EVERSOURCE

Supplement Authorization Form

Project Title: [redacted]	**Project Number: CD01264**
Date Prepared: 04/24/2026	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SMART SWITCHES PROGRAM
Initiating Organization: Distribution	**Project Type:** Specific
Project DDE: [redacted]	**Capital Investment part of 5-year plan?** Yes
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Current Authorized Amount: $302K	**Approved In-Service Date:**
Supplement Request: $99K	**Estimated In-Service Date: 12/31/2021**
Total Capital Request: $401K	**Authorization Type:** Supplement Request
	Reason: Cost Overage

1. Project Background

Project CD01264 was created to reduce the size of two zones on the [redacted]

2. Supplement Justification Overview

The requested amount of $97.1K is 53% above the authorized direct cost of $183.8K.

3. Supplement Justification Detail

The $97.1K extra direct spend was due to additional outside services associated with the work on the project.

4. Supplement Cost Summary (Project Total)

Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction Equipment	3.3	34.6	-31.5	3.1
Outside Services	109.6	23.7	80.3	104.0
Materials	162.2	124.8	29.0	153.8
Removals	0.0	0.0	14.1	14.1
Risk and Contingency	7.9	0.0	7.9	7.9
Other	-2.0	0.7	-2.6	-1.9
Subtotal	**281.0**	**183.8**	**97.1**	**281.0**

Indirect Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Indirects/Overheads (including benefits)	113.0	115.1	-2.2	113.0
Capitalized interest or AFUDC, if any	7.1	3.4	3.7	7.1
Subtotal	**120.1**	**118.6**	**1.5**	**120.1**
Total Capital Costs (Gross)	**401.1**	**302.4**	**98.7**	**401.1**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**401.1**	**302.4**	**98.7**	**401.1**

New Total Request by Year (if applicable)

Note: If multi-year project, include actuals for current and years past, and then show forecasted spend for upcoming years.

Line item Category	2020	2021	2022	2023	2024	2025	Total
Internal Labor and Construction Equipment	0.0	2.8	0.0	0.1	0	0.2	3.1
Outside Services	0.2	93.5	1.4	3.7	0	5.1	104.0
Materials	0.3	138.3	2.1	5.5	0	7.6	153.8
Removals	0.0	12.3	0.2	0.5	0	1.1	14.1
Risk and Contingency	0.0	0.0	0.0	0.0	0	7.9	7.9
Other	0.0	-1.7	0.0	-0.1	0	-0.1	-1.9
SUBTOTAL DIRECTS W/ RISKS	**0.4**	**245.2**	**3.8**	**9.7**	**0**	**21.8**	**281.0**
Indirect / Overhead (including benefits)	0.7	120.0	-6.8	-12.2	0	11.2	113.0
AFUDC	0.0	4.5	2.6	0.0	0	0.0	7.1
Subtotal – Indirect Costs	**0.8**	**124.5**	**-4.2**	**-12.2**	**0**	**11.2**	**120.1**
TOTAL CAPITAL REQUEST	**1.2**	**369.7**	**-0.4**	**-2.4**	**0**	**33**	**401.1**
Reimbursables/Customer Contribution	0	0	0	0	0	0	0
PROJECT TOTAL (LESS REIMBURSABLES)	**1.2**	**369.7**	**-0.4**	**-2.4**	**0**	**33**	**401.1**

5. Lessons Learned

Operations Project Authorization Form

Date Prepared: 01/28/2021	**Project Title:** [redacted]
Company/ies: Eversource CT	**Project ID Number: CD01264**
Organization: Distribution	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Line**
Project Manager: [redacted]	**Project Type: Reliability, Smart Switch Program**
Project Sponsor: [redacted]	**Project Purpose: Add new automatic zones – reduce size of existing automatic zones.**
Estimated in service date: 12/31/2021	**If Transmission Project: PTF? N/A**
Eng. / Constr. Resources Budgeted? Yes	**Capital Investment Part of Original Operating Plan? Yes**
Authorization Type: Full Funding	**O&M Expenses Part of the Original Operating Plan? Yes**
Total Request: $318,561	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

The objective of the Smart Switch Program is to identify large backbone zones and reduce the customer zone size to decrease the impact of outage events.

