EVERSOURCE

Operations Project Authorization Form

Approved at January 6, 2021 EPAC

Link to Meeting Minutes

Date Prepared: 12/18/2020	**Project Title: [redacted] Pole Top Reclosers**
Company: Eversource CT	**Project Number: CS00311**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - Other**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Install Reclosers to Re-Energize 4.8kV Feeders After Switchgear Failure**
Estimated in service date: Completed 6/30/18	**Capital Investment part of original Oper. Plan: Yes**
Eng./Constr. Resources Budgeted? Yes	**O&M Expenses part of original Oper. Plan: N/A**
Authorization Type: Full Funding	**Facility Type (check all that apply):**
Total Request: $353.3K	**☐ PTF ☐ non-PTF ☒ Distribution**

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

This project is seeking approval of full funding of $353.3K for a completed project at the [redacted]

The work was executed and completed in 2018 under annual work order number DSN82005. This Project Authorization Form (PAF) provides the documentation necessary to transfer the capital charges to project number CS00311, as the direct capital charges exceeded the $100K annual work order limit imposed by APS-01. The project was placed in service June 30, 2018.

The Asset Management group has an ongoing initiative to reduce the backlog of completed overspent annuals by processing a series of PAFs. Annuals are tracked on a monthly basis and flagged for PAF creation when direct costs have exceeded $90K.

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Project Costs Summary

Note: Dollar values are in thousands

Line item Category	Prior Authorized	Actuals to Date	2020 to Go	2021	2022	2023	2024	2025	Total
1. ROW / Easements / Land Acquisition	$	$	$	$	$	$	$	$	$
2. Environmental Approvals / Permits	$	$	$	$	$	$	$	$	$
3. Outreach	$	$	$	$	$	$	$	$	$
4. Siting Approvals / Permits	$	$	$	$	$	$	$	$	$
5. Engineering / Design	$11.9	$113.2	$	$	$	$	$	$	$113.2
6. Materials (Eversource purchased)	$23.7	$35.6	$	$	$	$	$	$	$35.6
7. Construction (incl matl's by contractors)	$60.1	$92.5	$	$	$	$	$	$	$92.5
8. Testing / Commissioning	$	$	$	$	$	$	$	$	$
9. Project Mgmt Team	$	$	$	$	$	$	$	$	$
10. Removals	$	$	$	$	$	$	$	$	$
11. Other	$	$4.1	$	$	$	$	$	$	$4.1
12. Risks	$	$	$	$	$	$	$	$	$
SUBTOTAL DIRECTS W/ RISKS	**$95.7**	**$245.7**	**$**	**$**	**$**	**$**	**$**	**$**	**$245.7**
13. Indirects/Overhead	$	$107.6	$	$	$	$	$	$	$107.6
14. AFUDC	$	$	$	$	$	$	$	$	$
PROJECT TOTAL – BASELINE BUDGET	**$95.7**	**$353.3**	**$**	**$**	**$**	**$**	**$**	**$**	**$353.3**
15. Contingency	$	$	$	$	$	$	$	$	$
TOTAL CAPITAL REQUEST	**$95.7**	**$353.3**	**$**	**$**	**$**	**$**	**$**	**$**	**$353.3**
16. Reimbursables/Customer Contribution	$	$	$	$	$	$	$	$	$
PROJECT TOTAL (LESS REIMBURSABLES)	**$95.7**	**$353.3**	**$**	**$**	**$**	**$**	**$**	**$**	**$353.3**
O&M	$	$	$	$	$	$	$	$	$
TOTAL REQUEST	**$95.7**	**$353.3**	**$**	**$**	**$**	**$**	**$**	**$**	**$353.3**

Note: Explain unique payment provisions, if applicable: *Provide a detailed breakdown of Other costs here.*

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Breakout Costs

Note: Dollar values are in thousands

Line item Category	Prior Authorized	Actuals to Date	2020 to Go	2021	2022	2023	2024	2025	Total
ST Labor	$72.0	$113.2	$	$	$	$	$	$	$113.2
OT Labor	$	$	$	$	$	$	$	$	$
Outside Services Labor	$	$92.5	$	$	$	$	$	$	$92.5
Materials*	$23.7	$35.6	$	$	$	$	$	$	$35.6
Removals	$	$	$	$	$	$	$	$	$
Other	$	$4.1	$	$	$	$	$	$	$4.1
Indirects	$	$107.6	$	$	$	$	$	$	$107.6
AFUDC	$	$	$	$	$	$	$	$	$
TOTAL CAPITAL REQUEST - W/O REIMBURSABLES	**$95.7**	**$353.3**	**$**	**$**	**$**	**$**	**$**	**$**	**$353.3**

*All materials including Eversource purchased and outside service purchased. Note that outside service purchased material included in construction in project cost summary above.

