EVERSOURCE
Project Authorization Form

Operations Project Authorization Form

Date Prepared: 11/18/2021	**Project Title: [redacted] 3/5/10 or More**
Company/ies: Eversource CT	**Project ID Number: CD01858**
Organization: Distribution Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Line**
Project Manager: [redacted]	**Project Type: Reliability Improve Special Project**
Project Sponsor: [redacted]	**Project Purpose: Resolve Multiple Interruptions**
Estimated in service date: 12/31/2022	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted? Y	**Capital Investment Part of Original Operating Plan? Y**
Authorization Type: Preliminary	**O&M Expenses Part of the Original Operating Plan? Y**
Total Request: $250K	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

The segment of the [redacted]
This device is currently flagged under the or more program with 5 outages in the last 6 months. This project will call for single phase reconductoring 3,950' of #4 Cu to 1/0 ACSR tree wire.

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2022	2023	2024	Totals
Capital Additions - Direct	$0	$143	$0	$0	$143
Removals net of Salvage ____%	$0	$13	$0	$0	$13
Total - Direct Spending	$0	$156	$0	$0	$156
Capital Additions - Indirect	$0	$85	$0	$0	$85
Subtotal Request	$0	$240	$0	$0	$240
AFUDC	$0	$2	$0	$0	$2
Total Capital Request	$0	$242	$0	$0	$242
O&M	$0	$8	$0	$0	$8
Total Request	$0	$250	$0	$0	$250

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$11	$0	$0	$11
Overtime Labor	$2	$0	$0	$2
Outside Services	$106	$0	$0	$106
Materials	$36	$0	$0	$36
Other, including contingency amounts (describe)	$0	$0	$0	$0
Total Direct Costs	**$156**	**$0**	**$0**	**$156**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$85	$0	$0	$85
Capitalized interest or AFUDC, if any	$2	$0	$0	$2
Total Indirect Costs	**$87**	**$0**	**$0**	**$87**
Total Capital Costs	**$242**	**$0**	**$0**	**$242**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$242**	**$0**	**$0**	**$242**
Total O&M Project Costs	**$8**	**$0**	**$0**	**$8**
Total Project Cost	**$ 250**	**$ -**	**$ -**	**$ 250**

Note: Explain unique payment provisions, if applicable

Technical Justification:

Project Need Statement

Trip-saver [redacted]. This section has been trimmed according to SMT (Standard Maintenance Trimming) specification in 2021. In addition, ETR (Enhanced Tree Removals) segments have been identified and are scheduled for removal, they are listed below. The project calls to perform [redacted] The reconductoring will be done on a heavily wooded portion of the road.

77	13B9	DS	ETR	N	296-297	Canterbury	Oak	16 Y
78	13B9	DS	ETR	N	105-106	Canterbury	Oak	22 Y
79	13B9	DS	ETR	N	106-1107	Canterbury	Oak	18 Y
80	13B9	DS	ETR	N	106-1107	Canterbury	Oak	26 Y
81	13B9	DS	ETR	N	1109-763	Canterbury	Oak	32 Y
82	13B9	DS	ETR	N	766-765	Canterbury	Oak	48 Y
83	13B9	DS	ETR	N	769-770	Canterbury	Oak	18 Y
84	13B9	DS	ETR	N	769-770	Canterbury	Oak	38 Y
85	13B9	DS	ETR	N	769-770	Canterbury	Oak	18 Y
86	13B9	DS	ETR	N	769-770	Canterbury	Maple	24 Y
108	13B9	DS	ETR	N	773-772	Canterbury	Maple	22 Y
109	13B9	DS	ETR	N	773-772	Canterbury	Oak	24 Y
110	13B9	DS	ETR	N	773-772	Canterbury	Oak	22 Y
111	13B9	DS	ETR	N	773-772	Canterbury	Oak	26 Y
						Canterbury	Oak	30 Y

Project Objectives

Improve reliability for the [redacted] on [redacted].

