EVERSOURCE

Supplement Authorization Form

Project Title: [redacted] – Reconductor with A/C	**Project Number:** CD01215
Date Prepared: 04/27/2026	**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: $13,277.1K	**Approved In-Service Date:** 6/1/2019
Supplement Request: $(660.1K)	**Estimated In-Service Date:** 12/31/22
Total Capital Request: $12,617.0K	**Authorization Type:** Supplement Request
	Reason: Cost Overage

The total request is coming in less than the full funding amount, however this supplemental funding request is required solely due to the increase in direct costs, as required by pre-2022 APS-1 guidelines. The overage for this project is attributed solely to the direct capital cost component.

1. Project Background

CD01215 was presented to reconductor [redacted]. Segment 2, which was preliminarily approved for $9,591,805, is the focus of this project as it deals with the [redacted]

There were some scope change for this work – 200 poles were estimated to be replaced, but written work orders show 310 poles that need to be replaced. There was also a 3,000' increase in the amount of 750 Al AC that need to be installed, as well as a 2,000' increase in the amount of 556 TW that need to be installed. The main driver for the increase in estimate to complete the work was the amount of resources needed to get the work done that summer.

2. Supplement Justification Overview

The new total request is $12,617.0K, which is $660.1K less than or 95% of the previously approved $13,277.1K. However, supplemental funding of $1,288.1K in direct capital cost was requested to complete the project due mainly to added outside labor and removal costs. The $1,288.1K is an additional 16% of the previously approved $8,066.5K direct capital cost making the total direct capital cost $9,354.6K.

3. Supplement Justification Detail

4. The project was executed over the period from 2019 through 2022, resulting in increased costs attributable, in part, to an assumed annual inflation rate of approximately 4%. In addition, the scope of work required nighttime construction, which increased outside services costs, including higher labor rates and the need for traffic control support.

5. Supplement Cost Summary (Project Total)

Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction Equipment	88.0	1,520.3	-1,439.1	81.2
Outside Services	6,723.0	1,038.0	5,164.3	6,202.3
Materials	2,290.3	5,476.2	-3,363.3	2,112.9
Removals	0.0	0.0	705.4	705.4
Risk and Contingency	247.4	0.0	247.4	247.4
Other	6.0	32.0	-26.5	5.5

Subtotal	**9,354.6**	**8,066.5**	**1,288.2**	**9,354.6**

Indirect Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Indirects/Overheads (including benefits)	2,600.5	5,053.3	-2,452.8	2,600.5
Capitalized interest or AFUDC, if any	661.9	151.3	510.6	661.9
Subtotal	**3,262.4**	**5,204.6**	**-1,942.2**	**3,262.4**
Total Capital Costs (Gross)	**12,617.1**	**13,271.1**	**-654.0**	**12,617.1**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**12,617.1**	**13,271.1**	**-654.0**	**12,617.1**

New Total Request by Year (if applicable)

Capital Costs	2019	2020	2021	2022	TOTAL
Internal Labor & Equipment	70.1	11.2	0.1	-0.2	81.2
Outside Services	5,355.8	854.8	9.2	-17.5	6,202.3
Materials	1,824.5	291.2	3.1	-6.0	2,112.9
Removals	591.7	94.4	1.0	18.2	705.4
Risk and Contingency	0.0	0.0	0.0	247.4	247.4
Other	4.8	0.8	0.0	0.0	5.5
SUBTOTAL Direct Cost	**7,846.8**	**1,252.4**	**13.4**	**242.0**	**9,354.6**
Indirects / Overheads	3,054.1	584.8	-1,039.1	0.7	2,600.5
AFUDC	217.0	445.0	0.0	0.0	661.9
SUBTOTAL Indirect Cost	**3,271.0**	**1,029.8**	**-1,039.1**	**0.7**	**3,262.4**
TOTAL Capital Request	**11,117.9**	**2,282.2**	**-1,025.6**	**242.7**	**12,617.1**
Less Total Customer Contribution	0.0	0.0	0.0	0.0	**0.0**

