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October 7, 2025

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

Re: Formal Case No. PEPPIWGR-2025

Dear Ms. Westbrook-Sedgwick:

Pursuant to Order No. 15568, issued October 7, 2009, Potomac Electric Power Company, on behalf of itself, the Office of the People's Counsel, and the Commission's Staff, collectively known as the Productivity Improvement Working Group ("PIWG"), met on August 29th, 2025. Enclosed are the minutes, attendance sheet and presentation for the August 29, 2025 PIWG Meeting.

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

Sincerely,

/s/ *Kunle Adeyemo*

Kunle Adeyemo

Enclosures

cc: All Parties of Record

PRODUCTIVITY IMPROVEMENT WORKING GROUP (PIWG)

Minutes from Virtual Meeting held: Friday, August 29, 2025

MEETING COMMENCEMENT:

Potomac Electric Power Company ("Pepco" or "The Company") convened its third Productivity Improvement Working Group ("PIWG") meeting of the year virtually on Friday, August 29, 2025, at 2:00 PM Eastern via Microsoft Teams.

ATTENDEES:

The following were in attendance:

- **Public Service Commission of the District of Columbia ("PSC" or "Commission") Staff:** Jose Hurtado, Abraham Kebede, Roger Fujihara, Shanelle Patterson, Naza Shelley, Maria Brown, Christopher Lundt, & Bryan Henning

- **Office of the People's Counsel for the District of Columbia ("OPC-DC")**: Knia Tanner & Kevin Mara (GDS Associates, Inc. on behalf of OPC-DC)

- **Pepco:** Christopher K. Sellers, Sara Lacey, Vincent Zaccone, Justin Allen, Ehsan Ansari, Benjamin Jessup, Andrew Deen, Dennis Jamouneau, Daniel Guy, Samuel Adebayo, Kunle Adeyemo, Brian Welch, Daniel Del Alcazar Teixeira, & Coleman James

ISSUES DISCUSSED:

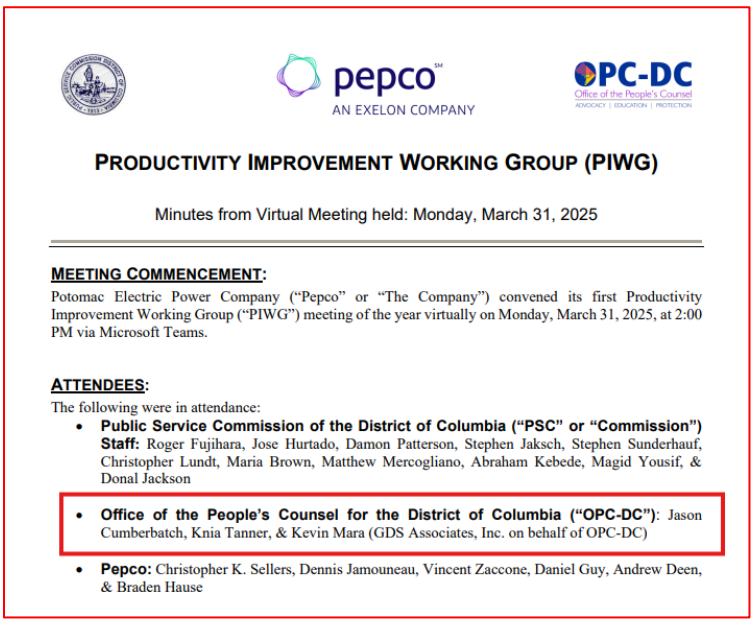
- Follow-up on previous Meeting Minutes (*as filed May 23, 2025)
- Injury Update
- Reliability Update
- Manhole Event Update
- Manhole Inspection Update
- Update on July Outage Events at 22nd Street Substation

SYNOPSIS OF ISSUES DISCUSSED:

- C. Sellers made opening remarks thanking everyone for their time and attendance and walked attendees through the agenda topics to be covered on the call.

- C. Sellers pulled up the meeting minutes filed from the last PIWG Meeting held back on March 31, 2025, and asked if there were any additional questions and/or follow-up needed from stakeholders regarding any information covered at the last meeting.

  - **Comment from OPC:** K. Tanner raised concerns about how the March PIWG Meeting Minutes that were shown on C. Seller's screen incorrectly listed Kinteshia Scott's attendance.



