Supplement Request Form

Approved at December 23, 2019 EPAC

Link to Meeting Minutes

Date Prepared: 11/30/2019	**Project Title: Circuit Breaker Automation at [redacted]**
Company/Companies: Eversource CT	**Project ID Number: CS00181**
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: $630K	**Estimated in service date(s): 5/2/18**
Supplement Request: $809K	**Other:**
Total Request: $1,439K	

Background

The [redacted] had an original authorized budget of $630K which was approved in PowerPlan on 2/17/16. The project was placed in service on 5/2/2018. This supplement requests an additional $809K for an updated total request of $1,439K. As of December 16, 2019, $1,439K has been spent on the project.

The project scope was to [redacted]. The original in service date was extended from 12/31/17 to 5/2/18. There were no scope changes. The project in service date was extended due to the use of contractor labor for construction and testing.

The project cost estimate assumed the work would be performed by internal resources. Due to lack of internal resources, 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 included in the original estimate. The change from internal to external resources and the extended in service date are the reasons for the supplement request.

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. Also, the original estimate approved in PowerPlan was developed using total direct costs preventing a detailed comparison and analysis of cost increases.

As discussed above, the reasons for the project authorization supplement of $809K 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 were $67K

Project materials/rentals were $125K

Contractor Labor - $800K

- Electrical Construction Matrix contract cost was $293K
- Test contract costs were $320K
- LCE Services - Contract LCE services were $187K

In House Labor Switching services costs were$32K

Indirect Costs

- Capital Additions Indirect costs were $368K
- AFUDC Charges cost $47K

Please see the original authorization documentation attached.

Supplement Cost Summary

Note: Dollar values are in thousands:

	Prior Authorized	Supplement Request	Total
Capital Additions - Direct	$630	$382	$1,012
Less Customer Contribution	$0	$0	$0
Removals Net of Salvage 1.2__%	$0	$12	$12
Total Direct Spending	$630	$394	$1,024
Capital Additions - Indirect	$0	$368	$368
AFUDC	$0	$47	$47
Total Capital Request	$630	$809	$1,439
O&M	$0	$0	$0
Total Request	$630	$809	$1,439

Note: Dollar values are in thousands:

Total Supplement Request by year view:

	2016	2017	2018	Total
Capital Additions Direct	$0	$180	$202	$382
Less Customer Contribution	$0	$0	$0	$0
Removals Net of Salvage 1.2__%	$0	$10	$2	$12
Total Direct Spending	$0	$190	$204	$394
Capital Additions - Indirect	$35	$185	$148	$368
AFUDC	$1	$17	$29	$47
Subtotal Request	$36	$392	$381	$809
O&M	$0	$0	$0	$0
Total Request	$36	$392	$381	$809

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CS00181

[redacted] - Circuit Breaker Auto

Work Classification

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

Ownership / Management

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

Project Information

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

Budget Summary - Preferred Option

Automate [redacted] breakers and [redacted] reclosers

2017 ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	[redacted]	Prelim	0	0 %	$630,000	$630,000
				2017 Total:	**$630,000**	**$630,000**
				Total Project:	**$630,000**	**$630,000**

Specific Project Proposal - Project #: CS00181

[redacted] - Circuit Breaker Auto

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	[redacted]	1	$630,000	$0	100 %	$0.00	$0.00	☑

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	[redacted]	$630,000			$0.00	$0.00

Specific Project Proposal - Project #: CS00181

[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] for each of the [redacted] breakers and [redacted] per recloser or $630k 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 #: CS00181

[redacted] - Circuit Breaker Auto

Segment CS00181-01

General Information

Segment: 1 - [redacted]
Status: Prelim Design Approved
Segment Type: DSCADA
Town: NEW CANAAN
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 #: CS00181

[redacted] - Circuit Breaker Auto

Segment CS00181-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	0.00 %
SubTotal:	$630,000
Contingency Amount:	$0
Estimate:	$630,000
Reimbursement:	$0
Net Amount:	**$630,000**
Description:	[redacted]

Item Description	CU	$ / Per	Qty	Amount
OTHER	15-ALL14	[redacted]	[redacted]	$630,000.00
OTHER				

Segment CS00181-01

Associated / Impacted Devices

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

Specific Project Proposal - Project #: CS00181

[redacted] - Circuit Breaker Auto

Segment CS00181-01

Reliability Projection

Title:

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

[redacted]