

An Exelon Company

Andrea H. Harper Associate General Counsel

EP9628 701 Ninth Street NW Washington, DC 20068-0001 Office 202.331.6649
Fax 202.331.6767
pepco.com
ahharper.pepcoholdings.com

July 13, 2018

Ms. Brinda Westbrook-Sedgwick Commission Secretary Public Service Commission of the District of Columbia 1325 G Street, N.W., Suite 800 Washington DC, 20005

Re: Formal Case No. 1145

Dear Ms. Westbrook-Sedgwick:

Enclosed, please find the District Department of Transportation and Potomac Electric Power Company's Thirty-Day Report on the Semi-Annual Meeting, held on June 13, 2018.

Please feel free to contact me if you have any questions regarding this matter.

Sincerely,

Andrea H. Harper

Enclosures

cc: All Parties of Record

BEFORE THE PUBLIC SERVICE COMMISSION OF THE DISTRICT OF COLUMBIA

IN THE MATTER OF

APPLICATIONS FOR APPROVAL OF)	
BIENNIAL UNDERGROUND)	Formal Case No. 1145
INFRASTRUCTURE IMPROVEMENT)	
PROJECTS PLANS)	

THIRTY-DAY REPORT ON THE JUNE 13, 2018 SEMI-ANNUAL MEETING TO REVIEW PROGRESS AND DISCUSS DESIGN ALTERNATIVES

Pursuant to the Joint Stipulation of the Office of the People's Counsel ("OPC"), Potomac Electric Power Company ("Pepco"), and the District Department of Transportation ("DDOT"), as approved in Public Service Commission of the District of Columbia ("Commission") Order No. 17697² as clarified in Order No. 17770, and as reiterated in Order No. 19167, Pepco and DDOT (collectively, "Joint Applicants") hereby submit this Thirty-Day Report on the June 13, 2018 Semi-Annual Meeting to Review Progress and Discuss Design Alternatives ("Report") as part of the District of Columbia Power Line Undergrounding ("DC PLUG") initiative.

Joint Stipulation of the Office of the People's Counsel, Potomac Electric Power Company and the District Department of Transportation, Formal Case No. 1116, (Sept. 15, 2014) ("Joint Stipulation").

In the Matter of the Application for Approval of Triennial Underground Infrastructure Improvement Projects Plan, Formal Case No. 1116, Order No. 17697 (Nov. 12, 2014) ("Order No. 17697").

In the Matter of the Application for Approval of Triennial Underground Infrastructure Improvement Projects Plan, Formal Case No. 1116, Order No. 17770 (Jan. 22, 2015) ("Order No. 17770").

In the Matter of the Applications for Approval of Biennial Underground Infrastructure Improvement Projects Plans and Financing Orders, Formal Case No. 1145, Order No. 19167 (Nov. 9, 2017) ("Order No. 19167").

I. BACKGROUND

On September 15, 2014, Pepco, OPC and DDOT filed a Joint Stipulation with the Commission in which the parties agreed to hold a semi-annual meeting to review the progress of the DC PLUG initiative and discuss design alternatives ("Semi-Annual Meeting"). Additionally, the Joint Applicants committed to "file with the Commission a report summarizing each semi-annual meeting within thirty (30) days after the meeting is held." In Order No. 17697, the Commission approved the Joint Stipulation, as clarified by Order No. 17770. In accordance with the Joint Stipulation and in compliance with Order Nos. 17697 and 17770, Pepco files this Report on behalf of the Joint Applicants.

II. MEETING SUMMARY

On June 13, 2018, the Joint Applicants conducted the fourth Semi-Annual Meeting at DDOT's headquarters at 55 M Street, SE, Suite 400, from 1:00 PM to 3:00 PM. Meeting attendees included representatives from Pepco, DDOT, OPC, the Commission, Washington Gas, and the Apartment and Office Building Association of Metropolitan Washington ("AOBA"). Presenters at the Semi-Annual Meeting included representatives from Pepco and DDOT. Detailed minutes of the Semi-Annual Meeting are included in Attachment A to this Report.

