EVERSOURCE

Operations Project Authorization Form

Approved on October 27, 2022 EPAC

Link to Meeting Minutes

Project Title: [redacted] **Rebuild Failed 2X LTC**	**Project Number: CS00623**
Date Prepared: 10/11/2022	**Company:** Eversource CT
Organization: Asset Management	**Class(es) of Plant:** D SS
Project Initiator: [redacted]	**Project Category:** Stations - Transformers
Managing Organization: Transmission / Major Projects	**Schedule ID#:**
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Op Plan:** Yes
Estimated in service date: May 26, 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: $638.5K	**Authorization Type:** Full Funding

[1] Executive Summary

This Project Authorization Form (PAF) is seeking full funding approval of $638.5K for the [redacted] Rebuild Failed 2X LTC project. The equipment was placed in service on May 26, 2022.

The project started as the Cascade funding project CASEAST field work order B4D16050 to [redacted]

[redacted] is typically handled by an annual with direct spending of less than $100K. However, there were additional costs for parts and outsourced labor. These additional costs caused the total Direct spending to exceed $500K which is the limit set out in APS 1 for capital annual project funding. Total direct costs for Eversource charged to B4D16050 were $186.6K.

These charges did not include the charges for outsourced work by the construction vendor for $249.5K. Charges from WO B4D16050 were journaled to an emergent Capital Annual project DSEQ22 WO 80305904 and the WO B4D16050 was cancelled on August 30, 2022. The outsourced work charges for $249.5K were added to WO 8035904 in September 2022 and

indirect charges ($202.4K) were included resulting in the total project cost of $638.5K. See Attachment A.



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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		$0			$0
6. Materials (Eversource purchased)		$23			$23
7. Construction (incl matl's by contractors)		$344			$344
8. Testing / Commissioning		$70			$70
9. Project Mgmt Team					
10. Removals					
11. Other					
12. Risks					
SUBTOTAL DIRECTS W/ RISKS	**$100**	**$436**			**$436**
13. Indirects/Overhead		$198			$198
14. AFUDC		$4			$4
PROJECT TOTAL – BASELINE BUDGET	**$100**	**$638**			**$638**
15. Contingency					
TOTAL CAPITAL REQUEST	**$100**	**$638**			**$638**
16. Reimbursables/Customer Contribution					
PROJECT TOTAL (LESS REIMBURSABLES)	**$100**	**$638**			**$638**
O&M					
TOTAL REQUEST	**$100**	**$638**			**$638**

See Attachment A for Actuals and WBS breakout values.

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[3] TECHNICAL JUSTIFICATION

Project Need, Objective and Justification

The 2022 scheduled major maintenance and inspection of the [redacted] transformer identified the need to [redacted]. See Attachment B for the [redacted] Nomenclature Diagram.

The project objective was to restore the [redacted]-2X transformer to service to maintain system reliability.

Project Scope

The project scope associated with annual DSEQ22 project was to return the [redacted]-2X transformer to service and included the following:

- [redacted]
- [redacted]
- [redacted]
- [redacted]

Background

[redacted]

[4] Alternatives Considered

There were no alternatives considered for the need to replace the LTC contacts.

[5] Project Schedule

Milestone	Completed Date
Project Start Date	March 2022
Project In-Service Date (ISD)	May 2022
Capital Project Approval Date	August 2022
Project Closed Out	TBD

[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.	

[8] REFERENCES

References
1.
2.
3.

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

Attachment	Included in Submittal?
A. Actuals 80305904 Summary 20221011.xlsx	YES
B. [redacted] Nomenclature Diagram 11401-91001	YES

Project Checklist - Transmission & Substation Capital Project	
Project Name: [redacted] **Rebuild Failed 2X LTC**	**Project Number: CS00623**

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):	
Cost in ISO-NE Presentation ($M) (if completed):	
Is a PPA required?	No
ISO-NE Approval Date (if completed):	
Is a TCA Application Required?	No
TCA Submittal Date (if submitted):	
Cost in TCA Submittal ($M) (if submitted):	
Enter ISO-NE RSP / Asset Condition ID, if assigned:	

