EVERSOURCE

Project Approval Form

Project Title: Charcoal Hill Cmn Westport DB Cable	Project Number: 80140261P
Date Prepared: 10/22/2021	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** DB CABLE REPLACE-SPECIFIC PROJ
Project Initiator:	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** No
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: 12/31/2021	
Total Capital Request: $227,108	**Authorization Type:** Full Funding

1. Executive Summary

This program funds the rejuvenation or replacement of direct buried (DB) distribution cables in underground residential (URD) and commercial developments that are 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 for the Eversource customers served by these cables.

This project was to capture and document 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 of the locations to capture labor and material for the replacement of the cable.

The project calls to replace 1 section of 1PH DB cable. This project calls to replace [redacted]. Since this work exceeds $100K this project was created.

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2. Project Cost Summary

Note: Dollar values are in thousands.

	Prior Authorized	2021	20__	20__+	Totals
Capital Additions - Direct	$0	$107	$0	$0	$107
Removals net of Salvage ____%	$0	$10	$0	$0	$10
Total - Direct Spending	$0	$117	$0	$0	$117
Capital Additions - Indirect	$0	$108	$0	$0	$108
Subtotal Request	$0	$225	$0	$0	$225
AFUDC	$0	$2	$0	$0	$2
Total Capital Request	$0	$227	$0	$0	$227
O&M	$0	$0	$0	$0	$0
Total Request	$0	$227	$0	$0	$227

Financial Evaluation

Provide the following financial information (attach additional detail if summarized items are significant or additional information is needed).

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$1.8	$0	$0	$1.8
Overtime Labor	$4.6	$0	$0	$4.6
Outside Services	$104.6	$0	$0	$104.6
Materials	$0	$0	$0	$0
Other, including contingency amounts (describe)	$.8	$0	$0	$.8
Total Direct Costs	**$111.9**	**$0**	**$0**	**$111.9**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$113	$0	$0	$113
Capitalized interest or AFUDC, if any	$2.2	$0	$0	$2.2
Total Indirect Costs	**$115.3**	**$0**	**$0**	**$115.3**
Total Capital Costs	**$227.1**	**$0**	**$0**	**$227.1**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**

Total Capital Project Costs	**$227.1**	**$0**	**$0**	**$227.1**
Total O&M Project Costs	$0	**$0**	**$0**	$0
Total Project Cost	**$227.1**	**$ -**	**$ -**	**$227.1**

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. This project calls to replace [redacted]

b. Project Scope

The scope of this project is as follows:

Eliminate direct buried XLP/HMP DB cable prone to failure and replace it with EPR in conduit. Emergent work completed because of a cable failure. All costs captured are actual charges accumulated during repair.

- **Trenched and installed 320' of conduit**
- **Installed 320' of #1– 1PH primary**

Major Material

- **Installed 320' of #1 – 1PH primary**

4. Alternatives Considered

N/A

5. Project Schedule

DB Cable replacement completed as emergency replacement

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Contingencies:

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	**2021**	Medium	Create a PAF if the Work Order cost exceeds $100k
Internal construction resources not available to perform the work.	2021	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
System abnormal configuration	2021	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

9. References

References
1. N/A
2.
3.
4.
5.

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

Attachment		Included in Submittal?
A. Geographic Map		*Yes*
B. System and Station One-Lines		*NO*
C. Load Sheet		*NO*
D. Cost Estimate		*NO*

A. Geographic Maps

