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DISTRICT OF COLUMBIA
PUBLIC SERVICE COMMISSION

May 29, 2009

RE: Annual Fuel Mix and Air Emissions Report

EA - 00 - 3 - 32

Ms. Dorothy Wideman
Commission Secretary
Public Service Commission of the District of Columbia
1333 H Street, NW, 7th Floor
Washington, D.C. 20005

Dear Ms. Wideman:

Pursuant to the Public Service Commission of the District of Columbia's ("the Commission") Order Nos. 12765, 13391, 13589, 13880, and 14281 Pepco Energy Services, Inc. ("PES") hereby submits its annual report on fuel mix and air emissions for the period of January 1, 2008 through December 31, 2008. PES is a licensed electricity supplier within the District of Columbia and currently serves both residential and commercial customers.

PES sells a variety of electricity products, including products based on both non-renewable and renewable energy resources. The non-renewable electricity products sold by PES are not sourced from specific generation assets. As a result, the fuel mix and air emissions associated with these products is identical to the regional average fuel mix and air emissions data provided by the PJM Interconnection, LLC ("PJM"). The renewable electricity products sold by PES are based on a portfolio of renewable generation resources. Given the size of this portfolio, PES certifies that the air emissions characteristics of each type of renewable generation resource is equivalent to the average air emissions for that type of resource, as provided by PJM.

The enclosed Pepco Energy Services' fuel mix and air emissions report is based on the "Residual Mix" data provided by PJM's Generator Attributes Tracking System ("GATS"). GATS provides the "Residual Mix" and air emissions data on an annual basis. PES' semi-annual report for the period of January 1, 2008 through December 31, 2008 is based on the 2008 Residual Mix report.

Pepco Energy Services currently provides residential customers with three electricity products:

- 51% Green Electricity
- 100% Green Electricity
- 100% Wind Electricity

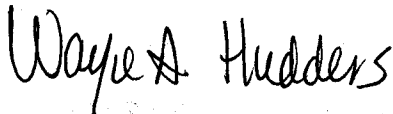
The make up of PES' renewable energy products may consist of a renewable and non renewable component. The renewable energy component is sourced from PES' portfolio of renewable resources, while the non-renewable component is non-source specific.

The enclosed fuel mix and air emissions report includes information for each residential product, as well as an aggregate summary for our commercial customers. Pepco Energy Services disclosed fuel mix and air emissions data to its customers during the April 2009 billing cycle.

For record keeping purposes, I have enclosed an additional copy of this filing. Please date stamp and return this additional copy to my attention via the enclosed envelope.

Please contact me at (703) 253-1641 with any questions regarding this matter.

Sincerely,

A handwritten signature in black ink that reads "Wayne A. Hudders". The signature is written in a cursive style with a large initial "W".

Wayne A. Hudders
Senior Energy Market Analyst
Pepco Energy Services, Inc.

Enclosures

**Environmental Information For Electricity From Pepco Energy Services
PowerChoice Standard Electricity**

The following environmental information is for electricity
supplied from January 1, 2008 to December 31, 2008
(District of Columbia)

Electricity can be generated in a number of ways with different impacts on the environment. The standardized environmental information shown below allows you to compare this electricity product with electricity products offered by other electricity suppliers.

Energy Source

Regional values are shown which represent 2008 averages for this region*

| | | |
|------------------------------------|-----------------------|----------------|
| | Coal | 53.63% |
| | Oil | 0.27% |
| | Natural Gas | 6.71% |
| | Nuclear | 34.71% |
| | Captured Methane Gas | 0.01% |
| | Geothermal | 0.00% |
| | Hydroelectric | 2.57% |
| | Solar | 0.01% |
| | Solid Waste | 0.00% |
| | Wind | 0.01% |
| | Wood or other Biomass | 2.07% |
| | Unspecified Renewable | 0.00% |
| | Total | 100.00% |
| Renewable energy sources subtotal: | | 4.68% |

Air Emissions

The amount of air pollution associated with the generation of the electricity production for this region is shown in the table to right.*

Pounds Emitted per Megawatt Hour of
Electricity Generated

| | |
|------------------------------------|----------|
| Sulfur Dioxide (SO ₂) | 6.90574 |
| Nitrogen Oxides (NO _x) | 1.928665 |
| Carbon Dioxide (CO ₂) | 1176.895 |

CO₂ is a "greenhouse gas," which may contribute to global climate change. SO₂ and NO_x released into the atmosphere react to form acid rain. NO_x also reacts to form ground level ozone, an unhealthy component of "smog."

* Most Recent data available

For additional information about this label, contact Pepco Energy Services at
(800) - ENERGY9