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Operations Project Authorization Form

Project Title: Reconductor Ringed Portions of [redacted]	**Project Number: CD01730**
Date Prepared: 03/23/2023	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** RELIABILITY IMPROVE SPEC PROJ
Project Manager: [redacted]	**Project Type:** Specific
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: $776,174	**Authorization Type:** Full Funding

Executive Summary

This project received initial funding in May 2021 for $392,470. Work orders have been written, contractor bids have been received and final funding is now being requested for $776,174. This represents an increase of $383,704 or 198% on the initial funding.

The general scope of the work remains the same on this project, however the direct costs increased by approximately $234K due in large part to the following:

- Daily reclosing while running the new wire and shifting the second circuit on the poles contributed to an increase in internal labor costs
- Outside services increased due to core boring of 13 poles and anchors, using contractors, 2 H1 poles were needed and delivered by special freight and an extra stub pole was used for effective guying purposes.
- A new GOAB switch was installed at the end of the new cable run due to the deteriorating condition of the existing switch.
- The contractor bid for this work was $325K

The indirect costs on this project amounted to $298K a difference of $165K from the original estimate.

Despite the higher than estimated costs, the [redacted]

The project was previously presented for initial funding as follows:

[redacted]

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[redacted]

[redacted]

Typically, spacer cable is used where there are tree problems or clearance problems. In this run of cable, the Millport Rd in New Canaan is extremely narrow and using anything other than spacer cable will result in aerial trespasses.

Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	2023	2024	2025+	Total
Internal Labor and Construction Equipment	27.2	0.0	0.0	27.2
Outside Services	261.7	0.0	0.0	261.7
Materials	33.1	0.0	0.0	33.1
Removals	85.6	0.0	0.0	85.6
Risk and Contingency	70.6	0.0	0.0	70.6
Other	0.0	0.0	0.0	0.0
Subtotal	**478.2**	**0.0**	**0.0**	**478.2**

Indirect Capital Costs	2023	2024	2025+	Total
Indirects/Overheads (including benefits)	298.0	0.0	0.0	298.0
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	**298.0**	**0.0**	**0.0**	**298.0**
Total Capital Costs (Gross)	**776.2**	**0.0**	**0.0**	**776.2**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**776.2**	**0.0**	**0.0**	**776.2**

Technical Justification:

Project Need, Objective and Justification:

This project has been established to address the following issues :

- [redacted]

Project Scope:

To meet the above objectives, this project proposes the following:

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

Major Material:

- **2,100' of 556 Spacer Cable.**

Background:

[redacted]

Alternatives Considered:

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

Alternatives were considered (please describe below)

Option 2: [redacted]

Project Option Comparison

Design Criteria	[redacted]	
Cost	$392,470.	$325,808.
Cost / MVA added	N/A	N/A
Cost / CM Saved	N/A	N/A
Cost / CI Saved	N/A	N/A

Preferred option	X	

Regulatory Approvals:

Are Regulatory body approvals needed for the project?
No

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering Approval	June 2021
Detail Design	December 2022
Construction	August 2023

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	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2023	Low	Schedule work to minimize system abnormal time. Most of this work will not require system to be abnormal for any extended period of time.

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References

None

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


072012 NU Report Ringed Cable.docx


IMG_1858.JPG


IMG_1859.JPG


IMG_1862.JPG


CD01730 Map.pdf


CD01730_project_needs_statement.pdf


Load Summary Lakeview 27.6.xlsx


COST COMPARISON ENG [redacted] eplace 2100' S


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