EVERSOURCE

Operations Project Authorization Form

Project Title: Network Transformer Replacements – CT	**Project Number:** CDNXANNL26
Date Prepared: 12/01/2025	**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: 12/31/2026	
Total Capital Request: $1,000K	**Authorization Type:** Full Funding

1. Executive Summary

Full Funding of is being requested at a cost of $1,000K. 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 2026.

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.

2. Project Cost Summary

Costs in thousands

Capital Costs	2026	Total
Internal Labor and Construction Equipment	194.5	194.5
Outside Services	116.0	116.0
Materials	127.0	127.0
Removals	141.0	141.0
Other	4.0	4.0
Risk and Contingency	0.0	0.0
Subtotal	**582.5**	**582.5**

Indirect Capital Costs	2026.0	Total
Indirects/Overheads (including benefits)	413.5	413.5
Capitalized interest or AFUDC, if any	4.0	4.0
Subtotal	**417.5**	**417.5**
Total Capital Costs (Gross)	**1000.0**	**1000.0**
Less Total Customer Contribution	**0.0**	**0.0**
Project Costs (Net)	**1000.0**	**1000.0**

3. 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

[redacted]

4. 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.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Construction Start	01/01/2026
In Service Date	12/31/2026

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2026	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.	2026	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2026	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2026	Medium	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

9.

References
1. N/A

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

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