EVERSOURCE

Project Approval Form

Project Title: [redacted] Reliability	**Project Number: CD02074**
Date Prepared: 09/14/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** RELIABILITY IMPROVE SPEC PROJ
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
Project Manager: [redacted]	**Emergency Related Request?** Yes
Project Sponsor: [redacted]	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: 12/31/23	
Total Capital Request: $168K	**Authorization Type:** Full Funding

1. Executive Summary

[redacted]

- [redacted]
- [redacted]
- [redacted]
- Project Location
  - Division: Central
  - District: Tolland AWC
  - City/Town: Vernon Rockville, CT

This project was completed in March 2023. The partial estimate was $136K and approved September 2022. The full funding estimate is $168K. This is a $32K (21%) increase. This difference is due to increased costs of labor and material and using legacy estimating units. Using updated estimating units, the project estimate would be $158K, or $10K (6%) less than the Full Funding Estimate.

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2023	Total
Direct Capital Costs		
Internal Labor and Construction Equipment	2.0	2.0
Outside Services	37.9	37.9
Materials	87.7	87.7
Removals	12.9	12.9
Risk and Contingency	3.3	3.3
Other	0.0	0.0
Subtotal – Direct Costs	**143.8**	**143.8**
Indirect Capital Costs		
Indirect/Overheads (including benefits)	23.3	23.3
Capitalized interest or AFUDC, if any	1.0	1.0
Subtotal – Indirect Costs	**24.3**	**24.3**
Total Gross Capital Costs	**168.1**	**168.1**
Customer Contribution	**0.0**	**0.0**
Total Net Capital Project Costs	**168.1**	**168.1**

3. Alternatives Considered

	Option	
[redacted]		
Capital Cost	$168.1K	N/A
Expense Cost	$6.0K	N/A
Total Cost	$174.1K	N/A
Preferred option	X	

4. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

b. Project Need

[redacted]

c. Project Scope

The scope of this project is as follows:

- [redacted]

Major Material:

- 2 Reclosers
- 1 Disconnect Switch

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	August 2022
100% Detailed Engineering Completion	November 2022
Construction Start	July 2023
In Service Date	December 2023

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. P6 Schedule	*NO*
C. Geographic Map	*YES*
D. System and Station One-Lines	*YES*
E. Load Sheets	*YES*
F. Partial Funding PAF	*YES*

Attachment A: Cost Estimate

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$111,772
Contingency Amount:	$26,825
Estimate:	$138,597
Reimbursement:	$0
Net Amount:	**$138,597**

Description:

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	$3,509.60
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$2,000.00
SECTIONALIZE OH - Recloser - 3ph 1 SR on pole [redacted] and a one-way tie on pole 585 both on Orchard S[redacted]	16-OH38	$95,979.20
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph Vertical disconnect for recloser	16-OH43	$10,283.20

Attachment C: Geographic Maps

Before Map:

