Operations Project Authorization Form

Date Revised: 12.16.2021	**Project Title:** [redacted]
Company/ies: Eversource	**Project ID Number:** CD01860
Organization: Electric Distribution	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** System Resiliency
Project Manager: [redacted]	**Project Type:** Smart Switch
Project Sponsor: [redacted]	**Project Purpose:** Reduce customer exposure during outage
Estimated in service date: 12/31/2023	**If Transmission Project: PTF?N/A**
Eng. /Constr. Resources Budgeted?	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Preliminary funding	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $362K	

Financial Requirements:

Project Authorization
ERM: _____

FP&A: _____

Executive Summary

[redacted]

[redacted]

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2023	2024	2025	Totals
Capital Additions - Direct	$0	$203	$0	$0	$203
Removals net of Salvage ____%	$0	$8	$0	$0	$8
Total - Direct Spending	$0	$211	$0	$0	$211
Capital Additions - Indirect	$0	$131	$0	$0	$131
Subtotal Request	$0	$342	$0	$0	$342
AFUDC	$0	$4	$0	$0	$4
Total Capital Request	$0	$346	$0	$0	$346
O&M	$0	$16	$0	$0	$16
Total Request	$0	$362	$0	$0	$362

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	2023	2024	2025	Total
Straight Time Labor	$27	$0	$0	$27
Overtime Labor	$6	$0	$0	$6
Outside Services	$50	$0	$0	$50
Materials	$126	$0	$0	$126
Other, including contingency amounts (describe)	$2	$0	$0	$2
Total Direct Costs	**$211**	**$0**	**$0**	**$211**

Indirect Capital Costs	2023	2024	2025	Total
Indirects/Overheads (including benefits)	$131	$0	$0	$131
Capitalized interest or AFUDC, if any	$4	$0	$0	$4
Total Indirect Costs	**$135**	**$0**	**$0**	**$135**
Total Capital Costs	**$346**	**$0**	**$0**	**$346**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$346**	**$0**	**$0**	**$346**
Total O&M Project Costs	**$16**	**$0**	**$0**	**$16**
Total Project Cost	**$ 362**	**$ -**	**$ -**	**$ 362**

Technical Justification:

Project Need Statement

[redacted]

Project Objectives

[redacted]

Project Scope

[redacted]

Background / Justification

Although there were only 2 outages caused by a cable fault on the feeder over the last 4 years, all future cable faults will result in no loss of power to these existing 1232 customers. Sectionalizing the feeder into smaller zones will minimize the customer impact of any future outage on the circuit's backbone.

Business Process and / or Technical Improvements:

This proposal will improve the CAIDI and MBI metric by reducing the number of customers at risk in a zone. Tree trimming will also be done during construction to mitigate future tree related issues. Installing these DSCADA devices allow for faster restoration, outage isolation and reconfiguration of the system during planned and unplanned switching events.

Alternatives Considered with Cost Estimates

[redacted]

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering	March 2022
Detail Design	June 2022
Construction	December 31, 2023

Regulatory Approvals
N/A

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Expected Value Cost Exposure ($K)	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023	5%	$362 x 5% = $18.1	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Internal construction resources not available to perform the work.	2023	5%	$362 x 5% = $18.1	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2023	5%	$362 x 5% = $18.1	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.

References

[redacted]%20Load%20Sheet%2012.21.2021.:

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

[redacted]Smart Switch Detail Map 12.22.20:

[redacted]Oneline 12-17-21.pdf

Cost Estimate Backup Details

CD01860_project_needs_statement.pdf