Appendix 2
Operations Project Authorization Form

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Project Title: 2022 BB Inspections & Fault Ind Rplcmnt	**Project Number: CD01901**
Date Prepared: 02/28/2023	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** URD/DB Cable Improvements
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 12/31/2022	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF x Distribution
Total Gross Capital Request: $2,731K	**Authorization Type: Full Funding**

Executive Summary

The purpose of this project is to fund the 2022 Direct Buried (DB) inspection program and replace approximately 4,982 fault indicators throughout Connecticut.

Initial Funding was approved for $1,310K.

This Full Funding request is for a total of $2,731, which is 208% of the Initial Funding request.

The increase can be attributed to the following:

- 6,857 fault indicators installed, 4,982 were estimated, which is 1,875 more. The increase in the number of fault indicators was due to additional switching locations within developments that were not identified.
- Due to more fault indicators being installed, more labor resources were required, and thus the loaders were also higher.

Project Costs Summary

See APS3 and APS8 requirements and consult with Plant Accounting for capital/O&M determination. Use published loaders for benefits, materials, and invoices, maintained by the Director, Budget and Internal Reporting.
Note: Dollar values are in thousands

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Capital Costs	Year 2022	Year 2023	Year 2024	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	336.3	0.0	0.0	336.3
Outside Services	202.5	0.0	0.0	202.5
Materials	1,039.8	0.0	0.0	1,039.8
Removals	169.3	0.0	0.0	169.3
Risk and Contingency	0.0	0.0	0.0	0.0
Other	-132.6	0.0	0.0	-132.6
Subtotal – Direct Costs	**1,615.4**	**0.0**	**0.0**	**1,615.4**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	1,115.5	0.0	0.0	1,115.5
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**1,115.5**	**0.0**	**0.0**	**1,115.5**
Total Gross Capital Costs	**2,730.9**	**0.0**	**0.0**	**2,730.9**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**2,730.9**	**0.0**	**0.0**	**2,730.9**

Technical Justification:

Annual Inspections of DB infrastructure and replacement of fault indicators.

Project Objectives

Identify any issues in the DB system and replace old fault indicators at approximately 4,982 locations throughout Connecticut.

Project Scope

Inspect DB infrastructure and replace fault indicators at approximately 4,982 locations.

Background

This project is to replace an estimated 4,982 fault indicators during the direct buried maintenance program. Fault indicators are required to expedite fault locating and restore power more quickly.

Alternatives Considered:

The only alternative is to not replace the fault indicators on the underground system which is not recommended because a failure of a padmount transformer or a cable will cause a larger outage and old fault indicators beyond their shelf life will not help in fault locating and delay restoration.

Choose an item.

Regulatory Approvals:

Are Regulatory body approvals needed for the project?
No

If yes, provide detailed regulatory approvals

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	2/28/2022
Construction Start	3/1/2022
Testing/Commissioning	N/A
In Service Date	12/31/2022

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022	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	2022	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach

Internal construction resources not available to perform the work.	2022	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.	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. Install temporary bypasses/equipment if system will be abnormal for extended periods

References

CD01901_project_needs_statement.pdf