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Operations Project Authorization Form

Approved on July 1, 2025 EPAC

Link to Meeting Minutes

Project Title: [redacted] **Transformer & Switchgear Upgrades – Rev. 3**	**Project Number: CS00396**
Date Prepared: 06/16/2025	**Company:** Eversource CT
Organization: Asset Management	**Class(es) of Plant:** D SS
Project Initiator: [redacted]	**Project Category:** Stations - Transformer
Managing Organization: Project Mgt and Construction	**Schedule ID#:** 80292510
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Op Plan:** Yes
Estimated in service date: November 2027	**Emergency Related Request?** Yes
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:** Partial Funding
Total Capital Request: $13,854K	

[1] Executive Summary

[redacted]

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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	2025 to Go	2026	Total Request
1. ROW / Easements / Land Acquisition	$50	$54	$15	$22	$90
2. Environmental Approvals / Permits	$136	$75	$20	$	$95
3. Outreach	$23	$41	$10	$	$51
4. Siting Approvals / Permits	$97	$11	$5	$15	$31
5. Engineering / Design	$867	$202	$210	$144	$556
6. Materials (Eversource purchased)	$327	$	$3,352	$	$3,352
7. Construction (incl materials by contractors)	$1,776	$2,485	$350	$	$2,835
8. Testing / Commissioning	$658	$847	$	$	$847
9. Project Mgmt Team	$270	$127	$24	$16	$167
10. Removals	$	$	$	$	$
11. Other	$1,565	$46	$	$	$46
12. Risks	$75	$	$	$	$
SUBTOTAL DIRECTS W/ RISKS	**$5,843**	**$3,887**	**$3,986**	**$198**	**$8,071**
13. Indirects/Overhead	$1,934	$2,157	$1,150	$266	$3,573
14. AFUDC	$602	$669	$650	$891	$2,210
PROJECT TOTAL – BASELINE BUDGET	**$8,379**	**$6,713**	**$5,787**	**$1,355**	**$13,854**
15. Contingency	$	$	$	$	$
TOTAL CAPITAL REQUEST	**$8,379**	**$6,713**	**$5,787**	**$1,355**	**$13,854**
16. Reimbursables/Customer Contribution	$	$	$	$	$
PROJECT TOTAL (LESS REIMBURSABLES)	**$8,379**	**$6,713**	**$5,787**	**$1,355**	**$13,854**
O&M	$	$	$	$	$
TOTAL REQUEST	**$8,379**	**$6,713**	**$5,787**	**$1,355**	**$13,854**

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Detail other costs, project risk items and their allocations:

Risk	Allocation
Risks will be identified using the partial funding and included in the full funding request	$0
Total	$0

Explain unique payment provisions, if applicable:

[redacted]

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

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[3] Technical Justification

Project Need, Objective and Justification

[redacted]

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[redacted]

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Project Scope

[redacted]

