Operations Project Authorization Form

Date Prepared: August 10, 2021	**Project Title:** [redacted] DTT
Company/ies: Eversource CT	**Project ID Number:** CD00303
Organization: Distribution Electric	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** Distributed Generation
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Project Purpose:** Distributed Generation Direct Transfer Trip
Estimated in service date: March 21, 2016	**If Transmission Project: PTF?** N/A
Eng. /Constr. Resources Budgeted? Yes	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Full Funding	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $378,062, 100% reimbursable	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

[redacted] proposed an aggregate [redacted] The synchronous machine at [redacted] went permanently out of service on September 22, 2014. When the project was first studied, it was determined that [redacted]. The $378,062 that was spent reflect the actual spend on a [redacted]. The original estimate for a [redacted] was $113,366. The project was failed in place and then removed from service. The costs to remove the [redacted] were added to CD00303 and were not anticipated when the [redacted] was engineered and installed. This was one of Eversource's first [redacted] and the project was likely under-estimated based on inexperience with the new technology and installation of the technology at the time.

Project Costs Summary

	Prior Authorized	2021	2022	2023+	Totals
Capital Additions - Direct	($11,301)	$244,536	$0	$0	$244,536
Less Customer Contribution	($113,366)	($378,062)	$0	$0	($378,062)
Removals net of Salvage ____%	($2,608)	$0	$0	$0	$0
Total - Direct Spending	($127,275)	($0)	$0	$0	($0)
Capital Additions - Indirect	$101,706	$110,078	$0	$0	$110,078
Subtotal Request	($25,569)	($0)	$0	$0	($0)
AFUDC	$304	$0	$0	$0	$0
Total Capital Request	($25,266)	($0)	$0	$0	($0)
O&M	$25,266	$23,448	$0	$0	$23,448
Total Request	$0	($0)	$0	$0	($0)

Technical Justification:

Project Need Statement

The DER customer, [redacted], requested to [redacted] The Eversource supplemental review found there to be no thermal, voltage, or other circuit issues because of the DER installation.

At the time of the supplemental review, there was a large synchronous machine (20 MWs) at the [redacted] that triggered the need for this project to have [redacted]T. An original estimate of $113,366 was provided to the customer for the installation of [redacted]. The total spend on [redacted] was $378,082. The DTT installation is no longer required due to the retirement of the [redacted]. The costs include removal of the PLC DTT equipment from service.

Project Objectives

The goal of this project was to [redacted] Additional scope of work included the removal of the transfer trip equipment after the equipment failed and further engineering screens found that the risk of islanding was significantly less.

Project Scope

PLC DTT

[redacted]

Major Material:

All materials associated with the PLC from the 12S2-80M device to the customer device was procured and installed. The material has been removed from the field.

Background / Justification

The DER applicant proposed a distributed energy resource at their existing facility. The [redacted]

Business Process and / or Technical Improvements:

This proposal will allow the DER applicant to interconnect to the Eversource EPS and [redacted] that was identified in the initial screening. Further screening identified [redacted]

Alternatives Considered with Cost Estimates

[redacted]

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Actual In Service Date	03/21/2016

Regulatory Approvals

N/A and not anticipated at this time.

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2021	High	Cost of work came in over budget. Current spend is $378,062 whereas the original ENG estimate was $113,366 for all projects. Additional scope of work included removal of the PLC DTT equipment after failing in service.
Customer Permission / Siting Council / Municipal approvals/ Wetlands Permitting	2021	Low	All circuit work was completed. All removal was completed.
Internal construction resources not available to perform the work.	2021	Low	Internal Eversource crews performed the line work for installation and removal.
Internal engineering resources not available to perform the work.	2021	Low	Internal Eversource resources designed the PLC DTT installation and removal.
Materials Shortage or long lead times	2021	Low	Material was not yet standard at the time and is no longer supported.
Storm delays	2021	Low	Project was scheduled and installed on time with customer expectations. Project was removed on schedule.
System abnormal configuration	2021	Low	Project is operating as stated in the system impact study. A re-study was performed that updated the operating criteria.
Technological risks involving integration of new technology	2021	Low	Equipment is no longer standard or in stock.

Wetlands / Environmentally sensitive area	2021	Low	No wetlands or environmentally sensitive areas were found during construction

References

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

[redacted]h Fuel Cell Project.ppt

[redacted] TT - lines portion only.xls

CD00303[redacted] Fuel Cell.pdf