Project Approval Form

Project Title: 2024 Voltage Correction	Project Number: CDDKANNL24
Date Prepared: 04/19/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** VOLTAGE CORRECTION-DK ANNUAL
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: 12/31/2024	
Total Capital Request: $1,600K	**Authorization Type:** Full Funding

1. Executive Summary

This project was created as a blanket project to complete voltage correction jobs in Connecticut.

Voltage issues exist on the Connecticut distribution system that require special testing and repairs to correct the issue. This project was created to cover the voltage correction project in Connecticut in 2024.

This project pertains to high volume work orders not to exceed $500K 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) and Delegation of Authority (DOA) approval.

2. Project Cost Summary

*Costs are in Thousands

Capital Costs	2024	Total
Internal Labor and Construction Equipment	289.9	289.9
Outside Services	128.5	128.5
Materials	328.4	328.4
Removals	247.1	247.1
Other	6.0	6.0
Risk and Contingency	0.0	0.0
Subtotal	**999.8**	**999.8**

Indirect Capital Costs	2024	Total
Indirects/Overheads (including benefits)	588.5	588.5
Capitalized interest or AFUDC, if any	11.7	11.7
Subtotal	**600.1**	**600.1**
Total Capital Costs (Gross)	**1,600.0**	**1,600.0**
Less Total Customer Contribution	**0.0**	**0.0**
Project Costs (Net)	**1,600.0**	**1,600.0**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Eversource receives notices from customer regarding complaints with their power. These complaints can either be due to low voltage, flickering or other things the customer notices. Eversource evaluates the situation and if the voltage exceeds past the lower or upper voltage limit then they must come up with a solution to solve any of the voltage issues the customer is experiencing.

b. Project Need

Respons to customer complaints in a timely manner to solve their voltage issues. This work requires a response specialist to see if they can solve the issue. If the response specialist cannot find a solution then it goes to engineering and the test department to dig in deeper and find the cause of the issue. Many times this will require upgrading the transformer or modifying the regulators to slightly raise the voltage of the primary.

c. Project Scope

Work involved is from identifying voltage issues resulting from a customer complaint and correcting that issue. To start the process a response specialist will put a beast on the meter and compare the customers voltage during load and no load. This can identify a minor issue that requires a new service cable or more major that requires the primary voltage to be increased, or a transformer to be replaced which in return might require a new pole, cable, fuses, stub poles, anchors, guys, crossarms etc. This work must be completed in order to rectify the voltage issue and customer complaint.

4. Alternatives Considered

Do nothing: if we do not solve the voltage issue and the complaint is valid then the Company would not be following their own standards. This work needs to be completed.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
100% Detailed Engineering Completion	1/01/2024
Construction Start	1/01/2024
In Service Date	12/31/2024

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.		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.		Low	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.		Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays		Low	If storm activity delays work, we may be forced to use external resources.

System abnormal configuration		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*