Pepco Community Bulletin Feeder 15197 - Serving the Crestwood and Petworth Communities Issue 5 - July 2007

July Edition ● July Edition

Background Overview of Feeder 15197

For the past two years, residents have expressed concern regarding the level of service provided by Pepco. The supply line, Feeder 15197, serves the communities comprising Crestwood and part of Petworth (a map is available at http://www.crestwood-dc.org/). To remedy the problem, Pepco is committed to investing approximately \$1.8 million to take the necessary steps to improve the current level of service.

Feeder 15197 originates in Northeast D.C. at the Fort Slocum Substation, on North Dakota Avenue, N.E., and extends for 11.9 miles into Northwest D.C. along Nicholson Street, NW, Missouri Avenue, NW, and Allison Street NW, between Kansas Avenue, NW, and 14th Street, NW, 14th Street, NW between Webster and Ingraham Streets, NW and Webster Street, NW between 14th and 18th Streets, NW.

While part of the feeder is underground, sixty-six percent (66%) is overhead, and travels through a maze of trees. Many times outages are caused by tree branches falling onto overhead lines, wind/lightning, street level accidents, animals coming in contact with energized equipment and accidents from digging into buried lines.

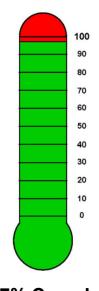
In 2005, Feeder 15197 was identified as a priority feeder, based on the frequency and duration of outages. Pepco reported this finding to the Public Service Commission and took corrective actions that included:

- Installing automatic circuit recloser (ACR), an automatic sectionalizing device.
- Installing additional fuse protection at various locations along the route of the feeder.
- Replacing deteriorating equipment, such as cross arms.
- Installing animal guards.
- Installing lightning arresters and animal guards at various locations.
- Installing tree wire along 17th Street NW.

In that same year, 55% of the feeder's outages were due to tree limbs and storms. In 2006, 45% of the outages were due to trees and storms, following the improvements outlined above.

As a result, Pepco has undertaken a number of more comprehensive improvements and upgrades to improve feeder reliability. The variability of weather from year-to-year, and the increasing age of already mature trees in the area preclude our ability to predict the expected improvement in reliability performance. Nonetheless, Pepco is confident that the planned improvements will significantly reduce the types of outages recently experienced on the feeder.

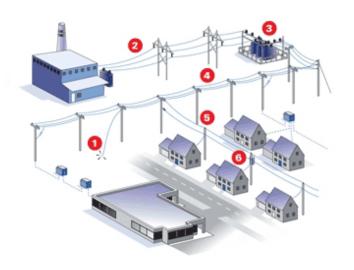
Overall Project Status



97% Complete

Steps to Service Restoration

When storms hit our service territory, and customers are without power, all personnel are called in to work for the quickest possible restoration. Even if you do not see service vehicles on your street, rest assured Pepco is working to get power to you quickly. Customers should stay clear of downed power lines, and treat all lines as if they are live, energized, and dangerous. In the event our system is damaged by severe weather, Pepco repairs equipment which will restore the largest numbers of customers first. The order of restoration is detailed below:



- 1. Downed live wires or potentially life-threatening situations and public health and safety facilities without power.
- 2. Transmission lines serving thousands of customers.
- 3. Substation equipment.
- 4. Main distribution lines serving large numbers of customers.
- 5. Secondary lines serving neighborhoods.
- 6. Service lines to individual homes and businesses.

Home Electric Generator Safety



Regardless of the type of generator you have, certain basic safety rules apply:

- Never operate a generator in a closed, interior space such as a garage. Just like your automobile, a
 portable generator uses an internal combustion engine that emits deadly carbon monoxide. Make certain
 that all exhaust fumes will not enter the house. Only operate it outdoors in a well-ventilated, dry area, away
 from air intakes to the home.
- Use the proper power cords. Plug appliances into a generator using heavy-duty, outdoor-rated cords with a wire gauge adequate for the appliance load.
- Never plug a generator into a regular household outlet. By doing this you can energize "dead" power lines
 and injure neighbors or utility workers. Connect individual appliances that have their outdoor-rated cords
 directly into the receptacle outlet of the generator.
- Make certain your generator is properly grounded to prevent electrical shock. Consult the manufacturer's manual for correct grounding procedures.
- Do not try to refuel a generator while it is running. Store gasoline and other fuels outside the living area in properly labeled containers. Always have a fully charged fire extinguisher near by an operating generator.

