EVERSOURCE

Supplement Authorization Form

Project Title: Network Transformer Replacements – CT	**Project Number:** CDNXANNL
Date Prepared: 02/03/2026	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** NETWORK XFMR + PROTECTOR REPL
Project Initiator: [redacted]	**Project Type:** Annual
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)
Current Authorized Amount: $234K	**Approved In-Service Date:** 12/31/2025
Supplement Request: $360K	**Estimated In-Service Date:** 12/31/2025
Total Capital Request: $594K	**Authorization Type:** Supplement Request
	Reason: Cost Overage

1. Project Background

This 2025 annual project covers the replacement of defective network units to improve the long-term performance of the feeder and the entire primary and secondary network system in 2025. The replacement cost per unit includes the cost of the unit, as well as rigging, traffic control, or manhole cleaning costs as necessary. This cost includes the replacement of both the transformer and protector, or each individually as needed. An approval of $234K was previously approved for the 2025 network transformer replacement annual work. A supplemental request of $360K is being requested to cover additional replacement of network units completed in 2025. The total capital request is $594K.

2. Supplement Justification Overview

- More network units needed to be replaced than anticipated.
- The average cost per work order increased since the previous year.
- Carryover charges from previous years being accounted for.

3. Supplement Justification Detail

An additional approval of $360k is being requested for the 2025 network transformer annual project. There were more network units that failed either the visual inspection, maintenance tests, or operationally than expected, resulting in more money needed to make the necessary repairs and replacements to avoid prolonged outages. The major material included in these jobs have increased in cost from 2024. These replacements need to be completed for the health and integrity of the network systems.

4. Supplement Cost Summary (Project Total)

Financial Evaluation ($000's)

Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction Equipment	$ 85.1	$ 45.5	$ 39.6	$ 85.1
Outside Services	$ 52.9	$ 27.1	$ 25.8	$ 52.9
Materials	$ 85.3	$ 29.7	$ 55.6	$ 85.3
Removals	$ 76.5	$ 33.0	$ 43.5	$ 76.5
Risk and Contingency	$ -	$ -	$ -	$ -
Other	$ 1.0	$ 0.9	$ 0.1	$ 1.0
Subtotal	**$ 300.7**	**$ 136.2**	**$ 164.6**	**$ 300.8**

Indirect Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Indirects/Overheads (including benefits)	$ 284.2	$ 96.8	$ 187.4	$ 284.2
Capitalized interest or AFUDC, if any	$ 8.7	$ 0.9	$ 7.8	$ 8.7
Subtotal	**$ 292.9**	**$ 97.7**	**$ 195.2**	**$ 292.9**

Total Capital Costs (Gross)	**$ 593.6**	**$ 233.9**	**$ 359.8**	**$ 593.7**
Less Total Customer Contribution	**$ -**	**$ -**	**$ -**	**$ -**
Project Costs (Net of Reimbursement)	**$ 593.6**	**$ 233.9**	**$ 359.8**	**$ 593.7**

5. New Total Request by Year (if applicable)

N/A

6. Lessons Learned

Project Title: Network Transformer Replacements – CT	**Project Number:** CDNXANNL
Date Prepared: 02/04/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** NETWORK XFMR + PROTECTOR REPL
Project Initiator: [redacted]	**Project Type:** Annual
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: $234K	**Authorization Type:** Full Funding

7. Executive Summary

Full Funding of is being requested at a cost of $234K. This project pertains to high volume work orders not to exceed $500K per work order and covers the entire state of CT. Capital work orders initiated against this annual project must include total costs less than or equal to $500K. Any work order exceeding $500K will require a separate Project Authorization Form (PAF).

This project was created as a blanket project to replace defective network transformers and protectors throughout Connecticut in 2025.

Replacement of defective network units improve the long-term performance of the feeder and the entire primary and network secondary system. The replacement cost per unit includes the cost of the unit, as well as rigging, traffic control or manhole cleaning cost as necessary. This cost includes both transformer and protector or individual transformer only or protector only.

8. Project Cost Summary

Capital Costs	2025	Total
Internal Labor and Construction Equipment	45.5	45.5
Outside Services	27.1	27.1
Materials	29.7	29.7
Removals	33.0	33.0
Other	0.9	0.9
Risk and Contingency	0.0	0.0
Subtotal	**136.3**	**136.3**

Indirect Capital Costs	2025	Total
Indirects/Overheads (including benefits)	96.8	96.8
Capitalized interest or AFUDC, if any	0.9	0.9
Subtotal	**97.7**	**97.7**
Total Capital Costs (Gross)	**234.0**	**234.0**
Less Total Customer Contribution	**0.0**	**0.0**
Project Costs (Net)	**234.0**	**234.0**

9. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Annual maintenance on network transformers and protectors involve inspecting, testing, and operating the units as well as taking oil samples. Over time, the network units may deteriorate in operation and physical condition due to exposure to the elements in the outside environment.

b. Project Need

Pro-actively replace defective network units prior to electrical failure. Network units identified as defective or obsolete should be replaced in a timely manner. If the unit were to fail while in service, it is likely to cause an outage on the circuit that feeds the unit.
Below are some examples of defects identified when maintenance is performed on network units:

Visual Inspection
- Excessive rust
- Oil leaking on the ground
- Oil leaking from transformer into protector

Maintenance Tests
- Failed meggar test
- Failed ductor test

Operation
- Protector has a high number of operations since last maintenance

Since failure of an in-service network unit can cause a feeder outage, defective network units are usually replaced in a timely manner.

c. Project Scope

Replace the entire network unit (transformer and protector), or the transformer only or the protector only. Quite often, replacement of the network transformer also requires the replacement of a section of lead cable that feeds the transformer.

Major Material:
Network transformers
Network protectors
Primary cable

10. Alternatives Considered

Do nothing: leaving defective network units in-service for an extended period of time could have an adverse impact on electrical system performance.

11. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Construction Start	01/01/2025
In Service Date	12/31/2025

12. Regulatory Decisions

N/A

13. Codes and Standards

N/A

14. Risk and Contingencies

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.
Internal construction resources not available to perform the work.	2025	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2025	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2025	Medium	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

15.

References
1. N/A

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

Attachment	Included in Submittal?
A. Cost Estimate	*No*
B. Partial PAF	*No*