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Operations Project Authorization Form

Project Title: [redacted]	**Project Number: CD01382**
Date Prepared: 10/28/2022	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** SMART SWITCHES PROGRAM
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 07-12-22	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: 278K	**Authorization Type:** Full Funding

Executive Summary

This project has been established to address the large customer zones on the [redacted]
There have been [redacted]

This document is for full funding approval, this project has been completed in the field and actual costs came to $278K vs. $125K or 222% over.
There is no scope change to the project and the job was done with internal labor.
Extra costs were due to unforeseen circumstances with railroad permits, railroad flagging requirements, and town traffic control requirements. The scope of work required a pole set and tap changes at the junction of [redacted]. While this pole within safe distances from the railroad the existing crossing was not in the Railroad's records and caused delays in permit approvals. Additionally, traffic pattern approvals from the city of Danbury required work to be done at night.
Additionally, switching time was not adequate for the unique difficulties at [redacted] Compounding traffic delays, switching compounded the labor costs. This project was estimated to take 300hrs, about 900hrs was charged to this job.

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Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	2022	2023	2024	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	36.0			36.0
Outside Services	16.7			16.7
Materials	82.1			82.1
Removals	5.9			5.9
Risk and Contingency	0			0
Other	2.6			2.6
Subtotal – Direct Costs	143.3			143.3
Indirect Capital Costs				
Indirect/Overheads (including benefits)	105.3			105.3
Capitalized interest or AFUDC, if any	10.1			10.1
Subtotal – Indirect Costs	115.4			115.4
Total Gross Capital Costs	**258.7**			**258.7**
Customer Contribution	0			0
Total Net Capital Project Costs	**258.7**			**258.7**

Technical Justification:

Project Need Statement

This project has been established to address the following issue on the [redacted].

- [redacted]
- [redacted].

Project Objectives

The main objectives of this project are as follows.

- Ability to minimize number of customers impacted during outages within the [redacted] zone.

Project Scope

In order to meet the above objectives, this project proposes the following:

1. Installing a new Smart Switch within the [redacted] zone
   a. Install a new [redacted]
   b. Create [redacted]

Major Materials:

- 2 - Cooper Nova Reclosers
- 2 - 600A disconnects
- 2 - 45'-2 Poles
- 1 – 50'- 1Pole

Background / Justification

The [redacted]

Business Process and / or Technical Improvements:

1. The installation of new sectional recloser will ensure that large customer zone is broken up into two smaller zones. Hence increasing reliability in case of an outage

Alternatives Considered with Cost Estimates

No alternatives now

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering Approval	October 2019
Detail Design	July 2020
Construction	July 2022

Regulatory Approvals

None

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Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022	Medium	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	2022	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2022	High	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.	2022	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2022	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022	Low	Schedule work to minimize system abnormal time. Most of this work will to require system to be abnormal for any extended period of time.

References

None

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

CD01382_project_needs_statement.pdf

[redacted] Existing Map.pdf

[redacted] After Load.pdf

[redacted] Existing Load.pdf

[redacted].pdf