PRODUCTIVITY IMPROVEMENT WORKING GROUP (PIWG)

Minutes from Virtual Meeting held: Monday, March 31, 2025

MEETING COMMENCEMENT:

Potomac Electric Power Company ("Pepco" or "The Company") convened its first Productivity Improvement Working Group ("PIWG") meeting of the year virtually on Monday, March 31, 2025, at 2:00 PM via Microsoft Teams.

ATTENDEES:

The following were in attendance:

- **Public Service Commission of the District of Columbia ("PSC" or "Commission") Staff:** Roger Fujihara, Jose Hurtado, Damon Patterson, Stephen Jaksch, Stephen Sunderhauf, Christopher Lundt, Maria Brown, Matthew Mercogliano, Abraham Kebede, Magid Yousif, & Donal Jackson
- **Office of the People's Counsel for the District of Columbia ("OPC-DC"):** Jason Cumberbatch, Knia Tanner, & Kevin Mara (GDS Associates, Inc. on behalf of OPC-DC)
- **Pepco:** Christopher K. Sellers, Dennis Jamouneau, Vincent Zaccone, Daniel Guy, Andrew Deen, & Braden Hause

➢ **Company Response:** C. Sellers mistakenly pulled up an old, outdated version of the Meeting Minutes which still had K. Scott listed in attendance. As shown above in the Meeting Minutes filed with the Commission (*see Docket Number PEPPIWGR2025-01-E), K. Scott's name was not included in the finalized minutes that were filed on the public record.

- C. Sellers recapped an injury update on an event that occurred back on February 10, 2025, and the 5-Day Accident Report that Pepco filed with the DC PSC on Friday, February 14th. C. Sellers then reported on a new incident that occurred on June 10, 2025, between 12 PM and 3 PM.

- C. Sellers walked stakeholders through the 5-Day Accident Report that was filed with the DC PSC on Tuesday, June 17th and discussed the corrective action measures, if any, that were taken by the Company.

- E. Ansari provided an update on Pepco DC's Reliability Performance and how it compares to the Electric Quality of Service Standard (EQSS). As per the presentation, Pepco DC's SAIFI number is at 0.36, which is below the year-end target of 0.55, and Pepco DC's SAIDI number is at 55, which is also below the year-end target of 60. E. Ansari also said that this SAIDI number is due to the network outage that occurred in downtown DC.

  ➢ **Question asked by OPC**: In minutes, how long was the downtown network outage? Could Pepco DC provide us with a little more information about the outage and the number of feeders involved?
  ➢ **Company Response:** The outage, which occurred on February 21st, resulted in over 3 million (3,000,000) minutes and was caused by a manhole fire event. This fire resulted in the removal and replacement of over 1.7 miles of underground cable. This event also involved nine (9) different feeders.

- C. Sellers then walks stakeholders through the first and second quarter (Q1/Q2) Manhole Event Summary. He explained that there were a total of twenty-three (23) manhole events reported in Q1 during the months of January, February, and March and a total of fourteen (14) manhole events reported in Q2 during the months of April, May, and June. C. Sellers also shared that there were four (4) additional manhole events in July, which brings the total number of events to forty-one (41) manhole events reported.

- C. Sellers said that during Q1, the majority of manhole events reported were smoking manholes with six (6) events coming from slotted covers, fourteen (14) coming from solid covers, and one (1) coming from a grated cover. C. Sellers also mentioned that there was one fire and one explosion that occurred during Q1 with the explosion being a solid cover and the fire coming from a slotted cover.

- Most of the equipment affected was secondary equipment with fourteen (14) of the events being joint related and eighteen (18) of the events being cable related. Only one of the manhole events during Q1 impacted the primary cables. In terms of location, seventeen (17) of the events were in Northwest, three (3) of the events were in Northeast, and three (3) were in Southeast.

- For Q2, C. Sellers said that ten (10) of the reported manhole events were smoking manhole events with three (3) smoking events being across slotted covers and seven (7) being solid covers. Four (4) of the manhole events were fires with three (3) being across slotted covers and one (1) being a solid cover.

- The equipment affected was split evenly between primary and secondary equipment. Six (6) of the equipment affected was primary equipment, specifically four (4) events being joint related and two (2) being cable related. For the secondary equipment, one (1) of the events was joint related, and five (5) was cable related. As for the two (2) events listed as Other, one was a faulted fuse box, and the other was a test point module that was burning inside of a network hole. In terms of location, ten (10) of the events occurred in Northwest, three (3) in Northeast, and one (1) in Southeast.