Future Financial Impacts:

Provide below the estimated future costs that will result from the project: N/A
Note: Dollar values are in thousands

Future Costs	Year 20__	Year 20__	Year 20__	Year 20__+	Total Future Project Costs
Capital	$ -	$ -	$ -	$ -	$ -
O&M	-	-	-	-	-
Other	-	-	-	-	-
TOTAL	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Describe the estimated future Capital, O&M, and/or Other costs noted above: N/A

What functional area(s) will these future costs be funded in? N/A

Provide below the estimated future financial benefits that will result from the project: N/A
Note: Dollar values are in thousands

Future Benefits	Year 20__	Year 20__	Year 20__	Year 20__+	Total Future Project Benefits
Capital	$ -	$ -	$ -	$ -	$ -
O&M	-	-	-	-	-
Other	-	-	-	-	-
TOTAL	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Describe the estimated future Capital, O&M, and/or Other benefits noted above: N/A

What functional area(s) will these benefits be reflected in? N/A

Asset Retirement Obligation (ARO) and/ or Environmental Cleanup Costs (Environmental Liabilities):

Is there an ARO associated with this project? No. If yes, please provide details:

Are there other environmental cleanup costs associated with this project? No

Technical Justification:

Project Need Statement

[redacted] See Attachment B for Before and After One-Line Diagrams and Attachment C for Before and After Photographs.

Project Objectives

The primary objective of the project was [redacted].

Project Scope

[redacted]

Background / Justification

The [redacted]

Business Process and / or Technical Improvements

The business process consists of the execution of a capital project to provide a solution to restore power to the three (3) distribution circuits.

Alternatives Considered with Cost Estimates

An alternative to [redacted] In addition, switchgear acquisition is a long lead time process; the recommended pole-top recloser option was the chosen solution for a time sensitive issue and was an adequate lower cost option.

Project Schedule

Milestone/Phase Name	Estimated Date
IFC Engineering Completion	Completed 2018
Construction Start	Completed 2018
Testing/Commissioning	Completed 6/30/2018
In Service Date	Completed 6/30/2018

Regulatory Approvals

The project has been completed.

Risks and Risk Mitigation Plans

[redacted]

Contingency

N/A – All the charges were accumulated under an annual (DSN82005).

References

N/A

Attachments (One-Line Diagrams, Images, etc.)

- Attachment A - Annual Cover Sheet DSN82005
- Attachment B - Before and After One-Line Diagrams
- Attachment C - Before and After Pictures

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Project Authorization Form

INSTRUCTIONS:
It is the responsibility of the initiator to contact the subject matter experts in the listed area disciplines to determine if the project considerations contained in this list are applicable to their project. They should fill out the checklist and determine a transition plan for the purpose of project execution. See the PAF Guide for additional instruction.

Project Checklist - Transmission & Substation Capital Project					
Project Name: [redacted] Pole Top Reclosers				**Project Number: CS00311**	
Facility Type: ☐ BPS ☐ BES ☐ PTF ☐ non-PTF ☐ CIP ☒ Distribution					
PLANNING					
Is a NX-9 required?				No	
Is an ISO-NE PAC presentation required?				No	
ISO-NE Presentation Date (if completed):				Enter Date	
Cost in ISO-NE Presentation ($M) (if completed):				Enter Cost ($M)	
Is a PPA required?				No	
Is a TCA Application Required?				No	
TCA Submittal Date (if submitted):				Enter Date	
Cost in TCA Submittal ($M) (if submitted):				Enter Cost ($M)	
Enter ISO-NE RSP / Asset Condition ID, if assigned:				Enter ISO-NE ID	
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]	**Pole Top Reclosers**	**Project Number: CS00311**
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
SITING & CONSTRUCTION SERVICES (OUTREACH)		
What is the level of outreach expected?		Low
INITIATOR		
Has a field constructability review been completed?		NR
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

Cost Estimate Backup Details

Please see Attachment A for the Backup Costs.

