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Operations Project Authorization Form

Project Title: [redacted] **Contingency Overloads**	**Project Number: CD01451**
Date Prepared: 08/23/2022	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** No
Estimated in service date: 12/31/2025	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? No	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF X Distribution
Total Gross Capital Request: $8,109K	**Authorization Type:** Initial Funding

Executive Summary

This project has been established to address the [redacted]

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[redacted]

[redacted]

Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	Year 2024	Year 2025	Year 2026+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	$18	$312	$0	$330
Outside Services	$149	$2,615	$0	$2,764
Materials	$85	$1,499	$0	$1,584
Removals	$18	$323	$0	$341
Risk and Contingency	($0.221)	($3.878)	$0	($4.01)
Other	$0	$0	$0	$0
Subtotal	**$270**	**$4,745**	**$0**	**$5,015**
Indirect Capital Costs				
Indirects/Overheads (including benefits)	$155	$2,730	$0	$2,885
Capitalized interest or AFUDC, if any	$11	$197	$0	$208
Subtotal – Indirect Costs	**$166**	**$2,927**	**$0**	**$3,093**
Total Gross Capital Costs	**$436**	**$7,673**	**$0**	**$8,109**
Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Net Capital Project Costs	**$436**	**$7,673**	**$0**	**$8,109**

Technical Justification:

[redacted]

Project Objectives

The main objectives of this project are as follows.

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

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[redacted]

Project Scope
To meet the above objectives, the scope of the project proposes the following:

[redacted]

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[redacted]

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Background

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

[redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

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- [redacted]

Alternatives Considered:

Alternatives were considered (please describe below)

[redacted]

[redacted]

- [redacted]

[redacted]

[redacted]

- [redacted]

[redacted]

Option 4 – Upgrade OH and UG Conductors and Install new loop schemes

[redacted]

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[redacted]

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[redacted]

[redacted]

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

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Option Chart

Design Criteria	Option				
	Option 1	Option 2	Option 3	Option 4	Option 5
[redacted]					
Cost/MVA Added	$268,417/MVA	$347,916/MVA	$281,067/MVA	$241,007/MVA	$256,250/MVA
Substaion Cost	$4.6M	$4.6M	$4.6M	-	-
Distribution Cost	$8.3M	$12.1M	$8.9M	-	-
Total Cost	$12.9 Million	$16.7 Million	$13.5 Million	$6.7 Million	$8.2 Million
Preferred option	X				

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Regulatory Approvals:

Are Regulatory body approvals needed for the project?
No

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	May 2023
Construction Start – Part 1	January 2024
In Service Date – Part 1	June 2024
Construction Start – Part 2	January 2025
In Service Date	December 2025

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2025	Medium	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.	2025	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
System abnormal configuration	2025	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

CD01451_Project_Needs_Statement 8-2[redacted]

CD01451 - [redacted]Load

CD01810 Vault#9 Prospect St UCT Inst

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

[redacted]Over

[redacted]

[redacted]