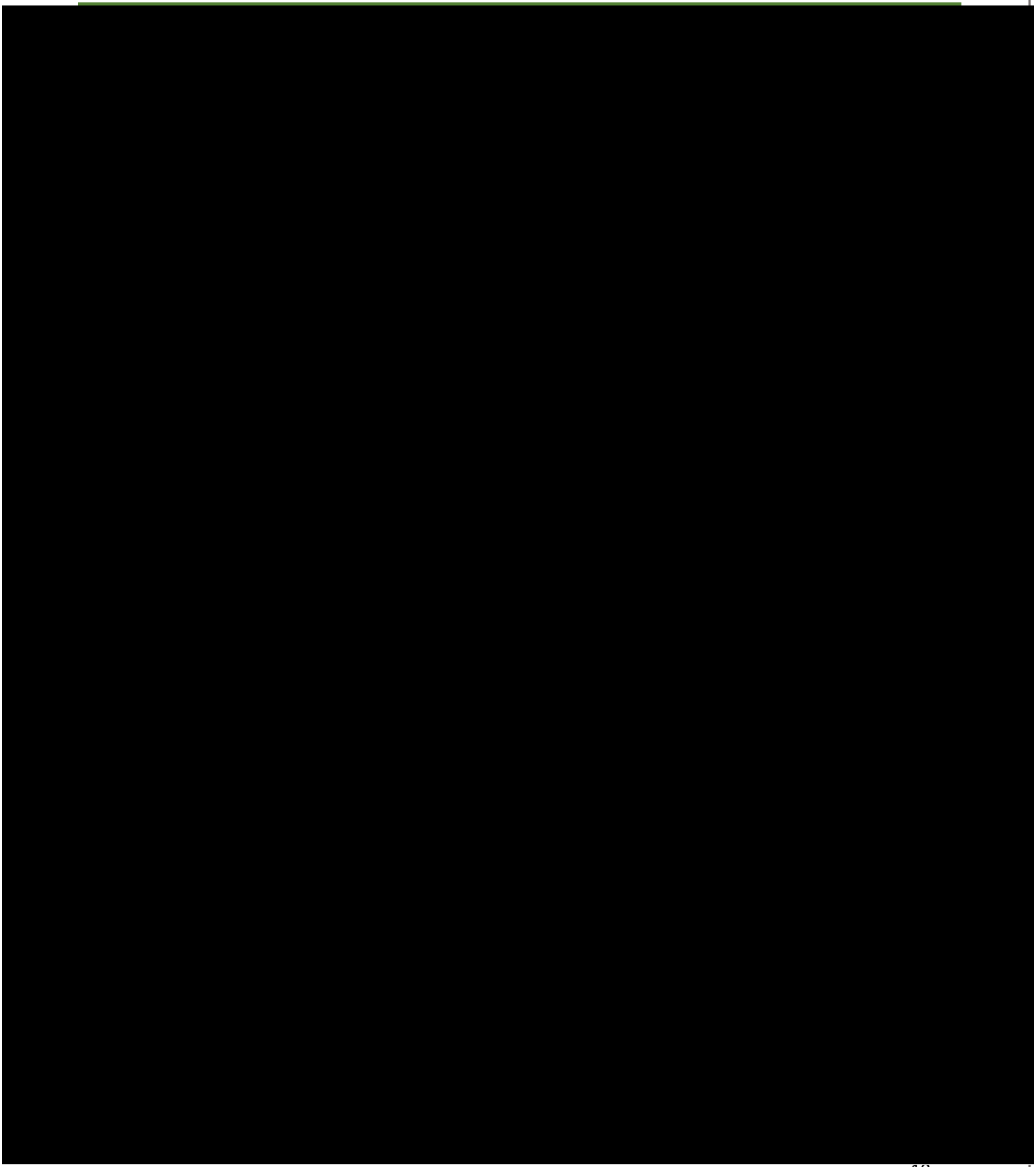
[redacted]

After Map:

[redacted]

[redacted]

[redacted]



Operations Project Authorization Form

Project Title [redacted] **Reliability**	**Project Number: CD02074**
Date Prepared: 09/01/2022	**Company:** Eversource CT
Organization: EFO	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category: Reliability**
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 12/31/2023	**Emergency Related Request?** Yes
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☑ Distribution
Total Gross Capital Request: $136K	**Authorization Type:** Initial Funding

Executive Summary

[redacted]

[redacted]

[redacted]

Project Costs Summary

Capital Costs	2023	Total
Direct Capital Costs		
Internal Labor and Construction Equipment	$5	$5
Outside Services	$48	$48
Materials	$15	$15
Removals	$8	$8
Risk and Contingency	$7	$7
Other	$0	$0
Subtotal	**$83**	**$83**
Indirect Capital Costs		
Indirect/Overheads (including benefits)	$50	$50
Capitalized interest or AFUDC, if any	$3	$3
Subtotal	**$53**	**$53**
Total Customer Contribution	$0	$0
Total Capital Project Costs	**$136**	**$136**

Technical Justification:

Project Need, Objective and Justification

[redacted]

[redacted]

[redacted]

Project Scope

- [redacted]

Major Material:

- 2 Reclosers
- 1 Disconnect Switch

Background

Outage History

[redacted]

[redacted]

Alternatives Considered:

Project is a compliance obligation - no alternatives considered - no financial benefit

Regulatory Approvals:

No

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	August 2022
Construction Start	April 2023
Testing/Commissioning	September 2023
In Service Date	December 2023

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023	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	2023	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2023	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.	2022	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2023	Medium	If storm activity delays work, we may be forced to use external resources.