EVERSOURCE

Operations Supplement Request Form

Approved on March 14, 2024 EPAC

Link to Meeting Minutes

Project Title: [redacted] **Relay Upgrades**	**Project Number: CS00463**
Date Prepared: 02/28/2024	**Company: Eversource CT**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - Relays**
Managing Organization: Project Mgt and Construction	**Schedule ID#: 80053196**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Capital Investment part of original Op Plan: Yes**
Project Manager's Director: [redacted]	**Estimated in service date: 11/9/2023 (Actual)**
Current Authorized Amount: $1,841K	**Emergency Related Request? No**
Supplement Request: $288K	**Supplement Type: Supplement**
Total Capital Request: $2,129K	**ISO-NE Approval Required** (check all that apply): ☐ PAC ☐ TCA
EJ Community Impact: No	

[1] Background

This project at the [redacted], is seeking a supplement request of $288K for a new total of $2,129K. This project replaced [redacted]

This project had $1,198K in full funding approved in PowerPlan on August 18, 2022 and revised full funding of $1,841K approved in PowerPlan on May 15, 2023 due to contractor bids that came in higher than the approved full funding amount. This additional supplement of $288K is needed to be able to pay the final invoices, Indirects/Overheads and AFUDC which will cover the costs that occurred to properly implement the project without interruption to the customers. The total project cost is $2,129K. The project was completed and placed in service November 9, 2023. This date was extended from the Rev 1 PAF October 2023 date originally listed due to needing B1 Bus Outage 23b7339 and B2 Bus Outage 23b72560 after the CONVEX outages were complete.

The actual amount spent on the project exceeded the Rev 1 preconstruction PAF approved funding because the team was unaware of the [redacted]

[redacted]

[redacted]

[redacted]

[2] Supplement Justification Overview

The primary driver of this supplement is increased cost in the following:

- Engineering the IFC drawings took longer due to the additional back and forth mark-up coordination.
- Construction and Testing due to the temporary configuration created for the 1X and 2X not being reflected in the IFC drawings. This added duration to the schedule, as the original plan was to complete the project in the spring of 2023 but the intricate outages needed for the temporary configurations split the scope to have a successful implementation. Half of the actual outages were taken in the Spring of 2023 and the remainder in the Fall of 2023.
- Both the existing 23K-1X and 23K-2X Transformer Primary and Back-Up Relays were mounted in the same Upper Relay Cabinet Access Door Front mounted above each of the equipment Transformer Breakers. A New Cabinet Front Mounting Plate had to be fabricated, new Primary & Back Up Relays

and Test Devices had to be installed, pre-wired, and tested while being mounted in a second temporary Test Stand. Discussed concern with Eversource P&C Engineering regarding taking both the Primary & Back-Up Relays out of service (OOS) and installing both new relays. Based on Sub 202, the team was not able to remove both relays at the same time; the team had to do one (1) at a time for correct System Operation verification.

- The Other category reflects the rental of a temporary generator for the Town of Westport Wastewater Treatment Facility to provide full power due to lack of relay redundancy. This was not known at the time of Rev 1 PAF because the project team had not vetted out the impact of all the potential customers.

[3] Supplement Justification Detail

The reasons for the project authorization supplement of $288K are summarized below.

1. **Engineering / Design: $10K** – The CT as-built process was slightly more expensive than anticipated due to all of the changes with the temporary and permanent configurations, and due to the additional back and forth mark-up coordination.
2. **Construction: $68K** – Change orders were required to create the temporary configuration on both the 1x and 2x (costs includes the Testing/Commissioning sub-contractor)
3. **Other: $174K** – Generator rental for two (2) months for the Wastewater treatment plant since we could not take them out of service.
4. **Risks:** ($70K) – Utilized the risk value to offset the overages in the other categories.
5. **Indirects/Overhead: $87K -** The value of Indirects/Overhead increased due to direct cost increases.
6. **AFUDC: $55K -** The value of AFUDC increased due to direct cost increases.
7. **Contingency: ($36K)** – Utilized the contingency value to offset the overages in the other categories.

Total Supplement Request: $288K

Please find a copy of the prior authorization document attached as reference.

[4] Supplement Cost Summary

The table below summarizes the line item categories from the original project estimates and the updated project estimates.

Note: Dollar values are in thousands and rounded to nearest thousand:

Line item Category	Prior Authorized	New Total Request	Variance (Supplemental Request)
1. ROW / Easements / Land Acquisition	$	$	$
2. Environmental Approvals / Permits	$	$	$
3. Outreach	$	$	$
4. Siting Approvals / Permits	$	$	$
5. Engineering / Design	$329	$339	$10
6. Materials (Eversource purchased)	$83	$83	$0
7. Construction (incl materials by contractors)	$332	$400	$68
8. Testing / Commissioning	$385	$385	$0
9. Project Mgmt. Team	$103	$103	$0
10. Removals	$8	$8	$0
11. Other	$	$174	$174
12. Risks	$70	0	($70)
SUBTOTAL DIRECTS W/ RISKS	**$1,310**	**$1,492**	**$182**
1313. Indirects/Overhead	$448	$535	$87
14. AFUDC	$47	$102	$55
PROJECT TOTAL – BASELINE BUDGET	**$1,805**	**$2,129**	**$324**
15. Contingency	$36	$0	($36)
TOTAL CAPITAL REQUEST	**$1,841**	**$2,129**	**$288**
16. Reimbursables/Customer Contribution	$	$	$
PROJECT TOTAL (LESS REIMBURSABLES)	**$1,841**	**$2,129**	**$288**

Total Supplement Request by Year

(NOTE: This table should show only the supplement request)

Note: Dollar values are in thousands and rounded to nearest thousand:

Line item Category	2024	20XX	20XX	20XX	Total
1. ROW / Easements / Land Acquisition	$	$	$	$	$
2. Environmental Approvals / Permits	$	$	$	$	$
3. Outreach	$	$	$	$	$
4. Siting Approvals / Permits	$	$	$	$	$
5. Engineering / Design	$10	$	$	$	$10
6. Materials (Eversource purchased)	$	$	$	$	$
7. Construction (incl matl's by contractors)	$68	$	$	$	$68
8. Testing / Commissioning	$	$	$	$	$
9. Project Mgmt. Team	$	$	$	$	$
10. Removals	$	$	$	$	$
11. Other	$174	$	$	$	$174
12. Risks	($70)	$	$	$	($70)
SUBTOTAL DIRECTS W/ RISKS	**$182**	**$**	**$**	**$**	**$182**
13. Indirects/Overhead	$87	$	$	$	$87
14. AFUDC	$55	$	$	$	$55
PROJECT TOTAL – BASELINE BUDGET	**$324**	**$**	**$**	**$**	**$324**
15. Contingency	($36)	$	$	$	($36)
TOTAL CAPITAL REQUEST	**$288**	**$**	**$**	**$**	**$288**
16. Reimbursables/Customer Contribution	$	$	$	$	$
PROJECT TOTAL (LESS REIMBURSABLES)	**$288**	**$**	**$**	**$**	**$288**
O&M	$	$	$	$	$
TOTAL REQUEST	**$288**	**$**	**$**	**$**	**$288**