  - **Question asked by OPC:** Is there a reason for the noticeable change in the number of reportable manhole events from Q1 to Q2?
  - **Company Response:** Historically, precipitation levels have been a key driver in the number of manhole events. For Q1 2025, there was significant precipitation, where the DC area had about 5 inches of snow in January and about 8 inches of snow in February. When in combination with the salt mix that is used on the ground to prevent ice buildup, there were more manhole events during Q1/Q2 than what is usually seen on a year-to-year basis.

  - **Question asked by OPC**: How does the company monitor and prepare for the winter months?
  - **Company Response:** On an annual basis, the Company develops internal plans that discusses how the Company should prepare for and respond to anticipated winter weather. These plans include information on preventative system maintenance, snow removal priorities, and winter storm operation procedures for first responders, engineers, and contractors.

- A. Deen walked the stakeholders through the Company's summary of its Q1/Q2 Manhole Inspection. To date (through July 2025), the Company had completed around fifty-one hundred

(5100) manhole inspections. The Company also had found several tripping hazards and secondary cable deficiencies that got remediated.

- C. Sellers then provided the stakeholders with an update on the July 2025 Outage and a high-level timeline of the events that took place at the 22nd Street Substation.
  - As C. Sellers explained, at 7:38 PM on July 15th, a feeder cable was tripped at 11th Street NW and Clifton Street NW. Less than an hour later, a second feeder was tripped at 11st Street NW and Monroe Street NW, which caused an electric failure. However, no customers were affected.
  - At 11:45 PM on July 16th, an electrical failure at the 22nd Street Substation caused a fire, which resulted in three feeders being down and contributed to a larger, more impactful outage.
  - At 4:21 AM on July 17th, Pepco workers observed that electrical load was increasing on the distribution system, and to prevent a larger outage, proactively turned off a select group of customers to prevent a transformer overload. At 6:21 AM, a second group of customers were dropped to prevent another transformer overload, which affected approximately 1800 customers. Crews were able to restore customer power in the afternoon of July 17th.
  - On July 18th, crews continued to work on the two faulted feeders in Northwest and inspected other equipment. However, at 1 AM on July 19th, another electrical failure at the 22nd Street Substation occurred, which resulted in a proactive disconnection of 175 customers. Power to these customers was restored around 9:30 AM.
  - At 7 AM on July 20th, a third and final electrical failure occurred at the substation, which resulted in the proactive disconnection of 1800 customers. Power to these customers was restored at 3:30 PM.
  - From July 21st to July 28th, there were no additional outages, and crews removed damaged cables and installed new cable sections. In total, about 5500 feet of new cable was used for the two impacted feeders along 11th Street NW.
  - From July 29th to August 5th, there were no additional outages, and by August 2nd, one of the feeders impacted by this event was fully restored to service. In total, about 6100 feet of new cable was pulled in for the two impacted feeders along 11th Street NW, and all cable pulling had been completed. During this week, three splices were completed by Pepco crews.
  - From August 6th to August 13th, no additional outages were reported, and all splices were completed to the final feeder.

- S. Lacey then walked stakeholders through The Company's response, and it used IMT mobilization to treat the outages in real-time.
  - The Company's IMT was mobilized from July 16th and lasted through August 2nd with support from a dedicated Transmission & Substation Taskforce.
  - The Company's IMT also deployed its on-site Mobile Command Vehicle to answer questions and provide up-to-date information on potential emergency outages due to high temperatures and storm activity.

- B. Jessup then provided stakeholders with a root cause analysis for the 22nd Street events.
  - Based on The Company's analysis, two sub-transmission 69 kV circuits, identified as 69041 and 69042 feeders, were involved.
  - The initiating event was due to a cable fault of the 69042 feeder, which faulted in Manhole 30 (location at 11th and Clifton Street NW).

- During the Feeder #69042 fault, Feeder #69041 suffered collateral damage and a sudden leak of dielectric fluid from the circuit of Feeder #69041 into Manhole 28.
- Following this loss of pressure, a cable fault on the circuit of Feeder #69041 occurred shortly after in Manhole 36 (location at 11th and Monroe NW).

