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Operations Project Authorization Form

Project Title: [redacted] TDRP	**Project Number:CD01615**
Date Prepared: 04/22/2022	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** TRMSN DISTR RELIABILTY PERFRM
Project Manager: [redacted]	**Project Type:** Program
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** No
Estimated in service date: 12/31/2023	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: 1.037k	**Authorization Type:** Full Funding

Executive Summary

This project is for the [redacted] Transmission and Distribution Reliability Program (TDRP). [redacted] that have experienced fourteen events in the last 4 year, thirteen of the events were tree related.

At the [redacted]

[redacted] have experienced 4 tree related outages. These areas are being handled by vegetation management as of May 2022.

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Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	Year 1	Year 2	Year 3+	Total
Internal Labor and Construction Equipment	$21	$0	$0	$21
Outside Services	$527	$0	$0	$527
Materials	$57	$0	$0	$57
Removals	$23	$0	$0	$23
Risk and Contingency	($3)	$0	$0	($3)
Other	$0	$0	$0	$0
Subtotal	**$626**	**$0**	**$0**	**$626**
Indirect Capital Costs	**Year 1**	**Year 2**	**Year 3+**	**Total**
Indirects/Overheads (including benefits)	$411	$0	$0	$411
Capitalized interest or AFUDC, if any	$0	$0	$0	$0
Subtotal	**$411**	**$0**	**$0**	**$411**
Total Capital Costs (Gross)	**$1,037**	**$0**	**$0**	**$1,037**

Technical Justification:

Project Need, Objective and Justification:

Project Need Statement

The preferred option begins at the [redacted]

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[redacted]

Project Scope:

[redacted]

Major Material:

-8,900 feet of 3-phase 556 TW
-1 600A disconnect switcheswitch

Background:

[redacted]

[redacted]

[redacted]

[redacted]

Device Reliability Table

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Alternatives Considered:

Were alternative solutions considered/applicable? Include any cost/benefit analysis.

Alternatives were considered (please describe below)

Alternative 1:

[redacted] This alternative adds approximately $253,501.

Alternative 2:

[redacted] This alternative would add approximately $468,135.

Alternative 3:

[redacted] This alternative would add approximately $1,433,754.

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Regulatory Approvals:

Are Regulatory body approvals needed for the project?
No

If yes, provide detailed regulatory approvals

Project Schedule

Milestone/Phase Name	Estimated Date
Preliminary Approval	10/23/20
Materials Ordered	06/30/23
Start of Construction	12/31/23

Risks and Risk Mitigation Plans

List top risks and mitigation plans applicable with **THIS** project. Include any contingency related to each risk. (Permitting/siting; environmental; outage constraints; customer/community outreach; material delivery; constructability challenges; excavation; etc.) Rank each risk low medium and high.

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	202X	High/Medium/Low	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	202X	High/Medium/Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	202X	High/Medium/Low	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.	202X	High/Medium/Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.

Materials Shortage or long lead times	202X	High/Medium/Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	202X	High/Medium/Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	202X	High/Medium/Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.
Technological risks involving integration of new technology	202X	High/Medium/Low	Before use of new technology ensure support of standards and manufacturer. Schedule project to accommodate for extra time or ensure new technology is not on the critical path.
Wetlands / Environmentally sensitive area	202X	High/Medium/Low	Use of mats and specialty equipment, only work during certain times of the year.

References

[redacted] TDRP 6 25 2020.xls.xlsx

ONELINE.pdf

Load sheet.xlsx

CD01615_project_needs_statement.pdf

[redacted] pole height and owner.xlsx

[redacted]_RTS Customer Outage Rep

Device Reliability.xlsx

[redacted] Detailed map Fault locations.vsdx