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January 17, 2019

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

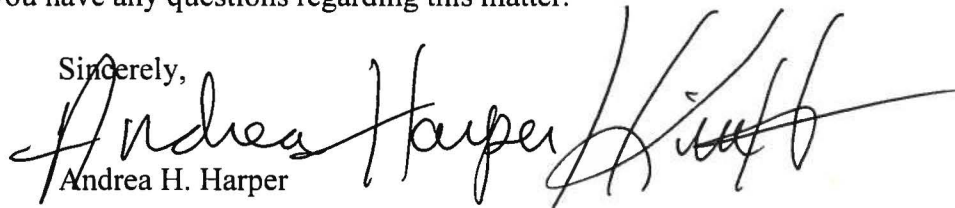
Re: Formal Case No. 1145

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 December 18, 2018.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andrea Harper", with a long, sweeping horizontal line extending to the right.

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 DECEMBER 18, 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”),¹ as approved in Public Service Commission of the District of Columbia (“Commission”) Order No. 17697² as clarified in Order No. 17770,³ and as reiterated in Order No. 19167,⁴ Pepco and DDOT (collectively, “Joint Applicants”) hereby submit this Thirty-Day Report on the December 18, 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.

¹ *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”).

² *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”).

³ *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”).

⁴ *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.”⁵ 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 December 18, 2018, the Joint Applicants conducted the fourth Semi-Annual Meeting at Pepco’s Edison Place headquarters at 701 9th Street, NW, from 1:00 PM to 3:00 PM. Meeting attendees included representatives from Pepco, DDOT, OPC, GSA, the Commission, the DC Office of the Attorney General, 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 Manager of Project Management and DDOT’s Program Manager offered the welcome and introduction to the second of DC PLUG’s 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,

⁵ Joint Stipulation at 3.

the Status of Designs for Remaining 4 Feeders in the First Biennial Plan, an update on the deployment of Distribution Automation associated with DC PLUG, a description of the Benning Area Reliability Plan, an update on District-Based 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

December 18, 2018
Pepco Edison Place Headquarters
701 9th Street, NW
Washington, DC 20068

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
<p>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.</p> <p>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 during the first quarter of 2019. Requests for Proposals (“RFPs”) for civil design for Feeders 368, 14007, 14758, and 15009 will be released during the first quarter of 2019. Further, the DC PLUG team will issue notice to proceed for Feeder 14900, DDOT’s Oregon Avenue Reconstruction Project, in mid-2019. Finally, in 2021 the DC PLUG team expects to begin construction for the remaining feeders associated with the first Biennial Plan and expects to complete construction on the remaining first Biennial Plan feeders in 2023.</p>	
Agenda Item:	Feeder 308
<p>DDOT and Pepco representatives discussed the boundaries for the first Biennial Plan feeder, Feeder 308. DDOT explained they issued an IFB and held a pre-bid conference in February of 2018. Fort Myer Construction was awarded the bid on September 7, 2018. In addition, DDOT released an RFQ for the Construction Management Contractor on July 31, 2018. The award and NTP are anticipated by February of 2019.</p> <p>The Pepco representative noted that the underground electrical design is approximately 90% complete, with the majority of the underground electrical design drawn into GIS/GWD and the overhead removal designs are approximately 70% complete. The entire design package is expected to be complete by February 2019. Electrical construction will commence halfway through the civil construction.</p>	

Agenda Item:	Feeder 14900 Opportunity Project
DDOT noted that Feeder 14900 is being completed as part of the federally-funded Oregon Avenue Project. DDOT explained the civil engineering for Feeder 14900 Opportunity Project is complete and construction is expected to start in the third quarter of 2019. The electrical engineering RFP was released on December 4, 2018 and the electrical engineering is anticipated to begin second quarter of 2019. The electrical construction will commence at the halfway point of civil construction. 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. The civil engineering procurement for Feeders 368, 14007, 14758, and 15009 is anticipated to be released during the first quarter of 2019. The electrical engineering procurement for Feeders 368, 14007, 14758, and 15009 will commence following completion of the civil engineering design.	
Agenda Item:	Distribution Automation
<p>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.</p> <p>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.</p> <p>Finally, Pepco explained the status of DA installation on Feeders 14722, 15703 and 14786.</p>	
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 was not part of the DC PLUG program, but reflected how Pepco’s reliability program is now focusing on local reliability performance. 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. Pepco explained the three-year Benning Area Reliability Plan, including both system-level and feeder-level work to be performed. Finally, Pepco updated the status of construction for Feeders 15707 (completed in the third quarter of 2018) and 15705 (to be completed in the first quarter of 2019).	