To begin the meeting, Pepco's DC PLUG Manager of Special Field Operations and DDOT's Program Manager offered the welcome and introduction to the first of DC PLUG's two 2018 semi-annual meetings and provided an overview of the day's agenda. The agenda included a Project Review and Current Status of DC PLUG, updates on Feeder 308 and the Feeder 14900 Opportunity Project, the Status of Designs for Remaining 4 Feeders in the First Biennial Plan, an

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⁵ Joint Stipulation at 3.

update on the deployment of Distribution Automation associated with DC PLUG, a description of the Benning Area Reliability Plan, an update on District-Based Business and CBE Engagement, and closed with a Question and Answer session.

III. MEETING DOCUMENTATION

Attachment A contains the meeting minutes from the semi-annual meeting. Attachment B contains the sign-in sheet from the meeting. Attachment C contains the presentations for each agenda topic discussed at the meeting.

ATTACHMENT A:

Semi-Annual Meeting Minutes

DC PLUG Semi-Annual Meeting Meeting Minutes

June 13, 2018 1:00 PM – 3:00 PM DDOT Headquarters 55 M Street, SE, Suite 400, Washington DC 20003

Agenda Item: Welcome & Introduction

Welcome and Review of the agenda topics for discussion at the semi-annual meeting

Agenda Item: | Project Review and Current Status

During the meeting DDOT representatives provided a short history of the DC PLUG initiative, noting the legislation was started by Mayor Gray in 2012 and the most recent 2017 legislation was approved by Mayor Bowser with the goal of making the electric system more resilient to severe weather events. The DDOT representative explained how the initiative is funded, \$250 million by Pepco through the Underground Project Charge, \$187.5 million by the District through the Underground Rider, and up to \$62.5 million by DDOT through its Capital Improvement Funding.

Then DDOT and Pepco representatives provided a timeline for the first Biennial Plan. The presenters explained that an Invitation for Bids ("IFB") was released for civil construction of Feeder 308, and a notice to proceed is expected in late 2018. Requests for Proposals ("RFPs") for civil design for Feeders 368, 14007, 14758, and 15009 will be released in 2018. In 2019 the DC PLUG team will issue notice to proceed for Feeder 14900, DDOT's Oregon Avenue Reconstruction Project. Finally, in 2020 the DC PLUG team expects to begin construction for the remaining feeders associated with the first Biennial Plan.

Agenda Item: | Feeder 308

DDOT and Pepco representatives discussed the boundaries for the first Biennial Plan feeder, Feeder 308. DDOT explained they had issued an IFB, and held a pre-bid conference in February of 2018 and that the IFB had been amended for a 100% Certified Business Enterprise ("CBE") set aside in March of 2018. DDOT noted that the IFB closed in May 2018 with three bids submitted. Bid prices ranged from \$9 million to \$12 million, and the bids are currently being evaluated and assembled by the Office of Attorney General.

Based on the civil engineering design that was completed with DDOT, the team described the materials that they expect to need. Representatives explained that the electrical design is mostly complete and will be drawn into Pepco's GIS/GWD to create a record of the work in Pepco's system.

Agenda Item: | Feeder 14900 Opportunity Project

DDOT explained the civil engineering for Feeder 14900 Opportunity Project is complete and construction is expected to start in 2019, with electrical design and construction to follow. DDOT went on to explain that Feeder 14900 is being completed as part of the federally-funded Oregon Avenue Project. Finally, DDOT explained the scope of work and required materials that were identified by the civil engineering design.

Agenda Item: Status of Designs for Remaining 4 Feeders in the First Biennial Plan

Pepco provided an update on the status of the remaining four feeders in the First Biennial Plan and defined the process involved with developing proposed schematics from the initial preliminary schematics. The process includes analyzing transformer loading to ensure transformers are sized appropriately based on existing load conditions; conducting multiple field visits to verify locations of three-phase transformers in conjunction with reviewing Google maps imagery; load-flow and short-circuit analysis, and then finalization of the schematics. After the schematics are finalized, Pepco will provide DDOT the proposed designs for their use with future civil engineering solicitations.

