EVERSOURCE

Project Approval Form

Project Title: [redacted]	**Project Number: CD02467**
Date Prepared: 12/17/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UG CABLE & EQUIPMNT REPLACEMNT
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op 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)
Required in service date: 12/31/2025	
Total Capital Request: $501K	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $501K which is 99% of the partial funding estimate of $504K. CD02467 was partially approved on 8/1/2024. There is no scope change on the project. This project falls within the 15% threshold relative to the partial funding estimate and is being requested with no further changes anticipated.

The original project was presented as follows:

- *Project CD02467 –* [redacted]
- *Project Location*
  - *Division: Central*
  - *District: Hartford AWC*
  - *City: Hartford*

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2025	2026	Total
Internal Labor and Construction Equipment	31.2	0.0	31.2
Outside Services	37.5	0.0	37.5
Materials	132.3	0.0	132.3
Removals	54.9	0.0	54.9
Risk and Contingency	45.6	0.0	45.6
Other	0.0	0.0	0.0
Subtotal	**301.4**	**0.0**	**301.4**

Indirect Capital Costs	2025	2026	Total
Indirects/Overheads (including benefits)	199.8	0.0	199.8
Capitalized interest or AFUDC, if any	0.0	0.0	0.0
Subtotal	**199.8**	**0.0**	**199.8**
Total Capital Costs (Gross)	**501.3**	**0.0**	**501.3**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**501.3**	**0.0**	**501.3**

Explain unique payment provisions, if applicable:

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

- [redacted]

b. Project Need

- [redacted]

c. Project Scope

- [redacted]
- Major Material
  - Two S&C PME-5 Switchgear (603876)
  - Two concrete pad tops (604545)
  - Two concrete pad bottoms (604531)

4. Alternatives Considered

5. Project Option Comparison

[redacted]		
Authorization Type	Full	Partial
Capital Cost	$501.3K	$98K
Expense Cost	$0K	$3K
Total Cost	$501.3K	$101K
Preferred option	X	

Option 1 was chosen to replace the [redacted]

Option 2 to [redacted] makes Option 1 preferred.

6. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	Aug 2024
100% Detailed Engineering Completion	Jan 2025
Fully Funded	Jan 2025
Construction Start	Sep 2025
In Service Date	Dec 2025

7. Regulatory Decisions

N/A

8. Codes and Standards

N/A

9. Risk and Contingencies

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2025	Low	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	2025	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2025	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.	2025	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2025	High	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.

Storm delays	2025	High	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2025	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

10. References

References
1. IEEE STD 493-2007

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

Attachment	Included in Submittal?
A1: Partial Funding PAF	*YES*
A. Cost Estimate	*YES*
B. Geographic Map	*YES*

EVERSOURCE

Project Approval Form

A1: Partial Funding PAF:

Project Title: [redacted]	**Project Number: CD02467**
Date Prepared: 06/14/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UG CABLE & EQUIPMNT REPLACEMNT
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op 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)
Required in service date: 12/31/2025	
Total Capital Request: $504K	**Authorization Type:** Partial Funding

1. Executive Summary

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- Project Location
  - Division: Central
  - District: Hartford AWC
  - City: Hartford

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2025	Total
Direct Capital Costs		
Internal Labor and Construction Equipment	50.7	50.7
Outside Services	15.5	15.5
Materials	204.7	204.7
Removals	24.8	24.8
Other	1.3	1.3
Risk and Contingency	28.9	28.9
Subtotal – Direct Costs	**325.9**	**325.9**
Indirect Capital Costs		
Indirect/Overheads (including benefits)	176.8	176.8
Capitalized interest or AFUDC, if any	1.7	1.7
Subtotal – Indirect Costs	**178.5**	**178.5**
Total Gross Capital Costs	**504.4**	**504.4**
Customer Contribution	**0.0**	**0.0**
Total Net Capital Project Costs	**504.4**	**504.4**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

- [redacted]
- [redacted]

b. Project Need

- [redacted]
- [redacted]

c. Project Scope

- [redacted]
- Major Material
  - Two S&C PME-5 Switchgear (603876)
  - Two concrete pad tops (604545)
  - Two concrete pad bottoms (604531)

4. Alternatives Considered

Project Option Comparison

[redacted]		
Authorization Type	Partial	Partial
Capital Cost	$504.4K	$98K
Expense Cost	$0K	$3K
Total Cost	$504.4K	$101K
Preferred option	X	

Option 1 was chosen to [redacted]

Option 2 to [redacted]

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	Aug 2024
100% Detailed Engineering Completion	Jan 2025
Fully Funded	Feb 2025
Construction Start	Sep 2025
In Service Date	12/31/2025

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
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Materials Shortage or long lead times	2025	High	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
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9. References

References
1. IEEE STD 493-2007

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

Attachment	Included in Submittal?
A. Cost Estimate	(YES) / NO / N/A
B. Geographic Map	(YES) / NO / N/A
C. Existing Switchgear photos	(YES) / NO / N/A

Attachment A. Cost estimate

Connecticut Light & Power
A Northeast Utilities Company

Project Design Alternative: 1

Project: CD02467 - [redacted] Replace

Design Alternative CD02467-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$406,813
Contingency Amount:	$97,635
Estimate:	$504,448
Reimbursement:	$0
Net Amount:	**$504,448**
Description:	[redacted]

Option 1

Item Description	CU	$ / Per	Qty	Amount
ACT ACT Estimate for Contractor Crews	23-ALL12	[redacted]		$84,989.00
SWITCHGEAR DB/UG - Switchgear up to 25kV - Auto Type 5 (pair)	23-UG125			$182,104.00
ENCLOSURE DB/UG - Transformer Pad/Handhole	23-UG143			$16,142.88
TRAFFIC OH/DB/UG - Traffic Control - Police Officer Police Traffic Control for 2 days	23-ALL18			$2,000.00
OTHER OTHER Switchgear Removal and additional labor	23-ALL14			$85,050.00
SWITCHING OH/DB/UG - SWITCHING Network Switching order	23-ALL15			$36,526.88

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]						

Connecticut Light & Power
A Northeast Utilities Company

Project Design Alternative: 2

Project: CD02467 - [redacted] SG Replace

Design Alternative CD02467-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$81,817
Contingency Amount:	$19,636
Estimate:	$101,453
Reimbursement:	$0
Net Amount:	**$101,453**

Description: Refurbish switchgear 314D

Item Description	CU	$ / Per	Qty	Amount
ACT ACT Estimate for Contractor Crews	23-ALL12	[redacted]		$9,990.00
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$2,000.00
SWITCHING OH/DB/UG - SWITCHING Network Dividers	23-ALL15			$36,526.88
OTHER OTHER Micro AT	23-ALL14			$20,000.00
OTHER OTHER New Barrier	23-ALL14			$6,300.00
OTHER OTHER Switchgear dividers	23-ALL14			$7,000.00

Attachment B. Geographic Map

[redacted]