EVERSOURCE

Supplement Authorization Form

Project Title: [redacted] **Facility Expansion**	**Project Number: CD01113**
Date Prepared: 04/29/2026	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SPECIFIC PROJECTS-NEW SRVCE
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: $7,159.9K	**Approved In-Service Date:** 12/30/20
Supplement Request: $ 534.3K	**Estimated In-Service Date: 12/30/23**
Total Capital Request ($): 7,694.2K	**Authorization Type:** Supplement Request
	Reason: : Cost Overage

1. Project Background

Supplemental funding is being requested for this project. The total capital request is $7,694.2K which is (107%) $534.3K more than the current authorized amount of $7,159.9K.

[redacted]

2. Supplement Justification Overview

The project variance of $534.3K is attributed to outside services and inflation as it took years for the project to be completed.

3. Supplement Justification Detail

Access to the [redacted] right-of-way (ROW) was particularly challenging due to multiple customer refusals of commonly used access routes. As a result, alternative access methods had to be evaluated, coordinated, and implemented, which led to the need for additional matting as well as increased equipment utilization, driving up associated costs. Furthermore, because the project was executed over a period of several years, overall costs were further impacted by inflationary pressures, calculated at an average rate of approximately 4 percent per year, which contributed to the total cost increase.

4. Supplement Cost Summary (Project Total)

Line-item Category	To Date Spend Year(s)	Prior Authorized Year(s)	Variance (Supplemental Request) Year(s)	New Total Request (Add Prior Authorized and Variance) Year(s)
Internal Labor and Construction Equipment	396.7	656.9	-288.4	368.5
Outside Services	3,105.0	1,780.7	1,103.7	2,884.4
Materials	1,507.2	1,581.1	-181.0	1,400.1
Removals	0.0	0.0	350.5	350.5
Risk and Contingency	150.9	0.0	150.9	150.9
Other	-75.6	13.7	-83.9	-70.2
SUBTOTAL DIRECTS W/ RISKS	**5,084.2**	**4,032.4**	**1,051.7**	**5,084.2**
Indirect / Overhead (including benefits)	2,496.5	3,015.8	-519.3	2,496.5
AFUDC	113.5	111.7	1.8	113.5
Subtotal – Indirect Costs	**2,610.0**	**3,127.5**	**-517.4**	**2,610.0**
TOTAL CAPITAL REQUEST	**7,694.2**	**7,159.9**	**534.3**	**7,694.2**
Reimbursables/Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**

PROJECT TOTAL (LESS REIMBURSABLES)	**7,694.2**	**7,159.9**	**534.3**	**7,694.2**

Line item Category	Year 2018	Year 2019	Year 2020	Year 2021	Year 2022	Year 2023	Total
Internal Labor and Construction Equipment	3.2	28.2	321.7	14.7	1.8	-1.1	368.5
Outside Services	24.9	221.0	2,517.8	114.8	14.3	-8.5	2,884.4
Materials	12.1	107.3	1,222.1	55.7	6.9	-4.1	1,400.1
Removals	2.9	26.0	296.2	13.5	1.7	10.2	350.5
Risk and Contingency	0.0	0.0	0.0	0.0	0.0	150.9	150.9
Other	-0.6	-5.4	-61.3	-2.8	-0.3	0.2	-70.2
SUBTOTAL DIRECTS W/ RISKS	**42.5**	**377.1**	**4,296.5**	**196.0**	**24.4**	**147.6**	**5,084.2**
Indirect / Overhead (including benefits)	20.6	59.9	2,314.8	164.9	-65.4	1.7	2,496.5
AFUDC	0.6	10.4	93.3	9.4	-0.1	0.0	113.5
Subtotal – Indirect Costs	**21.2**	**70.3**	**2,408.1**	**174.3**	**-65.5**	**1.7**	**2,610.0**
TOTAL CAPITAL REQUEST	**63.7**	**447.4**	**6,704.7**	**370.3**	**-41.1**	**149.3**	**7,694.2**
Reimbursables/Customer Contribution	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**
PROJECT TOTAL (LESS REIMBURSABLES)	**63.7**	**447.4**	**6,704.7**	**370.3**	**-41.1**	**149.3**	**7,694.2**

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.

