



DPL – Crest Substation



Review of the Siting and Permitting Process

Presented by: Chuck Reed
October 17, 2016

Topics to be covered....

- A few words about Delmarva Power
- Project Purpose and Need
- Project Description
- Siting Analysis
- Site Planning and Design
- Permits and Approvals
- Timeline
- Questions?



About Delmarva Power

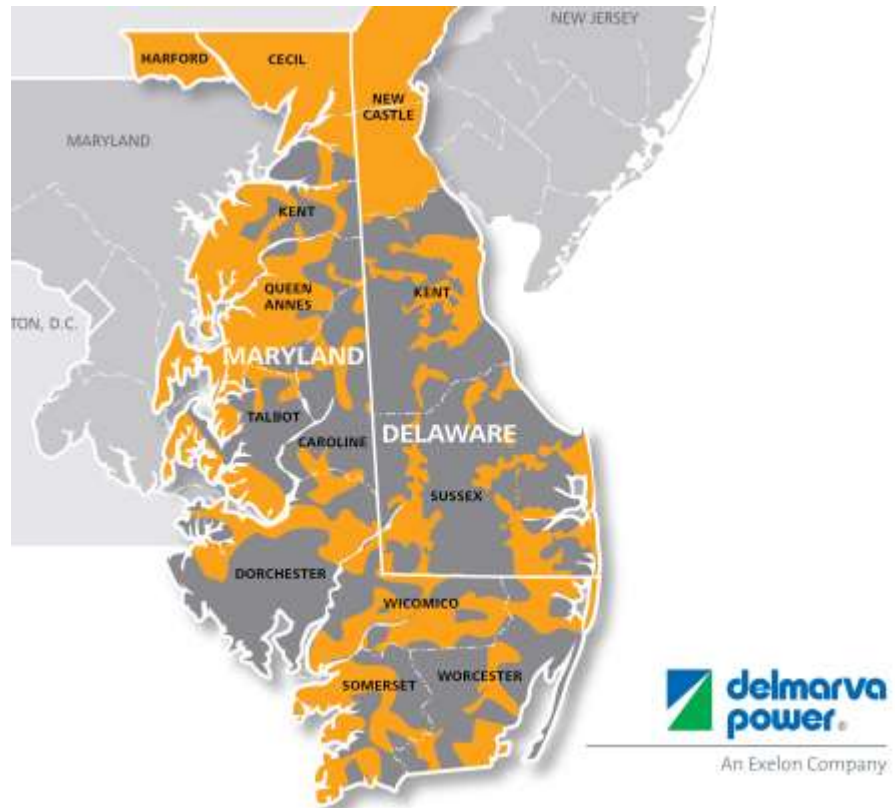
- We provide safe, reliable and affordable electricity to more than 515,000 customers throughout Delaware and along the Eastern Shore of Maryland, and natural gas to 130,000 customers in northern Delaware.
 - We are a regulated public utility owned by Exelon Corporation
 - Exelon Corporation subsidiaries also include Atlantic City Electric, BGE, ComEd, PECO and Pepco



As of 2/19/16

Delmarva Power Quick Facts

- First incorporated in 1909
- Service territory:
5,000 square miles
- Electric customers: 515,000
 - Delaware: 312,000
 - Maryland: 203,000
- Gas customers: 130,000
- Population served:
 - Electric: 1.4 million
 - Gas: 600,000
- Employees: 898
 - IBEW Local 1238
 - Members: 399
 - IBEW Local 1307 (Salisbury)
 - Members: 239
- Facilities: 10
- Substations: 160
- Over the last five years, we have donated more than \$4.7 million to 750 organizations



Purpose and Need Statement

The purpose of this project is to improve electric distribution reliability in Cecil County, Maryland.

DPL determined the need to construct a new substation to improve reliability...Crest Substation

Project Description

- The project includes the construction of a new substation on the western side of MD 272 (North East Road) near Zion, Cecil County, Maryland.
- The project involves grading an existing agricultural field for the construction of the substation and construction of associated electrical framing/components and outbuildings.
- An access road from MD 272 crosses a watercourse (agricultural ditch) bisecting the property which will require culvert and bioswale installation.
- New electric distribution lines will be horizontal direction drilled (HDD) under the agricultural ditch to connect with distribution lines along MD 272.



Site Location Map

Siting Analysis

A multidiscipline approach, including:

- Substation Engineering
- Civil Engineering
- Transmission Engineering
- Distribution Engineering
- Real Properties
- Environmental
- Project Management
- Legal Services
- Government Affairs



Siting Analysis continued....

The purpose of the Siting Analysis is to meet the Project purpose and need while avoiding or minimizing resource impacts to the greatest extent practicable.



Siting Analysis continued....

Some of the siting constraints considered:

1. Proximity to existing transmission supply.
2. Proximity to existing roads (Access).
3. Minimal parcel size needed (based upon conceptual design).
4. Existing Land Use designations
5. Presence/absence of natural and cultural resources
6. Local zoning requirements
7. Landowner concerns

Siting Analysis continued....

Process followed consisted of....

