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Operations Project Authorization Form

Approved on December 18, 2025 EPAC

Link to Meeting Minutes

Project Title: Christian [redacted] Replacement	**Project Number: CS00557**
Date Prepared: 12/05/2025	**Company: Eversource CT**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - SCADA**
Managing Organization: Project Mgt and Construction	**Schedule ID#: N/A**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Capital Investment part of original Op Plan: Yes**
Estimated in service date: September 2025 (completed)	**Emergency Related Request? No**
Eng./Constr. Resources Budgeted? Yes	**Facility Type (check all that apply):** ☐ **PTF** ☐ **non-PTF** ☐ **local PTF** ☒ **Distribution** ☐ **N/A (General Plant)**
EJ Community: No	**Authorization Type: Full Funding**
Total Capital Request: $551K	

[1] Executive Summary

This project is seeking full funding authorization in the amount of $551K for the completed replacement of an obsolete remote terminal unit (RTU) at [redacted] substation in New Preston, CT.

The existing RTU was a [redacted] that was installed in 1992 and had been tied to feeder meter issues at the station. The manufacturer is no longer supporting replacement parts and the RTU has been deemed obsolete. Station Operations and Field Engineering recommended that this RTU be replaced with a new Schweitzer Engineering Laboratories [redacted].

This replacement was started in November 2021 as a planned annual, utilizing work order (WO) [redacted] (Reference 1). This planned annual WO allowed the team to complete engineering and design packages, order materials, and start construction. In November 2024, the charges on the WO exceeded the planned annual limit of $100K imposed by [redacted] (Reference 2). A

partial funding project authorization form (PAF) (Reference 3) in the amount of $639K was presented to EPAC and approved in PowerPlan on January 2, 2025.

This project, although planned, experienced delays due to resources and budget constraints. The RTU eventually experienced an emergent failure in July 2024 after a defective analog input card resulted in incorrect meter readings in the supervisory control and data acquisition (SCADA) system. The new RTU was placed in-service in December 2024, prior to obtaining full funding, to correct this issue. The WO was placed in-service and closed out in September 2025.

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[2] Project Costs Summary

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

Line item Category	Prior Authorized	Actuals to Date	2026 to Go	2027	Total Request
1. ROW / Easements / Land Acquisition	$	$0	$	$	$0
2. Environmental Approvals / Permits	$	$0	$	$	$0
3. Outreach	$	$0	$	$	$0
4. Siting Approvals / Permits	$	$0	$	$	$0
5. Engineering / Design	$	$58	$	$	$58
6. Materials (Eversource purchased)	$30	$31	$	$	$31
7. Construction (incl materials by contractors)	$369	$88	$	$	$88
8. Testing / Commissioning	$	$49	$	$	$49
9. Project Mgmt Team	$	$0	$	$	$0
10. Removals	$	$13	$	$	$13
11. Other	$	$0	$	$	$0
12. Risks	$	$0	$15	$	$15
SUBTOTAL DIRECTS W/ RISKS	**$399**	**$240**	**$15**	**$**	**$255**
13. Indirects/Overhead	$195	$267	$	$	$267
14. AFUDC	$45	$29	$	$	$29
PROJECT TOTAL – BASELINE BUDGET	**$639**	**$536**	**$15**	**$**	**$551**
15. Contingency	$	$0	$	$	$
TOTAL CAPITAL REQUEST	**$639**	**$536**	**$15**	**$**	**$551**
16. Reimbursables/Customer Contribution	$	$0	$	$	$
PROJECT TOTAL (LESS REIMBURSABLES)	**$639**	**$536**	**$15**	**$**	**$551**
O&M	$	$0	$	$	$
TOTAL REQUEST	**$639**	**$536**	**$15**	**$**	**$551**

Detail other costs, project risk items and their allocations:

Risk	Allocation
1. Project Closeout Costs	$15
Total	$15

Explain unique payment provisions, if applicable:

This project started as a planned annual under WO 80140685 to replace an obsolete RTU at Christian 31C and materials have already been ordered and received. Construction started in October 2024, and the project was placed in service September 2025. Recently, the actuals have exceeded the $100K limit of the planned annual WO, which requires a PAF to obtain additional funding.

Identify and detail any unique O&M impacts resulting from this project: N/A

[3] Technical Justification

Project Need, Objective and Justification

[redacted] currently utilizes a distribution RTU that is no longer supported by the manufacturer and has been deemed obsolete. This RTU has been linked to multiple feeder meter issues at the station and requires replacement with a new fully supported unit. This work was started under a planned annual WO (80140685) that was created in November 2021. This annual WO allowed the project team to engineer and design the replacement (up to IFC), order materials, and start construction. The construction of this RTU replacement project began in October 2024 and was completed in September 2025.

