Appendix 2
Operations Project Authorization Form

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Project Title: [redacted] **Canton**	**Project Number: 2L030956P**
Date Prepared: 06/30/2022	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator:	**Project Category:** Lines - UG Cable
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** No
Estimated in service date: 12/10/2020	**Emergency Related Request?** Yes
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF x☐ Distribution
Total Gross Capital Request: $547K	**Authorization Type:** Full Funding

Executive Summary

Briefly describe (in a few sentences) the overall description of the project (do not include technical details)

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.

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

Capital Costs	Year 1	Year 2	Year 3+	Total
Internal Labor and Construction Equipment	$880	$0	$0	$880
Outside Services	$296,406	$0	$0	$296,406
Materials	$22,999	$0	$0	$22,999
Removals		$0	$0	$0
Risk and Contingency	$0	$0	$0	$0
Other	$0	$0	$0	$0
Subtotal	**$320,285**	**$0**	**$0**	**$320,285**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$219,137	$0	$0	$219,137
Capitalized interest or AFUDC, if any		$0	$0	$0
Subtotal	**$219,137**	**$0**	**$0**	**$219,137**
Total Capital Costs (Gross)	**$539,422**	**$0**	**$0**	**$539,422**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total O&M Project Costs	**$7,952**	**$0**	**$0**	**$539,422**
Project Costs (Net)	**$547,374**	**$0**	**$0**	**$547,374**

Technical Justification:

Project Need, Objective and Justification

Emergent failures in direct buried cable developments required cable replacement to address the reliability issues. [redacted] adding to the cost of the project. Since this work exceeds $500K this project was created.

To replace DB cable that has a history of failure to improve reliability and customer experience.

Project Scope

- **Trenched and installed 4865' of conduit**
- **Installed 4865' of #1 – 1PH primary**
- **Replaced 10 concrete pads**
- **Replaced 6 switches**
- **Replaced 10 transformer pads**

Background

The area had a history of cable failures, but the last DB Cable failure was between switch 833 & pad 763.

Alternatives Considered:

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

Alternatives were considered (please describe below)
Due to the number of failures it was determined was not worth repairing and would continue to fail in the future.

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	
Construction Start	
Testing/Commissioning	
In Service Date	

Risks and Risk Mitigation Plans

List top risks and mitigation plans associated with this project. Include any contingency related to each risk. (Permitting/siting; environmental; outage constraints; customer/community outreach; material delivery; constructability challenges; excavation; etc.)

References

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

Reference appendices items in the appropriate section of the PAF and list items in the same order as referenced in the PAF

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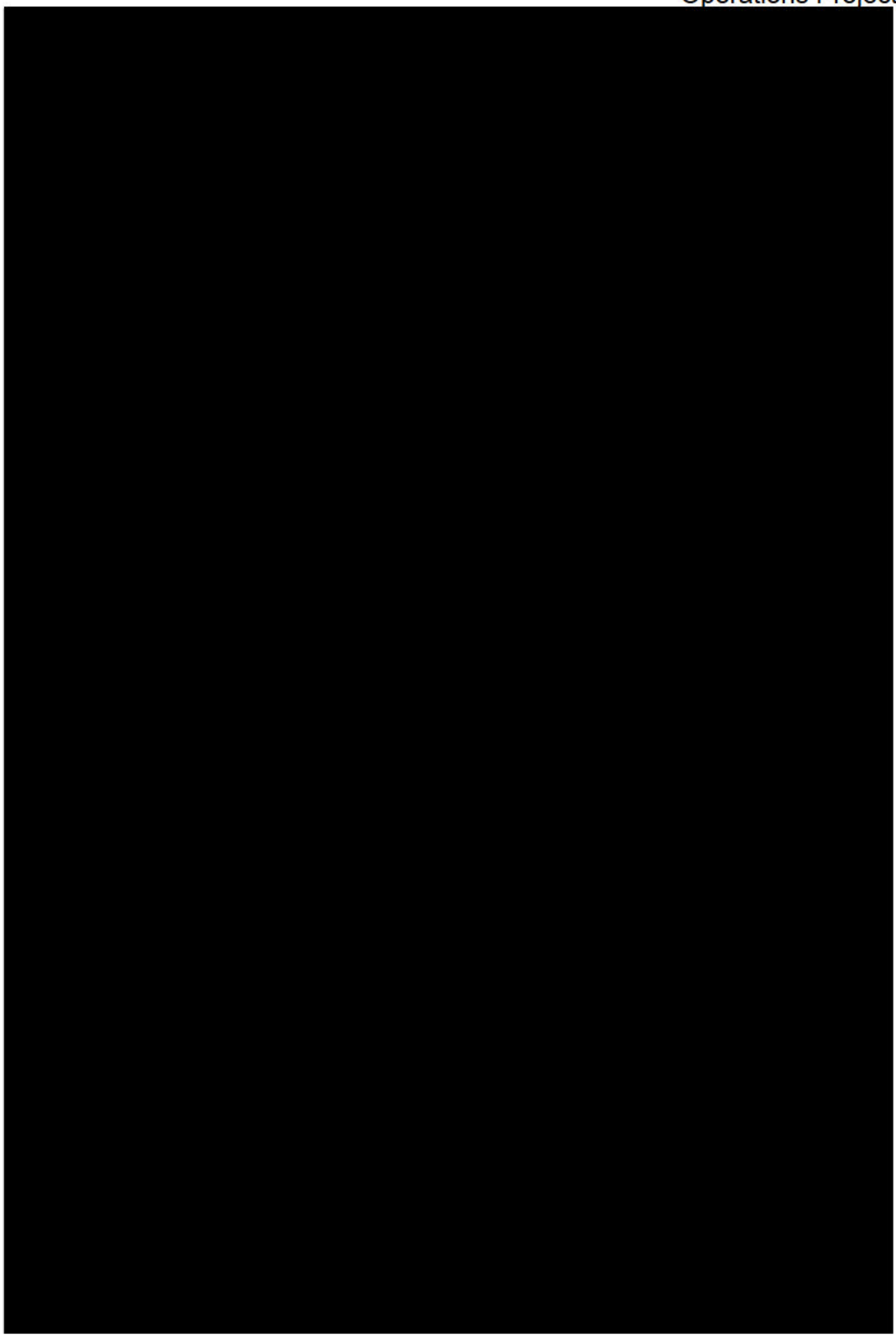

If the project has future financial benefits, please use the following table to provide the yearly amounts.

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Financial Benefits	Year 20__	Year 20__	Year 20__	Year 20__
Capital				
O&M				
Other				
Total Financial Benefits				

Describe the estimated future Capital, O&M and/or Other benefits noted above:

What functional area(s) will these benefits be reflected in?_____

A representative from the respective functional area is required to be included as a project approver.