Operations Project Authorization Form

Date Prepared:07/07/2022	Project Title: [redacted] Phase 2
Company/ies:Eversource/CL&P	Project ID Number: CD01383
Organization: CT Electric Field Ops	Class(es) of Plant: Distribution
Project Initiator: [redacted]	Project Category: Liine
Project Manager: [redacted]	Project Type: *Specific – Special Proj-New Service*
Project Sponsor: [redacted]	Project Purpose: Provide Electric Service to new customer
Estimated in service date:06/01/2021	If Transmission Project: NA
Eng. /Constr. Resources Budgeted?	Capital Investment Part of Original Operating Plan?
Authorization Type: Initial Funding / Full Funding	O&M Expenses Part of the Original Operating Plan?
Total Request: $1,166,198	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

Work orders have been written for this project and final approval is now being requested at a cost of $1,166,198 which is 205% of the preliminary estimate of $569,231. There is a slight scope change in the project. Whereas 1,100 feet of 500 Cu cable was estimated in the preliminary estimate, the actual length was 2,000 feet – a difference of $78,000. $133,203 was estimated to enlarge [redacted]., but the actual cost was $269,334 – a difference of $136,131. [redacted] **Apart from those changes there are no more visible differences between the scope of work that was originally presented and the final work orders. The balance of the variance between the preliminary estimate and the final estimate can therefore be attributed to differences in material and overhead costs.**

The project was originally presented as follows:

[redacted]

Project Costs Summary

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Note: Dollar values are in thousands

	Prior Authorized	2021+	Totals
Capital Additions - Direct	$ 281	$ 516	$ 798
Less Customer Contribution	-	-	-
Removals net of Salvage ____%	13	(78)	(65)
Total - Direct Spending	$ 294	$ 438	$ 732
Capital Additions - Indirect	228	182	410
Subtotal Request	$ 522	$ 620	$ 1,142
AFUDC	9	(1)	8
Total Capital Request	$ 531	$ 620	$ 1,151
O&M	20	(5)	16
Total Request	$ 551	$ 615	$ 1,166

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	2020	2021	2022	Total
Straight Time Labor	2.4	45.5	8.0	55.9
Overtime Labor	0	23.4	1	24.4
Outside Services	157.5	-3.9	0	153.7
Materials	1.5	489.8	19.5	510.8
Other, including contingency amounts (describe)	0	-12.6	0.3	-12.3
Total				

Indirect Capital Costs	2020	2021	2022	Total
Indirects/Overheads (including benefits)	122.3	259.7	27.9	409.9
Capitalized interest or AFUDC, if any	3.2	5.0	0	8.2
Total	125.5	264.7	27.9	418.1

Total Capital Costs	287.0	806.9	56.7	1,150.6
Less Total Customer Contribution	0	0	0	0
Total Capital Project Costs	287.0	806.9	56.7	1,150.6
Total O&M Project Costs	2.0	13.6	0	15.6

Technical Justification:

Project Need Statement *(Description of Issue)*

[redacted]

Project Objectives

This project will provide electric service to phase 2 of a new office building that will be constructed on [redacted].

Project Scope

Segment 1 (In service by 2020)

- Enlarge [redacted]

PDF [redacted]
Enlargement.pdf

Segment 2 (In service by 2021)

[redacted]

[redacted].pdf

The customer will provide the space for the [redacted]

Major Material

- PME 9/12 Switchgear pair ---------- 1
- 500 - 3-1/C (3ph) Cu ---------- 2000'
- Padmount XF - 3ph ---------- 4
  - 2,500kVA Y/Y- (stock code:535709)

Background / Justification

An existing customer is requesting a new service to phase 2 of their new office building on [redacted]. in [redacted] The office building will have nine floors and this amounts to 324,267 Sq. ft of finished space that will be occupied by tenants. Based on the office space and existing buildings of this type, it is estimated that the demand will be approximately [redacted]

Business Process and / or Technical Improvements:

This is a large new customer with significant load being added to Eversource's electric grid. The new [redacted]

Cost Estimate and Assumptions

Alternatives Considered with Cost Estimates

[redacted]

standard.pdf

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Order Transformer	March 2020
Enlarge Manhole	July 2020
Cable work	January 2021
Complete work	May 2021

Regulatory Approvals

N/A

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.
Internal construction resources not available to perform the work.	2021	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
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. Most of this work will require system to be abnormal for any extended period of time.

References



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











Cost Estimate Backup Details





One-Line Diagrams, Attachments, and Images