Cost Breakdown for WO# DSN82005

10/29/2020

				FERC Account #			
Cost_Type	Year	CE_Type	DESCRIPTION	107010	108030	108040	Total
Direct	2018	Contractors	Contractor Services	15,537.11	1,827.89		17,365.00
Direct	2018	Contractors	Contractor Services- Other	3,400.00	400.00		3,800.00
Direct	2018	Contractors	Engineering Design Services	1,819.89	214.11		2,034.00
Direct	2018	Contractors	Environmental Outside Services	3,449.84	405.87		3,855.71
Direct	2018	Contractors	Other Outside Services- Other	29,916.34	3,519.57		33,435.91
Direct	2018	Contractors	Other Outside Services- Tree Planned	19,749.31	2,323.44		22,072.75
		Contractors Total		73,872.49	8,690.88	-	82,563.37
Direct	2018	Labor	Labor Overtime Non-Exempt	50,271.67	5,914.34		56,186.01
Direct	2018	Labor	Labor Premium and Special Non-Exempt	3,810.87	448.35		4,259.22
Direct	2018	Labor	Labor Straight Time Exempt	12,634.02	1,486.36		14,120.38
Direct	2018	Labor	Labor Straight Time Non-Exempt	34,257.88	4,030.31		38,288.19
		Labor Total		100,974.44	11,879.36	-	112,853.80
Direct	2018	Materials	Material Salvage			(2,536.87)	(2,536.87)
Direct	2018	Materials	Materials- Purchased	4,689.21			4,689.21
Direct	2018	Materials	Materials- Stores	29,653.44			29,653.44
		Materials Total		34,342.65	-	(2,536.87)	31,805.78
Direct	2018	Misc Other	Employee Expense Other	22.83	2.69		25.52
Direct	2018	Misc Other	Meals	1,413.10	166.30		1,579.40
Direct	2018	Misc Other	Mileage	2,225.87	261.84		2,487.71
		Misc Other Total		3,661.80	430.83	-	4,092.63
	2018 Total			212,851.38	21,001.07	(2,536.87)	231,315.58
Direct	2019	Contractors	Environmental Outside Services	454.20	53.44		507.64
		Contractors Total		454.20	53.44	-	507.64
Direct	2019	Labor	Labor Overtime Non-Exempt	69.88	8.22		78.10
Direct	2019	Labor	Labor Straight Time Non-Exempt	8,441.09	993.07		9,434.16
		Labor Total		8,510.97	1,001.29	-	9,512.26
Direct	2019	Materials	Materials- Purchased	1,237.94			1,237.94
Direct	2019	Materials	Materials- Stores	2,295.29			2,295.29
		Materials Total		3,533.23	-	-	3,533.23
	2019 Total			12,498.40	1,054.73	-	13,553.13
Direct	2020	Contractors	Contractor Services- Other	764.91	89.98		854.89
		Contractors Total		764.91	89.98	-	854.89
	2020 Total			764.91	89.98	-	854.89
Direct Total				226,114.69	22,145.78	(2,536.87)	245,723.60
Indirect	2018	Indirect	Admin and Eng OH- Acct Use Only	1,431.40	144.83		1,576.23
Indirect	2018	Indirect	Gen Ser Co Benefit Loader- Acct Use Only	11,667.81	1,372.65		13,040.46
Indirect	2018	Indirect	Non Productive Time Loader- Acct Use Only	15,838.51	1,863.35		17,701.86
Indirect	2018	Indirect	Payroll Benefit Loader- Acct Use Only	40,187.33	4,727.92		44,915.25
Indirect	2018	Indirect	Stores Loader- Acct Use Only	5,736.06			5,736.06
Indirect	2018	Indirect	Vehicle Costs Clearing- Acct Use Only	14,752.99	1,735.65		16,488.64
		Indirect Total		89,614.10	9,844.40	-	99,458.50
	2018 Total			89,614.10	9,844.40	-	99,458.50
Indirect	2019	Indirect	Admin and Eng OH- Acct Use Only	110.93	10.77		121.70
Indirect	2019	Indirect	Non Productive Time Loader- Acct Use Only	1,172.82	137.98		1,310.80
Indirect	2019	Indirect	Payroll Benefit Loader- Acct Use Only	4,440.90	522.44		4,963.34
Indirect	2019	Indirect	Stores Loader- Acct Use Only	365.25			365.25
Indirect	2019	Indirect	Vehicle Costs Clearing- Acct Use Only	1,232.43	144.99		1,377.42
		Indirect Total		7,322.33	816.18	-	8,138.51
	2019 Total			7,322.33	816.18	-	8,138.51
Indirect	2020	Indirect	Admin and Eng OH- Acct Use Only	9.18	1.08		10.26
		Indirect Total		9.18	1.08	-	10.26
	2020 Total			9.18	1.08	-	10.26
Indirect Total				96,945.61	10,661.66	-	107,607.27
Grand Total				323,060.30	32,807.44	(2,536.87)	353,330.87