[redacted]

[redacted]

Addressing both zones simultaneously prevents Protection and Controls from repeating a coordination study during the next round of smart switch projects.

[redacted]

[redacted]

Project CD01264 received preliminary funding of $314,498, at the 5 December 2019 CT PAC meeting. The detail design has been completed and we are requesting Full Funding Authorization of $318,361, an increase of $4,063 or 1.3% of the Preliminary Funding Amount. This change is within

the ±10% range for automatic Full Funding Authorization per JA-AM-2001-1, Capital Project Approval Process. There is no Change in Scope

Project Costs Summary

	Prior Authorized*	Additional Request	2021	2022+	Total **
Capital Additions Direct	$0	$0	$ 194,650	$ -	$194,650
Less Customer Contribution	$0	$0	$ -	$ -	$0
Removals Net of Salvage	$0	$0	$ 2,186	$ -	$2,186
Total - Direct Spending	$0	$0	$ 196,836	$ -	$196,836
Capital Additions - Indirect	$0	$0	$ 110,784	$ -	$110,784
AFUDC	$0	$0	$ 1,124	$ -	$1,124
Total Capital Request	$302,536	$6,208	$ 308,744	$ -	$308,744
O&M	$11,962	-$2,145	$ 9,817	$ -	$9,817
Total Request	**$314,498**	**$4,063**	**$ 318,561**	**$ -**	**$318,561**

* Amount currently approved in PowerPlan

** Total authorization needed in PowerPlan based on ACT

Financial Evaluation

Direct Capital Costs	2021	2022	2023+	Total
Straight Time Labor	$ 27,038	$ -	$ -	$ 27,038
Overtime Labor	$ -	$ -	$ -	
Outside Services	$ 11,194	$ -	$ -	$ 11,194
Materials	$ 158,604	$ -	$ -	$ 158,604
Other, including contingency amounts	$ -	$ -	$ -	$ -
Total	$ 196,836	$ -	$ -	$ 196,836

Indirect Capital Costs	2021	2022	2023+	Total
Indirects/Overheads (including benefits)	$ 110,784	$ -	$ -	$ 110,784
Capitalized interest or AFUDC, if any	$ 1,124	$ -	$ -	$ 1,124
Total	$ 111,908	$ -	$ -	$ 111,908

Total Capital Costs	$ 308,744	$ -	$ -	$ 308,744
Less Total Customer Contribution	$ -	$ -	$ -	$ -
Total Capital Project Costs	$ 308,744	$ -	$ -	$ 308,744
Total O&M Project Costs	$ 9,817	$ -	$ -	$ 9,817
Total Project Cost	**$ 318,561**	**$ -**	**$ -**	**$ 318,561**

* to be completed if supplemental authorization is required

Technical Justification:

Project Need Statement

[redacted]. [redacted] Project CD01264 will reduce the [redacted]
Addressing both zones simultaneously prevents Protection and Controls from repeating a coordination study during the next round of smart switch projects.

Project Objectives

The goal of the Smart Switch Program is to reduce the number of customers exposed to an outage event. The projects break up large customer zones by creating automated loops and adding sectionalizing reclosers in various settings profiles to isolate outages. The target of each project is to decrease customer zones to below 500, where possible. A zone that is broken in half with a tie to another source can improve the zone's reliability by 50%. Adding an additional device in a radial zone can improve the zone's reliability by 30%. Projects may include breaking up large customer zones with several devices and multiple ties.

[redacted]