TOTAL Project Cost	**11,117.9**	**2,282.2**	**-1,025.6**	**242.7**	**12,617.1**

6. Lessons Learned

N/A

7. Full Funding PAF

Operations Project Authorization Form

Date Prepared: 10/24/2018	**Project Title:** [redacted] – Reconductor with A/C
Company/ies: Eversource	**Project ID Number:** CD01215
Organization: Electric Distribution	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** Line
Project Manager: [redacted]	**Project Type:** Reliability Improve Spec Proj
Project Sponsor: [redacted]	**Project Purpose:** Reconductor [redacted] with A/C
Estimated ISD: Seg 2 & 11 – 6/19, seg 4 – 6/20	**If Transmission Project: PTF?** N/A
Eng. /Constr. Resources Budgeted?	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Full funding	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $13,802,123	

Financial Requirements:

Project Authorization
ERM: _____

FP&A: _____

Executive Summary

This project seeks to reconductor 7.8 miles of the [redacted] spacer cable which [redacted] with a more reliable 750 Al aerial cable. The [redacted]

The [redacted]

[redacted]

[redacted]

Project Costs Summary

	Prior Authorized	2019	2020	2021+	Totals
Capital Additions - Direct	$0	$5,530,581	$2,349,229	$0	$7,879,811
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$131,024	$55,655	$0	$186,680
Total - Direct Spending	$0	$5,661,606	$2,404,884	$0	$8,066,490
Capital Additions - Indirect	$0	$3,546,717	$1,506,542	$0	$5,053,259
Subtotal Request	$0	$9,208,323	$3,911,426	$0	$13,119,749
AFUDC	$0	$110,465	$46,922	$0	$157,387
Total Capital Request	$0	$9,318,788	$3,958,348	$0	$13,277,136
O&M	$0	$368,471	$156,516	$0	$524,987
Total Request	$0	$9,687,259	$4,114,864	$0	$13,802,123

Financial Evaluation

Direct Capital Costs	2019	2020	2021+	Total
Straight Time Labor	$839,064	$356,410	$0	$1,195,473
Overtime Labor	$227,969	$96,834	$0	$324,803
Outside Services	$728,561	$309,471	$0	$1,038,032
Materials	$3,843,567	$1,632,635	$0	$5,476,202
Other, including contingency amounts (describe)	$22,445	$9,534	$0	$31,979
Total Direct Costs	**$5,661,606**	**$2,404,884**	**$0**	**$8,066,490**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$3,546,717	$1,506,542	$0	$5,053,259
Capitalized interest or AFUDC, if any	$106,214	$45,117	$0	$151,331
Total Indirect Costs	**$3,652,932**	**$1,551,658**	**$0**	**$5,204,590**
Total Capital Costs	**$9,314,537**	**$3,956,543**	**$0**	**$13,271,080**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$9,314,537**	**$3,956,543**	**$0**	**$13,271,080**
Total O&M Project Costs	**$372,722**	**$158,321**	**$0**	**$531,043**

Total Project Cost	**$9,687,259**	**$4,114,864**	**$ -**	**$13,802,123**

Technical Justification:

Project Need Statement

The [redacted]:

[redacted]		

9.2 9

This project proposes to reconductor the problematic spacer cable with 750 Al aerial cable in 2019.

[redacted]

[redacted]		

This project proposes to reconductor this problematic spacer cable with 750 Al aerial cable in 2020.

[redacted]

Wire Type	Length (miles)	# Outages in 10 Years

[redacted]

This project proposes to install a radial recloser to isolate this tap from the circuit in 2019.

[redacted]

Note: [redacted]

Project Objectives

[redacted]

Project Scope

[redacted]

Background / Justification:

[redacted]

Business Process and / or Technical Improvements:

[redacted]

Alternatives Considered with Cost Estimates:

Some other alternatives were considered for this project:

[redacted]

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Order 750 Al AC	November 2018
Set 229 new poles	February 2019
Reconductor 22E36 spacer cable (segment 2)	May 2019
Reconductor 22E36 spacer cable to WITCO (segment 4)	June 2020

Regulatory Approvals
N/A

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Expected Value Cost Exposure ($K)	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2019	5%	$13,802 x 5% = $690	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.

Internal construction resources not available to perform the work.	2019	20%	$13,802 x 20% = $2,760	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2019	10%	$13,802 x 10% = $1,380	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2019	10%	$10,885 x 10% = $1,380	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods

References

N/A

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

Conductor type, lengths and outages:

[redacted]Conductor Type and Distance M

Map of proposed work:


[redacted].pdf

Outage history:


[redacted]Outage History.pdf

Cost estimate backup details:


CD01215_project_needs_statement.pdf

Load projections (note: rating increase in [redacted]):


[redacted]Reconductoring Pro