EVERSOURCE
Project Authorization Form

Operations Project Authorization Form

Date Prepared: 01/02/2020	**Project Title:** [redacted] Smart Switch
Company/ies: CT	**Project ID Number:** CD01478
Organization: Electric	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** Smart Switch
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Project Purpose:** Alleviate Frequent Outages/customer complaint
Estimated in service date: 12/31/2020	**If Transmission Project: PTF?** NA
Eng. /Constr. Resources Budgeted? No	**Capital Investment Part of Original Operating Plan?** N
Authorization Type: Initial Funding	**O&M Expenses Part of the Original Operating Plan?** N
Total Request: $212k	

Financial Requirements:

Project Authorization
ERM: _____

FP&A: _____

Executive Summary

This project has been established to address [redacted]

This project addresses reducing customers effected in these t[redacted] customers below 500 customers. This project will also help in [redacted]

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2020	2021	2022+	Totals
Capital Additions - Direct	$0	$108,153	$0	$0	$108,153
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$32,797	$0	$0	$32,797
Total - Direct Spending	$0	$140,950	$0	$0	$140,950
Capital Additions - Indirect	$0	$59,111	$0	$0	$59,111
Subtotal Request	$0	$200,062	$0	$0	$200,062
AFUDC	$0	$1,362	$0	$0	$1,362
Total Capital Request	$0	$201,424	$0	$0	$201,424
O&M	$0	$10,176	$0	$0	$10,176
Total Request	$0	$211,600	$0	$0	$211,600

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$18,328	$0	$0	$18,328
Overtime Labor	$4,980	$0	$0	$4,980
Outside Services	$15,914	$0	$0	$15,914
Materials	$83,956	$0	$0	$83,956
Other, including contingency amounts (describe)	$490	$0	$0	$490
Total Direct Costs	**$123,667**	**$0**	**$0**	**$123,667**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$77,471	$0	$0	$77,471
Capitalized interest or AFUDC, if any	$2,320	$0	$0	$2,320
Total Indirect Costs	**$79,791**	**$0**	**$0**	**$79,791**
Total Capital Costs	**$203,459**	**$0**	**$0**	**$203,459**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$203,459**	**$0**	**$0**	**$203,459**
Total O&M Project Costs	**$8,141**	**$0**	**$0**	**$8,141**
Total Project Cost	**$ 211,600**	**$ -**	**$ -**	**$ 211,600**

Note: Explain unique payment provisions, if applicable

Technical Justification:

Project Need Statement

This project has been established to address the following issues on the [redacted]

- [redacted]
- [redacted]

Project Objectives

[redacted]

Project Scope

In order to meet the above objective, this project proposes the following:

[redacted]

Business Process and / or Technical Improvements:

[redacted]

Alternatives Considered with Cost Estimates

Project Option Comparison

Design Criteria	[redacted]		
Cost	$211,600	$531,138.54	$718,291.32
Cost / MVA added			
Cost / CM Saved	0.79	2.51	3.37
Cost / CI Saved	$372.86	$996.62	$1,316.05
Preferred option	X		

Alternative	Cost Breakdown		Total Cost	Comments
Creating a [redacted]	Changing setting of RR [redacted] Installing New VS on Pole:60920 New RR on pole:12769	$202,583.26	$531,148.54	[redacted]
	Rebuilding [redacted] with replacing 565' of #2 cable with 336 and extending 1800' of 336 cable	$328,565.28		
Creating a [redacted]	Changing setting of RR [redacted] Installing New VS on Pole:60920 New RR on pole:12769	$202,583.26	$718,291.32	[redacted]
	Rebuild [redacted] Running new 336 cable by removing older 1600' of 1/0 ACSR and 565' of #2 cable	$515,708.06		

Alternatives Considered with Cost Estimates

No alternatives now

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering Approval	January 2020
Detail Design	January 2020
Construction	December 2020

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.	2020	Medium	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	2020	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2020	High	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.	2020	Medium	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 to require system to be abnormal for any extended period of time.

References
None

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

Map
CD01478 Map.pdf

Load Sheet
[redacted] Load sheet Before .pdf

[redacted] SS Load Sheet After CD0147[redacted]

[redacted] Sheet After CD0102[redacted]

One-Lines
CD01478 One_line.pdf

Need Statement
AIMS Design Statement.pdf