EVERSOURCE

Operations Project Authorization Form

Approved on December 7, 2023 EPAC

Link to Meeting Minutes

Project Title: [redacted] **Rplc & DSCADA Installation**	**Project Number: CS00647**
Date Prepared: 11/16/2023	**Company: Eversource CT**
Organization: Asset Management	**Class(es) of Plant: Other**
Project Initiator: [redacted]	**Project Category: Stations - Circuit Breakers**
Managing Organization: Engineering	**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: October 2022 (Completed)	**Emergency Related Request? No**
Eng./Constr. Resources Budgeted? Yes	**Facility Type (check all that apply):** ☐ **PTF** ☐ **non-PTF** ☒ **Distribution** ☐ **N/A (General Plant)**
Total Capital Request: $148K	**Authorization Type:** Full Funding

[1] Executive Summary

This Project Authorization Form (PAF) is requesting full funding in the amount of $148K for a completed project to replace the high and low side reclosers and to install a Distribution Supervisory Control and Data Acquisition (DSCADA) cabinet on the [redacted] utilized in CT.

This work was executed and completed under annual work order (WO) DSN92051 and was performed at the mobile parking test shop on the Eversource Berlin campus in Berlin, CT. DSN92051 was a WO initiated in 2019 that remained open and unused until it was selected as the WO for [redacted] work in 2022. This PAF provides the documentation necessary to transfer the capital charges from WO DSN92051 to project number CS00647, as the total charges exceed the $100K annual work order limit for work orders initiated in 2019, as defined by APS-01 and in accordance with policies outlined in Capital Project Approval Process Job Aid JA-AM-2001-A.

The original scope of WO DSN92051 covered the replacement of the two (2) reclosers on the 69MX unit. A large driver behind the increase in charges beyond the $100K limit is the addition of the DSCADA cabinet work, which the original WO did not include. Work for this project is

complete, and the high and low side reclosers and the DSCADA cabinet were placed in service in October 2022.

There was a process gap at the time regarding the identification of overspent annuals that resulted in the delay for Full Funding for DSN92051 to 2023. At present, Eversource has adopted a stronger process for tracking annual WO spending and resolving overspent annuals that coordinates efforts between Investment Planning, Project Management, and Asset Management to drive compliance.

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[2] PROJECT COSTS SUMMARY

Note: Dollar values are in thousands

Line item Category	Prior Authorized	Actuals to Date	2023 to Go	2024	2025	2026	2027	2028	Total Request
1. ROW / Easements / Land Acquisition	$								
2. Environmental Approvals / Permits	$								
3. Outreach	$								
4. Siting Approvals / Permits	$								
5. Engineering / Design	$	$12							$12
6. Materials (Eversource purchased)	$	$41							$41
7. Construction (incl materials by contractors)	$	$17							$17
8. Testing / Commissioning	$	$12							$12
9. Project Mgmt. Team	$								
10. Removals	$	$21							$21
11. Other	$								
12. Risks	$		$10						$10
SUBTOTAL DIRECTS W/ RISKS	**$100**	**$103**	**$10**						**$113**
13. Indirects/Overhead	$	$35							$35
14. AFUDC	$								
PROJECT TOTAL – BASELINE BUDGET	**$100**	**$138**	**$10**						**$148**
15. Contingency	$								
TOTAL CAPITAL REQUEST	**$100**	**$138**	**$10**						**$148**
16. Reimbursables/Customer Contribution	$								
PROJECT TOTAL (LESS REIMBURSABLES)	**$100**	**$138**	**$10**						**$148**
O&M	$								
TOTAL REQUEST	**$100**	**$138**	**$10**						**$148**

Detail other costs, project risk items and their allocations:

Risk	Allocation
1. Associated Charges to Close Out Project	$10K
2.	$
3.	$
4.	$
5.	$
Total	$10K

Explain unique payment provisions, if applicable:

N/A

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

N/A

[3] TECHNICAL JUSTIFICATION

Project Need, Objective and Justification

In early 2022, one of the reclosers on the [redacted], prompting immediate replacement. Due to the condition of the failed recloser, repair was not an option. Both the failed unit and the [redacted] on the [redacted] were 1989 oil-filled models of the same vintage and from the same manufacturer. The control scheme associated with both units was also Form 3 controls, in contrast to the Form6A controls employed as the current Eversource standard. Due to both the [redacted] employed by the two (2) reclosers, the decision was made to replace both units at the same time with new vacuum-interrupting reclosers, in accordance with current Eversource standards.

