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Operations Project Authorization Form

Project Title: [redacted] Regulators	**Project Number: CD02047**
Date Prepared: 04/24/2023	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** VOLTAGE CORRCTN-SPECIFIC PROJS
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** No
Estimated in service date: 11/1/2022	**Emergency Related Request?** Yes
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $640,628	**Authorization Type:** Full Funding

Executive Summary

[redacted]. The cost for this project is $271,512.

This project was detailed, designed, built, and put in service in October 2022. The cost came to $640K which is 236% of the initial funding cost. The total project cost is significantly more than the original proposal due to the addition of the following project conditions:

- $262,430 Internal Labor Costs
  This labor cost was greater than expected due to this being an emergent project which required additional labor resources. Materials for this project were sourced from various area work centers throughout New England which contributed to increased material transport costs. In addition, new construction standards required the use of caissons for the installation of the regulator racks which added to construction time.

- $89,098 Outside Service Costs
  Additional civil contractors were needed to help install the caissons for the regulator racks. The emergent work required under this project required the use of extra outside crews to meet the project deadline.

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$271,512
+ $262,430
+ $89,098
$623,040

Full Funding estimate after removal of the unrequired work detailed, leaves approx. a $17.5k difference. Less cost associated will also exclude indirect/overhead costs. There were no changes in scope.

Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	2022	Total
Internal Labor and Construction Equipment	$146.7	$146.7
Outside Services	$69.3	$69.3
Materials	$67.6	$67.6
Removals	$37.2	$37.2
Risk and Contingency	$0.00	$0.00
Other	$2.2	$2.2
Subtotal	$323.0	$323.0

Indirect Capital Costs	Total	Total
Indirects/Overheads (including benefits)	$314.1	$314.1
Capitalized interest or AFUDC, if any	$3.5	$3.5
Subtotal	$317.6	$317.6

Total Capital Costs (Gross)	**$640.6**	**640.6**
Less Total Customer Contribution	$0.00	$0.00
Project Costs (Net of Reimbursement)	**$640.6**	**$640.6**

Technical Justification:

Project Need, Objective and Justification:

[redacted]

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[redacted].

Project Scope:

The scope of the project is as follows:

[redacted]

Major Material:

- 3 – Equipment Platform (SC 566849)
- 6 – 250kVA Voltage Regulators (SC 590225)
- 3 – 333kVA Voltage Regulators (SC 590521)
- 9 – Power Line Sensors (SC 601560)

Background:

[redacted]

Alternatives Considered:

Were alternative solutions considered/applicable? Include any cost/benefit analysis.

Project is a compliance obligation - no alterntives considered - no financial benefit

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	6/30/22
Construction Start	8/1/22
In Service Date	11/1/22

Risks and Risk Mitigation Plans

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Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022	High/Medium/Low	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	2022	High/Medium/Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2022	High/Medium/Low	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.	2022	High/Medium/Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2022	High/Medium/Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2022	High/Medium/Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022	High/Medium/Low	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	2022	High/Medium/Low	Before use of new technology ensure support of standards and manufacturer. Schedule project to accommodate for extra time or ensure new technology is not on the critical path.
Wetlands / Environmentally sensitive area	2022	High/Medium/Low	Use of mats and specialty equipment, only work during certain times of the year.

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

Project Need Statement:

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CD02047_project_needs_statement.pdf

Geographic Oneline:



CD02047 - Geographic Oneline.p

Project Oneline:



CD02047 - Project Oneline.pdf

Load Sheet:



CD02047 - Falls Village Load Sheet.pd

Regulator Guide:



dsem13-101.pdf