Agenda Item:	District of Columbia Engagement
<p>Pepco spoke about the DC PLUG initiative's DC business engagement explaining that Pepco and DDOT reached out to District of Columbia businesses at the District of Columbia's Small Business Contracting Expo on October 9, 2018, and DDOT's Disadvantaged Business Enterprise Summit on November 6, 2018. Further, Pepco explained that its Capability and Capacity Program, which allows contracting companies new to Pepco's system to gain construction experience necessary to do the kind of work associated with DC PLUG will begin its third installation in the first quarter of 2019.</p> <p>Pepco further explained its Feeder 308 construction outreach program which will include ANC and civic association meetings, meeting with the Ward 3 Councilmember, briefing DDOT's Community Engagement Representatives, briefing the Mayor's Office of Community Relations, identifying libraries along the Feeder 308 route, and developing ad content, flyers, posters and postcards.</p>	

ATTACHMENT B:

Semi-Annual Meeting Slide Presentation



DC PLUG Semi-Annual Meeting

Pepco and the District Department of Transportation
(DDOT)

December 18, 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. Anticipated Timeline

Ronald Williams, DDOT

3. Feeder 308

Anthony Soriano, DDOT
Deepa Jonnagadla, Pepco

4. Opportunity Projects

Anthony Soriano, DDOT

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

Rosemond Boateng, Pepco

6. Distribution Automation

Dee Gottman, Pepco

7. Benning Area Reliability Plan Update

Ethan Holmes, Pepco

8. District-Based Engagement

Aaron Smith, Pepco

Project Review and Current Status

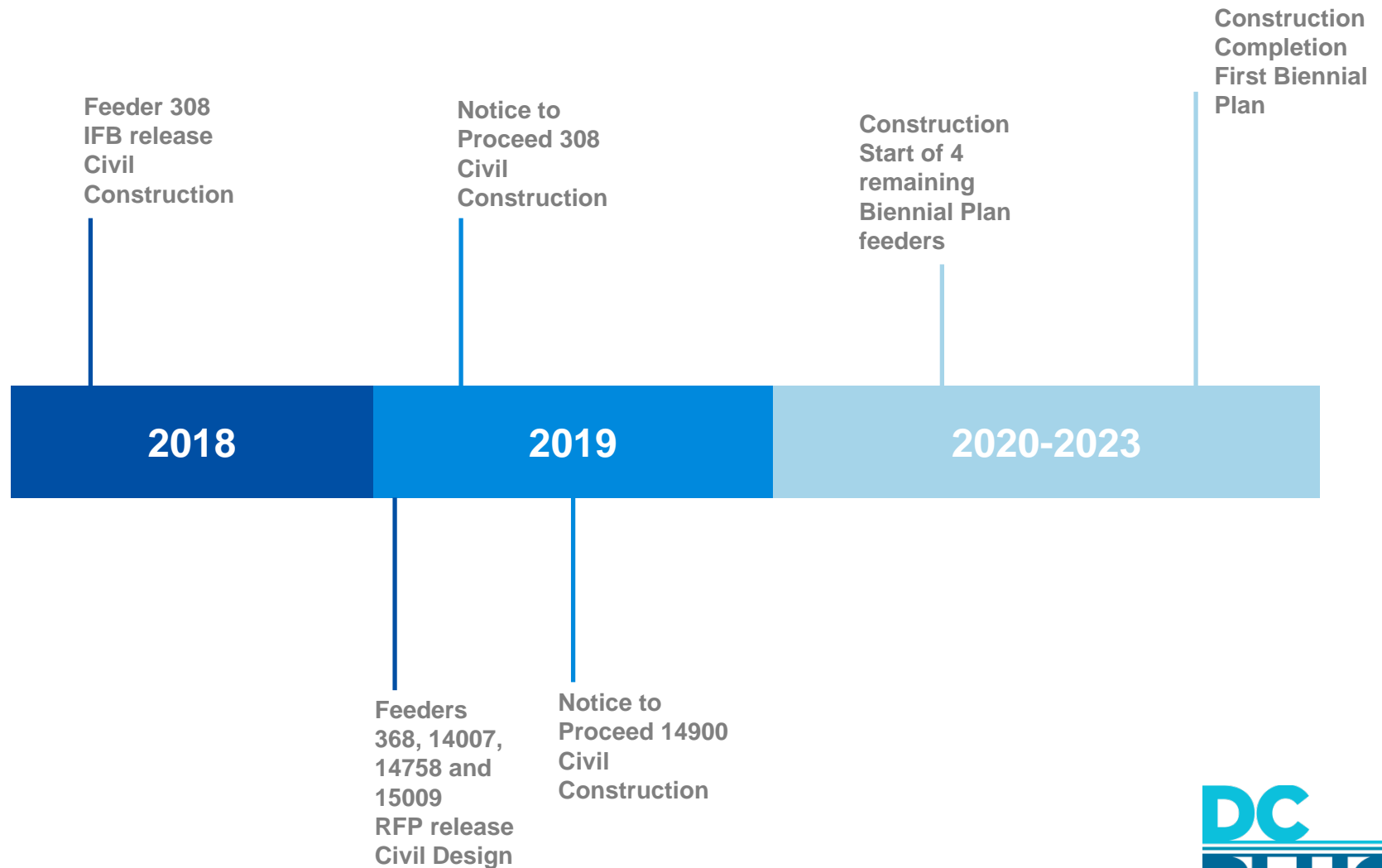
Ronald Williams, DDOT

Aaron Smith, Pepco





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
- Awarded to Ft. Myer on September 7, 2018
- DDOT released the RFQ for the Construction Management Contractor on July 31, 2018, award and NTP anticipated by February 2019
- Anticipated Start: First Quarter of 2019

Feeder 308 - Electrical Design Update

- Electrical designs are approximately 90% complete
 - The underground electrical design has been drawn into GIS/GWD
 - Overhead removal design is approximately 70% complete
 - Electric design is expected to be completed by February 2019
- Electrical construction will follow civil construction