- S. Lacey provided stakeholders with an overview of the Company's restoration efforts given how multiple cable sections were damaged.
  - S. Lacey explained that to restore power, the Company had crews get into each manhole to test the dielectric fluid that is within the cables to test the integrity of the cable.
  - After conducting a damage assessment, the Company removed each of the damaged cable sections and began to pull new cable in between the manholes.
  - After splicing the cable sections together, the feeder had to be repressured with dielectric fluid and fully restore the hydraulic system from end to end.
  - Finally, once the feeder had become repressurized, the Company then performed an electrical test and reenergized the feeders.

  - **Question asked by OPC**: How much spare cable does the Company have left since it had to replace about a mile of cable?
  - **Company Response:** Going into this event, the Company had around 2 miles of spare cable, which equates to about 10,000 feet across two (2) cable types (aluminum corrugated cable and lead sheath cable). Following the event, the Company is left with around half a mile of spare cables until new orders arrive around the December and January timeframe.

  - **Question asked by OPC:** What type of electrical failure occurred in the 22nd Street Substation?
  - **Company Response:** The 22nd Street Substation suffered an electrical failure in the Substation from one of the substation's wall bushings. In response to the fire, the Company provided temporary replacements to the wall bushings to reconnect the system and get the transformer back online.

ADJOURNMENT:

The virtual meeting adjourned at approximately 2:35 PM. The next scheduled PIWG meeting is sometime at the end of October to review Q3 and to provide stakeholders with accurate data regarding manhole events, inspections, and other incidents.

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Friday, August 29, 2025

PRODUCTIVITY IMPROVEMENT WORKING GROUP (PIWG)

AGENDA:

I. Follow-up on previous Meeting Minutes (*filed May 23, 2025)

II. Injury Update

III. Reliability Update

IV. Manhole Event Update

V. Manhole Inspection Update

VI. Update on July Outage Events at the 22nd Street Substation
   a. Timeline of Events
   b. Pepco's Response (IMT Mobilization)
   c. Root Cause Analysis
   d. Restoration Efforts

VII. Questions/Comments

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UPDATE:
District of Columbia
Incident (Injury) Report

Chris Sellers – Manager, Regulatory Specialists (Pepco DC)

Incident Reporting (Injuries)

There was one (1) incident to report for Q1 2025:

AS PREVIOUSLY REPORTED AT THE LAST PIWG MEETING

DATE: Monday, February 10, 2025

TIME: 6:32 am

LOCATION: 1001 Harvard Street, NW (Ward 1)

DESCRIPTION: Two (2) PHI Contractors were tasked with installing doors on an unreleased **spare** 13kV feeder reactor at Harvard Substation. They were tasked with completing a tailgate and walkdown was to be performed. While the Construction Manager (CM) went to give other contractors access onsite, the two contractors began incorrectly removing doors on an energized 13kV feeder instead of the instructed spare reactor. The CM reports hearing the breaker trip and upon immediate investigation discovered one of the two contractors injured at which point emergency services was immediately contacted (911) and the contractor was transferred to MedStar Washington Hospital Center.

INJURIES: one (1) PHI Contractor was injured onsite.

CORRECTIVE ACTION: The worksite was shut down for the day and a safety stand down was initiated for all PHI Contractors as well as Construction Mangers to accommodate/initiate a formal investigation.

**the Company's "5-Day Accident Report" was filed with the DC PSC on Friday, February 14th*

Incident Reporting (Injuries)

There was also one (1) incident to report for Q2 2025:

DATE: Tuesday, June 10, 2025

TIME: 12-3 pm

LOCATION: 5201 1st Place, NE (Ward 5)

DESCRIPTION: An individual was assisting his friend on a paint job at the disclosed address. This was private work and not related to any utility sanctioned activity. While working on a ladder that was extended to 26 feet, one of the parties attempted to reposition the ladder causing it to fall backwards where it made contact with a primary overhead line. The party on the ladder showed signs of immediate distress following the contact. The other painter at the site pushed the ladder to the ground and began administering CPR while a passerby called 911.

INJURIES: one (1) person.

CORRECTIVE ACTION: The Company was not at fault and no Company personnel or contractors were present at the time the incident occurred.