Agenda Item: | Distribution Automation

Pepco explained that its underground distribution automation ("DA") design includes at least one mid-line interrupter and an automated feeder tie switch to an adjacent feeder for 13kV feeders. Pepco stated that the switches will work with existing overhead automatic circuit reclosers to provide isolation. Pepco also stated it will use 25kA rated switches placed far enough from the substation to avoid the high fault current issues rather than 40kA rated devices because the 25kA devices are more readily available in the marketplace.

Pepco displayed a graphic representation of a DA device configuration to demonstrate how sectionalization would work in the event of a fault. Pepco further explained that overhead and underground DA equipment will communicate with the control center to provide automatic function.

Finally, Pepco explained the status of DA installation on Feeders 14722, 15703 and 14786.

Agenda Item: Benning Area Reliability Plan

In response to the Commission's directive in Order No. 19167 at Paragraph 277, Pepco presented information on the Benning Area Reliability Plan. Pepco explained that the plan originated in 2016, with the intent to address worst performing substations by total customer interruption ("CI") count. Pepco explained that various approaches including ACR and ASR saturation, feeder reconfigurations, and upgrades to aging equipment are all part of the solutions considered. to create a holistic solution. Finally, Pepco explained the three-year Benning Area Reliability Plan, including both system-level and feeder-level work to be performed.

Agenda Item: District-Based Business and CBE Engagement

Pepco spoke about the DC PLUG initiative's DC business engagement explaining that Pepco and DDOT provided an update at the September 29, 2017 Disadvantaged Business Enterprise ("DBE") Summit and jointly held a March 1, 2018 "match-making" event with 25 DC-based DBE companies and a total of 57 companies.

Pepco explained that the DC PLUG team sent out a request for information ("RFI") to over 150 DC-based and local companies for project management, electrical construction and engineering and plans to release another RFI for companies that would be qualified as CBEs in the future. Further, Pepco has held numerous one on one meetings with vendors to see how they can be involved.

Pepco stated that on May 15, 2018 the Department of Small and Local Business Development (DSLBD) held a meeting on strategies for pursuing government construction contracts to give vendors the opportunity to meet with DC PLUG representatives.

Finally, Pepco introduced the Community Relations Coordinator who will act as the DC PLUG initiative's interface with customers.

ATTACHMENT B:

Semi-Annual Meeting Slide Presentation



DC PLUG Semi-Annual Meeting

Pepco and the District Department of Transportation (DDOT)

