

# SRRTEP Committee: Western DLC Supplemental Projects

October 16, 2020

# Solutions

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

**Need Number:** DUQ-2020-002

**Process Stage:** Solutions Meeting (SRRTEP-W, 10/16/2020)

**Previously Presented:**

Needs Meeting (SRRTEP-W, 9/11/2020)

**Project Driver:**

Equipment Material Condition, Performance, and Risk

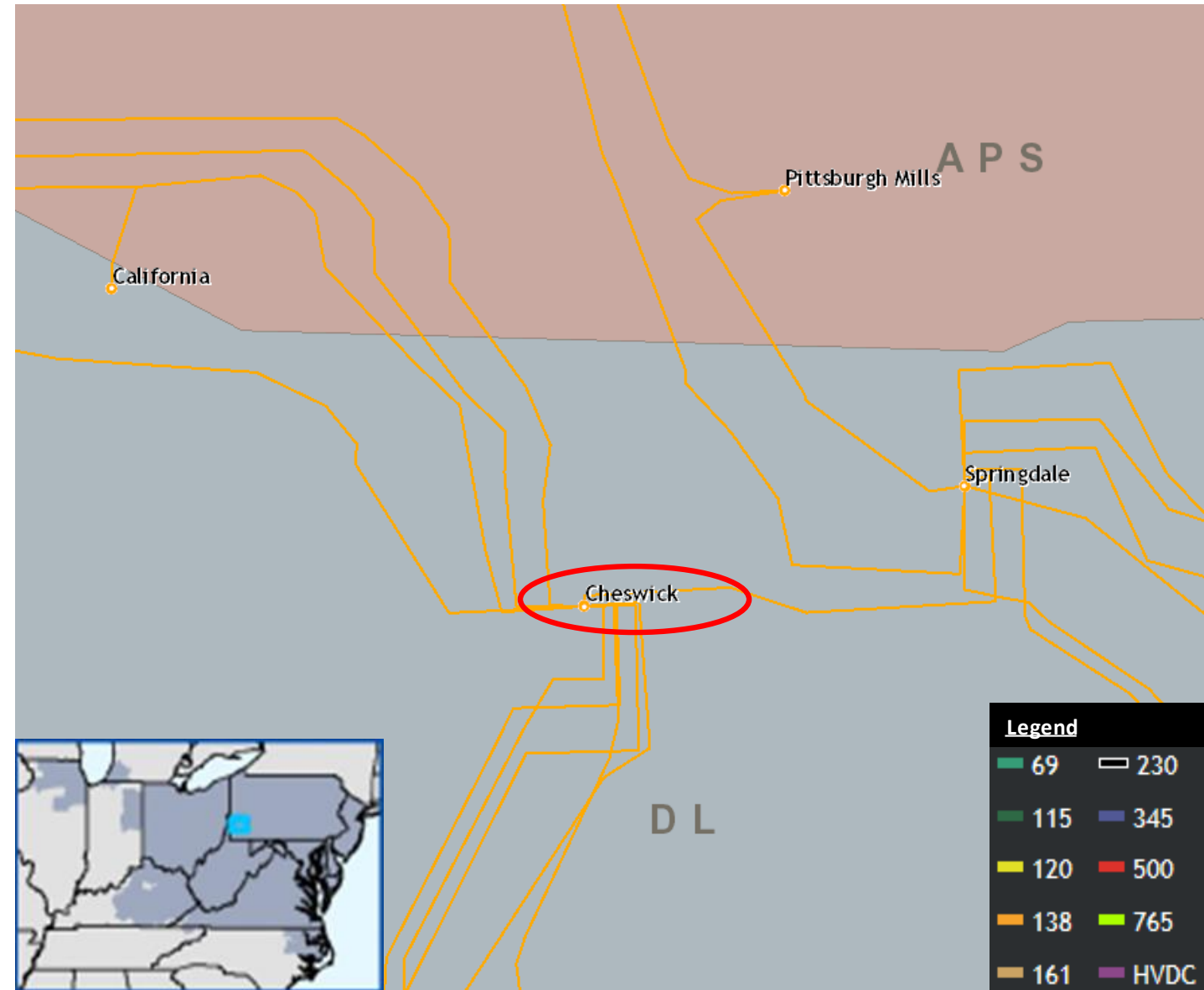
**Specific Assumption Reference:**

Transmission infrastructure replacements that are consistent with efficient asset management decisions

**Problem Statement:**

The existing #2-4 138kV bus tie and Z-56 Bus #2 breakers at Cheswick SS are ITE type 138KM breakers that were manufactured in 1968. ABB (who now owns the rights to ITE breakers) does not support this model breaker, which creates maintenance difficulties due the lack of available spare parts.

