2101 Arbor Blvd., Dayton, OH 45439  
**Percent Ownership Interest:** 100

**Subpart C: General Stationary Fuel Combustion**

**Gas Information Details**

Gas Name	Other Gas Name	Other Gas GHG Group	Gas Quantity	Own Result?
Biogenic Carbon dioxide			0 (Metric Tons)	
Methane			0 (Metric Tons)	
Nitrous Oxide			0 (Metric Tons)	
Carbon Dioxide			53.4 (Metric Tons)	

**Unit Details:**

**Unit Name :** GP-1  
**Unit Type :** OCS (Other combustion source)  
**Unit Description :** Four diesel generators  
**Other Unit Name :**  
**Small Unit Aggregation Details:**  
**Use Ivt Indicator:** N  
**Highest Maximum Rated Heat Input Capacity:** 30

**Emission Details:**

**Annual CO2 mass emissions from sorbent:** 0 (Metric Tons)  
**Annual Biogenic CO2 Emissions:** (metric tons)

**Annual Fossil fuel based CO2 Emissions:** 53.0 (metric tons)

**Tier Fuel Details:**

**Fuel :** Distillate Fuel Oil No. 2  
**Tier Name :** Tier 1 (Equation C-1)  
**Tier Methodology Start Date :** 2016-01-01  
**Tier Methodology End Date :** 2016-12-31

**Fuel Emission Details :**

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
53.4 (Metric Tons)	0.00 (Metric Tons)	0.000 (Metric Tons)	0.1 (Metric Tons)	0.1 (Metric Tons)

**Equation C1/C8 Inputs :**  
**Fuel Quantity :** 5236 (gallons/year)

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

Gas Name	Other Gas Name	Other Gas GHG Group	Gas Quantity	Own Result?
Biogenic Carbon dioxide			0 (Metric Tons)	
Methane			2.31 (Metric Tons)	
Nitrous Oxide			0.243 (Metric Tons)	
Carbon Dioxide			120539 (Metric Tons)	

**Unit Details:**

**Unit Name :** 1  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 24357.3  
**Annual CO2 Emissions Including Biomass** (short tons): 26849.1  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b> Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b> 440885 (mmBtu)
<b>CH4 Emissions CO2 Equivalent:</b> 11.0 (Metric Tons)
<b>N2O Emissions CO2 Equivalent:</b> 13.1 (Metric Tons)

<b>Fuel type:</b> Distillate Fuel Oil No. 2
<b>Annual heat input:</b> 9849 (mmBtu)
<b>CH4 Emissions CO2 Equivalent:</b> 0.7 (Metric Tons)
<b>N2O Emissions CO2 Equivalent:</b> 1.8 (Metric Tons)

**Unit Name :** 2  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**  
**Annual CO2 Emissions Including Biomass** (metric tons): 23235.2  
**Annual CO2 Emissions Including Biomass** (short tons): 25612.2  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b> Natural Gas (Weighted U.S. Average) <b>Annual heat input:</b> 412686 (mmBtu) <b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 10.3 (Metric Tons) <b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 12.3 (Metric Tons)
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<b>Fuel type:</b> Distillate Fuel Oil No. 2 <b>Annual heat input:</b> 16096 (mmBtu) <b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 1.2 (Metric Tons) <b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 2.9 (Metric Tons)
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**Unit Name :** 3  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**  
**Annual CO2 Emissions Including Biomass** (metric tons): 72946.5  
**Annual CO2 Emissions Including Biomass** (short tons): 80408.9  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b> Natural Gas (Weighted U.S. Average) <b>Annual heat input:</b> 1347924 (mmBtu) <b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 33.7 (Metric Tons) <b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 40.2 (Metric Tons)
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<b>Fuel type:</b> Distillate Fuel Oil No. 2 <b>Annual heat input:</b> 11523 (mmBtu) <b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 0.9 (Metric Tons) <b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 2.1 (Metric Tons)
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**Facility Name:** Tait Electric Generating Station  
**Facility Identifier:** 520827  
**Facility Reporting Year:** 2016  
**Facility Location:**  
Address: 2101 ARBOR BOULEVARD  
City: DAYTON  
State: OH  
Postal Code: 45439