June 13, 2018 www.dcpluginfo.com



Introduction and Welcome

Ronald Williams, DDOT Aaron Smith, Pepco



Agenda

1. Project Review and Current Status

Ronald Williams, DDOT Aaron Smith, Pepco

2. Feeder 308

Anthony Soriano, DDOT Deepa Jonnagadla, Pepco

3. Opportunity Projects

Anthony Soriano, DDOT

5. Distribution Automation

Dee Gottman, Pepco

6. Benning Area Reliability Plan Update

David Olchowski, Pepco

7. District-Based Business and CBE Engagement

Aaron Smith, Pepco

4. Status of Designs for Remaining 4 Feeders in the First Biennial Plan

Rosemond Boateng, Pepco



Project Review and Current Status

Ronald Williams, DDOT Aaron Smith, Pepco



The DC PLUG Initiative



Background & Timeline

Aug 2012

The Mayor's Power Line Undergrounding Task Force establishment

May 2013

The Task Force recommended Pepco and DDOTs partnership

May 2014

The Electric Company Infrastructure Improvement Financing Act became law

May 2017

Council of the District of Columbia amended the law

July 2017

Pepco and DDOT filed a joint Biennial Plan

Nov 2017

Received Approval from D.C.
Public Service Commission on
the First Biennial Plan



Budget

Pepco Portion

\$250 Million

* Recovered through Pepco Underground Project Charge

District Portion

\$187.5 Million

* Recovered through Underground Rider

DDOT

Up to \$62.5 Million
DDOT Capital Improvement
Funding

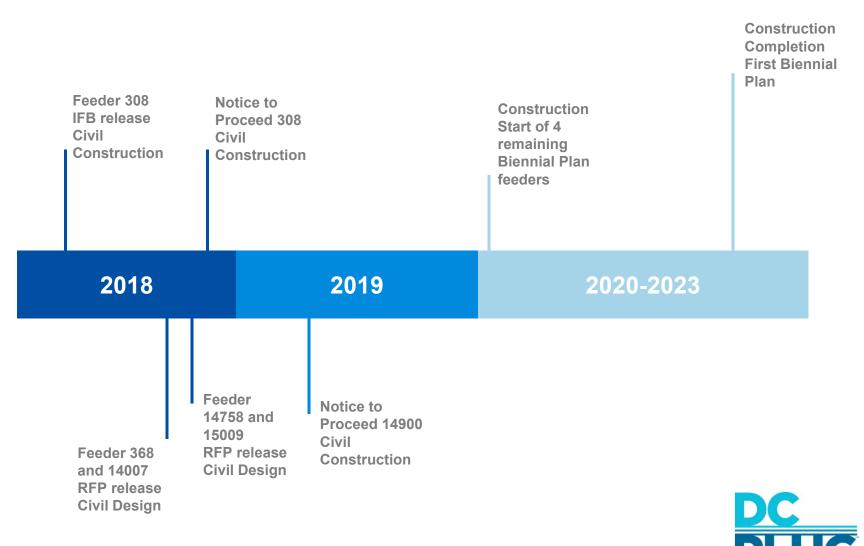
DC PLUG will provide resiliency against major storms and improve the reliability of the electric system

Multi-year program to underground up to 30 of the most vulnerable OH distribution lines, spanning over 6-8 years with work beginning in late 2018



^{*} The Program is funded by two surcharges currently on customers' monthly bills

Anticipated Timeline



Feeder 308

American University Park & Friendship Heights

Anthony Soriano, DDOT Deepa Jonnagadla, Pepco



Feeder 308 Map





Feeder 308 Current Status and Timeline

- DDOT issued an invitation for bids ("IFB") on February 15, 2018 for the civil construction of Feeder 308
- DDOT held a pre-bid conference on February 27, 2018 for all interested bidders
- DDOT amended the solicitation for a 100% CBE set aside on March 15, 2018
- The IFB closed on May 24, 2018 with three (3) bids submitted, which have been evaluated by the Office of Contracting and Procurement, and the Council package is being assembled and reviewed by OAG



Feeder 308 Civil Engineering Design

The design of Feeder 308 incorporates information obtained in the field survey which enables Pepco and DDOT to identify locations for the following civil infrastructure:

- Approximately 13,200 linear feet of 5-inch fiberglass encased ductbank
- Approximately 15,000 linear feet of 4-inch PVC encased ductbank
- 59 roadway manholes
- 5 sidewalk equipment vaults
- 18 underground tapholes
- 45 single phase transformer facilities



Feeder 308 - Electrical Design Update

- The electrical schematic is mostly complete and the final review is in progress
- Additional tapholes were incorporated into the design based on comments from Pepco Operations & Maintenance
- After electrical schematic is finalized it will be drawn into GIS/GWD to create the work orders necessary for material reservations
- Electrical construction will follow civil construction



