Supplement Request Form

Approved at January 08, 2020 EPAC

Link to Meeting Minutes

Date Prepared: 11/30/2019	**Project Title: Circuit Breaker Automation at [redacted]**
Company/Companies: Eversource -CT	**Project ID Number: CS00183**
Organization: Strategy and Performance	**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: $450K	**Estimated in service date(s): 4/30/19**
Supplement Request: $555K	**Other:**
Total Request: $1,005K	

Background

The [redacted] project had an authorized budget of $450K which was approved in PowerPlan on February 17, 2016. The project was placed in service on April 30, 2019. This supplement requests an additional $555K for an updated total request of $1,005K. As of December 30, 2019, $1,005K has been spent to complete the project.

The project scope was to [redacted] The original in service date was extended from December 31, 2017 to April 30, 2019. The in service date was extended due to lack of resource availability for installation and testing. There were no scope changes.

The project cost estimate assumed the work would be performed by internal resources. Due to a lack of resource availability, contractor labor performed the construction and testing for this project. Using contractor labor also required the use of a lead commissioning engineer (LCE) which also increased the project cost since it was not a requirement when the original estimate was developed.

Supplement Justification

Justification for Additional Resources

A formal Project Authorization Form (PAF) was not originally created; the predecessor approval document was used for approval in PowerPlan. The prior approved estimate included only direct costs. Therefore, a detailed comparison and analysis of cost increases cannot be conducted.

As discussed above, the reasons for the project authorization supplement of $555K are due to the change from internal to external resources, the required use of an LCE and the associated extended in service date. Costs shown below are the project totals.

Design and Engineering costs (internal resources) were $32K

Project materials were $25K

Switching Support cost was $31K

Contractor Labor costs were $493K

- Electrical Construction contract was $147K
- Test contract was $280K
- LCE Services - Contract LCE services were $66K

Indirect Costs

- Indirect costs were $402K
- AFUDC charges were $22K

Please see the original authorization documentation attached.

Supplement Cost Summary

Note: Dollar values are in thousands:

	Prior Authorized	Supplement Request	Total
Capital Additions - Direct	$450	$19	$469
Less Customer Contribution	$ -	$ -	$ -
Removals Net of Salvage 19.3%	$ -	$112	$112
Total Direct Spending	$450	$131	$581
Capital Additions - Indirect	$ -	$402	$402
AFUDC	$ -	$22	$22
Total Capital Request	$450	$555	$1,005
O&M	$ -	$ -	$ -
Total Request	$450	$555	$1,005

Note: Dollar values are in thousands:

Total Supplement Request by year view:

	2016	2017	2018	2019	Total
Capital Additions Direct	$26	($445)	$132	$306	$19
Less Customer Contribution	$ -	$ -	$ -	$ -	$ -
Removals Net of Salvage 19.3%	$6	$1	$32	$73	$112
Total Direct Spending	$32	($444)	$164	$379	$131
Capital Additions - Indirect	$12	$8	$142	$240	$402
AFUDC	$1	$2	$10	$9	$22
Subtotal Request	$45	($434)	$316	$628	$555
O&M	$ -	$ -	$ -	$ -	$ -
Total Request	$45	($434)	$316	$628	$555

Superseded Distribution Project Summary & Previous Estimates

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CS00183

[redacted] - Circuit Breaker Auto

Work Classification

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

Ownership / Management

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

Project Information

Status: Prelim Design Approved
SPS #:
AIS Score:
Associated Projects:
Assignment ID:
Patrol Find ID:

Budget Summary - Preferred Option

Automate 6 - 27.6 kV breakers

2017

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	[redacted]	Prelim	0	0 %	$450,000	$450,000
				2017 Total:	**$450,000**	**$450,000**
				Total Project:	**$450,000**	**$450,000**

Specific Project Proposal - Project #: CS00183

[redacted] - Circuit Breaker Auto

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	[redacted]	1	$450,000	$0	100 %	$0.00	$0.00	☑

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	[redacted]	$450,000			$0.00	$0.00

Specific Project Proposal - Project #: CS00183

[redacted] - Circuit Breaker Auto

Background / Scope

Issue:

There is an [redacted]

Project Description:

January 2016 - This is for ENG approval. The scope is to [redacted] The estimated cost is $75k for each or $450k 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: Approx. Pole Count (NU):

Crit. Cust. Impacted: Approx. Pole Count (Other):

Adjoining Property Owner Consent Required: ☐ Town Hearing Required: ☐

Other Utility Pole Custodian Area: ☐ Easement Required: ☐

State Highway Permit Required: ☐

Relocation / New Service

New Srvc. Contact: Requestor Type:

Customer Type: State Highway Project #:

Request Number: Route #:

Specific Project Proposal - Project #: CS00183

[redacted] - Circuit Breaker Auto

Segment CS00183-01

General Information

Segment: 1 - [redacted]
Status: Prelim Design Approved
Segment Type: DSCADA
Town: GREENWICH
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 #: CS00183

[redacted] - Circuit Breaker Auto

Segment CS00183-01

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	0.00 %
SubTotal:	$450,000
Contingency Amount:	$0
Estimate:	$450,000
Reimbursement:	$0
Net Amount:	**$450,000**
Description:	[redacted]

Item Description	CU	$ / Per	Qty	Amount
OTHER	15-ALL14	1.00 / $	450,000	$450,000.00
OTHER				

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Cust	Notes
Existing	[redacted]			0	
Existing				0	
Existing				0	
Existing				0	
Existing				0	
Existing				0	

Specific Project Proposal - Project #: CS00183

[redacted] - Circuit Breaker Auto

Segment CS00183-01

Reliability Projection

Title:

Outage Start Date: 01/01/2007 Outage End Date: 12/21/2015 Years History: 8.98

[redacted]