Operations Project Authorization Form

Approved at April 29, 2020 EPAC
Link to Meeting Minutes

Date Prepared: April 14, 2020	**Project Title: New Manhole [redacted]**
Company/ies: Eversource CT	**Project ID Number: CS00374**
Organization: Asset Management	**Class(es) of Plant: Distribution Substation**
Project Initiator: [redacted]	**Project Budget Category: Stations – Other**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Support distribution line upgrades to improve reliability**
Estimated in service date: September 30, 2020	**If Transmission Project, PTF/Non-PTF: N/A**
Eng. / Constr. Resources Budgeted? Yes	**Capital Investment Part of Original Operating Plan: No**
Authorization Type: Full Funding	**O&M Expenses Part of the Original Operating Plan: N/A**
Total Request: $292K	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

This project is requesting $292K for the construction of [redacted]. The Distribution Engineering group identified the need for this additional civil infrastructure project (Attachment D) to support the distribution line project CD01107. CD01107 will upgrade the [redacted]

This project includes the engineering and construction for the [redacted] D01107. [redacted]

A constructability review was completed on February 14, 2020 (Attachment B). [redacted] Engineering will be completed by Eversource resources and construction will be contracted resources. [redacted] project CD01107.

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2020	2021_	Totals
Capital Additions - Direct	$ -	$ 186	$ -	$ 186
Less Customer Contribution	$ -	$ -	$ -	$ -
Removals net of Salvage __%	$ -	$ -	$ -	$ -
Total - Direct Spending	$ -	**$ 186**	$ -	**$ 186**
Capital Additions - Indirect	$ -	$ 96	$ -	$ 96
Subtotal Request	$ -	**$ 283**	$ -	**$ 283**
AFUDC	$ -	$ 9	$ -	$ 9
Total Capital Request	$ -	**$ 292**	$ -	**$ 292**
O&M	$ -	$ -	$ -	$ -
Total Request	$ -	**$ 292**	$ -	**$ 292**

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	Prior Authorized	2020	2021	Totals
Straight Time Labor	$ -	$ 7	$ -	$ 7
Overtime Labor	$ -	$ -	$ -	$ -
Outside Services	$ -	$ 140	$ -	$ 140
Materials	$ -	$ 10	$ -	$ 10
Other, including contingency amounts (describe)	$ -	$ 30	$ -	$ 30
Total Direct Costs	**$ -**	**$ 186**	**$ -**	**$ 186**
Indirect Capital Costs	Prior Authorized	2020	2021	Totals
Indirects/Overheads (including benefits)	$ -	$ 96	$ -	$ 96
Capitalized interest or AFUDC, if any	$ -	$ 9	$ -	$ 9
Total Indirect Costs	**$ -**	**$ 105**	**$ -**	**$ 105**
Total Capital Costs	**$ -**	**$ 292**	**$ -**	**$ 292**
Less Total Customer Contribution	$ -	$ -	$ -	$ -
Total Capital Project Costs	**$ -**	**$ 292**	**$ -**	**$ 292**
Total O&M Project Costs	$ -	$ -	$ -	$ -

Note: Explain unique payment provisions, if applicable:

Other costs include contingency of $30K to mitigate the risks of unknown underground obstructions, environmental cleanup ($2K) and weather delays.

Future Financial Impacts:

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

Future Costs	Year 20__	Year 20__	Year 20__	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? N/A

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: N/A
Note: Dollar values are in thousands

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

Describe the estimated future Capital, O&M, and/or Other benefits noted above: None required.

What functional area(s) will these benefits be reflected in? N/A

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

Is there an ARO associated with this project? No.
If yes, please provide details: N/A

Are there other environmental cleanup costs associated with this project? Due to the digging in the proximities of the substation, $2K has been included for soil sample and some contingency has been placed in the estimate in the event that cleanup is required.

Technical Justification:

Project Need Statement

A [redacted]

This project is necessary to build the required civil infrastructure to support distribution line project CD01107. The line project CD01107 is for [redacted]

The distribution line project CD01107 will include installing a new [redacted]

Project Objectives

This project has as objective to build the required civil infrastructure to support distribution line project CD01107. This includes the construction of one ([redacted]

Project Scope

This project includes the engineering and construction required for the [redacted]

[redacted]

A constructability review was completed on February 14, 2020 (see Attachment B). [redacted]

Engineering will be completed by Eversource resources and construction will be completed by contracted resources. [redacted] project CD01107.

Background / Justification

[redacted]

Business Process and / or Technical Improvements

This project will increase reliability.

Alternatives Considered with Cost Estimates:

Do nothing: [redacted]

Therefore, this project is necessary to satisfy the concerns stated in the Need Statement above.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
EPAC Approval	April - May 2020
Engineering	June 2020
Procurement	July 2020
Construction Start	August 2020
Construction Complete	September 30, 2020
Project Closeout	Q4 2020

Regulatory Approvals

None required

Risks and Risk Mitigation Plans

Contingency has been included to cover unforeseen obstructions, eventual environmental cleanup and weather delays.