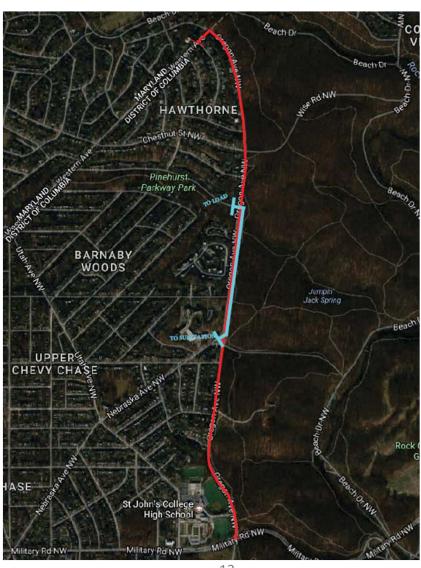
Feeder 14900 Opportunity Project

Hawthorne, Barnaby Woods, Chevy Chase & Friendship Heights

Anthony Soriano, DDOT



Feeder 14900 Map





Feeder 14900 Current Status and Timeline

- Civil engineering design for Feeder 14900 is complete
- Federally-funded project, and the DDOT Infrastructure Project Management Division project team anticipates IFB release summer 2018
- Construction anticipated to start in 1st quarter 2019
- Electrical engineering to follow the start of civil construction procurement
- Electrical construction awaiting civil construction



Feeder 14900 Proposed Civil Engineering Design

Design incorporates information obtained in field survey which will enable Pepco and DDOT to identify locations for the following civil infrastructure:

- Approximately 3,100 linear feet of 5-inch fiberglass encased conduit duct bank
- Approximately 9,500 linear feet of 4-inch PVC encased conduit duct bank
- 26 roadway manholes
- 2 sidewalk equipment vaults
- 8 underground tapholes
- 16 single phase transformer facilities



Status of Designs for Remaining Four Feeders in First Biennial Plan

Rosemond Boateng, Pepco



Preliminary to Proposed Schematics

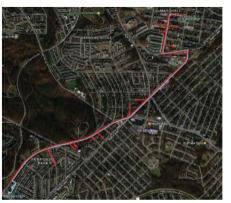
Process includes:

- Transformer Loading Analysis
- Multiple Field Visits
- Re-configure loops
- Load Flow Analysis
- Short Circuit Analysis
- Finalize Electrical Proposed Schematic
- Finalize Civil Proposed Schematic



Remaining 4 Feeders in First Biennial Plan

 Pepco has updated its proposed electrical and civil engineering designs for Feeders 00368 and 14007





 Proposed electrical and civil engineering designs for Feeders 14758 and 15009 will be completed in June 2018







Distribution Automation

Dee Gottman, Pepco



Summary of DA Design and Configuration

- Pepco's design includes at least one mid-line interrupter and an automated feeder tie switch to adjacent feeders for 13kV feeders
 - Mid-line interrupter allows for automatic isolation of customers in the event of a fault past the location of the interrupter
- The switches will be installed sufficiently far away from the substation such that Pepco will be able to use a 25kA rated device, instead of requiring a 40kA rated device. This serves to further control cost and allow Pepco to use products that are more readily-available in the marketplace.



DA Device Configuration

Substation



- Half loop tap switch
- 25kA interrupter
- ① Automated tie switch (N.O.)



Current Status

- Feeder 14722
 - Installed 16th Street & Newton Street NW
 - Next step is Telecom / Protection Coordination with Control Center
- Feeder 15703
 - Bladensburg Road NE at Morse Street NE
 - Design Complete
- Feeder 14786
 - 5th Street NE at I Street NE
 - In Construction
 - 3rd Street NW at Massachusetts Avenue NW
 - Designs Complete



Benning Area Reliability Plan ("BARP") Progress Report

David Olchowski, Pepco



Area Plan Background

- Intent was to look at worst performing "areas"
 - Data-driven: identify worst performing substations at a total CI count for all feeders out of that substation
- System-driven solution:
 - ACR saturation & ASR schemes to reduce customer exposure to < 500 customers
 - Feeder reconfigurations / extensions
 - Upgrade aging infrastructure
 - Trip Savers, reconductoring, pole replacements, etc.
- Also looked at adjacent substations, tie opportunities, etc. for wholistic look at area
- The Commission directed Pepco to report progress implementing the BARP and coordinating with DC PLUG at the Annual and Semi-Annual meetings (Order No. 19167 at Paragraph 277)

Benning Area Plan

3-year plan which includes:

System Level Reconfiguration :