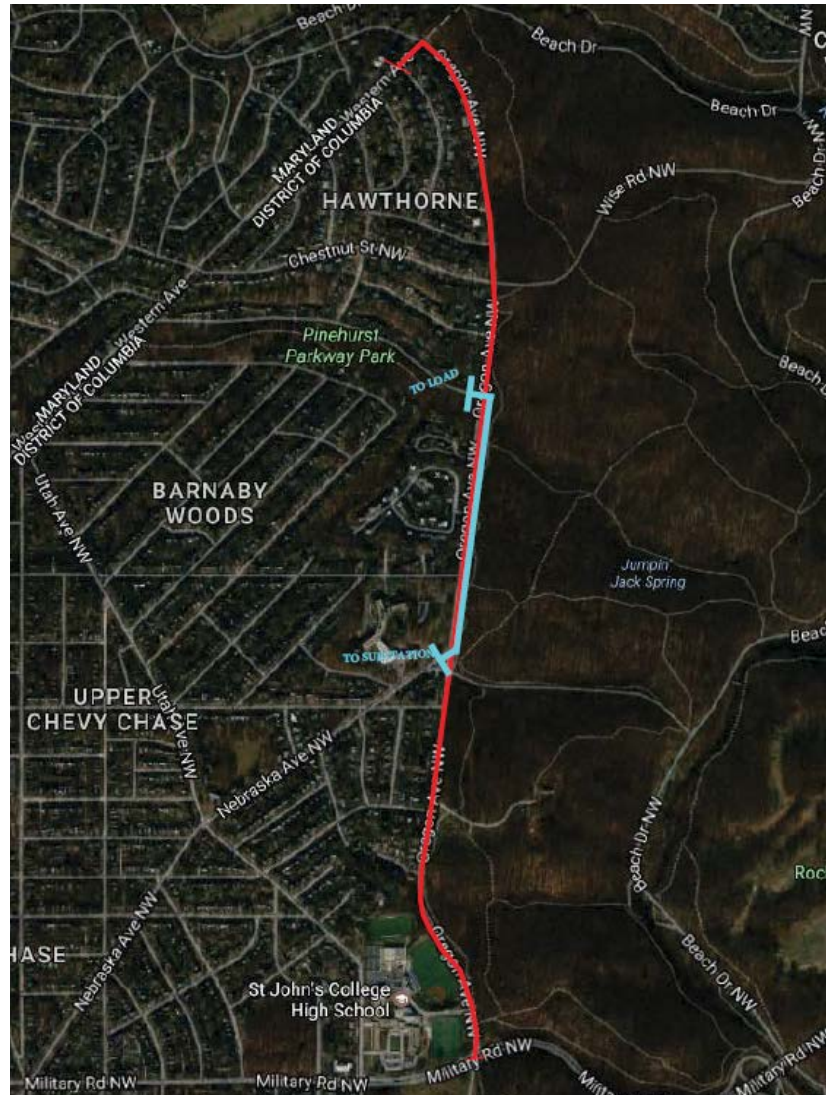
Feeder 14900 Opportunity Project

Hawthorne, Barnaby Woods,
Chevy Chase & Friendship Heights

Anthony Soriano, DDOT



Feeder 14900 Map



Feeder 14900 Current Status and Timeline

- Federally-funded project, and the DDOT Infrastructure Project Management Division project team anticipates IFB release 2019
- Civil engineering design for Feeder 14900 is complete
- Construction anticipated by third quarter of 2019
- Surveying for the Electrical Engineering anticipated by second quarter of 2019
- Electrical construction will commence at the halfway point of civil construction

Status of Designs for Remaining Four Feeders in First Biennial Plan

Rosemond Boateng, Pepco



Civil and Electrical Engineering Procurement

- DDOT's Civil Engineering Procurement

Feeder Number	Anticipated Procurement Release
00368	1 st quarter 2019*
14007	1 st quarter 2019*
14758	1 st quarter 2019*
15009	1 st quarter 2019*

- Pepco's Electrical Engineering Procurement

Feeder Number	Anticipated Procurement Release
14900	Released December 4, 2018
00368	To follow completion of civil design
14007	To follow completion of civil design
14758	To follow completion of civil design
15009	To follow completion of civil design

*<http://projects.ddotsites.com/>

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



Automated tie switch (N.O.)

Current Status

- Feeder 14722
 - Installed 16th Street & Newton Street NW
 - Local Control – August 2018
 - Control Center / EMS Control - October 2018
- Feeder 15703
 - Bladensburg Road NE at Morse Street NE
 - Design Complete
 - Relay & Radio Configuration Underway
- Feeder 14786
 - 5th Street NE at I Street NE
 - Installed
 - Communication work in progress
 - 3rd Street NW at Massachusetts Avenue NW
 - Designs Complete
 - Awaiting completion of Feeder 15703 work

