Operations Project Authorization Form

Date Prepared: February 4, 2021	**Project Title: [redacted] Load Relief**
Company/ies: Eversource CT	**Project ID Number: CD01358**
Organization: Distribution Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Line**
Project Manager: [redacted]	**Project Type: Overloads-Specific Projects**
Project Sponsor: [redacted]	**Project Purpose: Increase Feeder Capacity**
Estimated in service date: 6/1/2021	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted? Yes	**Capital Investment Part of Original Operating Plan? Y**
Authorization Type: Full Funding	**O&M Expenses Part of the Original Operating Plan? Y**
Total Request: $213k	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

This project was been established to address the [redacted]

Project CD01358 received Initial Funding authorization of $90k at the 10/25/2019 CT-PAC meeting. The detail design has been completed and we are requesting Full Funding authorization of $213k, an increase of $123k or 137% of the Initial Funding authorization.

The increase in cost is due to underestimated amount of cable replacement needed to replace the [redacted] egress cable, as well as unanticipated pole replacements required for the riser pole installation (see attached Project Variance report for details).

Project Costs Summary

	Prior Authorized*	Additional Request	2021	2022+	Total **
Capital Additions Direct	$0	$0	$ 111,926	$ -	$111,926
Less Customer Contribution	$0	$0	$ -	$ -	$0
Removals Net of Salvage	$0	$0	$ 17,898	$ -	$17,898
Total - Direct Spending	$0	$0	$ 129,823	$ -	$129,823
Capital Additions - Indirect	$0	$0	$ 73,819	$ -	$73,819
AFUDC	$0	$0	$ 1,242	$ -	$1,242
Total Capital Request	$86,905	$117,979	$ 204,884	$ -	$204,884
O&M	$3,000	$5,581	$ 8,581	$ -	$8,581
Total Request	**$89,905**	**$123,560**	**$ 213,465**	**$ -**	**$213,465**

* Amount currently approved in PowerPlan
** Total authorization needed in PowerPlan based on ACT

Financial Evaluation

Direct Capital Costs	2021	2022	2023+	Total
Straight Time Labor	$ 3,719	$ -	$ -	$ 3,719
Overtime Labor	$ -	$ -	$ -	
Outside Services	$ 69,786	$ -	$ -	$ 69,786
Materials	$ 56,318	$ -	$ -	$ 56,318
Other, including contingency amounts	$ -	$ -	$ -	$ -
Total	$ 129,823	$ -	$ -	$ 129,823

Indirect Capital Costs	2021	2022	2023+	Total
Indirects/Overheads (including benefits)	$ 73,819	$ -	$ -	$ 73,819
Capitalized interest or AFUDC, if any	$ 1,242	$ -	$ -	$ 1,242
Total	$ 75,061	$ -	$ -	$ 75,061

Total Capital Costs	$ 204,884	$ -	$ -	$ 204,884
Less Total Customer Contribution	$ -	$ -	$ -	$ -
Total Capital Project Costs	$ 204,884	$ -	$ -	$ 204,884
Total O&M Project Costs	$ 8,581	$ -	$ -	$ 8,581
Total Project Cost	**$ 213,465**	**$ -**	**$ -**	**$ 213,465**

* to be completed if supplemental authorization is required

Technical Justification:

Project Need Statement

The [redacted]

Project Objectives

[redacted]

Project Scope

[redacted]

Background / Justification

[redacted]

[redacted]

Alternatives Considered with Cost Estimates

[redacted]

Business Process and / or Technical Improvements:

- [redacted]
- [redacted]

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Initial Funding Approval	Completed
Detail Design Engineering	Completed
Construction Complete, Segment 01	June 1, 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	Medium	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	2020	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2021	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.	2019	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2021	Low	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	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods

References

DSEM 02.301 – Automatic Sectionalizing Device Guidelines

DSEM02-301.pdf

DSEM 05.301 - Contingency Planning

DSEM05-301.pdf

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

1. **Project Maps**

   CD01358_Project Maps_Rev 2 10-3-20

2. **Project Load Summary**

   CD01358_Project Load Summary_Rev 2

3. **Cost Estimate Backup Details**

   ACT - CD01358 [redacted] Load F

4. **Project Variance Report**

   CD01358 Project Variance.xlsx