**Facility Site Details:**

**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 284115.6  
**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0  
**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0  
**Cogeneration Unit Emissions Indicator:** N  
**GHG Report Start Date:** 2016-01-01  
**GHG Report End Date:** 2016-12-31  
**Description of Changes to Calculation Methodology:**  
**Part 75 Biogenic Emissions Indication:**  
**Plant Code Indicator:** Y  
**Primary NAICS Code:** 221112  
**Second Primary NAICS Code:**

**Parent Company Details:**

**Parent Company Name:** THE DAYTON POWER & LIGHT CO  
**Address:** 1065 Woodman Drive, Dayton, OH 45432  
**Percent Ownership Interest:** 100

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

Gas Name	Other Gas Name	Other Gas GHG Group	Gas Quantity	Own Result?
Biogenic Carbon dioxide			0 (Metric Tons)	
Methane			5.47 (Metric Tons)	
Nitrous Oxide			0.58 (Metric Tons)	
Carbon Dioxide			283806 (Metric Tons)	

**Unit Details:**

**Unit Name :** CT4  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 70042.1  
**Annual CO2 Emissions Including Biomass** (short tons): 77207.4  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b> Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b> 1268290 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 31.7 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 37.8 (Metric Tons)

<b>Fuel type:</b> Distillate Fuel Oil No. 2
<b>Annual heat input:</b> 27829 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 2.1 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 5.0 (Metric Tons)

**Unit Name :** CT7  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 69686.7  
**Annual CO2 Emissions Including Biomass** (short tons): 76815.7  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b> Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b> 1267122 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 31.7 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 37.8 (Metric Tons)

<b>Fuel type:</b> Distillate Fuel Oil No. 2
<b>Annual heat input:</b> 23553 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 1.8 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 4.2 (Metric Tons)

**Unit Name :** CT6  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 74026.9  
**Annual CO2 Emissions Including Biomass** (short tons): 81599.9  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b>	Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b>	1335350 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b>	33.4 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b>	39.8 (Metric Tons)

<b>Fuel type:</b>	Distillate Fuel Oil No. 2
<b>Annual heat input:</b>	33308 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b>	2.5 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b>	6.0 (Metric Tons)

**Unit Name :** CT5  
**Unit Type :** Electricity Generator  
**Unit Description :**  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** LME (§75.19(c)(4)(iii))  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 70050.3  
**Annual CO2 Emissions Including Biomass** (short tons): 77216.5  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**Electricity Fuel Details:**

<b>Fuel type:</b>	Natural Gas (Weighted U.S. Average)
<b>Annual heat input:</b>	1272967 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b>	31.8 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b>	37.9 (Metric Tons)

<b>Fuel type:</b>	Distillate Fuel Oil No. 2
<b>Annual heat input:</b>	24123 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b>	1.8 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b>	4.3 (Metric Tons)

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**Facility Name:** J M Stuart

**Facility Identifier:** 520011

**Facility Reporting Year:** 2016

**Facility Location:**

Address: 745 US 52

City: Manchester

State: OH

Postal Code: 45144

**Facility Site Details:**

**CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 10860449.8

**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0

**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0

**Cogeneration Unit Emissions Indicator:** N

**GHG Report Start Date:** 2016-01-01

**GHG Report End Date:** 2016-12-31

**Description of Changes to Calculation Methodology:**

**Part 75 Biogenic Emissions Indication:**

**Plant Code Indicator:** Y

**Primary NAICS Code:** 221112

**Second Primary NAICS Code:**

**Parent Company Details:**

**Parent Company Name:** AMERICAN ELECTRIC POWER

**Address:** 1 Riverside Plaza, Columbus, OH 43215

**Percent Ownership Interest:** 26

**Parent Company Name:** DYNEGY INC

**Address:** 601 Travis Street, Suite 1400, Houston, TX 77002

**Percent Ownership Interest:** 39

**Parent Company Name:** AES CORP

**Address:** 4300 Wilson Boulevard, 11th Floor, Arlington, VA 22203

**Percent Ownership Interest:** 35

## Subpart C: General Stationary Fuel Combustion

**Gas Information Details**

Gas Name	Other Gas Name	Other Gas GHG Group	Gas Quantity	Own Result?
Biogenic Carbon dioxide			0 (Metric Tons)	
Methane			0.04 (Metric Tons)	
Nitrous Oxide			0.009 (Metric Tons)	
Carbon Dioxide			1071.9 (Metric Tons)	