Benning Area Reliability Plan ("BARP") Progress Report

Ethan Holmes, Pepco



An Exelon Company

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

Feeder 15705

- Feeder rearrangement tied to Feeders 15705, 14717, and extended Feeder Benning 15711 to reduce feeder customer counts
- Replace 1,721 feet of existing three-phase mainline primary wire with 477 ACSR Tree wire
- Replace 2,870 feet of three-phase lateral primary wire with 1/0 ACSR Tree wire

Feeder 15707

- Feeder rearrangement tied to feeders 15707, 15706, and new feeder Walker Mill 15247 to reduce feeder customer counts
- Replace 9,345 feet of existing three-phase mainline primary wire with 477 ACSR Tree wire
- Replace 1,287 feet of three-phase mainline primary wire with 4/0 ACSR Tree wire
- Replace 1,043 feet of three-phase mainline primary wire with 477 AAC Spacer cable



An Exelon Company

District of Columbia Engagement

Aaron Smith, Pepco



District of Columbia Engagement

- Construction community outreach activities
 - District of Columbia's Small Business Contracting Expo October 9, 2018
 - DDOT's Disadvantaged Business Enterprise Summit November 6, 2018
- Capability and Capacity Program
 - Pepco anticipates commencement for the third installation of this program beginning first quarter of 2019

Outreach Plan

- Attend appropriate ANC and Civic Association meetings
 - DC Federation of Civic Associations
 - Western Ave Citizens Association
 - ANC 3E
 - Friendship – Tenleytown Citizens Association
 - Tenleytown Main Streets
- Meet with Ward 3 Councilmember
- Briefing for the DDOT Community Engagement Representatives
- Briefing for Mayor's Office of Community Relations
- Identify DC Public Libraries along Feeder 308 route
- Finalize ad content & placement
- Develop flyers, posters, postcards



