Operations Project Authorization Form

Date Prepared: 3/11/2021	**Project Title: [redacted] Three Phase Extension**
Company/ies: Eversource CT	**Project ID Number: CD01651**
Organization: Distribution	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Line Relocation**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Line Extension**
Estimated in service date: 12/31/21	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted? N	**Capital Investment Part of Original Operating Plan? N**
Authorization Type: Initial Funding	**O&M Expenses Part of the Original Operating Plan? N**
Total Request: $1,189,000	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

A new service request has come in from [redacted] The therapy pool will only be operated at certain times of the day and has a projected load of [redacted]. This customer will be primary metered due to the NY/CT boundaries. The [redacted]

The initial funding for this project is $1,189,000. Per our NB-12 policy, when estimated construction costs are expected to exceed 6.7 times the anticipated Annual Distribution Company Revenue, the customer must pay a refundable advance equal to the difference between construction costs and 6.7 times the Anticipated Distribution Company Revenue. The total customer contribution based on this current cost estimate is $717k. The cost estimate will be refined once the detailed design is complete.

Project Costs Summary

	Prior Authorized	2021	2022	2023+	Totals
Capital Additions - Direct	$0	$617,589	$0	$0	$617,589
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$27,559	$0	$0	$27,559
Total - Direct Spending	$0	$645,147	$0	$0	$645,147
Capital Additions - Indirect	$0	$482,494	$0	$0	$482,494
Subtotal Request	$0	$1,127,641	$0	$0	$1,127,641
AFUDC	$0	$18,549	$0	$0	$18,549
Total Capital Request	$0	$1,146,191	$0	$0	$1,146,191
O&M	$0	$42,809	$0	$0	$42,809
Total Request	$0	$1,189,000	$0	$0	$1,189,000

Financial Evaluation

Direct Capital Costs	2021	2022	2023+	Totals
Straight Time Labor	$89,799	$0	$0	$89,799
Overtime Labor	$15,299	$0	$0	$15,299
Outside Services	$284,894	$0	$0	$284,894
Materials	$252,960	$0	$0	$252,960
Other, including contingency amounts (describe)	$2,194	$0	$0	$2,194
Total Direct Costs	**$645,147**	**$0**	**$0**	**$645,147**

Indirect Capital Costs	Year 1			
Indirects/Overheads (including benefits)	$482,494	$0	$0	$482,494
Capitalized interest or AFUDC, if any	$17,871	$0	$0	$17,871
Total Indirect Costs	**$500,365**	**$0**	**$0**	**$500,365**
Total Capital Costs	**$1,145,512**	**$0**	**$0**	**$1,145,512**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$1,145,512**	**$0**	**$0**	**$481,512**
Total O&M Project Costs	**$43,488**	**$0**	**$0**	**$43,488**
Total Project Cost	**$1,189,000**	**$ -**	**$ -**	**$1,189,000**

Technical Justification:

Project Need Statement

[redacted]

Project Objectives

The objective of this project is to p[redacted]

Project Scope

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

[redacted]

Major Material for the Project

- 13.8KV 556 AL Spacer Cable
- 13.8KV 219A Regulators

Background / Justification

This is a New Service project where the customer is requesting [redacted].

Business Process and / or Technical Improvements:

New Service Project

Alternatives Considered with Cost Estimates

[redacted]

[redacted]

Design Criteria	[redacted]
Normal loads < 80% of UG rating	
Normal loads < 90% of OH rating	
Contingent loads < 100% of rating	
Resolves Flicker Issues	
Additional ties created	
Eliminates PILC	
No Automatic ties with circuits emanating from same bus	
Eliminate triple circuit pole line	

Cost	**$631K**	$711K	$918K	**$1,189k**
Cost / CM Saved	$22.96	$12.44	$33.71	$43.65
Preferred option				**X**

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Initial Funding Authorization	March 2021
Detailed Design	April 2021
Construction Begin	July 2021
Construction End	December 2021

Regulatory Approvals

None

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2021	Low	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.	2021	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost if necessary.
Internal engineering resources not available to perform the work.	2021	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost if necessary.
Materials shortage or long lead times	2021	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.

Storm delays	2021	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2021	Medium	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods
Technological risks involving integration of new technology	2021	Low	Before use of new technology ensure support of standards and manufacture. Schedule project to accommodate for extra time or ensure new technology is not on the critical path.

References

NB-12 Policy.pdf

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

NB-12 Calculation/[redacted] Estimated Load

CD01651 -[redacted]

Load Summary

CD01651 -[redacted]

Project Map

CD01651 -[redacted]Three Ph

Phase Balancing

CD01651 -[redacted]Phase B

Flicker Results


CD01651 - [redacted] Flicker


CD01651 - [redacted] s Phase F

Need Statement


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