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?		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] Rebuild Failed 2X LTC	**Project Number: CS00623**
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?	Other (specify below)
Name of the person who prepared the estimate:	Actual Costs
Was the estimate reviewed by Eversource Estimating?	No

Project Number:	Project Title:	Project Title:	Prior Authorized		
Date of Actuals	Prior Authorized		PAF (dollars in thousands)		

	Line item Category	Prior Authorized	Actuals to Date	2021 to Go	2022	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		$0			$0
6	6. Materials (Eversource purchased)		$23			$23
7	7. Construction (incl matl's by contractors)		$344			$344
8	8. Testing / Commissioning		$70			$70
9	9. PMT Project Mgmt Team		$0			$0
10	10. Removals		$0			$0
11	11. Other		$0			$0
12	12. Risks		$0			$0
	Project Directs Total w/Risks	**$0**	**$436**			**$436**
13	13. Indirects/Overhead		$198			$198
14	14. AFUDC		$4			$4
	Project Total - Baseline Budget	**$0**	**$638**			**$638**
15	15. Contingency		$0			$0
0	#N/A					
	Project Total - Funding Approval Level	**$0**	**$638**			**$638**
16	16. Reimbursables/Customer Contribution		$0			$0
	#N/A					
	Project Total (less reimbursables)	**$0**	**$638**			**$638**
	Total O&M		**$0**			**$0**
	TOTAL REQUEST	**$0**	**$638**			**$638**

$638,444.48

TRANSFERRED Aug 2022

	WO B4D16050						WO 80305904		
CostTV	202203	202204	202205	202206	202207	202208	202208	202209	Grand Total
									$ 638,444.48
DIRECTS						**$186,597**	**$186,597**	**$249,627**	**$436,224**
E11: Employee Expense Other		$21			-$21	$21	$21		$21
E13: Meals	$500	-$480	-$20	$0	$0	$2,060	$2,060		$2,060
E14: Mileage		$14			-$14	$14	$14		$14
F11: Regulatory Assessments State				$35	-$35	$35	$35		$35
F15: Permits	$70				-$70	$70	$70		$70
J17: Rent Expense-External				$0	$0	$4,469	$4,469		$4,469
L12: Labor Straight Time Non-Exempt	$35,067	-$34,559	-$506	-$1	$0	$105,047	$105,047	$84	$105,131
L22: Labor Overtime Non-Exempt	$7,784	-$7,646	-$137	-$1	$0	$32,908	$32,908		$32,908
L42: Labor Premium and Special Non-Exempt	$2,425	-$2,375	-$50	$0	$0	$6,416	$6,416		$6,416
M11: Materials- Purchased	$7,078	-$7,078	$0	$0	$0	$11,680	$11,680		$11,680
M12: Materials- Stores	$2,623	-$11,923	-$2,936	-$200	$12,436	$11,246	$11,246		$11,246
S14: Contractor Services	$3,183	$6,116	$2,933	$204	-$12,436	$12,633	$12,633	$249,543	$262,175
INDIRECTS							**$200,131**	**$2,089**	**$202,220**
A66: AFUDC Debt							$276	$688	$964
A67: AFUDC Equity							$809	$2,016	$2,825
ZAS: Admin and Eng OH- Acct Use Only							$4,214	$2,075	$6,290
ZEB: Alloc- E+S OH Subst- Acct Use Only							$134,617	-$1,822	$132,795
ZGS: Gen Ser Co Benefit Loader- Acct Use Only								$71	$71
ZMI: Misc Dist Exp Capitalized OH-Acct Use Only							$22,436	-$364	$22,072
ZNP: Non Productive Time Loader- Acct Use Only							$24,139	$15	$24,153
ZPB: Payroll Benefit Loader- Acct Use Only							$10,582		$10,582
ZSC: Service Company Allocations- Acct Use Only								$0	$0
ZST: Stores Loader- Acct Use Only							$1,960	-$592	$1,368
ZVE: Vehicle Costs Clearing- Acct Use Only							$1,097	$2	$1,099
ACCOUNTING CORRECTIONS							**$257,000**	**-$257,000**	**$0**
S22: Other Outside Services							$40,000	-$40,000	$0
U08: UVL-Contractor Labor							$217,000	-$217,000	$0