

Subregional RTEP Committee – Western FirstEnergy Supplemental Projects

June 15, 2022

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

Need Number: ATSI-2022-014
Process Stage: Need Meeting – 06/15/2022

Supplemental Project Driver(s):

*Equipment Material Condition, Performance, and Risk
 Infrastructure Resilience*

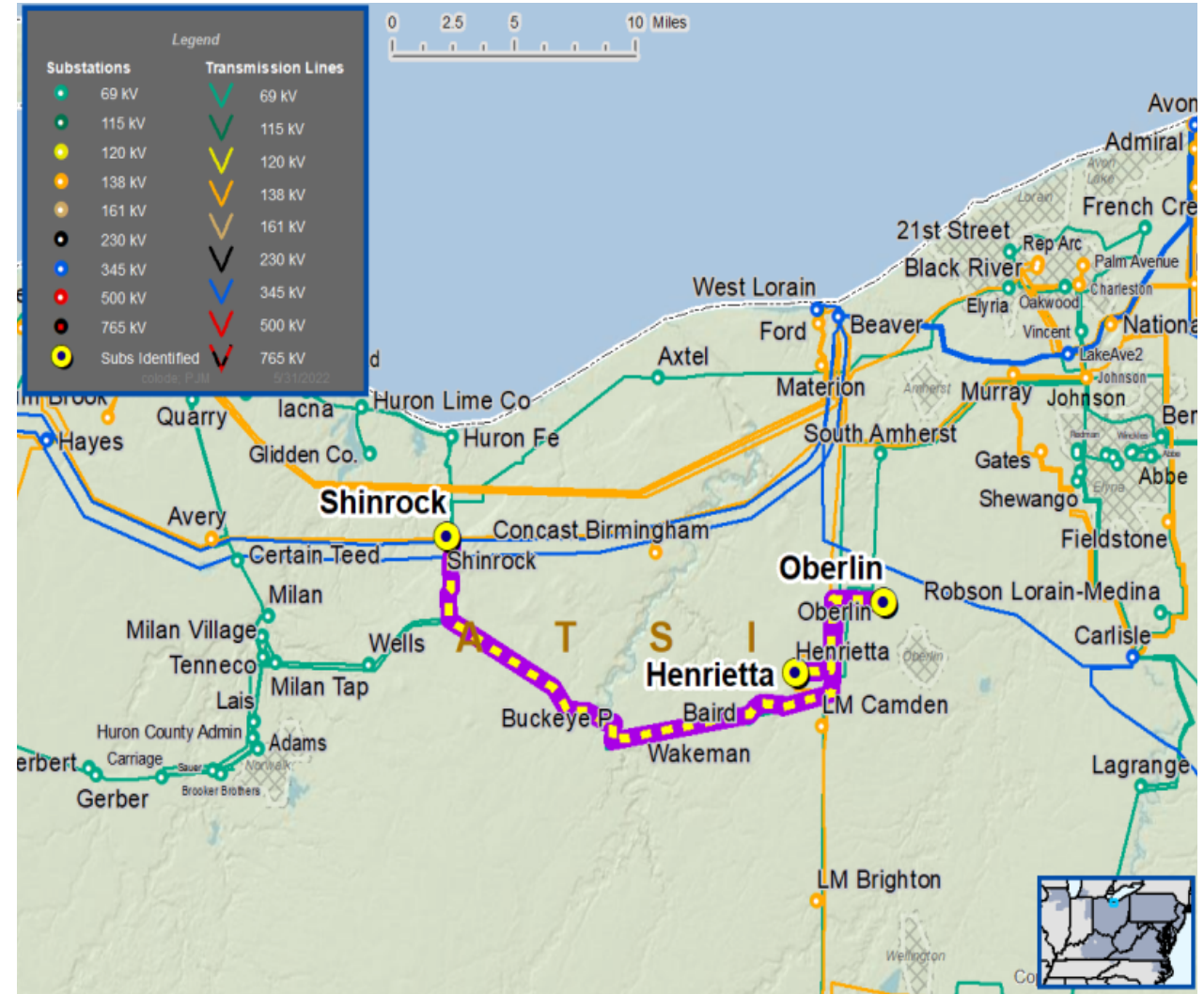
Specific Assumption Reference(s):

Global Factors

- System Reliability and Performance
- Increasing negative trend in maintenance findings
- Age/condition of transmission line conductor, hardware and structures
- Negatively impact customer outage frequency and/or duration

Problem Statement

- A common structure outage of the 69 kV line section (Shinrock-Oberlin & Henrietta-Oberlin 69 kV Line, approx. 1.6 miles) will result in a power outage of the Oberlin Muni substation impacting approximately 3,100 customers, 22 MW of load, and 19.2 MW of wholesale generation.
- A maintenance outage of the double circuit section of the 69 kV line (Shinrock-Oberlin & Henrietta-Oberlin 69 kV Line) will require an outage of the Oberlin Muni substation impacting approximately 3,100 customers, 22 MW of load, and 19.2 MW of wholesale generation.
- In 2021, the Oberlin Muni delivery point was outaged two times to address emergency repairs on the double circuit portion of the line (approx. 2-3 hours each outage).