Project Scope

This project calls to [redacted]

Major Material

- 3,950' 1/0 tree wire
- 3,950' 1/0 neutral
- 10 Eversource poles
- 2 Frontier poles
- 6 customer transformers
- 5 cutouts

Background / Justification

Four Year Outage History – [redacted]

10/27/2021 12:38:20 PM	TREE-Tree/Limb Outside Trim Zone/Unknown	WIND	Y	tree at pole 1601. tree crew cleared and line crew re-set fuse saver	9:49
8/22/2021 9:21:09 AM	TREE-Tree/Limb Outside Trim Zone/Unknown	WIND	Y		12:12
7/9/2021 9:17:31 AM	TREE-Tree/Limb Outside Trim Zone/Unknown	RAIN	N	CLEARED LIMB/RESET FUSE SAVER	2:30
7/7/2021 6:13:07 PM	TREE-Tree/Limb Outside Trim Zone/Unknown	THUN	N	Cleared tree and reset trip saver.	7:47
3/27/2021 8:57:28 PM	TREE-Tree/Limb Outside Trim Zone/Unknown	WIND	N	[BURDIJA]:No problems found. Closed 65k.	1:6
12/12/2020 5:35:23 PM	TREE-Tree/Limb Outside Trim Zone/Unknown	RAIN	N	[CHARRMM]:Cleared tree from wires and repaired wires	2:5
10/13/2020 8:29:25 PM	TREE-Tree/Limb Outside Trim Zone/Unknown	NORM	N	[WESKECX]:Tree fell across road at pole 1989. Road blocked. At pole 1989 lifeted tap to isolate. Opened primary riser cutout. Bad riser will need splice. Wire down from pole 1989 to pole 2199. Need tree crew. Ay pole 2199 bad OH xfmr 25kva. High side bushing ripped out. Refused and closed 30k at pole 774 to pick some of the outage. Main line mushroomed dead?	2:10
9/3/2020 6:22:46 PM	MISC-Miscellaneous	NORM	N	[BURDIJA]:Patrolled and closed 65k	0:58
8/4/2020 3:49:07 PM	TREE-Tree/Limb Outside Trim Zone/Unknown	WIND	Y	strom restoration	124:25
2/7/2020 3:17:24 PM	TREE-Tree/Limb Outside Trim Zone/Unknown	WIND	Y	REPLACED [redacted]	15:4
10/31/2019 10:09:20 PM	TREE-Tree/Limb Outside Trim Zone/Unknown	NORM	Y	Removed tree and closed cutout..	20:11
10/17/2019 3:39:21 AM	TREE-Tree/Limb Outside Trim Zone/Unknown	WIND	Y	P. 1101 was rebuilt to get energized. should be relooked at.	24:28
12/21/2018 8:28:15 AM	TREE-Tree/Limb Outside Trim Zone/Unknown	WIND	Y	[PASCAKJ]:Removed them in refuse to 65k at Pole 410	1:0
3/13/2018 9:48:55 AM	TREE-Tree/Limb Outside Trim Zone/Unknown	NORM	Y		1:53
3/10/2018 1:03:11 AM	TREE-Tree/Limb Outside Trim Zone/Unknown	SNOW	Y	TREE CREW REMOVED TREE FROM PRIMARY. RESAGGED AND REFUSED CUTOUT POLE 410. BURDICK	4:17

Business Process and / or Technical Improvements

Improve customer satisfaction and help Eversource achieve its goal for CAIDI and SAIDI.

Options Considered with Cost Estimates

Design Criteria	1 - Reconductor
Cost	$250K
Cost / CM Saved	$46/CM
Cost / CI Saved	$5,265/CI

Project Schedule

Milestone/Phase Name	Estimated Completion Date
CTPAC Approval	11/18/21
Work Order	1/1/22
Full Funding	6/1/22
Construction Complete	12/31/22

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022	Medium	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Customer Permission / Siting Council / Municipal approvals	2022	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2022	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2022	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2022	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

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


CD01858 Need Statement.pdf


CD01858 Geographic Map.vsdx


CD01858 Geographic Map.pdf


CD01858 One Line.vsdx


CD01858 One Line.pdf


CD01858 Outage History_2017-2021.xl