1. Identification of available land in the project area.
2. Desktop GIS analysis of identified land for existing easements, natural and cultural resources, and access concerns.
3. Landowner engagement (right-of-entry agreements/options).
4. Conduct Phase I ESA and field studies of potential sites to determine feasibility/constructability.
5. Decide on preferred site and complete property purchase.
6. Community involvement....



CREST SUBSTATION PROJECT VIEWPOINT LOCATION MAP



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EXISTING CONDITIONS



PHOTO SIMULATION VIEWPOINT 1

DATE: 4/06/16

TIME: 9:51 AM

LOOKING: Southwest

PROPOSED CONDITIONS



Photo simulations are for discussion purposes only. Final design may change pending public and regulatory review.

CREST SUBSTATION PROJECT



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EXISTING CONDITIONS



PHOTO SIMULATION VIEWPOINT 2

DATE: 4/06/16

TIME: 10:06 AM

LOOKING: West

PROPOSED CONDITIONS



CREST SUBSTATION PROJECT



Photo simulations are for discussion purposes only. Final design may change pending public and regulatory review.



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Permitting Process

Generally, the steps followed included:

1. Agency consultation:
 1. U.S. Fish and Wildlife (USFWS)
 2. Maryland Historical Trust (MHT)
 3. Maryland Department of Natural Resources (MD DNR)
 4. MD DNR Wildlife and Heritage Service (WHS)
2. Wetland Delineation, Rare/Threatened/Endangered (RTE) species survey, cultural resource reviews and geotechnical studies completed.
3. Site Plan development to maximize avoidance or minimization of impacts
4. Prepare & Submit permit applications.
 1. Joint Permit Application (JPA) submittal for Federal and State authorization.
 2. County submittal for Site Plan approval.

Approvals and Authorizations Received

We received the following:

1. MDSPGP-4 Category A-C(3) – Utility Access Roads
 - We avoided wetland impacts but we did have permanent impacts to 120 linear feet of stream
2. County Authorizations, via Grading & Building Permits:
 - Site Plan Approval (Planning & Zoning)
 - E&S Plan Approval (SCD)
 - SWM and E&S Plan Approval (PW)
3. MDE General Permit for Stormwater Associated with Construction Activity (NOI)
 - Received subsequent to E&S Plan approval

STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION
AUTHORIZATION TO PROCEED

AUTHORIZATION NUMBER: 201561183/15-NT-0241

EFFECTIVE DATE: February 5, 2016


EXPIRATION DATE: February 5, 2019


AUTHORIZED PERSON: Delmarva Power and Light
PO Box 9239
Newark, Delaware 19174
Attn: Mark Marini

IN ACCORDANCE WITH ENVIRONMENT ARTICLE §5-503(a) AND §5-906(b), ANNOTATED CODE OF MARYLAND (2007 REPLACEMENT VOLUME), COMAR 26.12.04 AND 26.23.01, AND 26.08.02 AND THE ATTACHED CONDITIONS OF AUTHORIZATIONS, Delmarva Power and Light ("AUTHORIZED PERSON"), IS HEREBY AUTHORIZED BY THE WATER MANAGEMENT ADMINISTRATION ("ADMINISTRATION") TO CONDUCT A REGULATED ACTIVITY IN A NONTIDAL WETLAND, BUFFER OR EXPANDED BUFFER, AND/OR TO CHANGE THE COURSE, CURRENT OR CROSS-SECTION OF WATERS OF THE STATE, IN ACCORDANCE WITH THE ATTACHED PLANS APPROVED BY THE ADMINISTRATION ON February 4, 2016 ("APPROVED PLAN") AND PREPARED BY Black & Veatch Corporation, AND INCORPORATED HEREIN, AS DESCRIBED BELOW:

To conduct regulated activities associated with the construction of a new substation. The project includes grading, installation of a storm-water management basin, construction of a culvert crossing, access Road and new distribution lines. The project permanently impacts 120 linear feet (744 square feet) of unnamed tributary of Northeast Creek. The project location is on MD 272 approximately 2.6 miles north of I-95 in Cecil County.

MD Grid Coordinates 222330 x 489498


William Seiger, Chief
Watersway Construction Division


Lynn Buhl, Director
Water Management
Administration

Attachments: Conditions of Authorization
Plans
MDSPGP-4 Category A activity (A-C(3))

cc: WMA Compliance Division w/ file



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Challenges Encountered

- Parcel size relative to required LOD
 - Siting criteria vs. design requirements
- Meeting County SWM requirements
 - Recently enacted SWM requirements proved challenging
- Timing restriction on in-stream work
 - March 1 – June 15 work restriction to protect aquatic species in Northeast Creek
- Community engagement
 - Adjacent landowners notified via mailings
 - Impacts didn't trigger public notification requirements, however...

Lastly...Timeline

- Project Initiation: 2009-2010
- Preliminary Planning & Design: 2010-2011
- Siting Analysis & Site Selection Finalization: 2011-2013
- Field Studies & Design: 2014-2015
- Permitting Process: 2015 (10 months)
- Construction Start – 2016 (in-progress)

