EVERSOURCE
Project Authorization Form

Operations Project Authorization Form

Date Prepared: 08/24/2018	**Project Title: [redacted] - Replace Failed Equipment**
Company/ies: Eversource CT	**Project ID Number: CS00305**
Organization: Asset Management	**Class(es) of Plant: Distribution Substation**
Project Initiator: [redacted]	**Project Category: Equipment Failures**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Replacement of Failed Equipment**
Estimated in service date:	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted? Y	**Capital Investment Part of Original Operating Plan? Y**
Authorization Type: Full Funding	**O&M Expenses Part of the Original Operating Plan? N**
Total Request: $522k	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

This project is seeking full funding of $522k to cover the capital replacement of failed equipment at [redacted]. Annual DSQ62028 was created to address the emergent condition at [redacted] on July 16, 2016 and to handle the replacement of the [redacted]

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2016	2017	Totals
Capital Additions - Direct	$98	$361	$44	$405
Less Customer Contribution	$0	$0	$0	$0
Removals net of Salvage %	$0	$0	$0	$0
Total - Direct Spending	$98	$361	$44	$405
Capital Additions - Indirect	-	$106	$11	$117
Subtotal Request	-	$467	$55	$522
AFUDC	-			
Total Capital Request	$98	$467	$55	$522
O&M				
Total Request	$98	$467	$55	$522

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	2016	2017	Total
Straight Time Labor	$60	$10	$70
Overtime Labor	$51	$1	$52
Outside Services	$24	$1	$25
Materials	$224	$31	$255
Other, including contingency amounts (describe)	$3	$0	$3
Total	$362	$43	$405

Indirect Capital Costs	2016	2017	Total
Indirects/Overheads (including benefits)	$106	$11	$117
Capitalized interest or AFUDC, if any			
Total	$106	$11	$117

Total Capital Costs	$467	$54	$522
Less Total Customer Contribution			
Total Capital Project Costs	**$468**	**$54**	**$522**
Total O&M Project Costs			

Note: This Annual has not been closed and AFUDC charges are still being applied

Future Financial Impacts:

Provide below the estimated future costs that will result from the project:
Note: Dollar values are in thousands:

Future Costs	Year 20__	Year 20__	Year20__	Year 20__+	Total Future Project Costs
Capital	$ -	$ -	$ -	$ -	$ -
O&M	-	-	-	-	-
Other	-	-	-	-	-
TOTAL	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Describe the estimated future Capital, O&M and/or Other costs noted above: N/A

What functional area(s) will these future costs be funded in?_____
A representative from the respective functional area is required to be included as a project approver.

If this is other than a Reliability Project, please complete the section below;

Provide below the estimated financial benefits that will result from the project:

Note: Dollar values are in thousands:

Future Benefits	Year 20__	Year 20__	Year20__	Year 20__ +	Total Future Project Benefits
Capital	$ -	$ -	$ -	$ -	$ -
O&M	-	-	-	-	-
Other	-	-	-	-	-
TOTAL	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Describe the estimated future Capital, O&M and/or Other benefits noted above: N/A

What functional area(s) will these benefits be reflected in?_____
A representative from the respective functional area is required to be included as a project approver.

Asset Retirement Obligation (ARO) and/ or Environmental Cleanup Costs (Environmental Liabilities):

Is there an ARO associated with this project? If yes, please provide details: There is No ARO associated with this project.

Are there other environmental cleanup costs associated with this project? If yes, please provide details: No.

Technical Justification:

Project Need Statement

This project addressed the replacement of the [redacted]

Project Objectives

[redacted]

Project Scope

The scope of this project included the following

- [redacted]

Background / Justification

[redacted]

Business Process and / or Technical Improvements:

This project consisted of replacement of damaged equipment.

