EVERSOURCE

Supplement Authorization Form

Project Title: Reconductor Ringed Portions of [redacted]	**Project Number: CD01652**
Date Prepared: 05/01/2026	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** RELIABILITY IMPROVE SPEC PROJ
Initiating Organization: Distribution	**Project Type:** Specific
Project DDE: [redacted]	**Capital Investment part of 5-year plan?** Yes
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: $378K	**Approved In-Service Date:** 12/31/2021
Supplement Request: $162K	**Estimated In-Service Date:** 11/4/2021
Total Capital Request: $540K	**Authorization Type:** Supplement Request
	Reason: Cost Overage

1. Project Background

This project aims to address two portions of the [redacted]. Historically it has been proven that ringed spacer cable cannot be repaired and instead needs to be replaced.

The supplemental request for this project is $162K and the original capital request for this project was $378K, bringing the total capital request to $540K or a 43% increase from the full funding request.

2. Supplement Justification Overview

This project incurred no scope change from full funding to supplemental. Additional poles were needed that were not captured on the original estimate. Additional contractor labor and removal costs associated with the overhead work drove up the overall cost of the project.

3. Supplement Justification Detail

The increased contractor labor and removal costs contributed the most to the overage this project incurred. The additional poles were not identified when originally designing the project but needed to be replaced when construction started.

4. Supplement Cost Summary (Project Total)

Line-item Category	To Date Spend	Prior Authorized	Variance (Supplemental Request)	New Total Request (Add Prior Authorized and Variance)
Internal Labor and Construction Equipment	11.7	19.5	-8.7	10.8
Outside Services	266.6	165.9	80.0	245.9
Materials	57.6	56.8	-3.7	53.1
Removals	0.0	0.0	26.1	26.1
Risk and Contingency	10.6	0.0	10.6	10.6
Other	0.1	0.7	-0.6	0.1
SUBTOTAL DIRECTS W/ RISKS	**346.7**	**243.0**	**103.7**	**346.7**
Indirect / Overhead (including benefits)	188.6	132.3	56.3	188.6
AFUDC	4.5	2.9	1.6	4.5
Subtotal – Indirect Costs	**193.1**	**135.2**	**57.9**	**193.1**
TOTAL CAPITAL REQUEST	**539.8**	**378.2**	**161.6**	**539.8**
Reimbursables/Customer Contribution	0.0	0.0	0.0	0.0
PROJECT TOTAL (LESS REIMBURSABLES)	**539.8**	**378.2**	**161.6**	**539.8**

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.

Line-item Category	Year 2021	Year 2022	Year 2023 +	Total
Internal Labor and Construction Equipment	9.9	0.2	0.7	10.8
Outside Services	224.7	5.5	15.7	245.9
Materials	48.5	1.2	3.4	53.1
Removals	23.1	0.6	2.5	26.1
Risk and Contingency	0.0	0.0	10.6	10.6
Other	0.1	0.0	0.0	0.1
SUBTOTAL DIRECTS W/ RISKS	**306.3**	**7.5**	**32.9**	**346.7**
Indirect / Overhead (including benefits)	190.8	7.7	-9.9	188.6
AFUDC	4.5	0.0	0.0	4.5
Subtotal – Indirect Costs	**195.3**	**7.7**	**-9.9**	**193.1**
TOTAL CAPITAL REQUEST	**501.6**	**15.2**	**23.0**	**539.8**
Reimbursables/Customer Contribution	0.0	0.0	0.0	0.0
PROJECT TOTAL (LESS REIMBURSABLES)	**501.6**	**15.2**	**23.0**	**539.8**

5. Lessons Learned

Future projects should include extra contingency for contractor costs and removals.

6. Full Funding PAF

Operations Project Authorization Form

Date Prepared: 12/10/2020	**Reconductor Ringed Portions of [redacted]**
Company/ies: CT	**Project ID Number: CD01652**
Organization: Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Reliability**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Replace Defective Conductor**
Estimated in service date: 12/31/2021	**If Transmission Project: PTF? NA**
Eng. /Constr. Resources Budgeted? No	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Initial Funding	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $390,226	

Executive Summary

[redacted]

[redacted]

See pictures and report regarding ringing attached at bottom of this summary.

Typically spacer cable is used where there are tree problems or clearance problems. In this run of cable there are no tree issues or clearance problems and this is why instead of simply replace the spacer cable with spacer cable, new 556 tree wire will be used.

It should be noted that a separate project for completion in 2022 does call for changing the loop scheme between the two circuits so they no longer will back each other up. This is done because a significant portion of the backbones run along the same pole line.

Project Costs Summary

	Prior Authorized	2021	2022	2023	Totals
Capital Additions - Direct	$0	$222,490	$0	$0	$222,490
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$20,529	$0	$0	$20,529
Total - Direct Spending	$0	$243,018	$0	$0	$243,018
Capital Additions - Indirect	$0	$132,307	$0	$0	$132,307
Subtotal Request	$0	$375,325	$0	$0	$375,325
AFUDC	$0	$2,993	$0	$0	$2,993
Total Capital Request	$0	$378,317	$0	$0	$378,317
O&M	$0	$11,909	$0	$0	$11,909
Total Request	$0	$390,226	$0	$0	$390,226

Financial Evaluation

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$16,523	$0	$0	$16,523
Overtime Labor	$3,016	$0	$0	$3,016
Outside Services	$165,918	$0	$0	$165,918
Materials	$56,840	$0	$0	$56,840
Other, including contingency amounts (describe)	$722	$0	$0	$722
Total Direct Costs	**$243,018**	$0	**$0**	**$243,018**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$132,307	$0	$0	$132,307
Capitalized interest or AFUDC, if any	$2,900	$0	$0	$2,900
Total Indirect Costs	**$135,207**	$0	**$0**	**$135,207**
Total Capital Costs	**$378,225**	$0	**$0**	**$378,225**
Less Total Customer Contribution	**$0**	$0	**$0**	**$0**
Total Capital Project Costs	**$378,225**	$0	**$0**	**$378,225**
Total O&M Project Costs	**$12,001**	$0	**$0**	**$12,001**
Total Project Cost	**$390,226**	$0	**$0**	**$390,226**

Technical Justification:

Project Need Statement

This project has been established to address the following issues :

- [redacted]

Outage History:

[redacted]

Project Objectives

The main objectives of this project are as follows.

- [redacted]
- [redacted]

Project Scope

In order to meet the above objectives, this project proposes the following:

- [redacted]
- [redacted]
- [redacted]

Major Materials:

- **2,000' of 556 kcmil tree wire. 2021**

Background / Justification

[redacted].

Business Process and / or Technical Improvements:

- [redacted]
- [redacted]

Alternatives Considered with Cost Estimates

Option 2: On [redacted]., [redacted]. This would be more costly, and result in more overbuild instead of the elimination of an overbuild.

Project Option Comparison

Design Criteria	[redacted]		
Cost	$390,226	$490,066	
Cost / MVA added	N/A	N/A	
Cost / CM Saved	$5.85	N/A	
Cost / CI Saved	$1,495	N/A	
Preferred option	X		

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering Approval	December 2021
Detail Design	March 2021
Construction	August 2021

Regulatory Approvals

None

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2021	Medium	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	2021	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2021	High	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.	2021	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2021	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2021	Low	Schedule work to minimize system abnormal time. Most of this work will not require system to be abnormal for any extended period of time.

References: *none*

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

072012 NU Report Ringed Cable.docx
IMG_1858.JPG
IMG_1859.JPG
IMG_1862.JPG
CD01652_project_needs_statementRev1
geographic map.pdf
[redacted] load summaryRev1_.xlsx