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Operations Project Authorization Form

Project Title: [redacted] **Elimination**	**Project Number: CD01261**
Date Prepared: 10/25/2021	**Company:** Eversource CT
Organization: EFO	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category: S/S Elimination – Line Work**
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 12/31/2024	**Emergency Related Request?** Yes
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☑ Distribution
Total Gross Capital Request: $11,778	**Authorization Type:** Initial Funding

Executive Summary

[redacted]

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Project Costs Summary

Capital Costs	2022	2023	2024+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	$0	$392	$548	$941
Outside Services	$0	$1,443	$2,015	$3,458
Materials	$0	$573	$800	$1,373
Removals	$0	$333	$464	$797
Risk and Contingency	$0	$34	$48	$82
Other	$0	$0	$0	$0
Subtotal	**$0**	**$2,775**	**$3,876**	**$6,650**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	$0	$2,047	$2,860	$4,907
Capitalized interest or AFUDC, if any	$0	$92	$129	$221
Subtotal	**$0**	**$2,139**	**$2,988**	**$5,128**
Total Customer Contribution	$0	$0	$0	$0
Total Capital Project Costs	**$0**	**$4,914**	**$6,864**	**$11,778**

Technical Justification:

Project Need Statement

[redacted]

[redacted]

[redacted]

Project Objectives

- [redacted]

Project Scope

The scope of this project is as follows:

- [redacted]

Major Material:

1/0 ACSR 175 MIL – 38,655’
556 AAC Spacer Cable – 17,685’
Cooper Nova Recloser for 13.2/13.8kV – 20
Cooper Nova Recloser for 4.8kV – 3
Cooper Form 6 Recloser Control – 23
900 Amp GOAB – 4
600kVAR Capacitor Bank for 13.8kV - 3

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Background / Justification

[redacted]

Alternatives Considered:

Alternatives were considered (please describe below)

[redacted]

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[redacted]

[redacted]

Project Option Comparison

[redacted]

Cost	$11,541K	$11,821K	$11,752K	$10,592K
Cost / CM Saved	$52.19/CM	$53.46/CM	$31.46/CM	$230.69/CM
Cost / CI Saved	$9,739K/CI	$9,976K/CI	$10,713K/CI	$30,524K/CI
Preferred option		**X**		

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Regulatory Approvals:

No

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Approval	April 2022
Detailed Design	September 2022
Settings Requested	September 2022
Construction Start Date	January 2023
Construction End Date	December 2024

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023-2024	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	2023	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2023-2024	Medium	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.	2023	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2023	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2023-2024	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2023-2024	Medium	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

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References

DSEM 02.301 – Automatic Sectionalizing Device Guidelines



DSEM02-301.pdf

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

1. Project Maps



CD01261 Project Maps 2021-10-25.pdf



CD01261 Project Maps Alternatives 202

2. Project One-Lines



CD01261_Project_One-Lines 2021-10-25.pdf



CD01261_Project_One-Lines Alternatives 202

3. Project Load Summary



CD01261 Project Load Summary 2021

4. Cost Estimate Back-up Details



CD01261_project_needs_statement_Init



[redacted] Decision Making Est

5. Substation Nomenclature Diagrams



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