EVERSOURCE
Project Authorization Form

SOperations Project Authorization Form

Date Prepared: 3-26-2020	**Project Title:** [redacted]
Company/ies: Eversource CT	**Project ID Number: CD01524**
Organization: Distribution Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Smart Switch Program**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Improve Reliability to** [redacted] **Zone**
Estimated in service date:12/31/2021	**If Transmission Project: PTF? NA**
Eng. /Constr. Resources Budgeted? Yes	**Capital Investment Part of Original Operating Plan? Yes**
Authorization Type: Preliminary	**O&M Expenses Part of the Original Operating Plan? Yes**
Total Request: $ 275,008	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

This project will address the reliability of a large customer zone on the [redacted]

[redacted]

Project Costs Summary

	Prior Authorized	2021	20__	20__+	Totals
Capital Additions - Direct	$0	$157,006	$0	$0	$157,006
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$3,720	$0	$0	$3,720
Total - Direct Spending	$0	$160,725	$0	$0	$160,725
Capital Additions - Indirect	$0	$100,686	$0	$0	$100,686
Subtotal Request	$0	$261,412	$0	$0	$261,412
AFUDC	$0	$3,136	$0	$0	$3,136
Total Capital Request	$0	$264,548	$0	$0	$264,548
O&M	$0	$10,460	$0	$0	$10,460
Total Request	$0	$275,008	$0	$0	$275,008

Financial Evaluation

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$23,820	$0	$0	$23,820
Overtime Labor	$6,472	$0	$0	$6,472
Outside Services	$20,683	$0	$0	$20,683
Materials	$109,114	$0	$0	$109,114
Other, including contingency amounts (describe)	$637	$0	$0	$637
Total Direct Costs	**$160,725**	**$0**	**$0**	**$160,725**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$100,686	$0	$0	$100,686
Capitalized interest or AFUDC, if any	$3,015	$0	$0	$3,015
Total Indirect Costs	**$103,702**	**$0**	**$0**	**$103,702**
Total Capital Costs	**$264,427**	**$0**	**$0**	**$264,427**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$264,427**	**$0**	**$0**	**$264,427**
Total O&M Project Costs	**$10,581**	**$0**	**$0**	**$10,581**

Total Project Cost	**$275,008**	**$ -**	**$ -**	**$275,008**

Technical Justification:

Project Need Statement

[redacted]

Several options were considered and are discussed in greater detail below in the Alternatives section, [redacted].

Project Objectives

The objective of this project is to improve the reliability to the [redacted]

Project Scope

The preferred option consists of Segment 1 in the Project Need Statement.

Segment 1

[redacted]

[redacted]

Background / Justification

[redacted]

Business Process and / or Technical Improvements:

[redacted]

Alternatives Considered with Cost Estimates:

[redacted]. [redacted] The cost of this alternative is $667K which is more than double the option chosen with no substantial benefits. [redacted]

[redacted]. The estimated cost of the alternative is $2.8M which is still substantially higher than the option chosen.

Project Option Comparison

Design Criteria	[redacted]		
Cost	$275,008	$666,930	$2,773,794
Cost/MVA added	N/A	N/A	N/A
Cost/CM Saved	37.48	90.90	378.05
Preferred Option	X		

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Approval	03/2020
Detail Design	10/2020
Full Funding	12/2020
Construction	12/2021

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.	2021	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	2021	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction 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.
Internal engineering resources not available to perform the work.	2021	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2021	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.

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. Install temporary bypasses/equipment if system will be abnormal for extended periods
Technological risks involving integration of new technology	2021	Low	Before use of new technology ensure support of standards and manufacture. Schedule project to accommodate for extra time or ensure new technology is not on the critical path.
Wetlands / Environmentally sensitive area	2021	Low	Use of mats and specialty equipment, only work during certain times of the year

References

CD01524_project_needs_statement.pdf

CD01524 Load Sheet.xlsx

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

Project CD01524 Map - Existing.pdf

Project CD01524 Map - Option 1.pdf

Project CD01524 Map - Option 2.pdf

Project CD01524 Map - Option 3.pdf

[redacted] One-lines Before and After.pdf