

Subregional RTEP Committee – Mid-Atlantic ODEC Supplemental Projects

July 20 , 2023

Needs

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

ODEC Transmission Zone: Supplemental 6750 Kellam-Cheriton 69kV Rebuild

Need Number: ODEC-2023-01

Meeting Date: 07/20/2023

Process Stage: Need

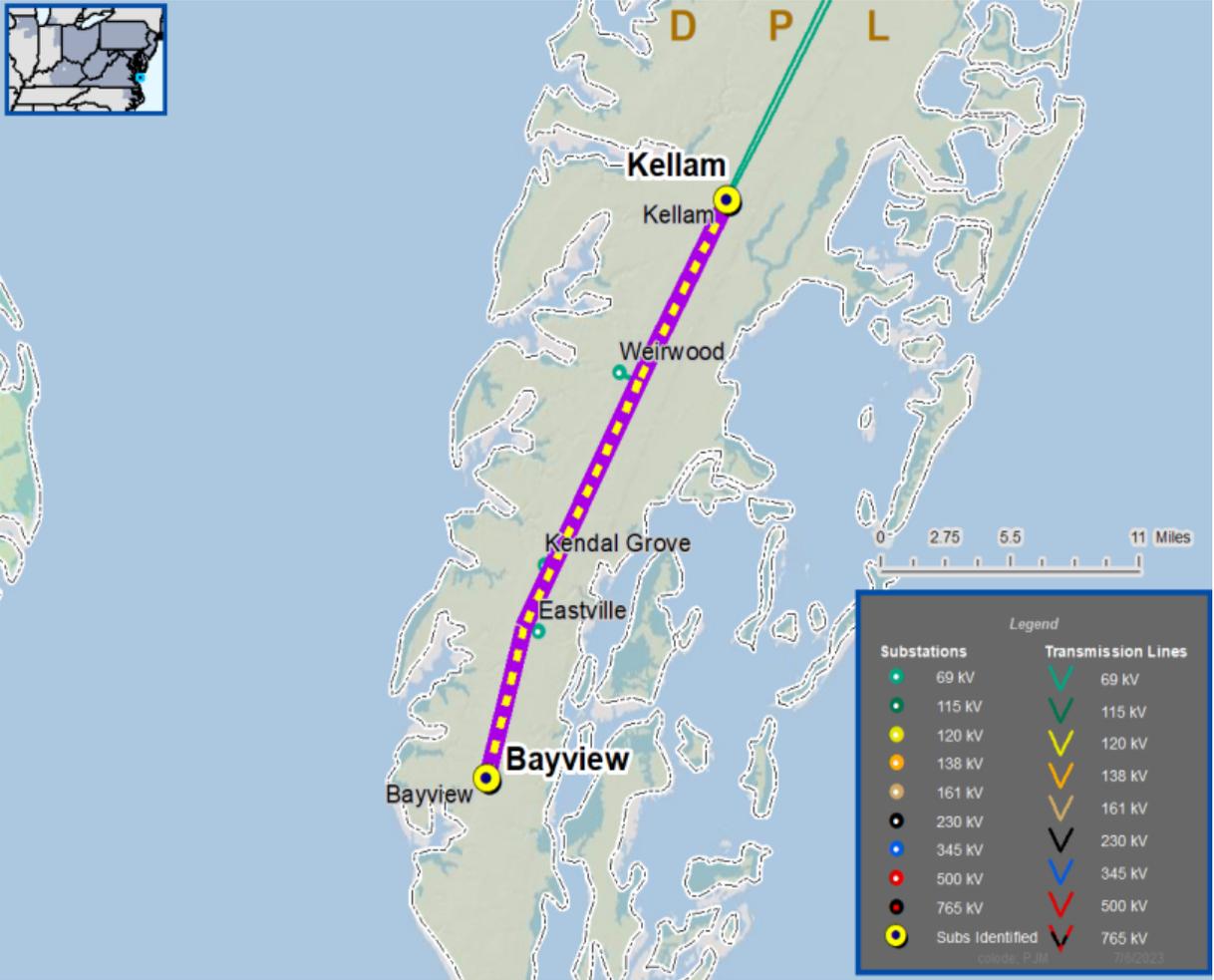
Supplemental Project Driver: ODEC End-of-Life Criteria

III.B.2: ODEC transmission shall replace aged facilities which because of their age or condition pose a risk to reasonable reliability and resilience levels.

III.B.3: ODEC transmission shall replace aged facilities which because of their age or condition pose an increased total cost as compared to a new facility.

Problem Statement:

- The wood poles on the 6750 line (Kellam to Cheriton/Bayview) were erected in 1963 and are 60 years old and at the end of life. This is a radial 20-mile 69kV line.
- There are approx. 155 wood H pole structures off which approx. 23 structures have been replaced since ODEC took ownership in 2008.
- Annual inspections identify wood pole structures that have the following age-related damage: pole top rot, woodpecker damage, cross arm rot, pole rejects, etc.
- Industry guidelines and other Transmission owners indicate equipment life for wood structures is 35-55 years, conductors and connectors is 40-60 years, and porcelain insulators is 50 years.