**the Company's "5-Day Accident Report" was filed with the DC PSC on Tuesday, June 17th*

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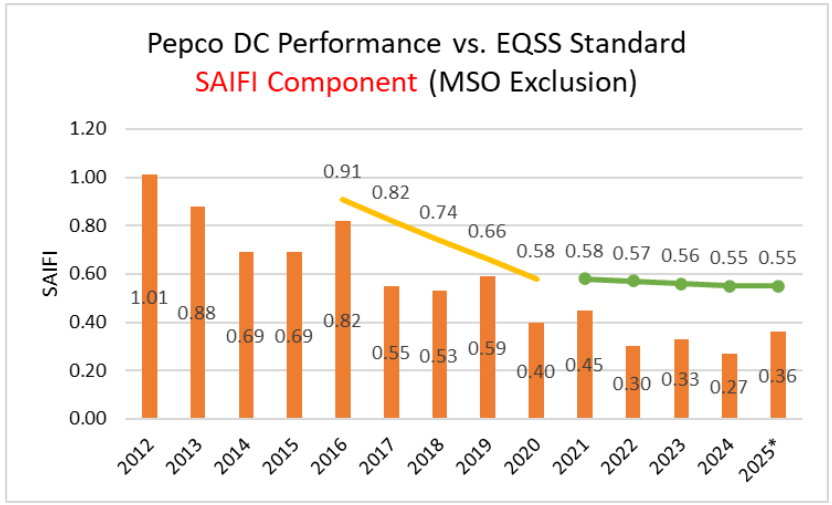
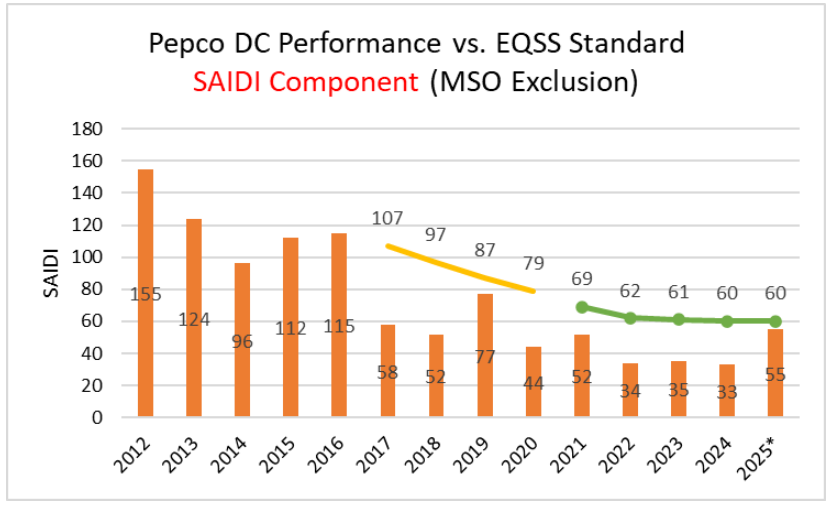
UPDATE:
District of Columbia
Reliability Performance

VINCENT ZACCONE – Manager, Reliability

Pepco DC Merger and Regulatory Commitments

SAIFI and SAIDI historical performance targets





***NOTE: 2025 values are based on rolling 12-month period from 07/01/2024 thru 06/30/2025**

YE Actual — Annual Merger Commitment — Annual Regulatory Commitment

- SAIFI and SAIDI met merger commitments through 2020; merger commitments ended in 2020
- Merger commitment replaced by regulatory commitment in 2021
- DC TTM SAIFI through 06/30/25 of 0.36 is favorable to YE target of 0.55
- DC TTM SAIDI through 06/30/25 of 55 is favorable to YE target of 60

EQSS – Electric Quality of Service Standards

MSO – Major Service Outage

TTM – Trailing 12 Month

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UPDATE:
District of Columbia
First & Second Quarter 2025
Manhole Event Summary

Chris Sellers – Manager, Regulatory Specialists

MANHOLE EVENT SUMMARY – YEAR-TO-DATE (YTD):

YEARLY QUARTER	2025
FIRST QUARTER (Jan, Feb, Mar)	**23**
SECOND QUARTER (Apr, May, Jun)	**14**
THIRD QUARTER (Jul, Aug, Sept)	**4**
FOURTH QUARTER (Oct, Nov, Dec)	
TOTAL:	**41**

MANHOLE EVENT SUMMARY – First QUARTER (January, February, & March 2025)