Finally, remember that Pepco is working to restore your service as soon as possible.

Current Status of Feeder 15197

Work is expected to be completed by September 1, 2007.

Pepco appreciates your patience, and welcomes any feedback on how we can deliver better service. Please contact Kimberley Johnson at 202-872-2477 or kriohnson@pepco.com with comments.

Project Overview of Feeder 15197

Project Status The following corrective actions began the week of November 20, 2006: Inspected equipment in 71 manholes along 9th Street, NW, and re-taped the connections and splices. 25 50 75 100 % 100% Completed Replaced approximately 8,000 feet of underground cable along 9th Street between Allison Street, NW and Nicholson Street, NW. Estimated completion 50 100 % 75 was February 2007 – actual completion was January 23, 2007. 100% Completed Replaced approximately 20,000 feet of bare wire overhead lines with tree wire. 100% Completed 25 50 75 100 % Reroute trunk of feeder avoiding trees and install pre-assembled aerial cable (PAC) along Madison Street, NW, 4th Street, NW, and Missouri Avenue, NW. 0 25 50 75 100 % 100% Completed - Construction in Progress Replace the existing open wire of the main trunk with pre-assembled aerial cable (PAC) along Allison Street, NW from 9th Street, NW to 14th Street, NW, 25 50 100 % and 14th Street, NW from Allison Street, NW to Webster Street, NW, and Webster Street, NW from 14th Street, NW to 17th Street, NW and 17th Street, NW from Webster Street, NW to Decatur Street, NW. 100% Completed - Construction in Progress Replace existing bare wire with tree wire and fuse as a lateral along 17th Street, NW. 50 25 75 100 % 90% Completed - Construction in Progress Replace four (4) existing manually operated gang switches with SF6 remote operated switches. 25 50 75 100 % 45% Completed - Construction in Progress Relocate automatic circuit recloser (ACR) to Webster St. between 17th & 18th 25 50 75 100 % Streets, NW. 100% Completed Trim / remove 20-25 trees identified as requiring immediate attention. 100% Completed 25 50 100 % 75 Address 12 other tree issues (5 removals). 100% Completed 25 50 75 100 %

25

50

75

100 %

Pepco's Vegetation Management is working with the DC Department of Transportation Urban Forestry Administration (UFA) to resolve approximately 8

remaining issues.

100% of issues were resolved

Glossary of Terms

Animal Guard: A non-conductive device installed on energized electrical equipment to minimize customer outages due to animal contact.

Automatic Circuit Recloser (ACR): Remote control device monitored and operated by the Control Center designed to detect faults on the feeder downstream, and open to isolate faults from the rest of the feeder, thereby reducing the number of customers affected. The ACR also attempts to automatically reclose circuits because many of the faults are temporary and usually fall clear. In instances where faults do not clear themselves, the ACR will remain open until crews make repairs.

Cross Arm: A non-conductive assembly (usually wooden) for supporting electrical wires on a utility pole.

Directional Pruning: remove branches from a tree in such a way to encourage new growth in a particular direction and away from overhead conductors.

Fail: an apparently healthy live tree can "fail" (break, split, tear or uproot due to wind or ice load).

Feeder: An electrical line that carries a large block of power from the substation to the customer. This includes overhead as well as underground facilities.

Fuse: A safety device used to protect an electric circuit against excessive current.

Gang Switch: A switch manually operated by field crews to isolate faults, or to restore customer load.

Lateral: A tap/wire off the main trunk of the feeder serving the smaller areas, protected by a fuse.

Lightning Arrester: Protective devices for limiting surge voltages due to lightning strikes or equipment faults or other events, to prevent damage to equipment and disruption of service (also called surge arresters). These devices are installed on many different pieces of equipment such as power poles and towers, power transformers, circuit breakers, bus structures, and steel superstructures in substations.

Manhole: An underground utility vault used to house electrical and other utility equipment.

Pre-assembled Aerial Cable (PAC): A type of insulated overhead cable which is more robust than standard overhead wire and is better able to withstand falling tree limbs.

SF6 Remote Switch: A switch that is monitored and operated via remote control by the Control Center to isolate or restore customer load.

Subordination Pruning: a gradual removal of a limb or lead of a tree over a period of growing seasons, in order to allow other part or parts of tree to dominate.

Tree Wire: An insulated overhead wire used to withstand incidental tree contact, particularly in heavily wooded areas.

Uproot or Wind-throw: when a tree topples over due to insufficient structural root support.

