Operations Project Authorization Form

Date Prepared: August 2019	**Project Title: [redacted] Reliability Initiative**
Company/ies: CL+P	**Project ID Number: NWTMS18**
Organization: Electric Operations	**Class(es) of Plant: Distribution Line**
Project Initiator: [redacted]	**Project Category: Major Storm**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Capitalization of Storm Costs**
Estimated in service date: September 2019	**Capital Investment Part of Original Operating Plan?**
Total Request: $12.7M	**O&M Expenses Part of the Original Operating Plan?**

Executive Summary

From October 2017 through May of 2018, the circuits in the state of Connecticut assigned to the Newtown Area Work Center were subject to three (3) major storms. In particular, the National Weather Service confirmed that a series of violent microbursts struck several area towns, including Brookfield, Danbury, Monroe, Newtown, New Fairfield and surrounding communities. Tornados were confirmed to have touched down in the towns of Southbury and Oxford. All of these towns fall under the Newtown AWC jurisdiction. As a result CT Field Operations was left with a significant amount of post-storm restoration capital replacement work in the Newtown area that was required to re-build the existing infrastructure.

All circuits associated with the towns assigned to the Newtown Area Work center and the town of Bethany are included in the scope of work. Deficiencies to be remedied include unfused 1PH and 3Ph transformers, missing lightening arresters, damaged cross arms, pin/insulator issues, floating primary, vegetation issues, damaged poles, damaged poletops, guying/anchoring, defective transformers, hotline clamps and general temporary repair locations.

A ist of the of the towns impacted and cost of work required is as follows:

		TORNADO STATS	
TOWN	**TOTAL**	**CUST AFF**	**CMI**
BROOKFIELD	$ 1,317,431	11,881	57,334,211
SOUTHBURY	$ 1,348,191	19,234	55,824,078
NEW FAIRFIELD	$ 802,776	8,056	49,619,817
OXFORD	$ 770,529	9,149	28,164,042
SEYMOUR	$ 1,556,552	9,161	28,031,162
BETHANY	$ 1,103,230	2,862	10,984,859
BEACON FALLS	$ 274,265	4,868	10,913,103
WOODBURY	$ 1,228,431	5,334	9,313,477
BETHEL	$ 1,061,338	4,025	9,290,651
MONROE	$ 1,085,515	4,307	6,692,898
MIDDLEBURY	$ 113,738	2,531	3,208,190
SHERMAN	$ 353,890	1,086	2,959,552
REDDING	$ 1,366,241	1,017	1,854,991
BRIDGEWATER	$ 333,341	616	1,849,799
	$12,715,471	**84,127**	**276,040,830**

Project Costs Summary

	Prior Authorized	2019	2020	2021	Totals
Capital Additions - Direct	$0	$7,693,020	$0	$0	$7,693,020
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage _____%	$0	$0	$0	$0	$0
Total - Direct Spending	$0	$7,693,020	$0	$0	$7,693,020
Capital Additions - Indirect	$0	$4,797,921	$0	$0	$4,797,921
Subtotal Request	$0	$12,490,940	$0	$0	$12,490,940
AFUDC	$0	$224,531	$0	$0	$224,531
Total Capital Request	$0	$12,715,471	$0	$0	$12,715,471
O&M	$0	$0	$0	$0	$0
Total Request	$0	$12,715,471	$0	$0	$12,715,471

Financial Evaluation

Direct Capital Costs	**Year 1**	**Year 2**	**Year 3+**	**Total**
Straight Time Labor	$1,408	$0	$0	$1,408
Overtime labor	$2,128	$0	$0	$2,128
Outside Services	$7,635,898	$0	$0	$7,635,898
Materials	$53,586	$0	$0	$53,586
Other, including contingency amounts (describe)	$0	$0	$0	$0
Total Direct Costs	$7,693,020	$0	$0	$7,693,020

Indirect Capital Costs	**Year 1**	**Year 2**	**Year 3+**	**Total**
Indirects/Overheads (including benefits)	$4,797,921	$0	$0	$4,797,921
Capitalized interest or AFUDC, if any	$224,531	$0	$0	$224,531
Total Indirect Costs	$5,022,451	$0	$0	$5,022,451

Total Capital Costs	$12,715,471	$0	$0	$12,715,471
Less Total Customer Contribution	$0	$0	$0	$0
Total Capital Project Costs	$12,715,471	$0	$0	$12,715,471
Total O&M Project Costs	$0	$0	$0	$0
Total Project Costs	$12,715,471	$0	$0	$12,715,471

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:

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:

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:

Are there other environmental cleanup costs associated with this project? If yes, please provide details:

Technical Justification:

Project Need Statement

From October 2017 through May of 2018, the circuits in the state of Connecticut assigned to the Newtown Area Work Center were subject to three (3) major storms. In particular, the National Weather Service confirmed that a series of violent microburst struck area towns, to include Brookfield, Danbury, Monroe, Newtown, New Fairfield and surrounding communities. Tornados were confirmed to have touched down in the towns of Southbury and Oxford. All of these towns fall under the Newtown AWC jurisdiction. The heavily wooded town of Bethany borders this area as well and was also devastated by the storm, although it does not fall under the Newtown jurisdiction. Tree and vegetation damage were significant in Bethany and the rural communities that make up most of the Newtown area. This took a tremendous toll on over 110 circuits assigned to Newtown and resulted and numerous cases of temporary storm repairs left in the area after the departure of emergency crews and contractors.
The topographic location of the Newtown Area Work Center has also historically always been susceptible to storms and weather that move in to the area during any given time. All these issues combined have caused a degradation to the Electric Field Operating system and call for a special program to rehabilitate the current system.

Project Objectives

Identify deficiency pole locations for all circuits under the Newtown AWC and the town of Bethany through driving patrols and onsite line inspections. Make repairs to all locations identified and identify areas where future project improvements could help facilitate reliability.
Identify and install fused cutouts at all transformer locations associated with the Newtown Area Work Center and the town of Bethany. In rural and heavily wooded areas such as these, individual cutouts further narrow the ability of a single fault outage caused by vegetation or debris to negatively affect other customers on the system. Additional fuses locations also assist in more readily identifying the location of a fault and reducing the time it takes to repair a fault and restore power.

Project Scope

All circuits associated with the towns assigned to the Newtown Area Work center and the town of Bethany. Deficiencies to include unfused 1PH and 3Ph transformers, missing lightening arresters, damaged cross arms, pin/insulator issues, floating primary, vegetation issues, damaged pole, damaged poletop, guying/anchoring, defective transformers, hotline clamps and general temporary repair locations.

Background / Justification

Project and system improvements help drive overall Eversource CAIDI, SAIDI and MBI objectives inconjunction with other customer focused objectives.

Business Process and / or Technical Improvements:

Alternatives Considered with Cost Estimates

Project Schedule

Milestone/Phase Name	Estimated Completion Date

Regulatory Approvals

Risks and Risk Mitigation Plans

References

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