- Maximize the number of feeders from each substation to reduce the customer count on each feeder
- Reconfigure circuits to minimize exposure due to double circuit pole lines and reconfigure feeders for optimal reliability
- Upgrade associated substations to fully support distribution automation
- Recloser saturation/distribution automation scheme installation and upgrade

Substation Remediation:

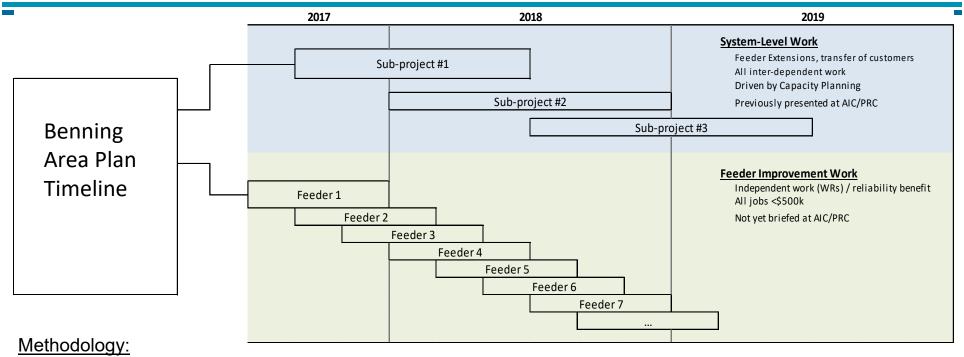
- Perform assessment of substation configuration and address any gaps
- Ensure condition of equipment is adequate
- Ensure wildlife protection is installed and adequate

Individual Feeder Assessment and Remediation :

- Installation of single phase reclosing devices (TripSavers) on lateral taps
- Accelerated vegetation management on plan feeders and spot trimming of trouble areas
- Fuse coordination and updated fusing based on feeder loading
- Conversion of armless construction to standard cross arm construction
- Condition based Infrastructure renewal (transformers, cross arms, etc.)



Benning Area Plan Implementation



- Area Plan projects identified as all-encompassing solution for pockets of chronic distribution reliability concerns.
- Large dollar projects spread over 2-3 year period.
- 1) Capacity Planning-driven project solution to:
 - Upgrade aging/outdated infrastructure
 - Install reclosers to minimize single outage customer impact and move customers to balance feeder customer counts.
 - · Help optimize ASR schemes
 - Accelerated tree trimming
- 2) Feeder-level Improvement work:
 - Ranked and prioritized based upon reliability performance over last three (3) years; addressed in order of worst performance.
 - · Feeders are worked in zones out from the substation beginning with getaway sections (largest risk)
 - Misc. improvement work: reconductoring, installing fuses/reclosers, PILC replacement, capitalized tree trimming, etc.
 - Coordination with recloser implementation program so as not to duplicate efforts.



District-Based Business and CBE Engagement

Aaron Smith, Pepco



DC Business Engagement

- Provided DC PLUG update at September 29, 2017 DBE Summit
- March 1, 2018 DDOT and Pepco hosted a joint supplier networking and match making event for local businesses and pre-existing contractors
 - Over 100 participants
 - 25 CBE and over 50 total companies were represented
 - http://thesource.pepcoholdings.com/pepco/powering-economies/pepcodc-plug-initiative-supporting-local-businesses
- Pepco Request for Information (RFI)
 - Over 150 District based and local companies were requested to participate
 - Objective create a database of District suppliers to consider for upcoming DC PLUG projects
 - Target audience local construction, engineering, PM & CM companies
 - Opened on April 27, 2018 and closed May 11, 2018
- Participated at May 15, 2018 DSLBD Strategies for Pursuing Government Construction Contracts event



Contact Us





ATTACHMENT C:

