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Operations Project Authorization Form

Project Title: [redacted] – Contingency Overload Project	**Project Number: CD01828**
Date Prepared: 06/16/2022	**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: 12/31/2023	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? No	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $5,624,437.00	**Authorization Type:** Initial Funding

Executive Summary:

This project was created to address recurring [redacted]

[redacted].

On 3/17/2022, the CPAC committee approved the overall design and capital expenditure for [redacted]

[redacted]

[redacted]

[redacted]

[redacted] The total cost of this project is $5,741,624.00 at a cost per minute saved of $51.57 and has an in-service date of 12/31/2023.

Project Costs Summary:

Capital Costs	2023	2025	2025+	Total
Internal Labor and Construction Equipment	$228,919	$0	$0	$228,919
Outside Services	$1,916,829	$0	$0	$1,916,829

Materials	$1,099,102	$0	$0	$1,099,102
Removals	$236,766	$0	$0	$236,766
Risk and Contingency	($2,843)	$0	$0	($2,843)
Other	$0	$0	$0	$0
Subtotal	**$3,478,774**	**$0**	**$0**	**$3,478,774**

Indirect Capital Costs	**2023**	**2024**	**2025+**	**Total**
Indirects/Overheads (including benefits)	$2,000,978	$0	$0	$2,000,978
Capitalized interest or AFUDC, if any	$144,686	$0	$0	$144,686
Subtotal	**$2,145,663**	**$0**	**$0**	**$2,145,663**
Total Capital Costs (Gross)	**$5,624,437**	**$0**	**$0**	**$5,624,437**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Project Costs (Net)	**$5,624,437**	**$0**	**$0**	**$5,624,437**

Technical Justification:

Project Need:

[redacted]

[redacted] The cost of the first proposal is $ 4,061,472.

[redacted]

[redacted] The cost of the second proposal is $ 1,680,152.

Objective:

[redacted]

[redacted].

Justification/Background:

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[redacted]

[redacted]

[redacted]

Project Scope:

[redacted]

[redacted]

[redacted]

.

Major Material:

15 – 55/1 CCA Poles

64 – 50/1 CCA Poles

8 – 45/2 CCA Poles

1 - 25 kV Recloser

12,700' – 556 AAC Tree Wire

11,250' - 750 MCM 25 kV AL Aerial Cable

5 – 900Amp. 25kV GOAB Disconnect Switch

22 – Single Phase Xfmrs.

14 – Three Phase Xfmr. Banks

Alternatives Considered:

Alternatives were considered (please describe below)

[redacted] at an approximate cost of $ 42.0M.

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Project Option Comparison

[redacted]

Eliminate triple circuit pole line	N/A	X	N/A
Cost	$5.74 M	$21.0 M	$42.0 M
Cost / MVA added	$0.948MVA	$3.00/MVA	$6.00/MVA
Cost / CM Saved	$51.57/CM	$195.98/CM	$191.60/CM
Cost / CI Saved	$19575.53/CI	$29,763.59/CI	$30,031.81/CI
Preferred option	X		

Regulatory Approvals:

Are Regulatory body approvals needed for the project?

Yes

This project will require a state highway permit for pole replacements and Department of Transportation permits to adjust traffic flow along Albany Turnpike, Lawton Road and Lovely Street.

Project Schedule:

Milestone/Phase Name	Estimated Completion Date
Preliminary Approval	5/2022
Detailed Design Segments	12/2022
Settings Requested	2/2023
Construction Start Date Segments	3/2023
Construction End Date Segments	12/2023

Risks and Risk Mitigation Plans:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation

Actual cost higher than estimated due to scope changes.	2023	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	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.	2023	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2023	High	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2023	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2023	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

References:



01885 - [redacted] - Norma



01885 - [redacted] - Norma

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



Project CD01828 - Canton 5R2 - Contir



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Central 2021 TD 941 - TR's to disable.xlsx