Operations Project Authorization Form

Date Prepared: 3/18/2020	**Project Title:** [redacted] Rejects Reconductoring
Company/ies: Eversource CT	**Project ID Number:** CD01508
Organization: Distribution Electric	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** Line
Project Manager: [redacted]	**Project Type:** Pole Integrity
Project Sponsor: [redacted]	**Project Purpose:** Improve Reliability
Estimated in service date: December 31, 2020	**If Transmission Project: PTF?** N/A
Eng. /Constr. Resources Budgeted?	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Preliminary	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $517K	**Rev4**

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

Per TD-953 – Inspection, Treatment, Restoration and Replacement Guidelines for Distribution System Wood Poles, the town of [redacted] had the Eversource poles inspected. Any street with multiple pole failures was reviewed for the number of poles on the street and the outage history. If greater than 60% of the poles on the street failed, it was reviewed to determine if reconductoring was the best solution. Based upon this criterion six (6) streets were selected to reconductor.

Project Costs Summary

Note: Dollar values are in thousands

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$11	$0	$0	$11
Overtime Labor	$3	$0	$0	$3
Outside Services	$240	$0	$0	$240
Materials	$21	$0	$0	$21
Other, including contingency amounts (describe)	($1)	$0	$0	($1)
Total Direct Costs	**$274**	**$0**	**$0**	**$274**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$98	$0	$0	$98
Capitalized interest or AFUDC, if any	$2	$0	$0	$2
Total Indirect Costs	**$101**	**$0**	**$0**	**$101**
Total Capital Costs	**$375**	**$0**	**$0**	**$375**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$375**	**$0**	**$0**	**$375**
Total O&M Project Costs	**$142**	**$0**	**$0**	**$142**

Total Project Cost	**$ 517**	**$ -**	**$ -**	**$ 517**

	Prior Authorized	20__	20__	20__+	Totals
Capital Additions - Direct	$0	$211	$0	$0	$211
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$63	$0	$0	$63
Total - Direct Spending	$0	$274	$0	$0	$274
Capital Additions - Indirect	$0	$98	$0	$0	$98
Subtotal Request	$0	$373	$0	$0	$373
AFUDC	$0	$3	$0	$0	$3
Total Capital Request	$0	$376	$0	$0	$376
O&M	$0	$141	$0	$0	$141
Total Request	$0	$517	$0	$0	$517

Technical Justification:

Project Need Statement

The project provides an opportunity to resolve reliability issues.

Project Objectives

1. Improve System Reliability & Resiliency for streets with multiple pole failures

Project Scope

Preferred Proposal

[redacted]

Distribution Project Cost: $517K
$/CMS: $24.72
$/CIS: $243,313
Outage Summary: (1) Equipment, (1) Animal, (1) Tree
Impacted Customer: 212
Impacted Critical Customer(s): 0

[redacted]

Project Scope (Cont'd)

Preferred Proposal (Cont'd)



Major Material:

8,466 ft. -1/0 Primary Tree Wire
5,865 ft. - 1/0 Secondaries Triplex
53 - Eversource Company Owned Poles

Background / Justification

As outlined under Procedure TD953, Planning section, Distribution Engineering has evaluated and identified locations in [redacted] to rebuild.

[redacted]%20201
9%20Pole%20Failure

Business Process and / or Technical Improvements:

Distribution Engineering has analyzed the results of the 2020 pole inspections, outlined under Procedure TD953, and made their recommendations to rebuild six[redacted]) locations in [redacted] Connecticut.

Alternatives Considered with Cost Estimates

Alternate Proposal

Title: [redacted]_Alternate_Reconductor Six Streets_Priority Rejects
Description: Six streets in [redacted] and [redacted] all have an exceptional amount of pole failures and are prime candidates to make more improvements. Rather than to shift old bare wire primary and open wire secondaries onto new poles, new primary tree wire and triplex secondaries will be installed making these are more resilient to outages due weather or physical impact.

Distribution Project Cost: $496.4K
$/CMS: $23.73
$/CIS: $233,577
Outage Summary: (1) Equipment, (1) Animal, (1) Tree
Impacted Customer: 212
Impacted Critical Customer(s): 0

[redacted]

Major Material: [redacted] Single/Three Phase Poles, 1,250 ft. 1/0 Single Phase Primary Tree Wire, 1,256 ft. Three Phase Primary 1/0 Tree Wire
Outage Events: 13

Alternatives Considered with Cost Estimates (Cont'd)

Alternate Proposal (Cont'd)

[redacted]

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Approval	February 2020
Construction Approval	May 2020
Start Construction	June 2020
End of Construction	September 2020

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2020	Low	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	2020	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2020	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2020	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2020	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2020	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

References

TD953 – Inspection, Treatment, Restoration and replacement Guidelines for Distribution System Wood Poles

Attachments (One-Line Diagrams, Images, etc.)

Need Statement



CD01508_project_needs_statement.pdf

Map-[redacted]



[redacted].pdf

Map-[redacted]



[redacted]pdf

Map-[redacted]



[redacted]pdf

Map-[redacted]



reject[redacted]

Map-[redacted]



[redacted]Priority Pole.pdf

TD953 Failure Report – [redacted]



[redacted] 2019 Pole Failures.xlsx

Outage Events



Total%20Events.xls.xlsx