Cheswick SS also contains two (2) 138kV capacitor banks. Substations with 138kV capacitor banks experience higher frequency current during faults, due to the contribution of the capacitors. Oil breakers are susceptible to damage from these higher frequency currents.



**Need Number:** DUQ-2020-002

**Process Stage:** Solutions Meeting (SRRTEP-W, 10/16/2020)

**Potential Solution:**

Replace the two existing 138 kV breakers with GE type DT-1, 145kV, 63kA Int., SF6 Breaker.

**Alternatives Considered:**

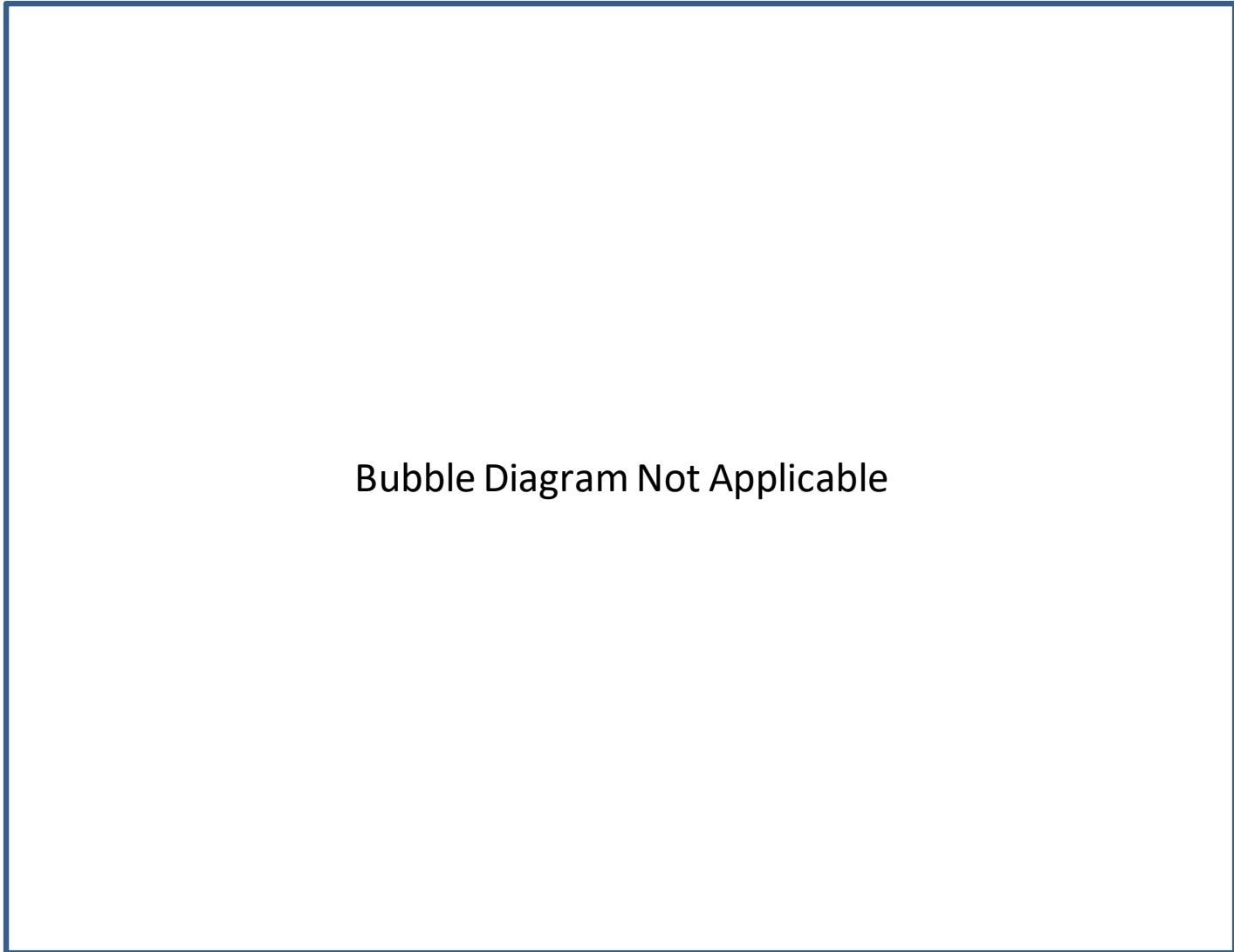
No feasible alternatives exist for this project.

**Estimated Cost:** \$400,000 per breaker

**Projected In-Service:** November 2020

**Project Status:** Engineering and construction stage

**Model:** N/A



# 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

10/6/2020 – V1 – Original version posted to pjm.com