EVERSOURCE

Operations Project Authorization Form

Approved on November 08, 2022 EPAC

Link to Meeting Minutes

Project Title: [redacted]	**Project Number: CS00475**
Date Prepared: 11/02/2022	**Company: Eversource CT**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - Switches**
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: November 13, 2019	**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: $416K	**Authorization Type: Full Funding**

[1] Executive Summary

[redacted] project is seeking full funding of $416K. [redacted] The project began under annual work order (WO) DSQ42013 and was authorized for $89K in PowerPlan on September 24, 2018. The project was placed in-service November 13, 2019.

This Project Authorization Form (PAF) documents costs that were more than the authorized spend for work order (WO) DSQ42013. Charges exceeded authorization by a work order threshold value per Eversource Project Authorization Policy APS01. Upon approval of this Full Funding PAF, charges to the WO will be fully accounted for under funding project number (PN) CS00475 and journaled to this project following approval.

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[2] PROJECT COSTS SUMMARY

Note: Dollar values are in thousands

Line item Category	Prior Authorized	Actuals to Date	2022 to Go	2023	Total
1. ROW / Easements / Land Acquisition	$	$	$	$	$
2. Environmental Approvals / Permits	$	$	$	$	$
3. Outreach	$	$	$	$	$
4. Siting Approvals / Permits	$	$	$	$	$
5. Engineering / Design	$	$9	$	$	$9
6. Materials (Eversource purchased)	$	$35	$	$	$35
7. Construction (incl matl's by contractors)	$73	$79	$	$	$79
8. Testing / Commissioning	$	$9	$	$	$9
9. Project Mgmt Team	$	$	$	$	$
10. Removals	$16	$92	$	$	$92
11. *Other	$	$23	$	$	$23
12. Risks	$	$	$	$	$
SUBTOTAL DIRECTS W/ RISKS	**$89**	**$247**	**$**	**$**	**$247**
13. Indirects/Overhead	$	$169	$	$	$169
14. AFUDC	$	$	$	$	$
PROJECT TOTAL – BASELINE BUDGET	**$89**	**$416**	**$**	**$**	**$416**
15. Contingency	$	$0	$	$	$0
TOTAL CAPITAL REQUEST	**$89**	**$416**	**$**	**$**	**$416**
16. Reimbursables/Customer Contribution	$	$0	$	$	$0
PROJECT TOTAL (LESS REIMBURSABLES)	**$89**	**$416**	**$**	**$**	**$416**
O&M	$	$0	$	$	$0
TOTAL REQUEST	**$89**	**$416**	**$**	**$**	**$416**

Detail other costs, project risk items and their allocations:

Risk	Allocation
1. *Other – Equipment rentals and mileage	$23
2.	$
3.	$
4.	$
5.	$
Total	$23

A cost analysis spreadsheet WBS DSQ042013 [redacted] Cost Analysis 11012022 was created for this PAF (Attachment A):

- Power Plan financial data for the WO is contained in Data Tab.
- The WBS PT Tab has the summary of the actual expenditures used to populate the Project Costs Summary.

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

[redacted]

Project charges started in March 2014 to work order DSQ42013 and completed in March 2019. See Attachment C for the prior authorization documentation.

Project Scope

[redacted]

Substation Equipment

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

Background

[4] Alternatives Considered

N/A. The project is complete and was placed in service on November 13, 2019.

[5] Project Schedule

Milestone	Scheduled Completion Date
IFR Approval (WO Initiation)	September 2018
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	November 2022
Siting Approval (for applicable projects)	N/A
Start of Construction	March 2014
Project In-Service Date (ISD)	November 2019
Project Need Date (for applicable projects)	N/A

Milestone	Scheduled Completion Date
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 – The project is complete.

[7] Risk and Risk Mitigation Plans

Contingency:

The Project was completed.

Risk Mitigation:

The project has been completed and there are no outstanding risks.

Risk	Mitigation
1. N/A	
2.	

[8] References

References
1. APS01 Project Authorization Policy – Eversource 12-21-2021
2. WO # DSQ42013 – Jefferson Hill 26F Replace Failed Switches

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

Attachment	Included in Submittal?
A. WBS DSQ42013 Replace Failed Switches Cost Analysis 11012022	*YES*
B. Nomenclature [redacted] 01212022	*YES*
C. [redacted] DSQ42013 SS Project Assignment 03112014	*YES*
D.	

