Operations Project Authorization Form

Date Prepared: June 25, 2020	**Project Title: [redacted]Contingency Load Relief (1)**
Company/ies: Eversource CT	**Project ID Number: CD01577**
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: Resolve Contingency Overload**
Estimated in service date: 12/31/2022	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted?	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Preliminary Authorization	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $334k	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

[redacted]

[redacted]

[redacted]

[redacted]

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2021	2022	2023+	Totals
Capital Additions - Direct	$0	$0	$198	$0	$198
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$0	$13	$0	$13
Total - Direct Spending	$0	$0	$211	$0	$211
Capital Additions - Indirect	$0	$0	$104	$0	$104
Subtotal Request	$0	$0	$315	$0	$315
AFUDC	$0	$0	$8	$0	$8
Total Capital Request	$0	$0	$324	$0	$324
O&M	$0	$0	$10	$0	$10
Total Request	**$0**	**$0**	**$334**	**$0**	**$334**

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	2021	2022	2023+	Total
Straight Time Labor	$0	$11	$0	$11
Overtime Labor	$0	$2	$0	$2
Outside Services	$0	$127	$0	$127
Materials	$0	$70	$0	$70
Other, including contingency amounts (describe)	$0	$1	$0	$1
Total Direct Costs	**$0**	**$211**	**$0**	**$211**

Indirect Capital Costs	2021	2022	2023+	Total
Indirects/Overheads (including benefits)	$0	$104	$0	$104
Capitalized interest or AFUDC, if any	$0	$8	$0	$8
Total Indirect Costs	**$0**	**$112**	**$0**	**$112**
Total Capital Costs	**$0**	**$323**	**$0**	**$323**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$0**	**$323**	**$0**	**$323**
Total O&M Project Costs	**$0**	**$11**	**$0**	**$11**
Total Project Costs	**$0**	**$334**	**$0**	**$334**

Technical Justification:

Project Need Statement

[redacted]

Project Objectives

- [redacted]
- [redacted]

Project Scope

The scope of this project is as follows:

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

Major Materials

1 – Cooper Nova Recloser for 13.2/13.8kV, with a Form 6 control.
1,200’ of 1000 CU EPR 15kV 3-1/C underground cable.

Background / Justification

[redacted]

Business Process and / or Technical Improvements:

- [redacted]

Alternatives Considered with Cost Estimates

Option 1 – [redacted] This is the preferred alternative.

Option 2 – [redacted] and is estimated at $1,685k. This option was not chosen since the estimated cost far exceeds the preferred option.

Project Option Comparison

[redacted]		
Cost	$334k	$1,685k
Cost / CM Saved	$39/CM	$225/CM
Cost / CI Saved	$760/CI	$13,765/CI
Preferred option	X	

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Initial Funding Authorization	July 2020
Detail Design Complete & Full Funding Authorization	June 2021
Settings Request	November 2021
Construction Complete	December 2022

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.	2022	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	2021	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2022	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.	2021	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2022	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022	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

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**

CD01577 Project Maps.pdf

2. **Project One-Lines**

CD01577 Project One-Lines.pdf

3. **Project Load Summary**

CD01577 Project Load Summary.pdf

4. **Cost Estimate Backup Details**

CD01577_project_needs_statement_Initial_

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01577

[redacted] Contingency Load Relief

Work Classification

Category: Line
Type: BLG1
Type Desc: OVERLOADS-SPECIFIC PROJECTS
Work Type:

Ownership / Management

AWC: Cheshire
Statewide: No
Owner: [redacted]
Manager: [redacted]

Project Information

Status: Draft
SPS #:
AIS Score:
Associated Projects:
Assignment ID:
Patrol Find ID:

Budget Summary - Preferred Option

Repl[redacted] Cable & Modify[redacted] Loop

2022

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	[redacted]	Prelim	0	28%	$255,106	$255,106
2		Prelim	0	28%	$79,054	$79,054
				2022 Total:	**$334,160**	**$334,160**
				Total Project:	**$334,160**	**$334,160**

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	[redacted]	1,2	$334,160	$0	100%	$39.19	$39.19	☑
O2		1,3	$1,685,065	$0	100%	$224.76	$224.76	☐

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	[redacted]	$255,106			$0.00	$0.00
2		$79,054			$9.27	$9.27
3		$1,429,959			$190.69	$190.69