EVERSOURCE

Supplement Authorization Form

Project Title: [redacted] Reconductoring, Newtown	**Project Number: CD01178**
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: $158,917	**Approved In-Service Date:** 12/31/2018
Supplement Request: $144,789	**Estimated In-Service Date:** 11/16/2018
Total Capital Request: $303,706	**Authorization Type:** Supplement Request
	Reason: Cost Overage

1. Project Background

This project was created to address frequent outages that occurred on [redacted] in Sandy Hook, Newtown, CT. At the time of this project, customers on Nutmeg Ln experienced [redacted] This work has been completed.

The supplemental request for this project is $144.8K and the full funding capital request for this project was $158.9K, bringing the total capital request to $303.7K or a 91% increase from the full funding request.

2. Supplement Justification Overview

This project incurred no scope change from full funding to supplemental. Additional labor costs and equipment drove up the overall cost of the project.

3. Supplement Justification Detail

The increased labor and equipment contributed the most to the increased direct costs for this project. The conversion from 8.32 kV to 13.2 kV required more labor to cutover each location along Nutmeg Ln.

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 Equipment	77.4	14.2	57.1	71.3
Outside Services	33.4	56.2	-25.4	30.8
Materials	20.8	21.7	-2.5	19.2
Removals	0.0	0.0	11.1	11.1
Risk and Contingency	6.0	0.0	6.0	6.0
Other	9.1	0.6	7.8	8.4
SUBTOTAL DIRECTS W/ RISKS	**146.7**	**92.7**	**53.9**	**146.7**
Indirect / Overhead (including benefits)	156.6	64.8	91.9	156.6
Capitalized Interest or AFUDC (if any)	0.4	1.4	-1.0	0.4
Subtotal – Indirect Costs	**157.1**	**66.2**	**90.9**	**157.1**
TOTAL CAPITAL REQUEST	**303.7**	**158.9**	**144.8**	**303.7**
Reimbursables/Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
PROJECT TOTAL (LESS REIMBURSABLES)	**303.7**	**158.9**	**144.8**	**303.7**

New Total Request by Year (if applicable)

Line-item Category	2018 Actual	2019 Actual	2020 Actual	Total
Internal Labor and Equipment	71.4	-0.2	0.0	71.3
Outside Services	30.9	-0.1	0.0	30.8
Materials	19.2	0.0	0.0	19.2
Removals	10.6	0.5	0.0	11.1
Risk and Contingency	0.0	6.0	0.0	6.0
Other	8.4	0.0	0.0	8.4
SUBTOTAL DIRECTS W/ RISKS	**140.5**	**6.1**	**0.0**	**146.7**
Indirect / Overhead (including benefits)	169.7	-13.0	0.0	156.6
AFUDC	0.4	0.0	0.0	0.4
Subtotal – Indirect Costs	**170.1**	**-13.0**	**0.0**	**157.1**
TOTAL CAPITAL REQUEST	**310.6**	**-6.9**	**0.0**	**303.7**
Reimbursables/Customer Contribution	0.0	0.0	0.0	**0.0**
PROJECT TOTAL (LESS REIMBURSABLES)	**310.6**	**-6.9**	**0.0**	**303.7**

5. Lessons Learned

Ensure conversion work and cutover costs are included in preliminary engineering estimates.

6. Full Funding PAF

Operations Project Authorization Form

Date Prepared: 1/7/2018	**Project Title: [redacted] Reconductoring, Newtown**
Company/ies: CT	**Project ID Number: CD01178**
Organization: Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Reliability**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Resolve Frequent Outages**
Estimated in service date: 12/31/2018	**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: $167,000	

Executive Summary

This project has been established to address frequent outages in Nutmeg Ln in Newtown, CT.

Technical Justification:

Project Need Statement

This project has been established to address the following:

Reduce frequency of outages experienced by the customers on Nutmeg Ln Sandy Hook.

Project Objectives

The main objectives of this project are as follows.

- Address customer concerns regarding outages.
- Reduce O&M expense to Eversource for emergency work.

Project Scope

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

[redacted]

Background / Justification

Attached is the outage history on [redacted]. [redacted] 4 outages in 2018 were actually on [redacted] and were caused by limbs falling across the primary and neutral due to the 4800 construction.

Project Costs Summary

	Prior Authorized	20_18_	20__	20__+	Totals
Capital Additions - Direct	$0	$71,156	$0	$0	$71,156
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$21,578	$0	$0	$21,578
Total - Direct Spending	$0	$92,734	$0	$0	$92,734
Capital Additions - Indirect	$0	$64,763	$0	$0	$64,763
Subtotal Request	$0	$157,497	$0	$0	$157,497
AFUDC	$0	$1,492	$0	$0	$1,492
Total Capital Request	$0	$158,989	$0	$0	$158,989
O&M	$0	$8,011	$0	$0	$8,011
Total Request	$0	$167,000	$0	$0	$167,000

Financial Evaluation

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$11,580	$0	$0	$11,580
Overtime Labor	$2,615	$0	$0	$2,615
Outside Services	$56,231	$0	$0	$56,231
Materials	$21,697	$0	$0	$21,697
Other, including contingency amounts (describe)	$611	$0	$0	$611
Total Direct Costs	**$92,734**	**$0**	**$0**	**$92,734**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$64,763	$0	$0	$64,763
Capitalized interest or AFUDC, if any	$1,420	$0	$0	$1,420
Total Indirect Costs	**$66,183**	**$0**	**$0**	**$66,183**
Total Capital Costs	**$158,917**	**$0**	**$0**	**$158,917**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$158,917**	**$0**	**$0**	**$158,917**
Total O&M Project Costs	**$8,083**	**$0**	**$0**	**$8,083**

Total Project Cost	**$ 167,000**	**$ -**	**$ -**	**$ 167,000**

Business Process and / or Technical Improvements:

1. **The installation of new wire will increase customer satisfaction due to increased reliability.**
2. **New wire and construction will also ensure Eversource O&M costs are reduced in this area.**

Alternatives Considered with Cost Estimates

Alternative	Cost Breakdown		Total Cost	Comments
1 Underground all of [redacted]	Wire and conduit cost	$220K	$448K	This eliminates issues on Nutmeg Ln but customers would be required to pay.
	Undergrounding individual services.	$80K		
	Removals and Police Protection	$20K		
2. Create a new feeder on Nutmeg Ln specifically for Nutmeg Ln customers.	Fuel Cell	$30M	$31M	While this option today is realistic, it's still a venture not undertaken by Eversource, is extremely costly and would require Siting Council approvals.
	Land purchase	$1M		
3. Do nothing		0	$0	This option would mean continuing to spend O&M dollars for emergencies and raises the likelihood of customers going to PURA

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Prelininary Engineering Approval	Sepember 2018
Detail Design	September 2018
Construction	November 2018.

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.	2018	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	2018	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2018	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.	2018	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2018	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2018	Low	Schedule work to minimize system abnormal time. Most of this work will ot require system to be abnormal for any extended period of time.

References
none

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


CD01178_project_needs_statement.pdf


CustomerOutage.xml


[redacted]

Estimate WR 315238


[redacted]

sketch WR 3152382.