Project Checklist - Transmission & Substation Capital Project

Project Name: J[redacted]

Project Number: CS00475

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):	NA
Cost in ISO-NE Presentation ($M) (if completed):	Enter Cost ($M)
Is a PPA required?	No
ISO-NE Approval Date (if completed):	Enter Date
Is a TCA Application Required?	No
TCA Submittal Date (if submitted):	Enter Date
Cost in TCA Submittal ($M) (if submitted):	Enter Cost ($M)
Enter ISO-NE RSP / Asset Condition ID, if assigned:	Enter ISO-NE ID
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	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	
[redacted]	**Project Number: CS00475**
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	
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	
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?	No
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:	Costs based on Actuals
Was the estimate reviewed by Eversource Estimating?	No

	Descrition / #'s:	CS00475	DSQ42013							
	FP Desciption	XX/31/2022	12/31/2022							
	Line item Category	**PAF (000's) Prior Authorized**	**Actuals to Date**	**2022 to Go**	**2023**	**2024**	**2025**	**2026**	**2027**	**Total**
1	1. ROW / Easements / Land purchases									$0
2	2. Environmental Approvals / Permits									$0
3	3. Outreach									$0
4	4. Siting Approvals / Permits									$0
5	5. Engineering / Design		$9							$9
6	6. Materials (Eversource purchased)		$35							$35
7	7. Construction (incl matl's by contractors)	$73	$79							$79
8	8. Testing / Commissioning		$9							$9
9	9. PMT Project Mgmt Team									$0
10	10. Removals	$16	$92							$92
11	11. Other		$23							$23
12	12. Risks									$0
	Project Directs Total w/Risks	**$89**	**$247**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$247**
13	13. Indirects/Overhead		$169							$169
14	14. AFUDC									$0
	Project Total - Baseline Budget	**$89**	**$416**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$416**
15	15. Contingency									$0
0	#N/A									$0
	Project Total - Funding Approval Level	**$89**	**$416**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$416**
16	16. Reimbursables/Customer Contribution									$0
	#N/A									$0
	Project Total (less reimbursables)	**$89**	**$416**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$416**
	Total O&M									$0
	TOTAL REQUEST	**$89**	**$416**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$416**

[redacted]

61 JEFFERSON HILL RD
(203) 567–0114

THIS DWG. REFERS TO
CL&P SWITCHING DIAGRAM
LITCHFIELD DIST, DWG. B–7A

DATE	REVISIONS	BY
07/18/2007	REMOVED [redacted] PER [redacted]	BJM
02/11/2005	ADDED NOTE FOR NON LOADBREAK SWITCH [redacted]	CB

EVERSOURCE ENERGY

FOR
EVERSOURCE ENERGY CONNECTICUT

TITLE
[redacted]
SUBSTATION OPERATING DIAGRAM

LITCHFIELD, CT

PAGE SIZE	GRID	SUBSTATION NO.
B – 11" X 17"	CT E6–2 N–3	17408

EVERSOURCE ENERGY SERVICE COMPANY
SUBSTATION PROJECT ASSIGNMENT

TITLE: [redacted] S/S – Replace Failed Switches	**AU:** 1D	**PROJ./W.O. NO:** DSQ42013 Rev. 1
SYSTEM PROJECT TITLE: WR 2291442	PROJ. CONSTR. MGR.: [redacted]	**DATE ISSUED:** 3/11/14
OP. CO /DIVISION/ DISTRICT: EVERSOURCE/WESTERN/Torrington	[redacted]	

PERSONNEL ASSIGNMENTS:

PROTECTION	DESIGN	CIVIL	METER ENGINEERING
[redacted]			

DISTRIBUTION AUTOMATION			Requested By:
[redacted]			[redacted]

CL&P Distribution Annual Work Order – Failed/Failing Equipment

(This work order will be tracked separately as "Failed/Failing Equipment")

DESCRIPTION OF ENGINEERING WORK INVOLVED:

Furnish necessary engineering and design using a 2014 annual work order for the replacement of the [redacted]

Rev. 1 (Change personnel assignments, ISD, estimate & add drawing issue dates)

SCHEDULED ISD: 5/31/19
ACTUAL ISD:

CIVIL DRAWING ISSUE: N/A
P/C PKG to DESIGN: N/A
PHYS DRAWING ISSUE: 2/28/19
ELEC DRAWING ISSUE: 2/28/19

Annual Project Estimate

Activity	$ Estimate
Labor – Electrical Construction (ADDS0)	37200.00
Labor - Civil Construction (ADDS0)	0.00
Labor - Electrical Test (ADDS0)	4900.00
Labor – Engineering (NUMS0)	7800.00
Labor – Removal (RMVS0)	16300.00
Material (ADDS0)	23000.00
Loaded Project Estimate Total	**89200.00**

JWB