Alternatives Considered with Cost Estimates
There were no alternatives considered prior to the fault as this was an emergent replacement project to restore normal service.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
This project has been completed	

Regulatory Approvals

N/A

Risks and Risk Mitigation Plans

Project has been completed

References

Incident Analysis Report
[redacted]t
(Disturbance #16-0078 & #16-0079) July 16, 2016

Reconciliation of Cost Increase

Annual work order DSQ62028 estimate was estimated at $98,300
The final project cost came to $522,124 with the last recorded spend in Oct/2017

	Original estimate	Actuals	Delta
Materials	$51,100	$255,209	$204,109
Labor	$47,200	$150,298	$103,098
Indirect	Not included	$116,617	$116,617
Totals	$98,300	$522,124	$423,824

Material costs increased by $204,109
Labor costs increased by $103,098
Indirect costs are not shown in annuals but are incurred during the life of the project.

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



Project Checklist – Transmission and Substation

Checklist for Studies and Processes of a Transmission & Substation Capital Project					
Project Name: [redacted] - Replace Failed Equipment					**PAF No: CS00305**
Facility Type: ☐ BPS ☒ BES ☐ PTF ☐ non-PTF ☐ CIP ☒ Distribution					
PLANNING					
Is a NX-9 required?					No
Is an ISO-NE PAC presentation required?					No
Is a PPA required?					No
Is a TCA Application Required?					No
PLANNING/PROTECTION & CONTROLS					
Are RAS/SPS/UVLs affected?					No
OPERATIONS					
Outage Required?	☒ Primary Equipment (Power Transfer)		☐ Secondary Equipment (P&C only)		☐ Outage Not Required
Do SCLL Conditions Exist?					No
Has an outage schedule been approved?					Yes
Are Operations & Maintenance procedures/training required?					No
STANDARDS					
Does the project include standard equipment and designs?					Yes
SUBSTATION ENGINEERING					
Does this impact Revenue Metering					No
Is preliminary short circuit/ breaker duty analysis required?					No
Are there any changes to the baseline audible noise?					No
Is there an impact to the existing ground grid?					No
Is a Transient Over Voltage (TOV) analysis required?					No
P&C ENGINEERING					
OP-22 - Are PMUs and DDR required?					No
If BPS, is an NPCC Directory #4 presentation required?					No

Checklist for Studies and Processes of a Transmission & Substation Capital Project	
Project Name: [redacted] - Replace Failed Equipment	**PAF No: CS00305**

TRANSMISSION LINE ENGINEERING	
Are there any changes that affect the baseline EMF?	No
Are there any changes that affect the baseline EMI?	No
SITING	
Is a Siting filing required?	No
PERMITTING	
Is there any permitting required?	No
SITING & CONSTRUCTION SERVICES (OUTREACH)	
What is the level of outreach expected?	None
INITIATOR	
Has a field constructability review been completed?	Yes
INVESTMENT RECOVERY	
Does the project require development of an Investment Recovery plan?	No
COST ESTIMATING	
How was the cost estimate prepared?	Other (specify below)
Who prepared the estimate?	Substation Eng
Was the estimate reviewed by Eversource Estimating?	No

Cost Estimate Backup Details

The cost estimate used for this PAF was the actual dollars spent on the replacements of damaged equipment.

E13	Meals	2,059.18
E14	Mileage	678.30
L11	Labor Straight Time Exempt	5,153.14
L12	Labor Straight Time Non-Exempt	65,166.62
L22	Labor Overtime Non-Exempt	44,495.43
L42	Labor Premium and Special Non-Exempt	7,967.12
M11	Materials- Purchased	247,294.54
M12	Materials- Stores	7,914.91
S22	Other Outside Services	0.00
S25	Police Services and Traffic Control	2,960.62
S46	Contractor Services- Other	18,044.00
S49	Contractor Labor	3,748.68
ZAS	Admin and Eng OH- Acct Use Only	6,841.11
ZGS	Gen Ser Co Benefit Loader- Acct Use Only	2,512.48
ZNP	Non Productive Time Loader- Acct Use Only	24,917.97
ZPB	Payroll Benefit Loader- Acct Use Only	59,115.45
ZSC	Service Company Allocations- Acct Use Only	(0.00)
ZST	Stores Loader- Acct Use Only	1,220.59
ZVE	Vehicle Costs Clearing- Acct Use Only	22,034.10

Charges made between 07/2016 - 10/2017