References

CD01107_project_needs_statement.pdf

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

Attachment A - [redacted] - Install new manhole DME Rev 4
Attachment B - [redacted] – Install new manhole Constructability Form
Attachment C - [redacted] – Nomenclature Diagram
Attachment D - [redacted] – New Manhole proposal (002)

Project Checklist – Transmission and Substation

INSTRUCTIONS:
It is the responsibility of the initiator to contact the area disciplines to determine if the project considerations contained in this list are applicable to their project. They should fill out the checklist and determine a transition plan for the purpose of project execution.

Checklist for Studies and Processes of a Transmission & Substation Capital Project						
Project Name : New MH [redacted]					**Project ID Number: CS00374**	
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?					No	
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	
Are ISO-NE OP-24 Appendix B updates necessary?					No	

Checklist for Studies and Processes of a Transmission & Substation Capital Project	
Project Name: New MH [redacted]	**Project ID Number: CS00374**
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?	Estimate was prepared by Eversource Engineering
Who prepared the estimate?	[redacted]
Was the estimate reviewed by Eversource Estimating?	Yes - Partial Review

Cost Estimate Backup Details

Eversource Energy Estimate Overview and Cover Sheet

Project Title: [redacted] - Install new manhole

Prepared By: [redacted]

Project Mgr/Lead: TBD

Date of Est.: 02-24-2020

TAF / Project #: TBD

ISD: 008/31/2020

Estimate Number: TBD

Est. Type: SELECT via Drop Down)

Project Scope:

[redacted]

Civil:

[redacted]

Note:

[redacted]

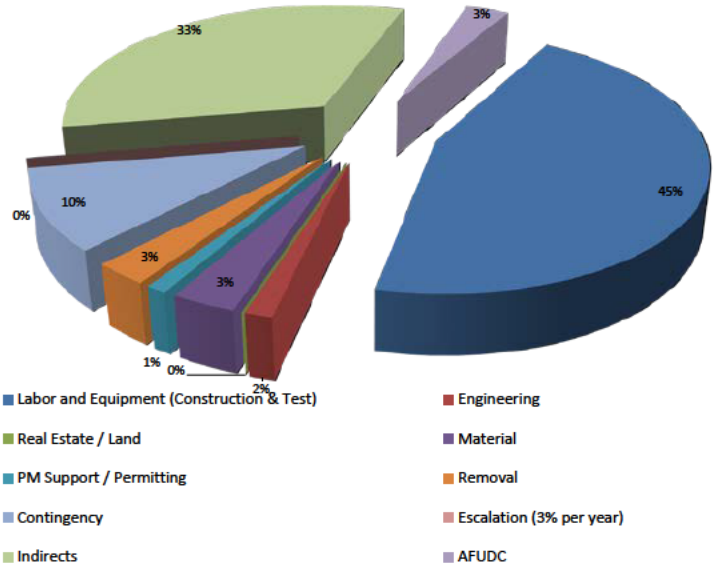
Assumptions:

Engineering to will be in-house, construction to be outsourced.
Assumed excavation method using machine.
No additional allowances have been added for aggressive outage recall times.
Estimate includes an average of 20% contingency on direct costs which equates to 10% contingency of total cost.
Contingencies are for unforseen issues such as underground obstructions.

2.1. Project Cost Summary

Labor and Equipment (Construction & Test)	$	131,920
Engineering	$	4,070
Real Estate / Land	$	-
Material	$	9,646
PM Support / Permitting	$	3,121
Removal	$	8,160
Contingency	$	29,550
Escalation (3% per year)	$	-
Indirects	$	96,098
AFUDC	$	9,014
Total Project Cost	**$**	**291,579**

10.1%



EVERSOURCE
Constructability Review Form

Submit a PDF copy of this signed form to TranEPAC@eversource.com along with the PAF

Project Number(s): CS00374	**Project Title:** [redacted] – Install new manhole
Date of Constructability Review: 02/14/2020	

Constructability Review Team: *list below the department and names of all who participated in the constructability review walkdown*

Lead*	Department	Name and Title
☐	Project Management	
☐	Operations	-
☒	Construction	[redacted] – Substation Construction Supervisor
☒	Engineering	[redacted] – Associate Engineer, [redacted] – Senior Engineer, [redacted] – Senior Engineering Designer

*Check the box of the individual who coordinated/led the constructability review

Observations/Findings/Scope Review/Risks Identified:
list below the outcome of the constructability review.

[redacted]

- Pictures and measurements were taken.

EVERSOURCE
Constructability Review Form

The Construction Services Supervisor, Engineer lead, or Project Manager must sign below.

[redacted]

Signature

3/13/2020

Date

[redacted]

Lead Engineer
Substation Engineering

