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Operations Project Authorization Form

Approved on August 31, 2022 EPAC

Link to Meeting Minutes

Project Title: [redacted] – [redacted]	**Project Number: CS00328**
Date Prepared: 07/28/2022	**Company: Eversource CT**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - Circuit Breakers**
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**
Actual in service date: December 19, 2018	**Emergency Related Request? Yes**
Eng./Constr. Resources Budgeted? Yes	**Facility Type (check all that apply):** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Total Capital Request: $192K	**Authorization Type: Full Funding**

[1] Executive Summary

This project is seeking full funding approval of $192K for a completed project at the [redacted] was executed and completed in 2018 under annual work order (WO) number DSQ82041. This Project Authorization Form (PAF) provides the documentation necessary to transfer the capital charges to project number CS00328, as the direct capital charges exceeded the $100K annual work order limit imposed by APS-01. The project was placed in service on December 19, 2018.

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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	2024	Total
1. ROW / Easements / Land Acquisition	$					
2. Environmental Approvals / Permits	$					
3. Outreach	$					
4. Siting Approvals / Permits	$					
5. Engineering / Design	$	$59				$59
6. Materials (Eversource purchased)	$	$3				$3
7. Construction (incl matl's by contractors)	$	$7				$7
8. Testing / Commissioning	$	$41				$41
9. Project Mgmt Team	$					
10. Removals	$					
11. Other	$	$4				$4
12. Risks	$	$				$
SUBTOTAL DIRECTS W/ RISKS	**$99.4**	**$114**				**$114**
13. Indirects/Overhead	$	$77				$77
14. AFUDC	$					
PROJECT TOTAL – BASELINE BUDGET	**$99.4**	**$192**				**$192**
15. Contingency	$					
TOTAL CAPITAL REQUEST	**$99.4**	**$192**				**$192**
16. Reimbursables/Customer Contribution	$					
PROJECT TOTAL (LESS REIMBURSABLES)	**$99.4**	**$192**				**$192**
O&M	$					
TOTAL REQUEST	**$99.4**	**$192**				**$192**

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[3] TECHNICAL JUSTIFICATION

Project Need, Objective and Justification

Project Need Statement

[redacted]. The emergent work was performed under WO DSQ82041.

Project Objectives

[redacted]

Project Scope

[redacted]

The project was placed in service on December 19, 2018 with project closeout activities completed on March 24, 2022.

Substation Equipment

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

Background



[4] Alternatives Considered

No alternatives considered. The failed equipment had to be replaced to maintain system reliability. This project has been completed.

[5] Project Schedule

Milestone	Scheduled Completion Date
IFC Engineering Completion	Completed December 2018
Construction Start	Completed December 2018
Testing/Commissioning	Completed December 2018
Project In-Service Date (ISD) - Actual	Completed December 2018

[6] Regulatory Approvals

N/A – The project has been completed.

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[7] Risk and Risk Mitigation Plans

Contingency: The project has been completed, and there was no contingency included.

Risk Mitigation:

Risk	Mitigation
1. N/A	
2.	
3.	
4.	
5.	

[8] References

References
1. APS-01 Project Authorization Policy.
2. Work Order DSQ82041 Replace Failed [redacted] Circuit Breaker Approved October 4, 2018

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

Attachment	Included in Submittal?
Figure 1 - Nomenclature diagram 16412-91001	YES
A. Actuals DSQ82041 20220727	YES
B. P6 Schedule	N/A
C. Constructability Review	N/A

Figure 1 - [redacted] showing breaker location in circuit



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Project Authorization Form

Project Checklist - Transmission & Substation Capital Project			
Project Name: [redacted]		**Project Number: CS00328**	
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 ($M) (if completed):		N/A	
Is a PPA required?		No	
ISO-NE Approval Date (if completed):		N/A	
Is a TCA Application Required?		No	
TCA Submittal Date (if submitted):		N/A	
Cost in TCA Submittal ($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?		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]	**Project Number: CS00328**
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:	Actuals
Was the estimate reviewed by Eversource Estimating?	No