Additionally, Substation Automation requested the addition of a DSCADA cabinet [redacted]. With the installation of new reclosers with new control schemes, however, an opportunity was identified for SCADA integration, and the decision was made to add SCADA equipment to the [redacted] The installation of DSCADA equipment work was not originally included in the scope of work and was added on to DSN92051, leading to a total spend more than $100K.This DSCADA work will also be journaled over to this project number CS00647.

Project Scope

All work was performed in the Eversource mobile parking test shop in Berlin, CT. The scope of this project included the following:

[redacted]

Substation Equipment

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

Background

While work for the recloser replacement was ongoing for the [redacted] Substation Automation requested the addition of a DSCADA cabinet and associated equipment to the [redacted] to meet current Eversource standards. DSN92051 was chosen to cover the work for the installation of DSCADA equipment.

The high and low side reclosers and the DSCADA cabinet were placed in service in October 2022.

[4] ALTERNATIVES CONSIDERED

There were no alternatives considered, as the reclosers required immediate replacement.

[redacted]

[5] PROJECT SCHEDULE

Milestone	Scheduled Completion Date
Capital Annual Initiation	2019
SDC Approval (for applicable projects)	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)	N/A
Preliminary Design Completion (or latest pre-full funding design phase)	N/A
EPAC Full Funding Approval	December 2023
Siting Approval (for applicable projects)	N/A
Start of Construction	January 2022
Project In-Service Date (ISD)	October 2022 (Completed)
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

N/A

[7] Risk and Risk Mitigation Plans

Contingency:

No contingency has been allocated to this project as it has already been completed.

Risk Mitigation:

Risk	Mitigation
1. Associated Charges to Close Out Project	Additional funds placed to facilitate routing of project to PowerPlan, transfer of charges between WOs, etc.
2.	
3.	
4.	

[8] References

References
1. Capital Annuals Process Rev. 1, dated 1/1/2021
2. Capital Project Approval Process Job Aid JA-AM-2001-A
3. Project Authorization Policy APS-1, dated 1/1/2022

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

Attachment	Included in Submittal?
A. Project Actuals	*YES*
B. P6 Schedule	*N/A*
C. Constructability Review	*N/A*

Project Checklist - Transmission & Substation Capital Project			
Project Name: [redacted] **Repl. & DSCADA Installation**		**Project Number: CS00647**	
Facility Type: ☐BPS ☐BES ☐PTF ☐PTF non-regional ☐non-PTF ☐CIP ☒Distribution ☐General Plant			
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?	No		
Are Operations & Maintenance procedures/training required?	No		
STANDARDS			
Does the project include standard equipment and designs?	Yes		
SUBSTATION ENGINEERING			
Does this impact Revenue Metering	No		
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] Rplc & DSCADA Installation	**Project Number: CS00647**
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?	N/A
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?	N/A Choose an item
Name of Project Services contact:	N/A
What is the level of outreach expected?	None
Is any part of this project in an Environmental Justice Community?	No
Has ROW Coordination reviewed this project?	N/A
Is this project coordinating with other existing scheduled work?	No
INITIATOR	
Has a field constructability review been completed?	NR
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:	Actuals – [redacted]
Was the estimate reviewed by Eversource Estimating?	No

	Project Number:	DSCN	Project Title:							
	Date of Actuals	7/1/2023		PAF (dollars in thousands)						
	Line item Category	Prior Authorized	Actuals to Date	2023 to Go	2024	2025	2026	2027	2028	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		$12							$12
6	6. Materials (Eversource purchased)		$41							$41
7	7. Construction (incl matl's by contractors)		$17							$17
8	8. Testing / Commissioning		$12							$12
9	9. PMT Project Mgmt Team		$0							$0
10	10. Removals		$21							$21
11	11. Other		$0							$0
12	12. Risks		$0	$10						$0
	Project Directs Total w/Risks	$0	$103	$10						$113
13	13. Indirects/Overhead		$35							$35
14	14. AFUDC		$0							$0
	Project Total - Baseline Budget	$0	$138	$10						$148
15	15. Contingency		$0							$0
0	#N/A									
	Project Total - Funding Approval Level	$0	$138	$10						$148
16	16. Reimbursables/Customer Contribution		$0							$0
	#N/A									
	Project Total (less reimbursables)	$0	$138	$10						$148
	Total O&M		$0							$0
	TOTAL REQUEST	$0	$138	$10						$148