Contact Us

Questions?



www.dcplugininfo.com



questions@dcplugininfo.com



1-844-758-4146



[@pepcoconnect](#) #DCPLUG
[@ddotdc](#) #DCPLUG

Appendix



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



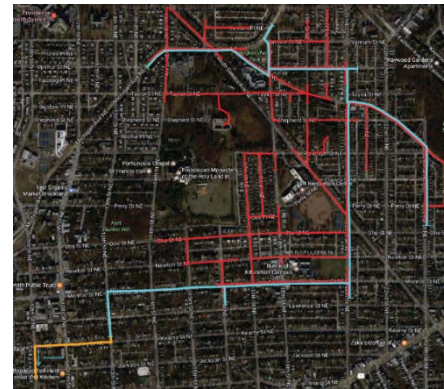
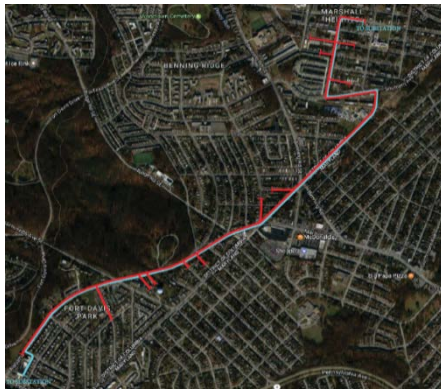
Multi-year program to underground up to 30 of the most vulnerable OH distribution lines, spanning over 6-8 years with work beginning in late 2018

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

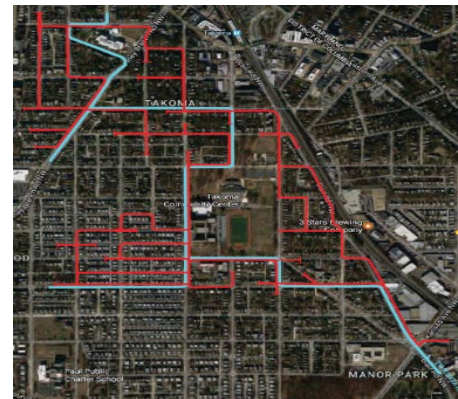
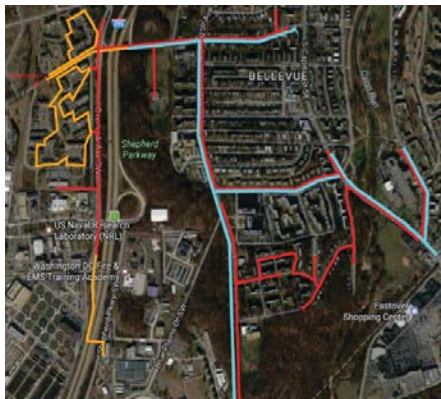
**DC
PLUG**

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 was completed in June 2018



ATTACHMENT C:

Semi-Annual Meeting Sign-In Sheet



DC PLUG

December 18, 2018 Semi-Annual Meeting

Attendees

	Name	Affiliation	Email
1.	Albena Paul	DDOT	albena.paul@ddot.gov
2.	Faris Alsaeedi	DDOT	
3.	ADE AKINBODE	PHI / TEEH SERVICES	ade.akinbode@pepcoholding.com
4.	E.H. Caldwell	BUBA	ecaldwell@suba-nf.usf
5.	Rosemond Beateng	Pepco	
6.	Deepa Jinnagadda	Pepco	DJinnagadda@pepco.com
7.	Patricia Allen	OTC	patriciaallen@dc.gov
8.	John Howley	PSC	jhowley@psc-dc.gov
9.	Travis E. Smith Sr	OPC	tsmith@opc-dc.gov
10.	Rodney H. Wilson	PSC	RWilson@PSC-DC.CO
11.	John Adragua	McCart + English - OPC	jadragua@mccart.com
12.	Poonani Ram	PSC	pramachandran@psc-dc.gov
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23.			
24.			
25.			
26.			
27.			

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 January 17, 2019 by electronic mail, first-class, postage prepaid, or hand delivery.

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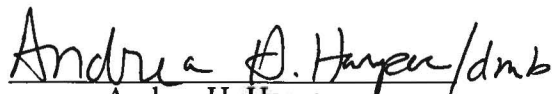
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