1st QUARTER 2025 – MANHOLE EVENTS IN DC

Classifications:

- **(1)** Explosions: (Cover Type: 0 slotted, 1 solid, 0 grated)
- **(1)** Fire: (Cover Type: 1 slotted, 0 solid, 0 grated)
- **(21)** Smoking: (Cover Type: 6 slotted, 14 solid, 1 grated)

Equipment Type:

- **(1)** Primary: (Failure Type: 0 Joint, 1 Cable, 0 Other)
- **(22)** Secondary: (Failure Type: 4 Joint, 18 Cable, 0 Other)
- **(0)** Other: (Failure Type: 0 Joint, 0 Cable, 0 Other)

Locations:

- **(17)** Northwest
- **(3)** Northeast
- **(0)** Southwest
- **(3)** Southeast

MANHOLE EVENT SUMMARY – Second QUARTER (April, May, & June 2025)

2nd QUARTER 2025 – MANHOLE EVENTS IN DC

Classifications:

- **(0)** Explosions: (Cover Type: 0 slotted, 0 solid, 0 grated)
- **(4)** Fire: (Cover Type: 3 slotted, 1 solid, 0 grated)
- **(10)** Smoking: (Cover Type: 3 slotted, 7 solid, 0 grated)

Equipment Type:

- **(6)** Primary: (Failure Type: 4 Joint, 2 Cable, 0 Other)
- **(6)** Secondary: (Failure Type: 1 Joint, 5 Cable, 0 Other)
- **(2)** Other: (Failure Type: 0 Joint, 0 Cable, 2 Other)

Locations:

- **(10)** Northwest
- **(3)** Northeast
- **(0)** Southwest
- **(1)** Southeast

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UPDATE:
District of Columbia
First & Second Quarter 2025
Manhole Inspection Summary

Andrew Deen – Manager, Distribution Standards

MANHOLE INSPECTION SUMMARY – FIRST QUARTER

Potomac Electric Power Company 1

2025 Manhole Inspection Summary

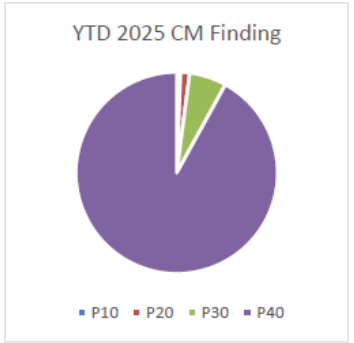
Manhole Contents	Q1	Q2	Q3	Q4	YTD
Primary	453				453
Secondary	773				773
Primary & Secondary	890				890
Streetlight Only	256				256
No Cable Present	32				32
Out Of Scope	82				82
Total	2486	0	0	0	2486

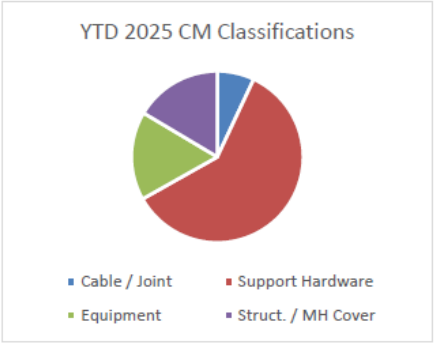
Manhole Cover Information	Q1	Q2	Q3	Q4	YE
Single Action Solid	1649				1649
Single Action Slotted	134				134
Double Action Solid	167				167
Double Action Slotted	8				8
Grating / Plate	441				441
Total	2399	0	0	0	2399

2025 Goal	10000

CM Findings	Q1	Q2	Q3	Q4	YTD
P10	7				7
P20	17				17
P30	69				69
P40	1068				1068
Total	1161	0	0	0	1161

CM Detail Findings	Q1	Q2	Q3	Q4	YTD
Cable / Joint	81				81
Support Hardware	695				695
Equipment	194				194
Struct. / MH Cover	191				191
Total	1161	0	0	0	1161





2025 Progress Notes:

Q1 2025, 2486 manholes inspected.