**Unit Details:**

**Unit Name :** GP-01

**Unit Type :** OCS (Other combustion source)

**Unit Description :** Group 1

**Other Unit Name :**

**PlantCode:** 2850 (numeric, maximum of 6 digits)

**Small Unit Aggregation Details:**

**Use Ivt Indicator:** N

**Highest Maximum Rated Heat Input Capacity:** 70

**Emission Details:**

**Annual CO<sub>2</sub> mass emissions from sorbent:** 0 (Metric Tons)

**Annual Biogenic CO2 Emissions:** 0 (metric tons)

**Annual Fossil fuel based CO2 Emissions:** 1071.9 (metric tons)

**Tier Fuel Details:**

**Fuel :** Distillate Fuel Oil No. 2

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

**Tier Methodology Start Date :** 2016-01-01

**Tier Methodology End Date :** 2016-12-31

**Frequency of HHV determinations :**

**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
1071.9 (Metric Tons)	0.04 (Metric Tons)	0.009 (Metric Tons)	1.1 (Metric Tons)	2.6 (Metric Tons)

**Equation C2a/C9a Inputs :**

**Fuel Quantity :** 106091 (gallons/year)

**Use Default High Heat Value :** false

**Equation C2b Inputs :**

	Fuel Combusted	High Heat Value
January	69969 (gallons/month)	0.137271 (mmBtu/gallon)
February	583 (gallons/month)	0.137271 (mmBtu/gallon)
March	661 (gallons/month)	0.13509 (mmBtu/gallon)
April	494 (gallons/month)	0.135625 (mmBtu/gallon)
May	1000 (gallons/month)	0.135976 (mmBtu/gallon)
June	7739 (gallons/month)	0.134911 (mmBtu/gallon)
July	3250 (gallons/month)	0.134996 (mmBtu/gallon)
August	417 (gallons/month)	0.137454 (mmBtu/gallon)
September	1566 (gallons/month)	0.137817 (mmBtu/gallon)
October	2917 (gallons/month)	0.137927 (mmBtu/gallon)
November	12070 (gallons/month)	0.135498 (mmBtu/gallon)
December	5425 (gallons/month)	0.133109 (mmBtu/gallon)

## Subpart D: Electricity Generation

**Gas Information Details**

Gas Name	Other Gas Name	Other Gas GHG Group	Gas Quantity	Own Result?
Biogenic Carbon dioxide			0 (Metric Tons)	
Methane			1273.08 (Metric Tons)	
Nitrous Oxide			185.176 (Metric Tons)	
Carbon Dioxide			10772364.8 (Metric Tons)	