The objective of this project is to replace the aging and obsolete RTU with a new [redacted] and to improve system reliability.

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Project Scope

The scope of this project is to replace the existing [redacted] station RTU with a new [redacted]. The following RTU contributions were added to the newly installed RTU:

[redacted]

The RTU replacement was completed and placed in-service in September 2025. No formal constructability review was completed for this project.

Substation Equipment

Station	Device Position / Nomenclature	Device Removals *include manufacturer*	Device Additions *include manufacturer*
[redacted]			

Background

Multiple feeder meter issues at [redacted] have been linked back to the obsolete distribution RTU. The feeder meters at [redacted] have experienced issues and they are displaying incorrect readings in Supervisory Control and Data Acquisition (SCADA) resulting in operational challenges for the operators. The SCADA team was unable to connect to the RTU to make configuration changes required for the meter replacements. Field Engineering and Station Operations recommend replacing this RTU with a new [redacted] RTU will improve system reliability at [redacted].

This project started as a planned annual project to replace the distribution RTU based on the above-mentioned metering issues that were occurring. An annual WO was opened in November 2021 to allow the team to start planning and engineering the project. The project was delayed several times due to budget and resource constraints. In November 2024, the charges on the annual WO exceeded the $100K limit imposed by the APS-01. A partial funding PAF in the amount of $639K was then presented to EPAC and approved in January 2025. The distribution RTU experienced an emergent failure in December 2024, which prompted the emergent replacement under the original planned annual WO prior to this project receiving full funding approval.

[4] Alternatives Considered

This work started as a planned annual in November 2021 and is a like-for-like replacement of an obsolete RTU. As such, there are no alternatives considered for this project.

[5] Project Schedule

Milestone	Scheduled Completion Date
Annual WO created	November 2021
SDC Approval	N/A
Conversion of Tx development costs, 183 to 107 (applicable to projects that require SSF approval and/or ISO preferred alternative selection)	N/A
EPAC Partial Funding Approval (for applicable projects)	December 2024
Preliminary Design Completion (or latest pre-full funding design phase)	September 2024
EPAC Full Funding Approval	December 2025
Siting Approval (for applicable projects)	N/A
Start of Construction	October 2024
Project In-Service Date (ISD)	September 2025
Project Need Date (for applicable projects)	N/A
ISO Related Milestones: (for applicable projects)	
• ISO Preferred Alternative Selected	N/A
• PAC Presentation	N/A
• TCA Submittal	N/A

[6] Regulatory Approvals

There are no regulatory approvals associated with the scope of work for this project.

EJ Community Considerations:

This project is not located within an Environmental Justice (EJ) Community.

[7] Risk and Risk Mitigation Plans

Contingency:

This work was completed and the new RTU placed in-service in September 2025. There is no contingency allocation required.

Risk Mitigation:

Risk	Mitigation
1. Project Closeout Costs	The WO and project have been placed in-service as of September 2025, however, there is a risk that minor additional closeout costs may be applied to the project. This risk is mitigated by coordination with the project team and a risk allotment.
Total	

[8] References

References
1. Capital Annual Request Form, [redacted] RTU Replacement (11/17/2021)
2. [redacted] Project Authorization Policy
3. [redacted] RTU Replacement, approved 12/19/2024

[9] Attachments (One-Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Cost Estimate (Actuals)	*YES*

INSTRUCTIONS:
It is the responsibility of the initiator to contact the subject matter experts in the listed area disciplines to determine if the project considerations contained in this list are applicable to their project. They should fill out the checklist and determine a transition plan for the purpose of project execution. See the PAF Guide for additional instruction.

Project Checklist - Transmission & Substation Capital Project			
Project Name: [redacted] **RTU Replacement**		**Project Number: CS00557**	
Facility Type: ☐BPS ☐BES ☐PTF ☐local PTF ☐non-PTF ☐CIP ☒Distribution ☐General Plant ☐CONVEX ☐SCADA			
PLANNING			
Is a NX-9 required?		No	
Is an ISO-NE PAC presentation required?		No	
ISO-NE Presentation Date (if completed):		N/A	
Cost in ISO-NE Presentation ($M) (if completed):		N/A	
Is a PPA required?		No	
ISO-NE Approval Date (if completed):		N/A	
Is a TCA Application Required?		No	
TCA Submittal Date (if submitted):		N/A	
Cost in TCA Submittal ($M) (if submitted):		N/A	
Enter ISO-NE RSP / Asset Condition ID, if assigned:		N/A	
PLANNING/PROTECTION & CONTROLS			
Are RAS/SPS/UVLs affected?		No	
OPERATIONS			
Outage Required?	☐ Primary Equipment (Power Transfer)	☒ Secondary Equipment (P&C only)	☐ Outage Not Required
Do SCLL Conditions Exist?		No	
Has an outage schedule been approved?		NR	
Are Operations & Maintenance procedures/training required?		No	
STANDARDS			
Does the project include standard equipment and designs?		Yes	
SUBSTATION ENGINEERING			
Does this impact Revenue Metering		Yes	
Is preliminary short circuit/ breaker duty analysis required?		No	
Are there any changes to the baseline audible noise?		No	
Is there an impact to the existing ground grid?		No	
Is a Transient Over Voltage (TOV) analysis required?		No	