5. Lessons Learned

N/A

Operations Project Authorization Form

Date Prepared: 05/26/2020	**Project Title: [redacted] Facility Expansion**
Company/ies: Eversource CT	**Project ID Number: CD01113**
Organization: Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Line**
Project Manager [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: New Service**
Estimated in service date: 12/31/20	**If Transmission Project: PTF? No**
Eng. /Constr. Resources Budgeted? Yes	**Capital Investment Part of Original Operating Plan? Y**
Authorization Type: FULL FUNDING	**O&M Expenses Part of the Original Operating Plan? Y**
Total Request: $7.4M	

Financial Requirements:

Project Authorization
ERM: _____

FP&A: _____

Executive Summary

[redacted]

[redacted]

- Our team reviewed the betterments to our system achieved by the project. This is a very congested area and the project allowed us to eliminate contingency overloads, create additional capacity for known new load, and address some reliability concerns.
- Betterments totaled ~ $3.3M
  - Segment 2 resolved a high over low, bare over bare issue by reconductoring in the ROW at a cost of $2.4M
  - Segment 3 eliminated a contingency overload on the 9S18 circuit with the loss of 35A1, created a tie between 35A6 & 35A1 circuit which was previously backed up by the 35A11 circuit sharing the same pole line, offloads 5.3mVA from Wilton 3A, freed up 1.5mVA on the 9S18 to be used on future new service projects. Segment 3 costs for installing and removing reclosers to reconfigure these circuits comes to a cost of $396K
  - Segment 4 remove double riser and shifted load at a cost of $519K

This project incurred cost overruns for two main reasons. The first being that during man hole inspections, the man holes were congested not allowing for additional splice terminations to be made were anticipated, this required 5,600' more of UG cable than expected. Based on Eversource's estimating units, 5,600' of additional underground cable would cost approximately $945K, the contractor bid assumed an additional 762hrs needed to complete this work beyond the storms WO estimate resulting in a $1.4M variance over ENG. The second reason for the cost variance is accessibility to the ROW, it was originally anticipated that multiple access points were available but, due to customer issues this was not the case, requiring additional wetland matting. Additionally, the ROW had to be trimmed to transmission specifications due to an upcoming project in the ROW and because the ROW is shared with transmission. The additional ROW work amounted to an additional $1.9M. Attached below is an explanation of overages as well as a spreadsheet showing estimated storms hours vs contractor bid hours and dollars associated.


[redacted]%20COST%20ANALYSIS.xlsx


EXPLANATION%20OF%20VARIANCES%2C

Project Costs Summary

	Prior Authorized	2020	2021	2022+	Totals
Capital Additions - Direct	$1,839,262	$3,860,175	$0	$0	$3,860,175
Less Customer Contribution	$18,000	$0	$0	$0	$0
Removals net of Salvage ____%	$82,073	$172,252	$0	$0	$172,252
Total - Direct Spending	$1,921,335	$4,032,427	$0	$0	$4,032,427
Capital Additions - Indirect	$1,436,931	$3,015,778	$0	$0	$3,015,778

Subtotal Request	$3,358,266	$7,048,205	$0	$0	$7,048,205
AFUDC	$55,243	$115,942	$0	$0	$115,942
Total Capital Request	$3,413,509	$7,164,147	$0	$0	$7,164,147
O&M	$127,491	$267,574	$0	$0	$267,574
Total Request	$3,541,000	$7,431,721	$0	$0	$7,431,721

Financial Evaluation

Direct Capital Costs	2020	2021	2022+	Total
Straight Time Labor	$561,280	$0	$0	$561,280
Overtime Labor	$95,625	$0	$0	$95,625
Outside Services	$1,780,703	$0	$0	$1,780,703
Materials	$1,581,103	$0	$0	$1,581,103
Other, including contingency amounts (describe)	$13,716	$0	$0	$13,716
Total Direct Costs	**$4,032,427**	**$0**	**$0**	**$4,032,427**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$3,015,778	$0	$0	$3,015,778
Capitalized interest or AFUDC, if any	$111,701	$0	$0	$111,701
Total Indirect Costs	**$3,127,479**	**$0**	**$0**	**$3,127,479**
Total Capital Costs	**$7,159,906**	**$0**	**$0**	**$7,159,906**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$7,159,906**	**$0**	**$0**	**$7,159,906**
Total O&M Project Costs	**$271,815**	**$0**	**$0**	**$271,815**
Total Project Cost	**$7,431,721**	**$ -**	**$ -**	**$7,431,721**

Technical Justification:

Project Need Statement

[redacted]

[redacted]

If nothing was done to [redacted] service and they continued to be fed from the current setup, then the [redacted]

Project Objectives

[redacted]

Project Scope

[redacted]

[redacted]

Background / Justification

[redacted]

Business Process and / or Technical Improvements:
Norwalk's largest customer will be upgraded to have an automatic backup source.

Alternatives Considered with Cost Estimates

[redacted]

[redacted]

Fuel Cell Option 5 - $3mil/1MVA * 9MVA = $27mil

Total Cost ($K)

[redacted]

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Approval	8/9/18
Final Approval	3/19/20
Construction Start	1/1/20
Construction Completed	12/31/20

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Expected Value Cost Exposure ($M)	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2020	MEDIUM	MEDIUM	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.	2020	HIGH	MEDIUM	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	LOW	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2020	LOW	Delay	If storm activity delays work, we may be forced to use external resources.

System abnormal configuration	2020	LOW	Reliability Impacts	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods

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



Project CD01113
Overview Segments