WBS2	WBS	BrkOut		WBS1	WBS2
	1.00		**ROW / Easements / Land Acquisition**	**$0.00**	
1	1.01	**1**	Eversource Personnel		$0.00
2	1.02	**3**	ROW / Easements / Land Services + Personnel		$0.00
3	1.03	**6**	ROW / Easements / Land Acquisition		$0.00
	-				
	2.00		**Environmental Approvals / Permits**	**$0.00**	$0.00
1	2.01	**1**	Eversource Personnel		$0.00
2	2.02	**3**	Environmental Services + Personnel		$0.00
3	2.03	**3**	Mitigations		$0.00
4	2.04	**3**	Fees		$0.00
	-				
	3.00		**Outreach**	**$0.00**	$0.00
1	3.01	**1**	Eversource Personnel		$0.00
2	3.02	**3**	Outreach Services + Personnel		$0.00
	-				
	4.00		**Siting Approvals / Permits**	**$0.00**	$0.00
1	4.01	**1**	Eversource Personnel		$0.00
2	4.02	**3**	Siting Services + Personnel		$0.00
3	4.03	**3**	Siting Mitigation		$0.00
4	4.04	**3**	Payments		$0.00
	-				
0	5.00		**Engineering / Design**	**$6,499.31**	$0.00
1	5.01	**1**	Eversource Personnel		$6,499.31
2	5.02	**3**	Engineering / Design		$0.00
	-				
	6.00		**Materials (by Eversource)**	**$7,811.10**	$0.00
1	6.01	**1**	Eversource Personnel		$0.00
2	6.02	**1**	Procurement / Logistics Services + Personnel		$0.00
3	6.03	**4**	Equipment / Materials		$7,811.10
	-				
	7.00		**Construction**	**$75,917.70**	$0.00
1	7.01	**1**	Eversource Personnel - General		$72,362.65
2	7.02	**1**	Eversource Personnel - Overhead Line Work		$0.00
3	7.03	**1**	Eversource Personnel Underground Line Work		$0.00
4	7.04	**1**	Eversource Personnel - Substation Electrical Work		$0.00
5	7.05	**1**	Eversource Personnel - Civil Work		$0.00
6	7.06	**3**	Contract Construction Reps		$0.00
7	7.07	**3**	Line Construction - Matting / Access Roads		$0.00
8	7.08	**3**	Line Construction - Civil / Drilling / Trenching / Foundations		$0.00
9	7.09	**3**	Line Construction - Overhead Tower Construction / Wire Stringing		$0.00
10	7.10	**3**	Line Construction - Underground Cable Installation / Splicing		$0.00
11	7.11	**3**	S/S Construction - Civil / Site Prep / Excavation / Foundation		$0.00
12	7.12	**3**	S/S Construction - Electrical		$0.00
13	7.13	**3**	Misc. Construction		$3,555.05
	-				
	8.00		**Testing / Commissioning**	**$23,956.18**	$0.00
1	8.01	**1**	Eversource Personnel		$23,956.18
2	8.02	**3**	Testing / Commissioning + Personnel		$0.00
	-				
	9.00		**Project Management Team**	**$0.00**	$0.00
1	9.01	**1**	Eversource Personnel		$0.00
2	9.02	**3**	Contract Personnel		$0.00
	-				
	-				
	10.00		**Removals**	**$192.32**	$0.00
1	10.01	**5**	Eversource Personnel		$450.00
2	10.02	**5**	Contract Personnel		$0.00
3	10.03	**5**	Material Salvage, Investment Recovery Tracking		($257.68)
	-				
	11.00		**Other**	$0.00	$0.00
1	11.01	**6**	Journal Entry Adjustments		$0.00
2	11.02	**6**	UVL		$0.00
3	11.03	**6**	Property Tax		$0.00
	-				
	12.00	**6**	Risks	$0.00	$0.00
	-				
	13.00		**Overhead**	**$77,302.40**	$0.00
1	13.01	**7**	ZAS=Admin & Eng OH		$879.78
2	13.02	**7**	ZEB, ZEL,ZES=> Alloc-E&S OH Subst,Alloc -E+S OH Lines,Engin and Super OH		$0.00
3	13.03	**7**	ZGS =Gen Svc Co Benefit Loader		$5,136.08
4	13.04	**7**	ZNP=Non Productive Time Loader		$12,823.84
5	13.05	**7**	ZPB=Payroll Benefit Loader		$42,641.93
6	13.06	**7**	ZVE=Vehicle Costs Clearing		$14,885.48
7	13.07	**7**	ZMI=Misc Dist Exp Captialized OH		$0.00
8	13.08	**7**	ZSC=Service Company Allocations		$0.00
9	13.09	**7**	ZST=Stores Loader		$935.29
	-				
	14.00	**8**	**AFUDC**	$0.00	$0.00
	-				
	15.00	**7**	**Contingency**	$0.00	$0.00
	-				
	16.00	**5**	**Reimbursables**	$0.00	$0.00
			Total	**$191,679.01**	########## #