**Unit Details:**

**Unit Name :** MS1B

**Unit Type :** Electricity Generator

**Unit Description :** Boiler 1 Bypass Stack

**Plant Code :** 2850 (numeric, maximum of 6 digits)

**Part 75 Methodology :** CEMS

**Methodology Start Date:** 2016-01-01

**Methodology End Date:** 2016-12-31

**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 603.7

**Annual CO2 Emissions Including Biomass** (short tons): 665.5

**Annual CO2 Emissions from Biomass** (metric tons): 0

**CEMS Details:**

**Operating Hours CO2 Concentration Substituted:** 1

**Operating Hours Stack Gas Flow Rate Substituted:** 3

**Operating Hours Stack Gas Moisture Substituted:**

**Electricity Fuel Details:**

**Fuel type:** Bituminous

**Annual heat input:** 6487 (mmBtu)

**CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:** 1.8 (Metric Tons)

**N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:** 3.1 (Metric Tons)

**Unit Name :** MS2W

**Unit Type :** Electricity Generator

**Unit Description :** Boiler 2 Wet Stack

**Plant Code :** (numeric, maximum of 6 digits)

**Part 75 Methodology :** CEMS

**Methodology Start Date:** 2016-01-01

**Methodology End Date:** 2016-12-31

**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 2740686.7

**Annual CO2 Emissions Including Biomass** (short tons): 3021059

**Annual CO2 Emissions from Biomass** (metric tons): 0

**CEMS Details:**

**Operating Hours CO2 Concentration Substituted:** 101

**Operating Hours Stack Gas Flow Rate Substituted:** 94

**Operating Hours Stack Gas Moisture Substituted:**

**Electricity Fuel Details:**

**Fuel type:** Bituminous

**Annual heat input:** 29445035 (mmBtu)

**CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:** 8097.4 (Metric Tons)

**N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:** 14039.4 (Metric Tons)

**Unit Name :** MS4W

**Unit Type :** Electricity Generator

**Unit Description :** Boiler 4 Wet Stack

**Plant Code :** (numeric, maximum of 6 digits)

**Part 75 Methodology :** CEMS

**Methodology Start Date:** 2016-01-01

**Methodology End Date:** 2016-12-31

**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 2805986.8

**Annual CO2 Emissions Including Biomass** (short tons): 3093039.2

**Annual CO2 Emissions from Biomass** (metric tons): 0

**CEMS Details:**

**Operating Hours CO2 Concentration Substituted:** 113

**Operating Hours Stack Gas Flow Rate Substituted:** 85

**Operating Hours Stack Gas Moisture Substituted:**

**Electricity Fuel Details:**

<b>Fuel type:</b> Bituminous
<b>Annual heat input:</b> 30146574 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 8290.3 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 14373.9 (Metric Tons)

**Unit Name :** MS1W  
**Unit Type :** Electricity Generator  
**Unit Description :** Boiler 1 Wet Stack  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** CEMS  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO<sub>2</sub> Emissions Including Biomass** (metric tons): 2767061.8  
**Annual CO<sub>2</sub> Emissions Including Biomass** (short tons): 3050132.2  
**Annual CO<sub>2</sub> Emissions from Biomass** (metric tons): 0

**CEMS Details:**

**Operating Hours CO<sub>2</sub> Concentration Substituted:** 140  
**Operating Hours Stack Gas Flow Rate Substituted:** 27  
**Operating Hours Stack Gas Moisture Substituted:**

**Electricity Fuel Details:**

<b>Fuel type:</b> Bituminous
<b>Annual heat input:</b> 29728352 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 8175.3 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 14174.5 (Metric Tons)

**Unit Name :** MS3W  
**Unit Type :** Electricity Generator  
**Unit Description :** Boiler 3 Wet Stack  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** CEMS  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO<sub>2</sub> Emissions Including Biomass** (metric tons): 2447530.8  
**Annual CO<sub>2</sub> Emissions Including Biomass** (short tons): 2697913.2  
**Annual CO<sub>2</sub> Emissions from Biomass** (metric tons): 0

**CEMS Details:**

**Operating Hours CO<sub>2</sub> Concentration Substituted:** 198  
**Operating Hours Stack Gas Flow Rate Substituted:** 27  
**Operating Hours Stack Gas Moisture Substituted:**

**Electricity Fuel Details:**

<b>Fuel type:</b> Bituminous
<b>Annual heat input:</b> 26295483 (mmBtu)
<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 7231.3 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 12537.7 (Metric Tons)