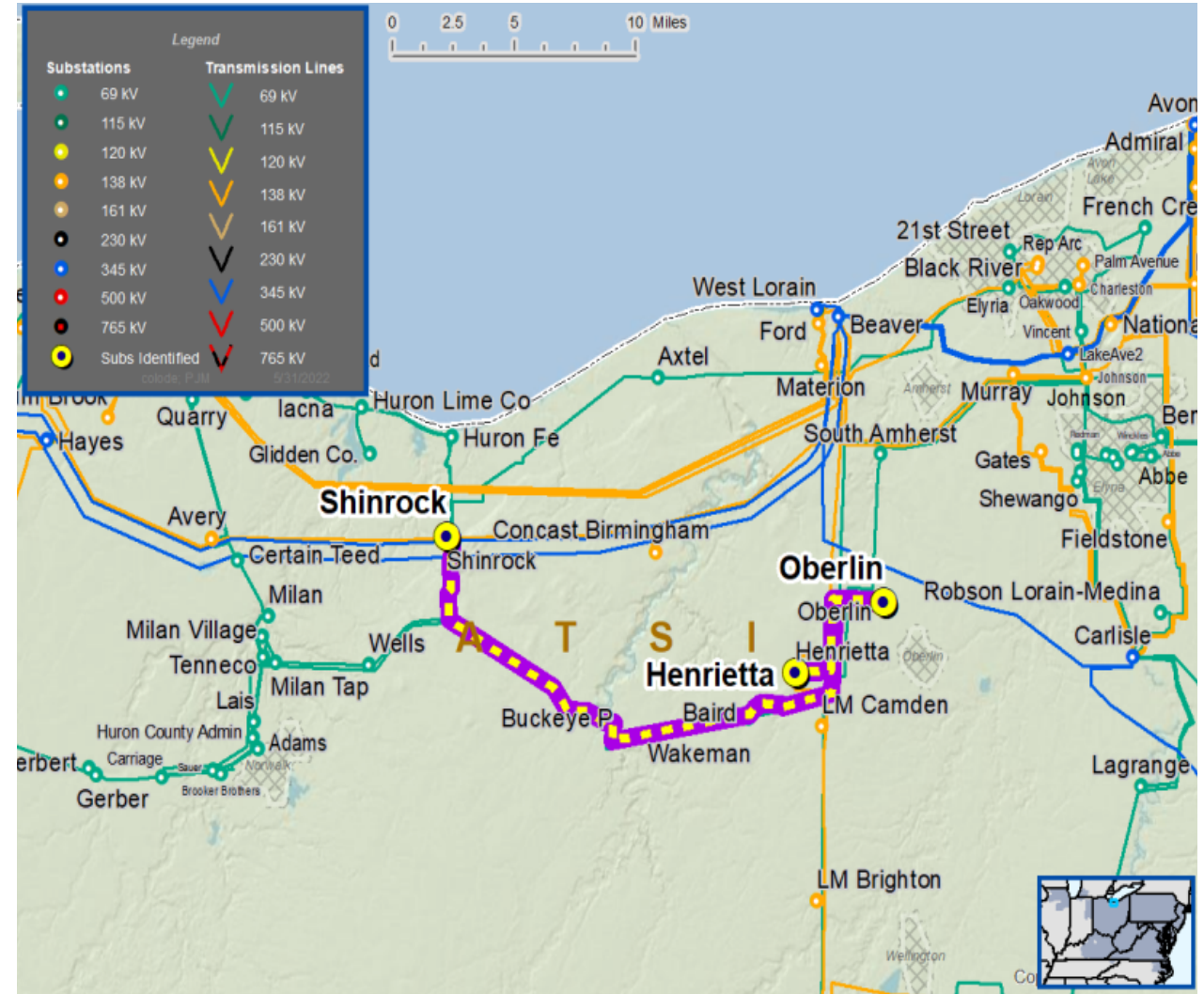


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Problem Statement

- A ground and aerial CVI inspection conducted in 2021 identified:
 - 18 of the 27 common structures on the 69 kV line section (Shinrock-Oberlin & Henrietta-Oberlin 69 kV Line) have defects including rotten and /or cracked wood poles, cracked crossarms and crossarm braces, woodpecker damage and worn static wire attachments
 - The Shinrock-Oberlin-Henrietta 69 kV Line (approx. 26 miles, excluding the common structure portion of the line), has a 25% defect rate consisting of rotten poles, crossarms, and braces along with cracked insulators, and worn hardware.
- Since 2016:
 - The Shinrock-Oberlin 69 kV Line had four (4) momentary and nine (9) sustained outages.
 - The Henrietta-Oberlin 69 kV Line had two (2) momentary and four (4) sustained outages.



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

6/3/2022 – V1 – Original version posted to pjm.com