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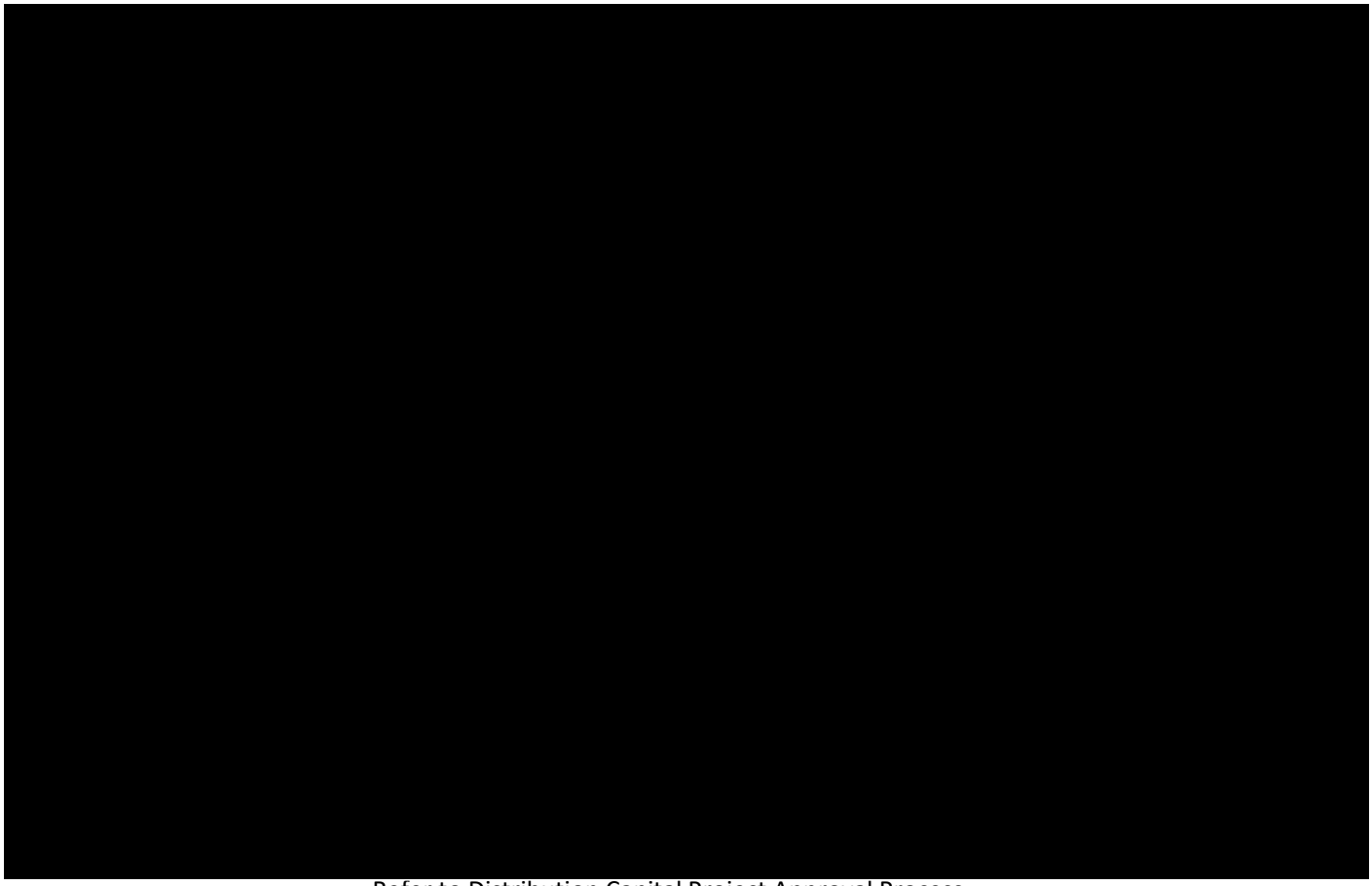
Background / Justification:

The Smart Switch Program is a continuation of an initiative that was approved as part of the System Resiliency PURA Docket 12-07-06RE01 which is a multiyear program to improve circuit reliability by adding automatic sectionalizing devices on overhead distribution circuits. The Smart Switch Program focuses on breaking up customer zones and lowering the average number of customers impacted by a backbone interruption.

Business Process and / or Technical Improvements:

Projects within the Smart Switch Program will increase the number of SCADA controlled devices on the system. This upgrade allows for better system visibility, faster restoration, outage isolation and reconfiguration of the system during planned and unplanned switching events. Customer zones are reduced to under 500, where possible.

Alternatives Considered with Cost Estimates



Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Funding Authorization	December 5, 2019
Detailed Design	January 20, 2021
Full Funding Authorization	February 2021
Construction Begin	May 2021
Construction End	December 2021

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.	2021	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost if necessary.
Internal engineering 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 if necessary.
Materials shortage or long lead times	2020-2021	Medium	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	Medium	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	2020-2021	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.

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