EVERSOURCE

Supplement Authorization Form

Project Title: East Hampton MBI Initiative – Pole Integrity	Project Number: CD00843
Date Prepared: 04/14/2026	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** POLE INTEGRITY PROGRAM
Initiating Organization: Distribution	**Project Type:** Specific
Project DDE: [redacted]	**Capital Investment part of 5-year plan?** No
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Current Authorized Amount: $ 301.8k	**Approved In-Service Date:** 12/31/2017
Supplement Request: $ 359k	**Estimated In-Service Date:** 12/31/2018
Total Capital Request: $ 660.9k	**Authorization Type:** Supplement Request
	Reason: : Cost Overage

1. Project Background

Project CD00843 was established to proactively reduce outages and enable the system to better withstand day-to-day extreme weather conditions. Pole findings identified during circuit patrols were selected for completion under the System resiliency pole integrity program. Poles requiring structural upgrades- including rotten or cracker crossarms, arrestors, pole replacements, pole shifts, crossarm braces, anchors, down grounds, guying, pins and insulators – were included in the program.

A total of 50 pole locations were identified for remediation as part of the MBI initiative within the East Hampton area work center. The goal of the MBI initiative was to address priority patrol findings and upgrade pole locations to system resiliency standards.

Each identified pole location was assessed using the Pole Foreman structural loading tool and evaluated against system resiliency loading criteria of 95 mph winds or 40 mph winds with ¾-inch ice. In addition, any pole greater than 40 years old was designed for replacement. Fuse protection, animal protection, and zap shields were added to transformers on backbone and lateral circuits.

2. Supplement Justification Overview

The supplemental request for $359k was due to higher material cost, removals and outside services required for this project. Therefore, the total request is $660.9

3. Supplement Justification Detail

This project spanned multiple years and was extended beyond its original timeline. The original scope did not include the additional direct cost.

4. Supplement Cost Summary (Project Total)

Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction Equipment	3.1	1.0	1.5	2.5
Outside Services	374.8	180.9	120.8	301.7
Materials	28.4	16.6	6.2	22.8
Removals	0.0	0.0	78.8	78.8
Risk and Contingency	12.9	0.0	12.9	12.9
Other	-2.5	0.0	-2.0	-2.0
Subtotal	**416.7**	**198.5**	**218.3**	**416.7**

Indirect Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Indirects/Overheads (including benefits)	242.8	102.0	140.8	242.8
Capitalized interest or AFUDC, if any	1.3	1.3	0.0	1.3
Subtotal	**244.1**	**103.3**	**140.8**	**244.1**
Total Capital Costs (Gross)	**660.9**	**301.8**	**359.0**	**660.9**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**660.9**	**301.8**	**359.0**	**660.9**

New Total Request by Year (if applicable)

Note: If multi-year project, include actuals for current and years past, and then show forecasted spend for upcoming years.

Capital Costs	2017	2018	TOTAL
Internal Labor & Equipment	1.4	1.1	2.5
Outside Services	168.5	133.1	301.7
Materials	12.7	10.1	22.8
Removals	42.3	36.5	78.8
Risk and Contingency	0.0	12.9	12.9
Other	-1.1	-0.9	-2.0
SUBTOTAL Direct Cost	**223.9**	**192.8**	**416.7**
Indirects / Overheads	90.4	152.5	242.8
AFUDC	1.3	0.0	1.3
SUBTOTAL Indirect Cost	**91.7**	**152.5**	**244.1**
TOTAL Capital Request	**315.5**	**345.3**	**660.9**
Less Total Customer Contribution	0.0	0.0	**0.0**
TOTAL Project Cost	**315.5**	**345.3**	**660.9**

5. Lessons Learned

N/A

Technical Authorization Form

Date Prepared: 11/18/2016	Project Title: East Hampton MBI Initiative – Pole Integrity
Company/ies: Eversource CT	Project ID Number: CD00843
Organization: Distribution Design	Class(es) of Plant: Distribution
Project Initiator: [redacted]	Project Category: Pole Replacement + Restoration
Project Owner/Manager: [redacted]	Project Type: *Specific*
Project Sponsor: [redacted]	Project Purpose: System Resiliency PURA Docket 12-07-06RE01
Estimated in service date: 9/30/2017	If Transmission Project: *NA*
Authorization Type: *Engineering*	Authorization Amount: $15,868

Project Need Statement *(Description of Issue)*

During the 2016 circuit patrols, several system upgrades were identified to help the Company improve reliability. This project was developed to not only fix these priority issues found during the 2016 circuit patrols, but also take the opportunity to bring these locations up to Resiliency/Eversource standards. This program will be funded under the System Resiliency Pole integrity initiative and, in accordance with the System Resiliency PURA Docket 12-07-06RE01, these locations will be reviewed to ensure proper pole loading, pole top construction and, if needed, these locations will be upgraded to meet the Resiliency/Eversource standards.