Semi-Annual Meeting Sign-In Sheet





Name	Email Address	Affiliation
THE GOTTMAN	ENSTMAN & JEPCO. com	FERED
Alp Kecel	akecel? Opsc.de.gov	Depse
KRIS HELLEY	12 KELLEY QWASHGAS. COM	WOL
Chiri Staplis	Charistaples edc.gov	DOOT
	MJint@msn.com	MJ International Electr
Milton Musington Laisha Doughacty	laisha. dougherty@exeloncopp.	DCPLUG
Jason Cumberbatil	jeumberbatch@ope-de.gov	OPC
Amelia Whiting	awhiting@opc-dc.gov	OPC
Excetabl Calbuill	ECAldudie Ada misso ung	BURLA
Robert L Bethen	rbether 9 Washgas. com.	WE



Name	Email Address	Affiliation
Ryan DLESK	RDIESK@WASHGAS.com	WGL
Andrea Herper	ah harper @ pepcoholding	
Chris Taylor	Cotaylor a pepio, com	PepCo
Terry anens	Terry OWENS @ D.C. GOV	0805
Gary Pullian.	9 Pulliama ps. ak. go	o Dc Psc
JESSE Clay	1 clay @ PSC. DC 6, OV	Derse
Rodney K. Willson	R Wilson & PSC. DC. Gay	de PSC
	tsmith@opc-de.gov	OPC
KEUIN CONDSCENTS	K CONDICENTE @ Mc CAPTER . COM	McCANTOR & ENCLISH OPE
John Adragna	Jadruguae McCarter, com	McCarter + Brylish/OPC



Name	Email Address	Affiliation
BILL SULLIVAN	bill. Sullivan & Percoholdings, con	PERCO
Dang Small	dana. Small opepeoholdings. com	Perco
Ethan Helmos	ehdnes Epepcheldings. Con	lepco
Auron Smith	alsmith pepeo holdings.com	Pepco
David Olchowski	David. Olchowski Cexclus corp. com	Pepco
MIGUEL A. ORTEGA	-dl IGUEL. ORTEGA Cpepco.co.	m PEPCO
Andres R. Cuadrado	Andres Ramocundrator endone	
Rosemond Booteng	sboatenges pepco.com	Pepco
/		•



Name	Email Address	Affiliation
Deepa Jonnagadla	dionnagadia @ pepconoldings.com	Repro
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CERTIFICATE OF SERVICE

I hereby certify that a copy of the District Department of Transportation and Potomac Electric Power Company's Thirty-Day Report on the Semi-Annual Meeting was sent to the recipients listed below on July 13, 2018 by electronic mail, first-class, postage prepaid, or hand delivery.

Ms. Brinda Westbrook-Sedgwick Commission Secretary Public Service Commission of the District of Columbia 1325 G Street N.W. Suite 800 Washington, DC 20005 bwestbrook@psc.dc.gov

Christopher Lipscombe
Public Service Commission of DC
1325 G Street NW, Suite 800
Washington, DC 20005
clipscombe@psc.dc.gov

Cheri Hance Staples
Assistant Attorney General
Office of General Counsel
District Department of Transportation
55 M Street, SE Suite 700
Washington, DC 20003
Cheri.staples@dc.gov

Michael Engleman
Partner
Engleman Fallon, PLLC
1717 K Street NW, Suite 900
Washington, DC 20006
mengleman@efenergylaw.com

Cathy Thurston-Seignious Washington Gas Light Company 101 Constitution Ave. N.W. Suite 300 cthurston-seignious@washgas.com Sandra Mattavous-Frye, Esq. People's Counsel Office of People's Counsel 1133 15th Street, N.W. Suite 500 Washington, DC 20005 smfrye@opc-dc.gov

Brian R. Caldwell
The District of Columbia Government
441 4th Street NW
Suite 600-S
Washington, DC 20001
brian.caldwell@dc.gov

Frann G. Francis, Esq
Senior Vice President and General
Counsel
Apartment and Office Building
Association of Metropolitan
Washington
1025 Connecticut Ave N.W. Suite 1005
Washington, DC 20036
ffrancis@aoba-metro.org

Richard Butterworth U.S General Services Administration 1800 F Street N.W. Washington, D.C. 20405 Richard.butterworth@gsa.gov