EVERSOURCE
Project Authorization Form

FOperations Project Authorization Form

Date Prepared: November 23, 2020	**Project Title:** [redacted] - DB Cable Replacement
Company/ies: Eversource CT	**Project ID Number:** CD01643
Organization: Distribution Electric	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** Line
Project Manager: [redacted]	**Project Type:** DB Cable Replacement
Project Sponsor: [redacted]	**Project Purpose:** Improve Reliability
Estimated in service date: December 31, 2020	**If Transmission Project: PTF?** N/A
Eng. /Constr. Resources Budgeted?	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Full Funding	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $322.6k	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

On July 27th, 2020 RSO responded to a partial power and low voltage call inside [redacted]

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2020	20__	20__+	Totals
Capital Additions - Direct	$0	$194,537	$0	$0	$194,537
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$8,144	$0	$0	$8,144
Total - Direct Spending	$0	$202,681	$0	$0	$202,681
Capital Additions - Indirect	$0	$110,115	$0	$0	$110,115
Subtotal Request	$0	$312,796	$0	$0	$312,796
AFUDC	$0	$5,020	$0	$0	$5,020
Total Capital Request	$0	$317,816	$0	$0	$317,816
O&M	$0	$4,743	$0	$0	$4,743
Total Request	$0	$322,559	$0	$0	$322,559

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$4,642	$0	$0	$4,642
Overtime Labor	$3,147	$0	$0	$3,147
Outside Services	$177,918	$0	$0	$177,918
Materials	$17,143	$0	$0	$17,143
Other, including contingency amounts (describe)	($170)	$0	$0	($170)
Total Direct Costs	**$202,681**	**$0**	**$0**	**$202,681**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$110,115	$0	$0	$110,115
Capitalized interest or AFUDC, if any	$4,945	$0	$0	$4,945
Total Indirect Costs	**$115,060**	**$0**	**$0**	**$115,060**
Total Capital Costs	**$317,741**	**$0**	**$0**	**$317,741**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$317,741**	**$0**	**$0**	**$317,741**
Total O&M Project Costs	**$4,818**	**$0**	**$0**	**$4,818**
Total Project Cost	**$ 322,559**	**$ -**	**$ -**	**$ 322,559**

Technical Justification:

Project Need Statement

The pair of type [redacted]

[redacted]

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

Project Objectives

Improve system reliability & prevent environmental hazards by replacing old leaking transformers and bad direct buried cable.

Project Scope

To achieve the project objectives, the preferred method of work is as follows:

[redacted]

Major Material

2500 ft.	#1 Aluminum cable
1	Transformer 1000 kVA

Background / Justification

OMS Trouble Report



101352941 - 13 [redacted]



RSO Turnover - Date - Event - Addre

Business Process and / or Technical Improvements:

Improvements due to this project include:

- Replace 1000kVA leaking transformer .
- Reconductoring DB cable with #1 Aluminum cable for system reliability and restoring automatic loop scheme back to normal.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Approval	March 2020
Construction Approval	April 2020
Start Construction	May 2020
End of Construction	July 2020

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2020	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	2020	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2020	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.	2020	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2020	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2020	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

References

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

Need Statement	Maps	OMS Trouble Report
CD01643_project_needs_statement.pdf	CD01643 [redacted]e Sket	101352941 - 13 [redacted] C