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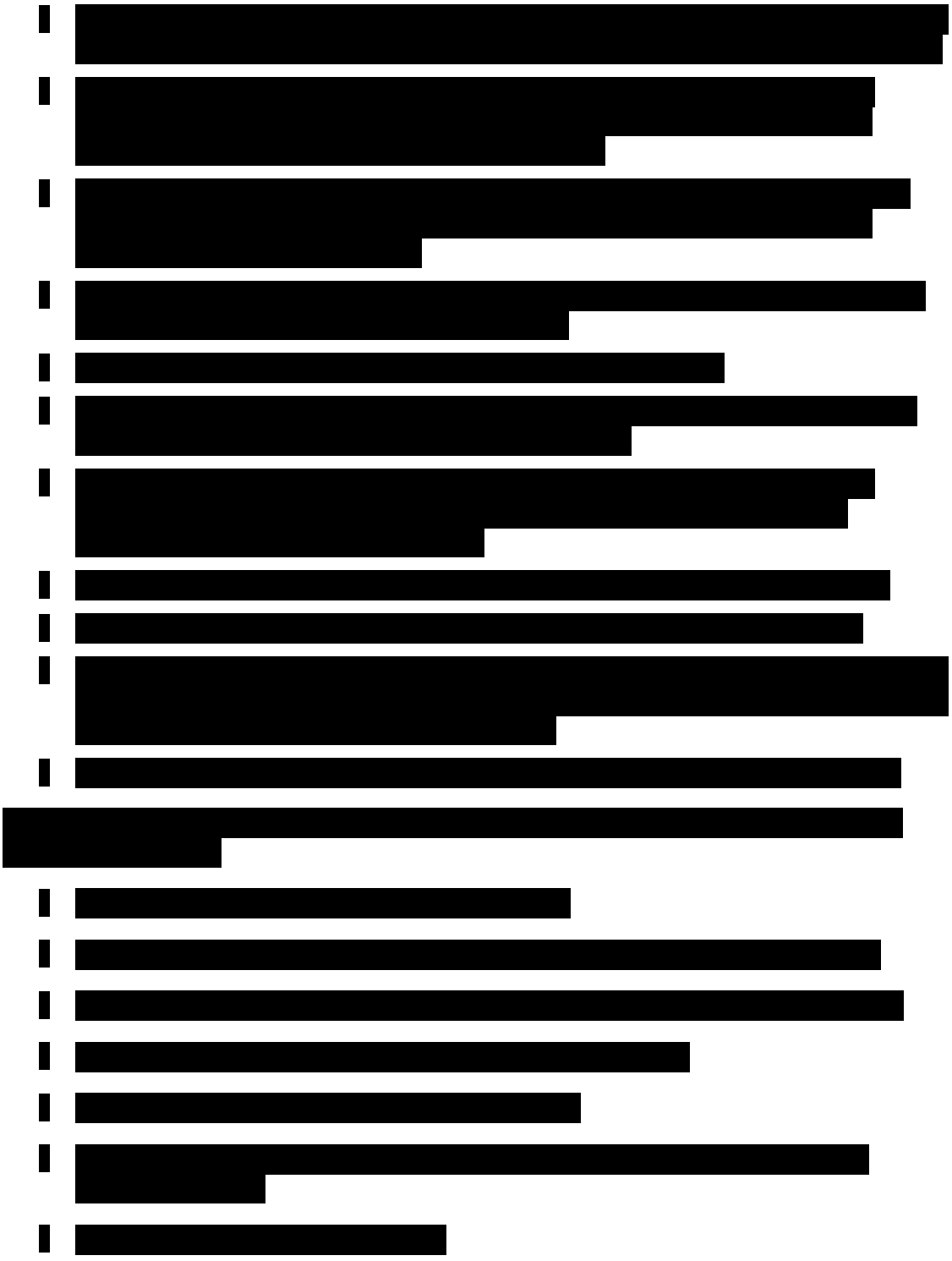

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Substation Equipment

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

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

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Background

Table 1 – Summary of projects [redacted]

[redacted]

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[redacted]

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Table 2 – Summary of [redacted] Transformers

Transformer Number for Project use.	Description	Original ES Equip Position	Long term Eversource Equip Position **	Eversource Equip Num	Manufacturer	Voltage Rating	Power Rating	Mfg_Date	Num of Windings
[redacted]									

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[redacted]

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[4] Alternatives Considered

[redacted]

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[redacted]

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[5] Project Schedule

Milestone	Scheduled Completion Date
IFR Approval	June 2022
SDC Approval (for applicable projects)	December 2023
EPAC Partial Funding Approval (for applicable projects)	May 2023 (Rev 0) May 2023 (Rev 1) March 2024 (Rev 2) July 2025 (Rev 3)
Preliminary Design Completion (or latest pre-full funding design phase)	April 2026
EPAC Full Funding Approval	August 2026
Siting Approval (for applicable projects)	October 2026 (if determined necessary)
Start of Construction	January 2027
Project In-Service Date (ISD)	November 2027
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

See Attachment B for the P6 schedule.

[6] Regulatory Approvals

Permitting and siting requirements will be evaluated using the partial funding request. Eversource is involved with ongoing negotiations with FLPR for the terms of an easement for [redacted] for work relating to CS00396.

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EJ Community Considerations:

[redacted] is not located within an Environmental Justice community.

[7] Risk and Risk Mitigation Plans

Contingency:

Contingency dollars will be included in the full funding request for this project.

Risk Mitigation:

Risk	Mitigation
Risks will be included in the full funding request.	
Total	

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[8] References

References
1. DSEQ22 WO 80308193: [redacted] - Install Mobile Xfrmr. Initiated in PowerPlan 8/29/2022.
2. CS00663 - [redacted] Install Permanent Mobile Position – FF PAF, Approved at EPAC 12/22/2022
3. DSEQ23 2023 CT D SS Emergent Annual, WO 80398367 [redacted] -Install 3X Transformer. Initiated in PowerPlan 1/23/2023.
4. 405830 [redacted] Plant Transformer Replacement, Approved at EPAC 8/11/2022.
5. CS00396 - [redacted] & Swgr Upgrades IFR, Approved at EPAC 5/22/2022
6. CS00396 - [redacted] Transfer & Swgr Upgrades Partial Funding PAF Rev 0, Approved in PowerPlan 10/11/2023
7. CS00639 - [redacted] Install 3X Transformer PAF Rev 1, approved at EPAC 5/25/2023.
8. CS00396 - [redacted] Transfer & Swgr Upgrades Partial Funding PAF Rev 1, Approved at EPAC 5/25/2023.
9. CS00396 – [redacted] Transfer & Swgr Upgrades – SSF, Conditionally Approved at SDC 12/21/2023. Fully Approved 5/6/2024.
10. CS00396 - [redacted] Transfer & Swgr Upgrades Partial Funding PAF Rev 2, Approved at EPAC 3/14/2024.

