EVERSOURCE

Operations Project Authorization Form

Approved on December 18, 2025 EPAC

Link to Meeting Minutes

Project Title: [redacted]	**Project Number: CS00729**
Date Prepared: 12/11/2025	**Company: Eversource CT**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - SCADA**
Managing Organization: Project Mgt and Construction	**Schedule ID#: N/A**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Capital Investment part of original Op Plan: No**
Estimated in service date: November 2021 (completed)	**Emergency Related Request? No**
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: Full Funding**
Total Capital Request: $496K	

[1] Executive Summary

This project is a request for full funding in the amount of $496K to cover the completed [redacted]

[redacted]

This station was identified under the CS00090 DSCADA LTC Controls Program (Attachment B). The Program PAF was approved in September 2015 at which time it was also approved for $3M of program funding (approved in PowerPlan on November 19, 2015). Followed by an increase of funding of $5.8M approved in PowerPlan June 20, 2016. As of December 2025, charges of $496K were accrued under the CS00090 program under Work Order CS009091 for this work. Charges are for completion of engineering and design, project materials, and construction costs at [redacted] and will be journaled to this project upon approval. See Attachment A for Project Actuals to Date.

The project has a completion date of November 2021 per PowerPlan.

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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	2027	Total
1. ROW / Easements / Land Acquisition	$	$	$	$	$	$
2. Environmental Approvals / Permits	$	$	$	$	$	$
3. Outreach	$	$	$	$	$	$
4. Siting Approvals / Permits	$	$	$	$	$	$
5. Engineering / Design	$	$57	$	$	$	$57
6. Materials (Eversource purchased)	$	$35	$	$	$	$35
7. Construction (incl materials by contractors)	$	$212	$	$	$	$212
8. Testing / Commissioning	$	$	$	$	$	$
9. Project Mgmt Team	$	$	$	$	$	$
10. Removals	$	$8	$	$	$	$8
11. Other	$	$	$	$	$	$
12. Risks	$	$	$	$	$	$
SUBTOTAL DIRECTS W/ RISKS	**$**	$311	**$**	**$**	**$**	$311
13. Indirects/Overhead	$	$178	$	$	$	$178
14. AFUDC	$	$6	$	$	$	$6
PROJECT TOTAL – BASELINE BUDGET	**$**	$496	**$**	**$**	**$**	$496
15. Contingency	$	$	$	$	$	$
TOTAL CAPITAL REQUEST	**$**	$496	**$**	**$**	**$**	$496
16. Reimbursables/Customer Contribution	$	$	$	$	$	$
PROJECT TOTAL (LESS REIMBURSABLES)	**$**	$496	**$**	**$**	**$**	$496
O&M	$	$	$	$	$	$
TOTAL REQUEST	**$**	$496	**$**	**$**	**$**	$496

Detail other costs, project risk items and their allocations:

Risk	Allocation
1. N/A	$0
Total	$0

Explain unique payment provisions, if applicable: N/A

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

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[3] Technical Justification

Project Need, Objective and Justification

The [redacted]

The project objective is to install a modern [redacted]

Project Scope

The scope of this project is to [redacted]

The [redacted]

This work was completed before November 2021.

Substation Equipment

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

Background

[redacted]

[4] Alternatives Considered

No other alternatives were considered because the [redacted], and it is [redacted]

[5] Project Schedule

Milestone	Scheduled Completion Date
Program PAF Approval CS00090	September 2015
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 2025
Siting Approval (for applicable projects)	N/A
Start of Construction	N/A
Project In-Service Date (ISD)	November 2021
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

EJ Community Considerations:

N/A. The project is complete.

[7] Risk and Risk Mitigation Plans

Contingency: N/A – The project is completed.

Risk Mitigation:

Risk	Mitigation
1. N/A	N/A

[8] References

References
1. [redacted]
2. [redacted] - Prgm Level PAF–, approved March 17, 2021

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

Attachment	Included in Submittal?
A. Actuals to Date	YES
B. [redacted] Presentation	YES

Project Checklist - Transmission & Substation Capital Project

Project Name: [redacted]

Project Number: CS00729

Facility Type:

☐BPS ☐BES ☐PTF ☐local PTF ☐non-PTF ☐CIP ☒Distribution ☐General Plant ☐CONVEX ☐SCADA

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]

Project Number: CS00729

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?	No
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?	No (Choose an item)
Name of Project Services contact:	N/A
What is the level of outreach expected?	None
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?	No
Has enhanced outreach required per State Regulatory requirements been completed?	No
INITIATOR	
Has a field constructability review been completed?	No

Project Checklist - Transmission & Substation Capital Project	
Project Name: [redacted]	**Project Number: CS00729**
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

ATTACHMENT A

Project Number: CS00090 Project Title:

