Operations Project Authorization Form

Date Prepared: March 10, 2020	**Project Title:** [redacted] Replacements and Reconductoring
Company/ies: Eversource CT	**Project ID Number:** CD01521
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: $98,819	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

As per TD-953 – Inspection, Treatment, Restoration, and Replacement Guidelines for Distribution System Wood Poles, Eversource had poles inspected in the town of Newtown. Any street with multiple pole failures was reviewed for the percentage of poles failed on the street and the outage history. If the pole failures are greater than 60% of the poles on the street or there were multiple pole failures and poor reliability, it was reviewed to determine if reconductoring was the best solution. Based on this criterion [redacted] was selected for pole replacement and reconductoring.

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2020	20__	20__+	Totals
Capital Additions - Direct	$0	$59,598	$0	$0	$59,598
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$2,495	$0	$0	$2,495
Total - Direct Spending	$0	$62,093	$0	$0	$62,093
Capital Additions - Indirect	$0	$33,735	$0	$0	$33,735
Subtotal Request	$0	$95,828	$0	$0	$95,828
AFUDC	$0	$1,538	$0	$0	$1,538
Total Capital Request	$0	$97,366	$0	$0	$97,366
O&M	$0	$1,453	$0	$0	$1,453
Total Request	$0	$98,819	$0	$0	$98,819

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$1,422	$0	$0	$1,422
Overtime Labor	$964	$0	$0	$964
Outside Services	$54,507	$0	$0	$54,507
Materials	$5,252	$0	$0	$5,252
Other, including contingency amounts (describe)	($52)	$0	$0	($52)
Total Direct Costs	**$62,093**	**$0**	**$0**	**$62,093**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$33,735	$0	$0	$33,735
Capitalized interest or AFUDC, if any	$1,515	$0	$0	$1,515
Total Indirect Costs	**$35,250**	**$0**	**$0**	**$35,250**
Total Capital Costs	**$97,343**	**$0**	**$0**	**$97,343**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$97,343**	**$0**	**$0**	**$97,343**
Total O&M Project Costs	**$1,476**	**$0**	**$0**	**$1,476**
Total Project Cost	**$98,819**	**$ -**	**$ -**	**$98,819**

Technical Justification:

Project Need Statement

The project increases the company's capital profile over simply just replacing and shifting poles and provides an opportunity to resolve on going reliability field issues in an efficient manner.

Project Objectives

Improve System Reliability & Resiliency for streets with multiple pole failures

Project Scope

Title: [redacted] Rejects and Reconductoring

Description: [redacted] has a large amount of pole failures and are prime locations to make improvements. Based on further inspection it was found that the pole structures in the GIS database is from 1933. On-field, the pole structure appears to be irresolute. Rather than using the old poles to reconductor, I suggest the reconducting be installed on new structures this would make our system more resilient to outages due to weather or physical impact.

Distribution Project Cost: $ 98,819

- [redacted]**:** (Requires Reconductoring #6 Cupper & N):

  [redacted]
  [redacted]
  Pole Structure: 1933
  Pole Failures: 4 of 11 (36%)
  $/CIS: $12,652.65
  $/CMS: $10.76
  Total: $98.8k
  Major Material: (10) Single Phase Poles, 1750 ft. 1/0 TW and Neutral

Major Material:

1750 ft.	1/0 Tree Wire
1750 ft.	Neutral Wire
10	Eversource Company Owned Poles
3	Transformer 25 kVA

Background / Justification

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



[redacted]
inspection reconduc

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 [redacted] location in Newtown, Connecticut.

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	TD953 Failure Report – Newtown	Detail Maps - Newtown
CD01521_project_needs_statement.pdf	[redacted] inspection recondu	[redacted] pdf