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. P6 Schedule	*YES*
C. Constructability Review	*YES*
D. System and Station One-Lines	*YES*

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Project Authorization Form

Project Checklist - Transmission & Substation Capital Project			
Project Name: [redacted] **Transformer & Switchgear Upgrades**		**Project Number: CS00396**	
Facility Type: ☐BPS ☐BES ☐PTF ☐local PTF ☐non-PTF ☐CIP ☒Distribution ☐General Plant ☐CONVEX ☐SCADA			
PLANNING			
Is a NX-9 required?		Yes	
Is an ISO-NE PAC presentation required?		No	
ISO-NE Presentation Date (if completed):		N/A	
Cost in ISO-NE Presentation ($M) (if completed):		N/A	
Is a PPA required?		Yes	
ISO-NE Approval Date (if completed):		TBD	
Is a TCA Application Required?		No	
TCA Submittal Date (if submitted):		N/A	
Cost in TCA Submittal ($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?		Yes	
Is there an impact to the existing ground grid?		Yes	
Is a Transient Over Voltage (TOV) analysis required?		No	

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Project Checklist - Transmission & Substation Capital Project		
Project Name: [redacted] Transformer & Switchgear Upgrades		**Project Number: CS00396**
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?	Yes	
Name of Siting contact:	[redacted]	
Is a Siting filing required? *(If yes, list in regulatory approvals section)*	Yes	
PERMITTING		
Is there any permitting required? *(If yes, list in regulatory approvals section)*	Yes	
PROJECT SERVICES (OUTREACH) and ROW WORK COORDINATION		
Has Project Services reviewed this project?	Yes Choose an item	
Name of Project Services contact:	[redacted]	
What is the level of outreach expected?	Low	
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?	Yes	

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Project Checklist - Transmission & Substation Capital Project	
Project Name: [redacted] Transformer & Switchgear Upgrades	**Project Number: CS00396**
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:	[redacted]
Was the estimate reviewed by Eversource Estimating?	No - Indirects Only

Project Number: D- Station

Project Title:

PAF (dollars in thousands)

Template version; rev27

Line item Category	Prior Authorized	Actuals to Date	2025 to Go	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
1. ROW / Easements / Land purchases		$54	$15	$22									$90
2. Environmental Approvals / Permits		$75	$20										$95
3. Outreach		$41	$10										$51
4. Siting Approvals / Permits		$11	$5	$15									$31
5. Engineering / Design		$202	$210	$144									$556
6. Materials (Eversource purchased)			$3,352										$3,352
7. Construction (incl matl's by contractors)		$2,485	$350										$2,835
8. Testing / Commissioning		$847											$847
9. PMT Project Mgmt Team		$127	$24	$16									$167
10. Removals													
11. Other		$46											$46
12. Risks													
Project Directs Total w/Risks		**$3,887**	**$3,986**	**$198**									**$8,071**
13. Indirects/Overhead		$2,157	$1,150	$266									$3,573
14. AFUDC		$669	$650	$891									$2,210
Project Total - Baseline Budget		**$6,713**	**$5,787**	**$1,355**									**$13,854**
15. Contingency													
#N/A													
Project Total - Funding Approval Level		**$6,713**	**$5,787**	**$1,355**									**$13,854**
16. Reimbursables/Customer Contribution													
#N/A													
Project Total (less reimbursables)		**$6,713**	**$5,787**	**$1,355**									**$13,854**
Total O&M													
TOTAL REQUEST		**$6,713**	**$5,787**	**$1,355**									**$13,854**

Breakout costs incl above

ST Labor		$1,340	$179	$135									$1,654
OT Labor													
Outside services - Labor		$1,973	$280	$63									$2,316
Materials (All materials incl. outside service purchased which is shown in constr. above)		$528	$3,527										$4,055
Removals													
Other		$46											$46
Indirects		$2,157	$1,150	$266									$3,573
AFUDC		$669	$650	$891									$2,210
TOTAL CAPITAL REQUEST - with out Reimbursables		**$6,713**	**$5,787**	**$1,355**									**$13,854**

Checks

$	-	totals from calc sheets
$	-	totals from calc sheets
$	-	totals from calc sheets
$	13,854,365	totals from calc sheets
$	13,854,365	sum of above
$	13,854,365	sum of these PAF totals