Open CM Orders 5/14/2025	
P10	0
P20	0
P30	148
P40	1225

Status of Overdue CM Orders 1/27/2025				
Created Yr.	P10	P20	P30	P40
2019	0	0	144	1129
2020	0	0	4	95
2021	0	0	0	0
2022	0	0	0	0
2023	0	0	0	0
2024	0	0	0	1

MANHOLE INSPECTION SUMMARY – SECOND QUARTER

Potomac Electric Power Company
2025 Manhole Inspection Summary

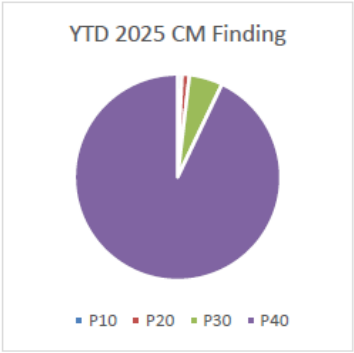
Manhole Contents	Q1	Q2	Q3	Q4	YTD
Primary	453	625			1078
Secondary	773	1003			1776
Primary & Secondary	890	804			1694
Streetlight Only	256	272			528
No Cable Present	32	58			90
Out Of Scope	82	274			356
Total	2486	3036	0	0	5522

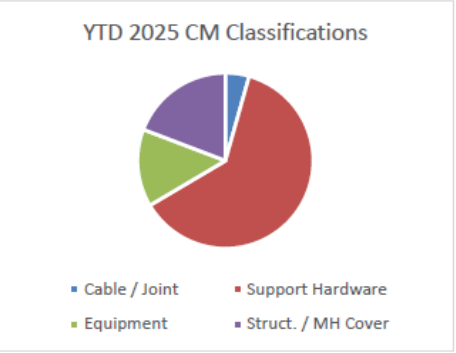
Manhole Cover Information	Q1	Q2	Q3	Q4	YE
Single Action Solid	1649	1686			3335
Single Action Slotted	134	481			615
Double Action Solid	167	190			357
Double Action Slotted	8	16			24
Grating / Plate	441	388			829
Total	2399	2761	0	0	5160

2025 Goal	10000

CM Findings	Q1	Q2	Q3	Q4	YTD
P10	7	9			16
P20	17	11			28
P30	69	56			125
P40	1068	1148			2216
Total	1161	1224	0	0	2385

CM Detail Findings	Q1	Q2	Q3	Q4	YTD
Cable / Joint	81	19			100
Support Hardware	695	728			1423
Equipment	194	133			327
Struct. / MH Cover	191	249			440
Total	1161	1129	0	0	2290





2025 Progress Notes:

Q2 2025, 3036 manholes inspected.

Open CM Orders 8/7/2025	
P10	0
P20	0
P30	148
P40	1226

Status of Overdue CM Orders 1/27/2025				
Created Yr.	P10	P20	P30	P40
2019	0	0	144	1131
2020	0	0	4	95
2021	0	0	0	0
2022	0	0	0	0
2023	0	0	0	0
2024	0	0	0	0

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UPDATE:

JULY 2025 OUTAGE EVENTS AT THE 22ND STREET SUBSTATION

ANDREW DEEN – Manager, Distribution Standards
SARA LACEY – Director, Transmission & Substations
BENJAMIN JESSUP – Manager, Engineering

TIMELINE OF EVENTS:

JULY 15th

- At 7:38 p.m. on Tuesday, July 15th, a feeder cable tripped at 11th Street, NW and Clifton Street, NW **(*no customers were impacted).**
- At 8:15 p.m. a second feeder tripped at 11th Street, NW and Monroe Street, NW, which caused an electrical failure **(*despite this failure, again no customers were impacted).**

JULY 16th

- At 11:45 p.m. an electrical failure at the substation resulting in a fire occurred at the 22nd Street Substation. DC Fire responded and extinguished the fire.
- With three feeders down, this created a configuration that contributed to a larger, more impactful outage.

JULY 17th

- At 4:21 a.m. Pepco crews observed load increasing on the system and to prevent a larger outage, proactively turned off a customer network group to prevent an overload on transformers.
- A second customer network group needed to be dropped at 6:21 a.m. to prevent further overload.
- This affected approximately 1,800 customers on Thursday, July 17th.
- Crews worked to make emergency repairs and were able to restore impacted customers that afternoon.

TIMELINE OF EVENTS (continued):

JULY 18th

- Crews continued work on damage assessment of the two faulted feeders and inspected other equipment that was impacted by this event.

JULY 19th

- Around 1:00 a.m. Saturday morning, another electrical failure at the substation occurred, leading to the need to proactively disconnect about 175 customers again.
- Those impacted customers were restored at around 9:30 a.m.

