Operations Project Authorization Form

Date: November 16, 2021	**Project Title: ROW Priority 3 Poles**
Company/ies: Eversource CT	**Project ID Number: CD01867**
Organization: Distribution	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: ROW Lines**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: System Resiliency**
Estimated in service date: 12/31/2024	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted? Y	**Capital Investment Part of Original Operating Plan? Y**
Authorization Type: Preliminary Engineering	**O&M Expenses Part of the Original Operating Plan? Y**
Total Request: $4,300K	

Financial Requirements:

Project Authorization
ERM: _____

FP&A: _____

Executive Summary

Approximately 500 linear miles of Distribution ROW have been inspected by drones in Connecticut. The damage found has been recorded and prioritized. This project is being presented to secure funding to address 108 Priority 3 findings in 2024. The Priority 1 and Priority 2 poles were addressed in 2021 under project CD01678.

The drone inspections produced 4,765 findings mostly associated with broken / rotted poles and crossarms. All these locations were reviewed by Eversource's engineers and the prioritization was verified and/or corrected. Priority 3 ranking was given to 502 locations

The plan is to address the priority 3 locations over three years – 194 will be addressed under project CD01753 in 2022, 200 will be addressed under project CD01866 in 2023 and the remaining 108 will be addressed under this project in 2024.

Row Labels	2022	2023	2024	Grand Total
Central	97	143	30	270
Eastern	79	55	44	178
Western	18	2	34	54
Grand Total	194	200	108	502

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2024	2025	2026+	Totals
Capital Additions - Direct	$0	$2,288	$0	$0	$2,288
Removals net of Salvage ____%	$0	$535	$0	$0	$535
Total - Direct Spending	$0	$2,823	$0	$0	$2,823
Capital Additions - Indirect	$0	$1,248	$0	$0	$1,248
Subtotal Request	$0	$4,071	$0	$0	$4,071
AFUDC	$0	$81	$0	$0	$81
Total Capital Request	$0	$4,152	$0	$0	$4,152
O&M	$0	$148	$0	$0	$148
Total Request	$0	$4,300	$0	$0	$4,300

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	**Year 1**	**Year 2**	**Year 3+**	**Total**
Straight Time Labor	$78	$0	$0	$78
Overtime Labor	$16	$0	$0	$16
Outside Services	$2,329	$0	$0	$2,329
Materials	$395	$0	$0	$395
Other, including contingency amounts (describe)	$5	$0	$0	$5
Total Direct Costs	**$2,823**	**$0**	**$0**	**$2,823**

Indirect Capital Costs	**Year 1**	**Year 2**	**Year 3+**	**Total**
Indirects/Overheads (including benefits)	$1,248	$0	$0	$1,248
Capitalized interest or AFUDC, if any	$78	$0	$0	$78
Total Indirect Costs	**$1,326**	**$0**	**$0**	**$1,326**
Total Capital Costs	**$4,150**	**$0**	**$0**	**$4,150**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$4,150**	**$0**	**$0**	**$4,150**
Total O&M Project Costs	**$150**	**$0**	**$0**	**$150**

Total Project Cost	**$ 4,300**	**$ -**	**$ -**	**$ 4,300**

Technical Justification:

Project Need Statement
The priority 3 damages from the Drone Inspection need to be addressed in 2022, 2023 and 2024. The first 194 priority 3 issues will be addressed in 2022 under CD01753. Project CD01866 will address the next 200 priority 3 issues in 2023, while the remaining 108 will be addressed under this project in 2024.

Project Objectives
This project is being presented to gain approval to correct priority 3 defects along the inspected ROWs.

Project Scope
ROW inspection data collected by 2020 inspection yielded the scope of work for this three-year project. WRs will be written to correct 108 Priority 3 defects across the State – 30 will be corrected in the central region, 44 in the Eastern region and the remaining 34 in the Western region. The project will include detailed engineering designs to include accessing the ROW (defining entry points, creating roads, clear cutting brush, installing matting etc.), environmental mitigation, railroad permitting, landowner consent, tree trimming. If / when extensive work is needed to access the pole, the work orders will include changing out any Priority 4/5 or newly identified damaged poles along the access route. All ROW poles will be replaced with a Class 1 or larger steel poles.

Background / Justification
Due to accessibility issues at times, ROW line faults usually take quite a while to be repaired. ROW faults at the very least usually place a lot of customers in 'single contingency' – if not causing a complete outage. These drone inspections are capturing defects that often times are not easily seen from the ground. The priority 3 defects pose a threat to the affected circuit's reliability.

Business Process and / or Technical Improvements:
Being proactive and addressing these imminent dangers to Eversource's ROW circuits will result in improved reliability for these circuits, and the distribution system as a whole.

Alternatives Considered with Cost Estimates
Although doing nothing may be considered an option, due to the identified condition of the poles in the ROW action is required to repair and/or replace.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Design	October, 2023
Final Estimate	December, 2023

Milestone/Phase Name	Estimated Completion Date
Award & Construction Start	January, 2024
Construction Completion	December 2024

Regulatory Approvals
None

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	Low	Included higher number of defective pole replacements in estimate to reduce changes during design.
Construction resources / storm delays	2024	Medium	Use competitive bidding to ensure lowest outside labor cost. Bid early in the year to allow long construction period.
Materials shortage or long lead times	2024	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.

References
None

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