Attachment B-[redacted] – One-Line Diagrams
BEFORE

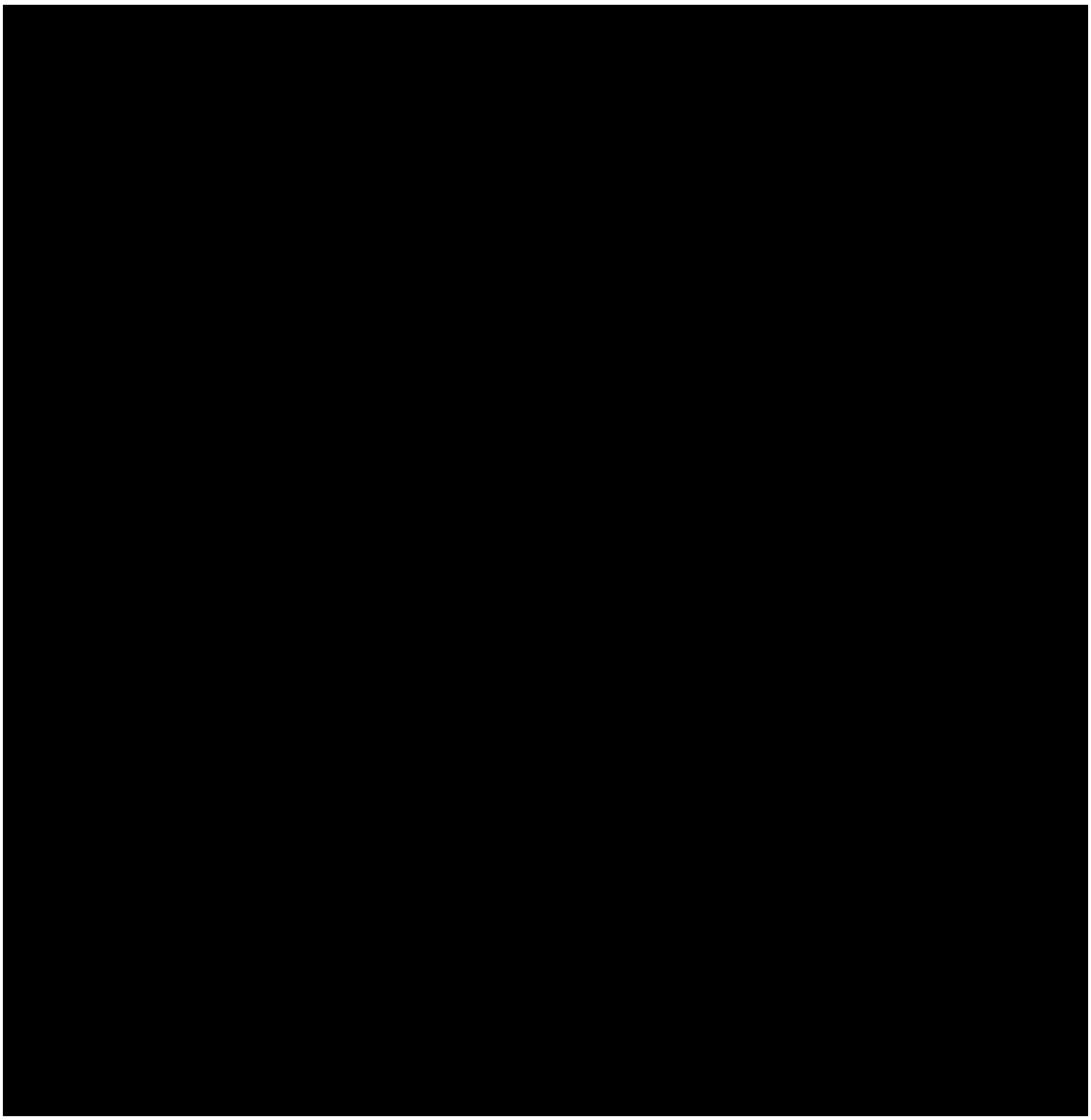


AFTER



Attachment C - Before and After Photographs

BEFORE



AFTER

