Operations Project Authorization Form

Date Prepared: 07/30/2020	**Project Title:** [redacted] New Service
Company/ies: Eversource	**Project ID Number:** CD01602
Organization: Electric Distribution	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** Line
Project Manager: [redacted]	**Project Type:** Spec Proj – New Service
Project Sponsor: [redacted]	**Project Purpose:** Provide Electric Service to new Customer
Estimated in service date: 12/31/2020	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted?	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Preliminary funding	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $160,142	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

An existing customer at [redacted] due to work that will be done on the building. Currently the customer is fed from a bank of [redacted]
The customer's address is in a location on [redacted] that is bordered by an [redacted] on the customer's site as shown in the attached diagram.

[redacted]
Before-After.pdf

[redacted] This new service design will eliminate any voltage concerns at the site. [redacted] For example, inquiry was made in the past for service to Electric Charging Stations in the garage across the street from this customer. The customer contribution for this project will be $968.81 based off Eversource's NB2 policy for the cost of [redacted] NB12 policy does not apply here because of the benefits of voltage correction that Eversource would be getting, as well as the ability to feed future customers from this primary line.

Project Costs Summary

	Prior Authorized	2020	2021	2022+	Totals
Capital Additions - Direct	$0	$83,181	$0	$0	$83,181
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$3,712	$0	$0	$3,712
Total - Direct Spending	$0	$86,893	$0	$0	$86,893
Capital Additions - Indirect	$0	$64,985	$0	$0	$64,985
Subtotal Request	$0	$151,878	$0	$0	$151,878
AFUDC	$0	$2,498	$0	$0	$2,498
Total Capital Request	$0	$154,376	$0	$0	$154,376
O&M	$0	$5,766	$0	$0	$5,766
Total Request	$0	$160,142	$0	$0	$160,142

Financial Evaluation

Direct Capital Costs	2020	2021	2022+	Total
Straight Time Labor	$12,095	$0	$0	$12,095
Overtime Labor	$2,061	$0	$0	$2,061
Outside Services	$38,371	$0	$0	$38,371
Materials	$34,070	$0	$0	$34,070
Other, including contingency amounts (describe)	$296	$0	$0	$296
Total Direct Costs	**$86,893**	**$0**	**$0**	**$86,893**

Indirect Capital Costs	2020	2021	2022+	Total
Indirects/Overheads (including benefits)	$64,985	$0	$0	$64,985
Capitalized interest or AFUDC, if any	$2,407	$0	$0	$2,407
Total Indirect Costs	**$67,392**	**$0**	**$0**	**$67,392**
Total Capital Costs	**$154,285**	**$0**	**$0**	**$154,285**
Less Total Customer Contribution	**$969**	**$0**	**$0**	**$969**
Total Capital Project Costs	**$153,316**	**$0**	**$0**	**$153,316**
Total O&M Project Costs	**$5,857**	**$0**	**$0**	**$5,857**

Total Project Cost	**$ 159,173**	**$ -**	**$ -**	**$ 159,173**

Technical Justification:

Project Need Statement

The customer at [redacted] is renovating their facility and requests and increase in service from [redacted]. This facility has known low voltage issues.

Project Objectives

This project will provide electric service upgrade to the customer at [redacted] and in the process, resolve known voltage issues at that site.

Project Scope

[redacted]

Major Material

- Padmount XF - 3ph ---------- 1
- #1 Al UG cable ----------500'

Background / Justification

A customer is requesting a service upgrade from [redacted], and it needs to be fed from a pad mounted transformer. The maximum OH service that Eversource allows is [redacted]. The customer's location is land locked between the [redacted]. Currently, Eversource doesn't have any primary facilities at the customer's site. Furthermore, the current service at the customer's site is experiencing low voltage.

Business Process and / or Technical Improvements:

Completing this service will resolve a current low voltage issue at this site. This will also position Eversource to feed additional services in this vicinity should the need arise.

Alternatives Considered with Cost Estimates

[redacted]. However, this would add approximately $370,000 to the job which wasn't considered prudent now – especially since more cost-effective ways could be developed to [redacted] Furthermore, this would add additional time to the job and the customer is looking to have service soon.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Project approval	August 2020
Complete work	September 2020

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.	2020	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.	2020	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2020	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2020	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


[redacted] trans load.jpg


voltagedropcalc.pdf

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

NB Estimate [redacted] xlt

101360333 - [redacted] pdf

Cost Estimate Backup Details

CD01602_project_needs_statement.pdf