EVERSOURCE

APS 1 - Project Authorization Policy

Supplement Request Form

Approved at April 17, 2019 EPAC

Link to Meeting Minutes

Date Prepared: 04/05/18	**Project Title: [redacted] Circuit Breaker Automation**
Company/Companies: Eversource CT	**Project ID Number: CS00182**
Organization: Distribution Projects	**Plant Class/ (F.P. Type): Distribution Substation**
Project Initiator: [redacted]	**Project Type: Specific**
Project Manager: [redacted]	**Capital Investment Part of Original Operating Plan? Yes**
Project Sponsor: [redacted]	**O&M Expenses Part of the Original Operating Plan? No**
Current Authorized Amount: $150K	**Estimated in service date(s): 12/31/18**
Supplement Request: $340K	**Other: N/A**
Total Request: $490K	

Supplement Justification

Background

This request is for supplemental funding in the amount of $340K for the [redacted] Substation Circuit Breaker Automation Project. This supplemental approval will increase the total authorized funding for the project from $150K to $490K.

This project was authorized in PowerPlan for $150K on February 12, 2016. The original scope of the project was based on the NESC Arc Flash Relay Installation program DME, dated 3/7/2016. The scope was to [redacted] he released engineering included the replacement of the DSCADA system and additional relay changes required to incorporate the new SCADA system. This project was placed in service August 23, 2018 and $490,141 has been spent to date as of April 10, 2019.

Justification for Additional Resources

The reasons for the project authorization supplement of $340K are summarized below:

1) Contractor costs. Installation and testing were performed by contract labor instead of in-house labor as originally planned. The contractor labor was used due to the unavailability of in-house labor.
2) Additional work was required to [redacted] The new SCADA system was a part of the original engineering release for construction package.
3) Lead Commissioning engineer requirement was put in place by company policy after the project was planned and scheduled resulting in extra cost of a lead commissioning engineer (LCE) assigned for the duration of the project adding to the contract labor cost.

The LCE group was not applicable to distribution projects at the time of approval by the Operating Company Review Committee (OCRC).

Total Supplement Request: $340K

The table below provides a comparison overview of the line item categories from the original project estimate and the updated project estimate:

Line item Category	Original Estimate	New Estimate	Variance
1. Engineering & Design	$11	$31	$20
2. Materials	$6	$18	$12
3. Inhouse Labor/Rentals	$0	$9	$9
4. Construction	$95	$281	$186
Total Direct Costs	**$112**	**$339**	**$227**
5. Indirects/Other	$35	$128	$93
6. AFUDC	$3	$23	$20
TOTALS	**$150**	**$490**	**$340**

Please see the original approved document attached.

Supplement Cost Summary

Note: Dollar values are in thousands:

	Prior Authorized	Supplement Request	Total
Capital Additions - Direct	$110	$222	$332
Less Customer Contribution	$0	$0	$0
Removals Net of Salvage 2%	$2	$5	$7
Total Direct Spending	**$112**	**$227**	**$339**
Capital Additions - Indirect	$35	$93	$128
AFUDC	$3	$20	$23
Total Capital Request	**$150**	**$340**	**$490**
O&M	$0	$0	$0
Total Request	**$150**	**$340**	**$490**

Note: Dollar values are in thousands:

Total Supplement Request by year view:

	Prior Years	2019	20120	Total
Capital Additions Direct	$228	($6)		$222
Less Customer Contribution	$0	$0		$0
Removals Net of Salvage 2%	$5	$0		$5
Total Direct Spending	233	($6)		$227
Capital Additions - Indirect	$100	($7)		$93
AFUDC	$20	$0		$20
Subtotal Request	$353	($13)		$340
O&M	$0	$0		$0
Total Request	$353	($13)		$340

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CS00182

[redacted] - Circuit Breaker Auto

Work Classification

Category: Substation
Type: SRCA
Type Desc: SS CIRCUIT BREAKER AUTOMATION
Work Type: Other Work

Ownership / Management

AWC: Tolland
Statewide: No
Owner: [redacted]
Manager:

Project Information

Status: Draft
SPS #:
AIS Score:
Associated Projects:
Assignment ID:
Patrol Find ID:

Budget Summary - Preferred Option

[redacted]

2017

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	[redacted]	Prelim	0	0 %	$150,000	$150,000
				2017 Total:	**$150,000**	**$150,000**
				Total Project:	**$150,000**	**$150,000**

Specific Project Proposal - Project #: CS00182

[redacted] - Circuit Breaker Auto

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	[redacted]	1	$150,000	$0	100 %	$0.00	$0.00	☑

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	[redacted]	$150,000			$0.00	$0.00

Specific Project Proposal - Project #: CS00182

[redacted] - Circuit Breaker Auto

Background / Scope

Issue:

There is an initiative to [redacted]

Project Description:

January 2016 - This is for ENG approval. [redacted] The estimated cost is [redacted]k for each or $150k total. The ISD is 12/31/17.

Other Considerations:

Revision / ACT Comments:

If we don't do this project, what will happen?

Environmental

Water Pollution: No Change Soil Contamination: No Change Natural Habitats: No Change

Alternatives considered based on Environmental Impact or Description of Aspects Oil Spill Risks Considered? ☑

Safety Concerns With This Project? ☐

Explain:

External Stakeholders

Customer Impact / Involvement

Cust. Impacted:
Crit. Cust. Impacted:
Adjoining Property Owner Consent Required: ☐
Other Utility Pole Custodian Area: ☐
State Highway Permit Required: ☐
Approx. Pole Count (NU):
Approx. Pole Count (Other):
Town Hearing Required: ☐
Easement Required: ☐

Relocation / New Service

New Srvc. Contact:
Customer Type:
Request Number:
Requestor Type:
State Highway Project #:
Route #:

Specific Project Proposal - Project #: CS00182

[redacted] - Circuit Breaker Auto

Design Alternative CS00182-01

General Information

Segment: 1 - [redacted]
Status: Prelim Design Submitted
Segment Type: DSCADA
Town: MANSFIELD
Budget Year: 2017
Work Type: Other
Trimming Required: ☐
In Service Date: 12/31/2017
Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]	[redacted]	[redacted]

Specific Project Proposal - Project #: CS00182

[redacted] - Circuit Breaker Auto

Design Alternative CS00182-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	0.00 %
SubTotal:	$150,000
Contingency Amount:	$0
Estimate:	$150,000
Reimbursement:	$0
Net Amount:	**$150,000**
Description:	Automate [redacted] 27.6 kV breakers

Item Description	CU	$ / Per	Qty	Amount
OTHER	15-ALL14	[redacted]	[redacted]	$150,000.00
OTHER				

Associated / Impacted Devices

Status		Notes
Existing	[redacted]	
Existing		

Specific Project Proposal - Project #: CS00182

[redacted] - Circuit Breaker Auto

Design Alternative

CS00182-01

Reliability Projection

Title:

Outage Start Date: 01/01/2007 **Outage End Date:** 12/18/2015 **Years History:** 8.97

[redacted]