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Operations Project Authorization Form

Approved on October 13, 2022 EPAC

Link to Meeting Minutes

Project Title: [redacted] Replacement	**Project Number: CS00441**
Date Prepared: 09/28/2022	**Company: Eversource CT**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - Switches**
Managing Organization: Transmission / Major Projects	**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: July 23, 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: $302K	**Authorization Type: Full Funding**

[1] Executive Summary

This PAF is seeking full funding approval of $302K for a completed project to replace the [redacted] began under annual work order (WO) number DSQ62036 initiated in September 2016. In addition to the MOD replacement, the existing wave trap was also replaced. The increase in costs exceeded the $100K annual work order limit imposed by APS-01.

The charges from WO DSQ62036 were journaled to distribution project CS00284 [redacted] – 2nd Transformer, SWGR, & Circuit Breaker Addition to add a 115/23 kV 62.5 MVA transformer [redacted]) with associated switchgear under work order number CS002841. The CS00284 project, approved by EPAC on March 16, 2022, is currently in the detailed design phase with a target in service date of June 2023. The associated Transmission project 404953 has a target in service date of December 2023.

The total charges to CS002841 as of September 20, 2022 is $2.487M of which $302K were for the [redacted] MOD replacement. This Project Authorization Form (PAF) provides the documentation necessary to transfer the capital charges of $302K for this work from project number CS00284 to project number CS00441. The project was placed in service July 23, 2019.

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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		$8			$8
6. Materials (Eversource purchased)		$20			$20
7. Construction (incl matl's by contractors)		$105			$105
8. Testing / Commissioning		$46			$46
9. Project Mgmt Team					
10. Removals					
11. Other					
12. Risks					
SUBTOTAL DIRECTS W/ RISKS		**$179**			**$179**
13. Indirects/Overhead		$123			$123
14. AFUDC					
PROJECT TOTAL – BASELINE BUDGET		**$302**			**$302**
15. Contingency					
TOTAL CAPITAL REQUEST		**$302**			**$302**
16. Reimbursables/Customer Contribution					
PROJECT TOTAL (LESS REIMBURSABLES)		**$302**			**$302**
O&M					
TOTAL REQUEST	**$100**	**$302**			**$302**

See Attachment A for Actuals and WBS breakout values.

[3] TECHNICAL JUSTIFICATION

Project Need, Objective and Justification

[redacted]

Project Scope

[redacted]

Substation Equipment

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

Background

[redacted]

[4] Alternatives Considered

The failed equipment required replacement to maintain system reliability. This project is completed.

[5] Project Schedule

Milestone	Completed Date
Capital Annual Automatic Approval	September 2016
Start of Construction	October 2017
Project In-Service Date (ISD)	July 2019

[6] Regulatory Approvals

N/A – The project is completed.

[7] Risk and Risk Mitigation Plans

Contingency: The project is completed and there was no contingency included.

Risk Mitigation:

Risk	Mitigation
1. N/A	
2.	

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[8] REFERENCES

References
1. 404953, CS00284 [redacted] – 2nd Transformer, SWGR, & Circuit Breaker Addition – PAF, dated 03/30/2022
2.
3.
4.
5.

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

Attachment	Included in Submittal?
A. Actuals Summary CS00441 CS002841 Cancels 20220920	YES
B. Thermo Inspection - 2016 [redacted]	YES
C. [redacted] Nomenclature Diagram 26801-91001	YES
D. P6 Schedule	N/A
E. Constructability Review	N/A

Project Checklist - Transmission & Substation Capital Project			
Project Name: [redacted] **Replacement**		**Project Number: CS00441**	
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 ($M) (if completed):	NA		
Is a PPA required?	No		
ISO-NE Approval Date (if completed):	N/A		
Is a TCA Application Required?	No		
TCA Submittal Date (if submitted):	N/A		
Cost in TCA Submittal ($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?	Yes		
Has an outage schedule been approved?	Yes		
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] **MOD Replacement**	**Project Number: CS00441**
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?	No
INVESTMENT RECOVERY	
Does the project require development of an Investment Recovery plan?	No
COST ESTIMATING	
What team/firm prepared the cost estimate?	Estimate was prepared by Eversource Engineering
Name of the person who prepared the estimate:	[redacted]
Was the estimate reviewed by Eversource Estimating?	No

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7	7. Construction (incl matl's by contractors)		$105			$105
8	8. Testing / Commissioning		$46			$46
9	9. PMT Project Mgmt Team					
10	10. Removals					
11	11. Other					
12	12. Risks					
	Project Directs Total w/Risks		**$179**			**$179**
13	13. Indirects/Overhead		$123			$123
14	14. AFUDC					
	Project Total - Baseline Budget		**$302**			**$302**
15	15. Contingency					
	#N/A					
	Project Total - Funding Approval Level		**$302**			**$302**
16	16. Reimbursables/Customer Contribution					
	#N/A					
	Project Total (less reimbursables)		**$302**			**$302**
	Total O&M					
	TOTAL REQUEST		**$302**			**$302**

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Thermography Inspection At [redacted]

[redacted] Phase G Jaw

July 27th, 2016

48.2C Temperature Rise

[redacted]

[redacted]

07/27/2016 3:10:10 PM



DC_6528.jpg

[redacted]

Text annotations

[redacted]

ES VER: 05/2015

2/7/2022 12:23 PM - AUDEVA - 26801-51001.DWG - As Built

ES VER: 05/2015

2/7/2022 12:23 PM - ALDIEMA - 26801-91001.DWG - Construction-All

ES VER: 05/2015

2/7/2022 12:23 PM - ALDEMA - 26801-31001.DWG - REV AM2 Removals

ES VER: 05/2015

2/7/2022 12:23 PM - ALDIEMA - 26801-91001.DWG - REV AM2 Additions

ES VER: 05/2015

2/7/2022 12:23 PM - ALDEVA - 26801-51001.DWG - REV ANT Removals

ES VER: 05/2015

2/7/2022 12:23 PM - ALDEVA - 26801-51001.DWG - REV AN1 Additions

ES VER: 05/2015

2/7/2022 12:23 PM — ALDIEMA — 26801-91001.DWG — REV AK Removals

ES VER: 05/2015

2/7/2022 12:23 PM - ALDIEMA - 26801-91001.DWG - REV AK Additions