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Operations Project Authorization Form

Project Title: [redacted] **LT Reconductoring**	**Project Number: CD01930**
Date Prepared: 04/03/2023	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** Reliability
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 2/28/2023	**Emergency Related Request?** Yes
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ✓ Distribution
Total Gross Capital Request: $676K	**Authorization Type:** Full Funding

Executive Summary

This project was established to address the recurring outages on Parker Rd. in Willington, CT. [redacted] have experienced 12 outages in the last four years with all of them being tree related. There have been 4 outages in 2021 and 4 outages in 2020.

The last trim cycle on the [redacted] occurred in 2022. [redacted]

[redacted]

This project received Initial Funding approval at the February 24, 2022, CTPAC meeting for $234K.
The primary reason for cost increase is both phases determined in need of replacement during construction. [redacted]
The Full Funding request is for $676K or an increase of 188%. This is based on actual costs.
This work was completed by contractors which was not accounted for in the Initial Funding Estimate (IFE).
IFE for Outside Services = $83K, Full Funding Cost = $329K, a 296% increase.
IFE for Removals = $13.4, Full Funding Cost = $75K, a 459% increase.
Accordingly, Indirect charges are higher than the IFE, $91.4 vs $258.1, a 182% increase.
Project completed February 2023.

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Project Costs Summary

Financial Evaluation ($000's)

Capital Costs	2022	2023	Year 3+	Total
Internal Labor and Construction Equipment	0.5	1.3	0.0	1.8
Outside Services	90.0	238.8	0.0	328.8
Materials	10.3	2.2	0.0	12.5
Removals	28.8	46.0	0.0	74.8
Risk and Contingency	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0
Subtotal	**129.7**	**288.2**	**0.0**	**417.9**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	86.7	166.9	0.0	253.6
Capitalized interest or AFUDC, if any	3.8	0.7	0.0	4.5
Subtotal	**90.4**	**167.7**	**0.0**	**258.1**

Total Capital Costs (Gross)	**220.1**	**455.9**	**0.0**	**676.0**
Less Total Customer Contribution	0.0	0.0	0.0	0.0
Project Costs (Net of Reimbursement)	**220.1**	**455.9**	**0.0**	**676.0**

Technical Justification:

Project Need, Objective and Justification

This project was established to address the recurring outages on Parker Rd. in Willington, CT. With 89 customers on Parker Rd., there have been 12 outages in the last four years with eight of them being in last two years.

[redacted]

With these changes and tree trimming, it will help increase reliability and avoid future outages in this area.

Project Scope

The scope of this project is as follows:

- [redacted]
- Replace poles as required.
- Remove hazard trees

Major Material:

7,400 ft.	Single Phase 336 Tree Wire
2,000 ft.	Triplex Secondary
19	CL&P owned poles 45-2

Background

Outage History



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Alternatives Considered:

Alternatives were considered (please describe below)

[redacted].
The new cost with the additional reconductoring would be $481K. The cost per customer minute saved for this option is $13.64. This option was not selected due to the high cost per customer minute saved.

Regulatory Approvals:

No

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	June 2022
Construction Start	January 2023
Testing/Commissioning	N/A
In Service Date	December 2023

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Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023	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	2023	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2023	High	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.	2023	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2023	Medium	If storm activity delays work, we may be forced to use external resources.

References

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

[redacted]Map.vsdx

Patrol Photos.docx

CD01930_project_needs_statement.pdf