**Unit Name :** MS2B  
**Unit Type :** Electricity Generator  
**Unit Description :** Boiler 2 Bypass Stack  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** CEMS  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:****Annual CO2 Emissions Including Biomass** (metric tons): 2394**Annual CO2 Emissions Including Biomass** (short tons): 2638.9**Annual CO2 Emissions from Biomass** (metric tons): 0**CEMS Details:****Operating Hours CO2 Concentration Substituted:** 7**Operating Hours Stack Gas Flow Rate Substituted:** 7**Operating Hours Stack Gas Moisture Substituted:****Electricity Fuel Details:****Fuel type:** Bituminous**Annual heat input:** 25752 (mmBtu)**CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:** 7.1 (Metric Tons)**N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:** 12.3 (Metric Tons)**Unit Name :** MS3B**Unit Type :** Electricity Generator**Unit Description :** Boiler 3 Bypass Stack**Plant Code :** (numeric, maximum of 6 digits)**Part 75 Methodology :** CEMS**Methodology Start Date:** 2016-01-01**Methodology End Date:** 2016-12-31**Acid Rain Program Indicator:** Y**Emission Details:****Annual CO2 Emissions Including Biomass** (metric tons): 2771.6**Annual CO2 Emissions Including Biomass** (short tons): 3055.1**Annual CO2 Emissions from Biomass** (metric tons): 0**CEMS Details:****Operating Hours CO2 Concentration Substituted:** 1**Operating Hours Stack Gas Flow Rate Substituted:** 9**Operating Hours Stack Gas Moisture Substituted:****Electricity Fuel Details:****Fuel type:** Bituminous**Annual heat input:** 29779 (mmBtu)**CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:** 8.2 (Metric Tons)**N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:** 14.2 (Metric Tons)**Unit Name :** MS4B**Unit Type :** Electricity Generator**Unit Description :** Boiler 4 Bypass Stack**Plant Code :** (numeric, maximum of 6 digits)**Part 75 Methodology :** CEMS**Methodology Start Date:** 2016-01-01**Methodology End Date:** 2016-12-31**Acid Rain Program Indicator:** Y**Emission Details:****Annual CO2 Emissions Including Biomass** (metric tons): 5329.4**Annual CO2 Emissions Including Biomass** (short tons): 5874.6**Annual CO2 Emissions from Biomass** (metric tons): 0**CEMS Details:****Operating Hours CO2 Concentration Substituted:** 8**Operating Hours Stack Gas Flow Rate Substituted:** 12**Operating Hours Stack Gas Moisture Substituted:****Electricity Fuel Details:****Fuel type:** Bituminous**Annual heat input:** 57260 (mmBtu)



<b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b>	15.7 (Metric Tons)
<b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b>	27.3 (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:** Killen Station**Facility Identifier:** 520253**Facility Reporting Year:** 2016**Facility Location:**

Address: 14869 US 52

City: MANCHESTER

State: OH

Postal Code: 45144

**Facility Site Details:****CO2 equivalent emissions from facility subparts C-II, SS, and TT (metric tons):** 3377583.5**CO2 equivalent emissions from supplier subparts LL-QQ (metric tons):** 0**Biogenic CO2 emissions from facility subparts C-II, SS, and TT (metric tons):** 0**Cogeneration Unit Emissions Indicator:** N**GHG Report Start Date:** 2016-01-01**GHG Report End Date:** 2016-12-31**Description of Changes to Calculation Methodology:****Part 75 Biogenic Emissions Indication:****Plant Code Indicator:** Y**Primary NAICS Code:** 221112**Second Primary NAICS Code:****Parent Company Details:****Parent Company Name:** DYNEGY INC**Address:** 601 Travis Street, Suite 1400, Houston, TX 77002**Percent Ownership Interest:** 33**Parent Company Name:** AES CORP**Address:** 4300 Wilson Boulevard, Arlington, VA 22203**Percent Ownership Interest:** 67

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**Subpart C: General Stationary Fuel Combustion**

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**Gas Information Details**

Gas Name	Other Gas Name	Other Gas GHG Group	Gas Quantity	Own Result?
Biogenic Carbon dioxide			0 (Metric Tons)	
Methane			0.11 (Metric Tons)	
Nitrous Oxide			0.022 (Metric Tons)	
Carbon Dioxide			2751.8 (Metric Tons)	

**Unit Details:****Unit Name :** GP1**Unit Type :** OB (Boiler, other)**Unit Description :****Individual Unit Details:****Use Ivt Indicator:** N**Maximum Rated Heat Input Capacity:** 96 (mmBtu/hr)**Emission Details:****Annual CO<sub>2</sub> mass emissions from sorbent:** 0 (Metric Tons)**Annual Biogenic CO<sub>2</sub> Emissions:** 0 (metric tons)**Tier Fuel Details:****Fuel :** Distillate Fuel Oil No. 2

