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Operations Project Authorization Form

Project Title: [redacted] **PILC Replacement**	**Project Number: CD01555**
Date Prepared: 06/21/2023	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** SPECIFIC PROJECTS-NEW SRVCE
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 07/31/2023	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $3,623K	**Authorization Type:** Full Funding

Executive Summary

This project is being presented for full funding approval of $3,623K which is 86% or $569K less than the initial funding approval of $4,192K. There were some scope changes in this project. For example, blocked ducts were encountered when pulling cable and had to be repaired. The first section of cable from each substation was found to be the old Jute cable and the opportunity was taken at this time to replace said cable – this was not written on the work orders. Approximately 10,000' less PILC cable was replaced than initially estimated – investigations in the field showed that this cable was already replaced.

This project was initially presented as follows:

[redacted]

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[redacted]

Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	Prior Actuals	Estimated Future Spend	Total
Internal Labor and Construction Equipment	140.9	105.3	246.2
Outside Services	283.0	211.7	494.7
Materials	501.6	375.2	876.8
Removals	207.2	211.3	418.4
Risk and Contingency	0.0	253.0	253.0
Other	5.7	4.2	9.9
Subtotal	**1,138.4**	**1,156.5**	**2,299.1**

Indirect Capital Costs	Prior Actuals	2023	Total
Indirects/Overheads (including benefits)	588.0	739.7	1,327.7
Capitalized interest or AFUDC, if any	42.1	-42.1	0.0
Subtotal	**630.1**	**697.6**	**1,327.7**
Total Capital Costs (Gross)	**1,768.5**	**1,854.1**	**3,626.8**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**1,768.5**	**1,854.1**	**3626.8**

Technical Justification:

Project Need, Objective and Justification:

[redacted]

[redacted].

This project will replace approximately 25,000’ of PILC cable on the [redacted]

Project Scope:

This project is broken down into 6 segments:

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

Segments 2, 5, 6 and 8 are to be completed in 2021, while segments 3 and 9 are to be completed in 2022.

Major Material:

26,600’ 4ct 500Cu 30KV EPR cable.

Background:

[redacted]

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

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[redacted]

Alternatives Considered:

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

Alternatives were considered (please describe below)

[redacted]

[redacted]

Regulatory Approvals:

Are Regulatory body approvals needed for the project?

No

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	March 2021
Construction Start	June 2021
Testing/Commissioning	May 2023
In Service Date	July 2023

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2021	Low	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Internal construction resources not available to perform the work.	2021	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2021	High	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.

Storm delays	2021	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2021	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

References



Copy of [redacted] Outages rev.2.xlsx



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



[redacted] Map 6.pdf



CD01555_project_needs_statement.pdf



[redacted]%20Contingency%20plan%2011.1