Project Checklist - Transmission & Substation Capital Project		
Project Name: [redacted] RTU Replacement		Project Number: CS00557
P&C ENGINEERING		
OP-22 - Are PMUs and DDR required?	No	
If BPS, is an NPCC Directory #4 presentation required?	No	
Are ISO-NE OP-24 Appendix B updates necessary?	No	
TRANSMISSION LINE ENGINEERING		
Are there any changes that affect the baseline EMF?	No	
Are there any changes that affect the baseline EMI?	No	
SITING		
Has Siting reviewed this project?	No	
Name of Siting contact:	N/A	
Is a Siting filing required? *(If yes, list in regulatory approvals section)*	No	
PERMITTING		
Is there any permitting required? *(If yes, list in regulatory approvals section)*	No	
PROJECT SERVICES (OUTREACH) and ROW WORK COORDINATION		
Has Project Services reviewed this project?	No Choose an item	
Name of Project Services contact:	N/A	
What is the level of outreach expected?	None	
Has ROW Coordination reviewed this project?	No	
Is this project coordinating with other existing scheduled work?	No	
ENVIRONMENTAL JUSTICE COMMUNITIES		
Has the Equity and Environmental Justice team reviewed this project?	N/A	
Name of Equity and Environmental Justice contact:	N/A	
Is any part of this project in an Environmental Justice Community?	No	
Was the Equity Framework Checklist completed?	N/A	
Has enhanced outreach required per State Regulatory requirements been completed?	N/A	
INITIATOR		
Has a field constructability review been completed?	No	

Project Checklist - Transmission & Substation Capital Project	
Project Name: [redacted] RTU Replacement	**Project Number: CS00557**
INVESTMENT RECOVERY	
Does the project require development of an Investment Recovery plan?	No
COST ESTIMATING	
What team/firm prepared the cost estimate?	Other (specify below)
Name of the person who prepared the estimate:	Asset Management – Jonathan Escobar
Was the estimate reviewed by Eversource Estimating?	No

ATTACHMENT A

	Project Number:	CS00557	Project Title:							
	Date of Actuals	9/1/2025	PAF (dollars in thousands)							
	Line item Category	Prior Authorized	Actuals to Date	2026 to Go	2027	2028	2029	2030	2031	Total
1	1. ROW / Easements / Land purchases		$0							$0
2	2. Environmental Approvals / Permits		$0							$0
3	3. Outreach		$0							$0
4	4. Siting Approvals / Permits		$0							$0
5	5. Engineering / Design		$58							$58
6	6. Materials (Eversource purchased)		$31							$31
7	7. Construction (incl matl's by contractors)		$88							$88
8	8. Testing / Commissioning		$49							$49
9	9. PMT Project Mgmt Team		$0							$0
10	10. Removals		$13							$13
11	11. Other		$0							$0
12	12. Risks		$0	$15						$15
	Project Directs Total w/Risks	$0	$240	$15						$255
13	13. Indirects/Overhead		$267							$267
14	14. AFUDC		$29							$29
	Project Total - Baseline Budget	$0	$536	$15						$551
15	15. Contingency		$0							$0
0	#N/A									
	Project Total - Funding Approval Level	$0	$536	$15						$551
16	16. Reimbursables/Customer Contribution		$0							
	#N/A									
	Project Total (less reimbursables)	$0	$536	$15						$551
	Total O&M		$0							
	TOTAL REQUEST	$0	$536	$15						$551

	Breakout costs incl above	PAF (dollars in thousands)						
1	ST Labor	[redacted]						
2	OT Labor							
3	Outside services - Labor							
4	Materials (All materials incl. outside servic purchased which is shown in constr. above)							
5	Removals							
6	Other							
7	Indirects							
8	AFUDC							
	TOTAL CAPITAL REQUEST - with out Reimbursables							