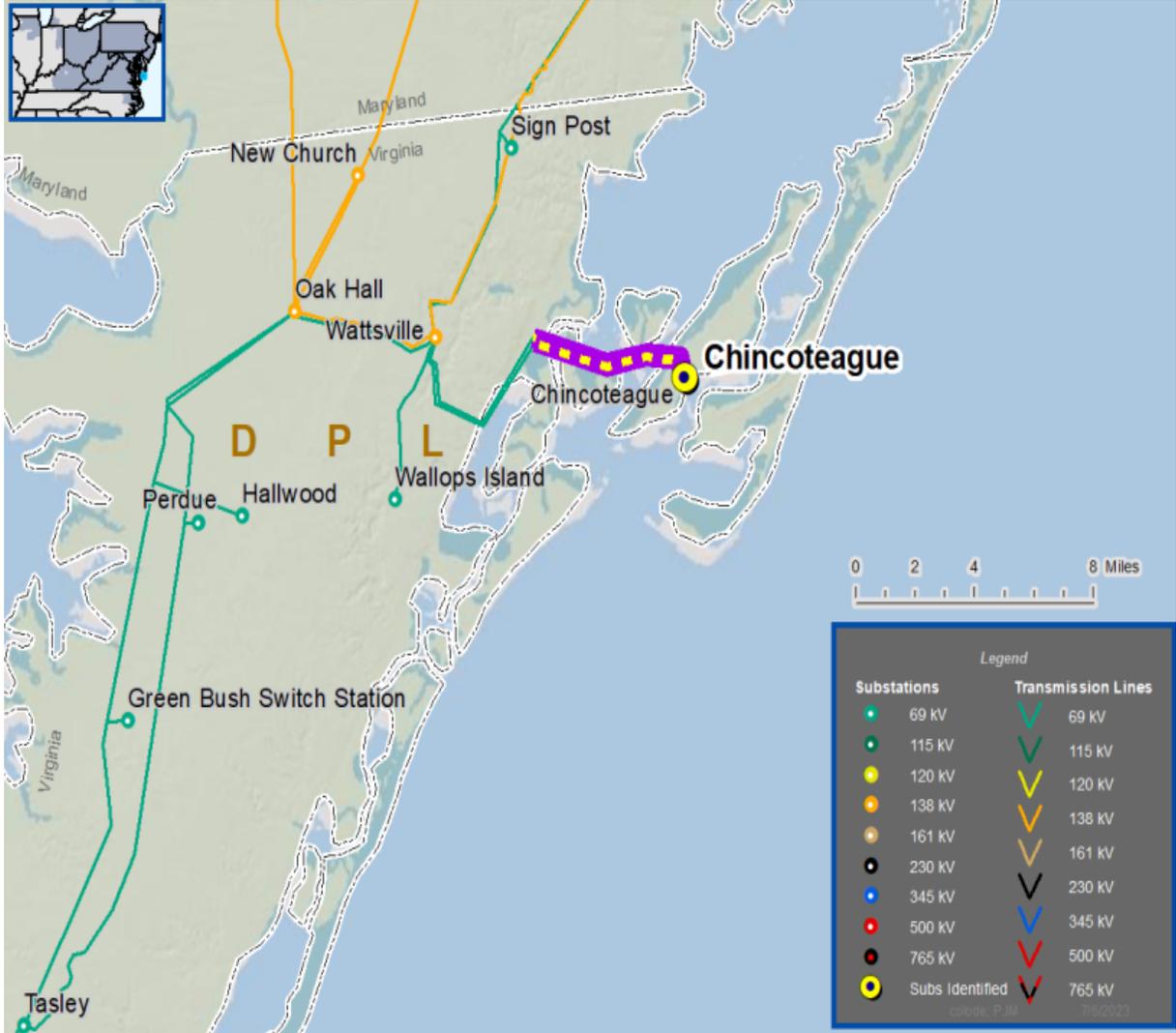
ODEC Transmission Zone: Supplemental 6745/46 69kV Chincoteague Cable

Need Number: ODEC-2023-02
Meeting Date: 07/20/2023
Process Stage: Need

Supplemental Project Driver: ODEC End-of-Life Criteria
 III.B.2: ODEC transmission shall replace aged facilities which because of their age or condition pose a risk to reasonable reliability and resilience levels.
 III.B.3: ODEC transmission shall replace aged facilities which because of their age or condition pose an increased total cost as compared to a new facility.

Problem Statement:

- The 3 conductor 500 MCM medium pressure fluid-filled PILCA cable was installed in the 1980s and is 40 years old and at the end of its life. The channel crossing is approx. 500 feet.
- Cables are the only two radial transmission sources to the Chincoteague station.
- Cable and its attachments have had multiple repair events (5 times under ODEC ownership, 14 times under prior ownership) that require isolating one of the radial feeds to the station and contracting with a Canadian firm to perform repairs.
- The outage clearances associated with oil leak repairs generally last between a week to 3 weeks.
- Spare materials for this cable and its accessories are becoming obsolete.
- Specialized contractors to support cable repairs are not widely available and cannot provide immediate support.



Questions?



Appendix

High level M-3 Meeting Schedule

Assumptions	Activity	Timing
	Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
	Stakeholder comments	10 days after Assumptions Meeting
Needs	Activity	Timing
	TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
	Stakeholder comments	10 days after Needs Meeting
Solutions	Activity	Timing
	TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
	Stakeholder comments	10 days after Solutions Meeting
Submission of Supplemental Projects & Local Plan	Activity	Timing
	Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
	Post selected solution(s)	Following completion of DNH analysis
	Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
	Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

Revision History

7/10/2023 – V1 – Original version posted to pjm.com