JULY 20th

- Around 7:00 a.m. Sunday morning, the third and final electrical failure at the substation occurred, leading to the need to proactively disconnect approximately 1,800 customers.
- Impacted customers were restored around 3:30 p.m.

JULY 21 - 28th

- No additional outages occurred.
- Crews removed damaged cable sections, installed new cable sections, and started the splicing process.
- About 5,500 ft. of new cable was pulled in for the two impacted feeders along 11th Street, NW and we expect to pull in additional cable throughout the coming week, pending additional damage assessments.

TIMELINE OF EVENTS (continued):

July 29 - August 5, 2025

- No additional outages occurred.
- One of two feeders impacted by this event was fully restored to service on August 2nd. Three of four feeders are now back in service at the substation.

- About 6,100 ft. of new cable was pulled in for the two impacted feeders along 11th St. NW, and all cable pulling has been completed.
- Crews completed three splices, with five splices remaining on the final cable.

August 6 - 13

- No additional outages occurred.
- All splices were completed to the final feeder.
- Final cable tested, approved for service and fully energized.

PEPCO'S RESPONSE (IMT MOBILIZATION):

- Pepco's IMT was activated from July 16th through August 2nd with support from a dedicated Transmission & Substation Taskforce that was activated through the entire event and restoration process
- Generation deployment occurred during restoration efforts to minimize load shedding, with strategies staging generators at key customer sites to support reliability until full restoration was achieved
- Engineering Contingency measures—including transformer bypasses, network transfers, and mobile transformer deployment—were developed to mitigate operational risk during restoration efforts
- The IMT deployed the on-site Mobile Command Vehicle in the neighborhood to answer questions and to provide information on the potential emergency outages during the restoration due to the high temperatures and storm activity
- The Customer team remained heavily engaged in proactive outreach to customers throughout the course of the event
  - Beyond speaking with customers through outbound calls, the Customer Operations team leaders personally visited impacted Embassies, Commercial Customers, Assisted Living Facilities, Master Meter building Customers, and Small and Medium Business Customers
  - The team members provided the customers updates on crews' efforts to restore the system back into full configuration, encouraged energy conservation, and inform them that there remains a chance for unplanned/planned outages over the duration of the repairs

ROOT CAUSE ANALYSIS:

- Two sub-transmission 69kV self contained fluid filled (SCFF) cable feeders were involved in the event (69041 and 69042). The 69041 and 69042 feeders were energized in 1977 and 1980, respectively.

- Cable fault of 69042 feeder was initiating failure event. Cable faulted in MH30 (11th and Clifton St NW).

- During the 69042 fault, 69041 feeder suffered collateral damage from fault interaction through shared grounding (feeders share manholes in this section) in MH28 (11th and V St NW), which caused a sudden and significant leak in MH28 of dielectric fluid from 69041 circuit. Cable fault on 69041 circuit occurred shortly after in MH36 (11th and Monroe NW) due to loss of dielectric fluid pressure.

RESTORATION EFFORTS:

- Restoration efforts for failed subtransmission feeders 69041 and 69042 were supported by internal crews as well as two primary underground transmission contractors working around the clock for the duration of the event
- The team conducted a thorough investigation and identified extensive damage across multiple cable sections, resulting in extended restoration timelines for both feeders
    - Damage assessment is in-depth process for underground transmission SCFF cable requiring testing of dielectric fluid at each impacted cable splice and cable section
    - Steps were taken to try to minimize the amount of cable sections and splices needed for replacement to minimize restoration timelines
- After damage assessment completed, damaged cable sections and splices were removed. The conduit sections were then certified prior to installing new cable
- After new cable was installed, cable splicing occurred in each of the manholes to connect the new cable sections
- Once all damaged assets were replaced, the feeder was repressurized with dielectric fluid and the hydraulic system was restored
- The feeders were then electrically tested and commissioned to be returned to service

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QUESTIONS AND/OR COMMENTS

Thank you for your participation and engagement this afternoon.

For any follow-up, contact:
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CERTIFICATE OF SERVICE

I hereby certify that a copy of Potomac Electric Power Company's PIWG Minutes and presentation from August 29, 2025 Meeting was served this 5th day of October 2025 on all parties in Formal Case No. PEPPIWGR-2025 by electronic mail.

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