Date of Actuals 12/1/2021 **PAF (dollars in thousands)**

	Line item Category	Prior Authorized	Actuals to Date	2024 to Go	2025	2026	2027	2028	2029	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		$57							
6	6. Materials (Eversource purchased)		$35							
7	7. Construction (incl matl's by contractors)		$212							
8	8. Testing / Commissioning		$0							
9	9. PMT Project Mgmt Team		$0							
10	10. Removals		$8							
11	11. Other		$0							
12	12. Risks		$0							
	Project Directs Total w/Risks	**$0**	**$311**							
13	13. Indirects/Overhead		$178							
14	14. AFUDC		$6							
	Project Total - Baseline Budget	**$0**	**$496**							
15	15. Contingency		$0							
0	#N/A									
	Project Total - Funding Approval Level	**$0**	**$496**							
16	16. Reimbursables/Customer Contribution		$0							
	#N/A									
	Project Total (less reimbursables)	**$0**	**$496**							
	Total O&M		**$0**							
	TOTAL REQUEST	**$0**	**$496**							

Breakout costs incl above **PAF (dollars in thousands)**

1	ST Labor	$0	$35							
2	OT Labor	$0	$0							
3	Outside services - Labor	$0	$240							
4	Materials (All materials incl. outside service purchased which is shown in constr. above)	$0	$35							
5	Removals	$0	$1							
6	Other	$0	$0							
7	Indirects	$0	$178							
8	AFUDC	$0	$6							
	TOTAL CAPITAL REQUEST - with out Reimbursables	**$0**	**$496**							

ATTACHMENT B

Eversource CT Distribution

[redacted]

Capital Project Review and Approval

[redacted]

September 18, 2015

Contents

- Executive Summary
- Project Justification
- Project Solution & Benefits
- Project Alternatives
- Project Timeline
- Financial Evaluation
- Risk Assessment
- Appendix
  - Approval History

Executive Summary

Scope:

- [redacted]

Estimated Project Costs by year ($ in millions):

	Prior	2016	2017	2018	2019	Total	In-Service Date
Capital[(1)]	$0	$2.0	$0.9	$0.9	$0.8	$4.6	December 2019
O&M	$0	$0.0	$0.0	$0.0	$0.0	$0.0	
Total	$0	$2.0	$0.9	$0.9	$0.8	$4.6	

[(1)]Direct and Indirect Capital Costs

- This project capital is currently proposed as part of the 2016 Operating Plan

Issues:

- [redacted]
- A large amount of funding is requested in 2016 due to the state of the existing system. [redacted]
- [redacted]

Regulatory Approvals: N/A

Funding Request:

- $4.6M for Eversource CT to install [redacted]

Project Justification

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- This project is for ENG approval for funding to [redacted] There are approximately [redacted] that will need [redacted] at an estimated cost of $24k each for a total cost of $4.6M.

Project Solution & Benefits

- [redacted]
- [redacted]
- Eversource MA West uses the same [redacted] as Eversource CT, so this solution could also be used there.
- [redacted]

Project Alternatives

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

Project Timeline

	2016	2017	2018	2019	Total	In-Service Date
Capital (Direct and Indirect)	$2.0M	$0.9M	$0.9M	$0.8M	$4.6M	December 2019

- The project costs will be spread throughout the 4 years. The work will be done at [redacted] across CT.

Financial Evaluation

- Costs have been estimated by Substation Engineering, taking into account estimated man-days for Engineering, Construction and Testing, estimated material costs, and loaders

Main Component	Per Transformer Cost	2016	2017	2018	2019	Total
Direct:	1 unit	83 units	37 units	37 units	33 units	190 units
Labor	$5,927	$491,941	$219,299	$219,299	$195,591	$1,126,130
Materials	$5,470	$454,010	$202,390	$202,390	$180,510	$1,039,300
Other (including contingency)	$2,810	$233,230	$103,970	$103,970	$92,730	$533,900
Indirect:						
Loaders	$8,473	$703,259	$313,501	$313,501	$279,609	$1,609,870
AFUDC	$1,320	$109,560	$48,840	$48,840	$43,560	$250,800
Total	$24,000	$1,992,000	$888,000	$888,000	$792,000	$4,560,000

- Future costs will be for routine maintenance and replacement of failed equipment
- Costs will be lower than is currently being [redacted]

Risk Assessment

Risk Event	Risk Horizon	Likelihood of Occurrence	Expected Value Cost Exposure	Risk Mitigation
Actual cost is 25% higher than estimated.	2016	20%	$1.15M x 20% = $230k	Include contingency costs in the funding request.
[redacted]	2016 – 2019	20%	$500k x 20% = $100k	[redacted]
Total Identified Risk			$330k	

- The Capital Cost Estimate includes a contingency of $350k compared to the total expected value cost exposure of $330k.

Appendix
Approval History

Approval History

Show who has approved the project to date in accordance with the Delegation of Authority Policy

Authorized Approval Level	Name	Title
$1,000,000	[redacted]	Vice President - Engineering
$250,000	[redacted]	Director – System Engineering
$100,000	[redacted]	Manager – Circuit Zone
N/A	OCRC approved 9/16/15	