A total of [redacted] pole locations were identified to be fixed as part of the MBI initiative. These locations included fixes such as: pole replacements, cross arm replacements, damaged cross arm braces, broken or damaged pole guying, broken or bent ridge pins, broken insulators and missing or cut down grounds. This project is one of twelve created, one for each area work center. This project will address [redacted] locations in the East Hampton area.

Project Objectives

In an effort to proactively prevent outages to the system and improve storm hardening, all backbones and large laterals were patrolled. The goal of the MBI initiative is to fix the priority patrol findings that were identified and upgrade these pole locations to the new System Resiliency Standards.

The MBI initiative projects will be engineering and constructed using contractor resources. A checklist was developed by distribution engineering as a guideline to be used during each pole assessment (checklist is attached to this document). The checklist includes structural and electrical guidance such as replacing poles older than 40yrs and installing fuses on transformers.

Project Scope

This project will address [redacted] locations in the East Hampton area.

Each pole location identified will be assessed using the pole foreman structural loading tool and will be evaluated according to the system resiliency loading criteria (95mph winds or 40mph winds & ¾" ice). In addition to the existing Resiliency standards, any pole greater than 40-yrs old will be replaced, animal protection and zap shields will be added to transformers, and fuses will be added to transformers on the backbone and on laterals.

Background / Justification

The MBI initiative projects were developed in an effort to proactively prevent outages to the system, ultimately allowing the system to better withstand day-to-day and extreme weather events.

Business Process and / or Technical Improvements:

This program will proactively target poles and pole-top attachments that have identified to be in need of fixing.

A checklist was developed by distribution engineering as a guideline to be used during each pole assessment. The checklist includes structural and electrical guidance such as replacing poles older than 40yrs. These guidelines will ensure that each pole being assessed will be fixed or replaced so that meets system resiliency guidelines.

Cost Estimate and Assumptions

Since further analysis is required at each location, the team used fully loaded historical frontier pole shifts cost and Eversource pole replacements cost to help determine a high-level cost for this work (these locations included average traffic control and switching). The following average cost for a pole replacement and pole top replacement was determined: approximately $5,000/location for pole replacements and approximately
$3,000/location to address all other issues (pole top construction and upgrades). Additionally, the team assumed 30 % of pole replacements and 70% other issues to determine the cost per project. These numbers are subject to change based further analysis during detail design.

The total cost of this project is $158,680

In AIMS, pole replacement and cross arm replacement unit costs were used with a 33% contingency in order to match the high-level cost estimates.

Design Alternative CD00843-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	33.00 %
SubTotal:	$119,308
Contingency Amount:	$39,372
Estimate:	$158,680
Reimbursement:	$0
Net Amount:	**$158,680**
Description:	

Item Description	CU	$ / Per	Qty	Amount
POLE OH - POLE - 3ph (CL&P custodian)	16-OH14	[redacted]		$70,140.00
POLETOP OH - Replace wood xarm with composite xarm - 3ph	16-OH17A			$49,168.00

Alternatives Considered with Cost Estimates

Do nothing: If the identified fixes and improvements are not performed as recommended, then system performance will suffer and customer satisfaction and Company MBI will be negatively impacted.

Project Schedule

Describe the project schedule and milestones. Include estimated start and end dates.

Milestone/Phase Name	Estimated Completion Date
Detail Design	12-15-2016
ACT Approval	2-01-2017
Construction	6-1-2017
Close-Out	9-30-2017

Regulatory Approvals

System Resiliency Docket No. 12-07-06RE01

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2017	20%	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Customer Permission / Siting Council / Municipal approvals	2017	5%	Design to minimize customer impact. Project Preplanning and customer/community outreach
Storm delays	2017	2%	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2017	1%	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods
Wetlands / Environmentally sensitive area	201X	5%	Use of mats and specialty equipment, only work during certain times of the year

References

One-Line Diagrams, Attachments, and Images



MBI initiative - Pole Integrity 2017 -11-15