Operations Project Authorization Form

Date Prepared: April 29, 2021	**Project Title:** [redacted] Contingent Overloads
Company/ies: Eversource - CT	**Project ID Number:** CD01369
Organization: Distribution Engineering	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** Line
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Project Purpose:** Overloads
Estimated in service date: 12/31/2022	**If Transmission Project:** NA
Eng. / Constr. Resources Budgeted? No	**Capital Investment Part of Original Operating Plan?** No
Authorization Type: Initial Funding – Detail Design	**O&M Expenses Part of the Original Operating Plan?** No
Total Request: $ 135,761	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

[redacted]

[redacted]

Project Cost Summary

	Prior Authorized	2022	2023	2024+	Totals
Capital Additions - Direct	$0	$80,427	$0	$0	$80,427
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$5,370	$0	$0	$5,370
Total - Direct Spending	$0	$85,797	$0	$0	$85,797
Capital Additions - Indirect	$0	$42,418	$0	$0	$42,418
Subtotal Request	$0	$128,215	$0	$0	$128,215
AFUDC	$0	$3,329	$0	$0	$3,329
Total Capital Request	$0	$131,544	$0	$0	$131,544
O&M	$0	$4,217	$0	$0	$4,217
Total Request	$0	$135,761	$0	$0	$135,761

Financial Evaluation

Direct Capital Costs	**2022**	**2023**	**2024+**	**Total**
Straight Time Labor	$4,398	$0	$0	$4,398
Overtime Labor	$912	$0	$0	$912
Outside Services	$51,726	$0	$0	$51,726
Materials	$28,411	$0	$0	$28,411
Other, including contingency amounts (describe)	$350	$0	$0	$350
Total Direct Costs	**$85,797**	**$0**	**$0**	**$85,797**
Indirect Capital Costs	**2022**	**2023**	**2024+**	**Total**
Indirects/Overheads (including benefits)	$42,418	$0	$0	$42,418
Capitalized interest or AFUDC, if any	$3,223	$0	$0	$3,223
Total Indirect Costs	**$45,641**	**$0**	**$0**	**$45,641**
Total Capital Costs	**$131,438**	**$0**	**$0**	**$131,438**

Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$131,438**	**$0**	**$0**	**$131,438**
Total O&M Project Costs	**$4,323**	**$0**	**$0**	**$4,323**
Total Project Cost	**$ 135,761**	**$ -**	**$ -**	**$ 135,761**

Technical Justification & Objectives

Justification(s)

[redacted]

Primary Cable Overload

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

Project Scope

Resolve [redacted] Situation: $56,964

[redacted]

Resolve [redacted] Situation: $48,198

[redacted].

Replace the [redacted] with a GOAB: $30,598

[redacted]

AIMS Segment Costs Summary

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01369
[redacted] Cntgnt Ovrld & [redacted] UG

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Resolve Overload Situations on [redacted]	4,5,6	$135,761	$0	100%	$0.00	$0.00	☑

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	[redacted] UG Backbone	$396,793			$0.00	$0.00
2	[redacted] OH Backup	$119,091			$0.00	$0.00
3	[redacted] OH Backbone	$545,358			$0.00	$0.00
4	Eliminate [redacted] Ovrld from 2N08	$56,964			$0.00	$0.00
5	Replace [redacted] UG Cable Section	$48,198			$0.00	$0.00
6	Replace [redacted] Switch at P#7509, [redacted]	$30,598			$0.00	$0.00

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Business Process and / or Technical Improvements:

- [redacted]

- Allows greater load diversification and improves reliability by introducing [redacted]

Alternatives Plans Considered with Cost Estimates

Adding an additional [redacted] was considered. However, this option requires the installation of ~2700 ft of new 3-phase cable and a new tie recloser. This option raises the cost of the project to approximately $450,000.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Initial Funding Authorization	4/30/2021
Detail Design	10/25/2021
Full Funding Authorization	10/29/2021
Construction Begin	1/15/2022
Construction End	12/31/2022

Regulatory Approvals: None Required

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022	Low	Estimated project cost is based on past work orders for similar type work.
Internal construction resources not available to perform the work.	2022	High	Plan external resources to complete this project. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2022	Low	Internal resources tentatively planned to support this project, particularly within the areas of construction supervision, equipment settings, etc., etc...
Materials Shortage or long lead times	2022	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.

Storm delays	2022	Low	If storm activity delays work, we may be forced to use external resources. Not applicable, outside contractors necessary. Size of Eversource District personnel not large enough to dedicate work crews for completing project in a timely matter.
System abnormal configuration	2022	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

References: None

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


CD01369_project_needs_statement_202


CD01369_Load_Sheet.xlsx


CD01369_Oneline.pdf


CD01369_Detail_Crop.pdf


PAF Calculator -[redacted]_Overload_4_1