EVERSOURCE

Project Approval Form

Project Title: Lighthouse Hill Rd Windsor DB Cable Replace	Project Number: CD02079
Date Prepared: 10/16/2023	**Company:** Eversource CT
Organization: Electric System Operations	**Project Category:** DB CABLE REPLACE-SPECIFIC PROJ
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
Project Manager: [redacted]	**Emergency Related Request?** Yes
Project Sponsor: [redacted]	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: 12/31/2023	
Total Capital Request: $553.2K	**Authorization Type:** Full Funding

1. Executive Summary

This program funds replacing direct buried (DB) distribution cables in underground residential (URD) and commercial developments reaching the end of their useful lives. It has been determined on an industry-wide basis that much of the original XLP and HMP-insulated primary cable installed in the DB system has not achieved its engineered life expectancy. Premature cable failures have degraded the reliability of Eversource customers served by these cables.

This project captured and documented the charges to address emergent failures of the direct buried/underground (DB/UG) system. The aim was to replace DB/UG cable that had experienced faults and was deemed unreliable. Workorders were created for each location to capture labor and material for replacing the cable.

Project complete June 2023

- Project Location:
  - Division: Central
  - District: Hartford AWC
  - Town: Windsor

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2022	2023	Year 3+	Total
Internal Labor and Construction Equipment	2.6	0.6	0.0	3.2
Outside Services	202.8	47.2	0.0	249.9
Materials	21.4	5.0	0.0	26.4
Removals	27.8	6.5	0.0	34.3
Risk and Contingency	0.0	10.8	0.0	10.8
Other	0.1	0.0	0.0	0.1
Subtotal	**254.7**	**70.1**	**0.0**	**324.8**

Indirect Capital Costs	2022	2023	Year 3+	Total
Indirects/Overheads (including benefits)	183.8	42.8	0.0	226.6
Capitalized interest or AFUDC, if any	1.4	0.3	0.0	1.7
Subtotal	**185.2**	**43.1**	**0.0**	**228.3**
Total Capital Costs (Gross)	**440.0**	**113.2**	**0.0**	**553.2**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**440.0**	**113.2**	**0.0**	**553.2**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Emergent failures in direct buried cable developments required cable replacement to address the reliability issues.
To replace DB cable that has a history of failure to improve reliability and customer experience.

b. Project Need

Project CD02079 – [redacted]

c. Project Scope

- [redacted]
- [redacted]

4. Alternatives Considered

No alternatives were considered as this was an emergent project.

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	September 2023
Fully Funded	October 2023
Construction Start	August 2022
In Service Date	June 2023

6. Regulatory Decisions

7. Codes and Standards

8. References

References
1.

9. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Project Map	*YES*