**Tier Name :** Tier 2 (Equation C-2a)  
**Tier Methodology Start Date :** 2016-01-01  
**Tier Methodology End Date :** 2016-12-31  
**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	Y	N	N	N	N	N	N	Y	N	Y	N

**Fuel Emission Details :**

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
2525.8 (Metric Tons)	0.10 (Metric Tons)	0.020 (Metric Tons)	2.6 (Metric Tons)	6.1 (Metric Tons)

**Equation C2a/C9a Inputs :**

**Fuel Quantity :** 252970 (gallons/year)  
**Use Default High Heat Value :** true  
**High Heat Value :** 0.135 (mmBtu/gallon)

**Unit Name :** B4

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

**Unit Description :** Black Start Turbine Unit

**Individual Unit Details:**

**Use Ivt Indicator:** N

**Maximum Rated Heat Input Capacity:** 299.4 (mmBtu/hr)

**Emission Details:**

**Annual CO<sub>2</sub> mass emissions from sorbent:** 0 (Metric Tons)

**Annual Biogenic CO2 Emissions:** 0 (metric tons)

**Tier Fuel Details:**

**Fuel :** Distillate Fuel Oil No. 2  
**Tier Name :** Tier 2 (Equation C-2a)  
**Tier Methodology Start Date :** 2016-01-01  
**Tier Methodology End Date :** 2016-12-31  
**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	Y	N	N	N	N	N	N	Y	N	Y	N

**Fuel Emission Details :**

Total CO2 emissions	Total CH4 emissions	Total N2O emissions	Total CH4 emissions CO2e	Total N2O emissions CO2e
226.0 (Metric Tons)	0.01 (Metric Tons)	0.002 (Metric Tons)	0.2 (Metric Tons)	0.5 (Metric Tons)

**Equation C2a/C9a Inputs :**

**Fuel Quantity :** 22639 (gallons/year)  
**Use Default High Heat Value :** true  
**High Heat Value :** 0.135 (mmBtu/gallon)

## Subpart D: Electricity Generation

**Gas Information Details**

Gas Name	Other Gas Name	Other Gas GHG Group	Gas Quantity	Own Result?
Biogenic Carbon dioxide			0 (Metric Tons)	

Methane			395.87 (Metric Tons)	
Nitrous Oxide			57.581 (Metric Tons)	
Carbon Dioxide			3347766.5 (Metric Tons)	

**Unit Details:**

**Unit Name :** 2  
**Unit Type :** Electricity Generator  
**Unit Description :** Boiler 2  
**Plant Code :** (numeric, maximum of 6 digits)  
**Part 75 Methodology :** CEMS  
**Methodology Start Date:** 2016-01-01  
**Methodology End Date:** 2016-12-31  
**Acid Rain Program Indicator:** Y

**Emission Details:**

**Annual CO2 Emissions Including Biomass** (metric tons): 3347766.5  
**Annual CO2 Emissions Including Biomass** (short tons): 3690243  
**Annual CO2 Emissions from Biomass** (metric tons): 0

**CEMS Details:**

**Operating Hours CO2 Concentration Substituted:** 81  
**Operating Hours Stack Gas Flow Rate Substituted:** 54  
**Operating Hours Stack Gas Moisture Substituted:**

**Electricity Fuel Details:**

<b>Fuel type:</b> Bituminous <b>Annual heat input:</b> 35988024 (mmBtu) <b>CH<sub>4</sub> Emissions CO<sub>2</sub> Equivalent:</b> 9896.7 (Metric Tons) <b>N<sub>2</sub>O Emissions CO<sub>2</sub> Equivalent:</b> 17159.1 (Metric Tons)
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**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**4/14/2017 1:13:08 PM**

**in**

**Case No(s). 17-0802-EL-ECP**

Summary: Notice of filing of the Dayton Power and Light Company's Federal Greenhouse Gas Reports electronically filed by Eric R Brown on behalf of The Dayton Power and Light Company