EVERSOURCE

Project Approval Form

Project Title: [redacted] Reconductoring	**Project Number: CD01946**
Date Prepared: 01/14/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** TRMSN DISTR RELIABILTY PERFRM
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: 12/31/2025	
Total Capital Request: $641K	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for $641K which is 106% of the partial funding estimate of $605K. CD01946 was partially approved on 3/31/2022. There is no scope change on the project. This project falls within the 15% threshold relative to the partial funding estimate and is being requested with no further changes anticipated.

The original project was presented as follows:

[redacted] *that have experienced nine outages in the last four years with all of them being tree related.*

This circuit was last trimmed in the 2018 but is scheduled for trimming in 2022. The majority of the poles are over 50 years old and in need of replacement.

[redacted]

In conjunction with tree trimming, project CD01946 proposes to [redacted]

[redacted]

1. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2025	2026	Year 3+	Total
Internal Labor and Construction Equipment	43.9	0.0	0.0	43.9
Outside Services	177.4	0.0	0.0	177.4
Materials	47.3	0.0	0.0	47.3
Removals	35.2	0.0	0.0	35.2
Risk and Contingency	44.7	0.0	0.0	44.7
Other	0.0	0.0	0.0	0.0
Subtotal	**348.5**	**0.0**	**0.0**	**348.5**

Indirect Capital Costs	2025	2026	Year 3+	Total
Indirects/Overheads (including benefits)	292.5	0.0	0.0	292.5
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	**292.5**	**0.0**	**0.0**	**292.5**

Total Capital Costs (Gross)	**641.0**	**0.0**	**0.0**	**641.0**

Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**

Project Costs (Net of Reimbursement)	**641.0**	**0.0**	**0.0**	**641.0**

2. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Outage History

[redacted]



b. Project Need

This project was established to address frequent outages on [redacted] in Mansfield, CT which impact [redacted] customers. There have been 9 outages in the last four years with five of them being in the last two years.

As a result of that, this project will replace [redacted] With additional expected tree trimming in 2022, this will help increase reliability and avoid future outages in this area.

c. Project Scope

The scope of this project is as follows:

- [redacted]
- Remove hazard trees.

Major Material:

- 11,050 ft. Single Phase 336 Tree Wire
- 52 Poles
- 3 Single Phase Radial Reclosers

3. Alternatives Considered

No alternatives were considered for this project.

4. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	March 2022
100% Detailed Engineering Completion	November 2023
Fully Funded	January 2025
In Service Date	December 2025

5. Regulatory Decisions

N/A

6. Codes and Standards

N/A

7. Risk and Contingencies

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2025	Medium	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Customer Permission / Siting Council / Municipal approvals	2025	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2025	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2024	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.

Storm delays	2025	Medium	If storm activity delays work, we may be forced to use external resources.

8. References

1. N/A

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

Attachment	Included in Submittal?
A1. Partial Funding PAF	*YES*
A. Cost Estimate	*YES*
B. System and Station One-Lines	*YES*
C. Geographic Map	*YES*

A1 – Partial Funding PAF:

Operations Project Authorization Form

Project Title: [redacted] **Reconductoring PAF**	**Project Number: CD01946**
Date Prepared: 03/31/2022	**Company:** Eversource CT
Organization: EFO	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category: Reliability**
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 12/31/2024	**Emergency Related Request?** Yes
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☑ Distribution
Total Gross Capital Request: $605K	**Authorization Type:** Initial Funding

Executive Summary

This project is being established to address the recurring outages on [redacted] in Mansfield. [redacted] that have experienced nine outages in the last four years with all of them being tree related.

This circuit was last trimmed in the 2018 but is scheduled for trimming in 2022. The majority of the poles are over 50 years old and in need of replacement.

[redacted]

In conjunction with tree trimming, project CD01946 proposes to [redacted]

[redacted]

Project Costs Summary

Capital Costs	2024	2025	2026+	Total
Internal Labor and Construction Equipment	$23	$0	$0	$23
Outside Services	$215	$0	$0	$215
Materials	$67	$0	$0	$67
Removals	$34	$0	$0	$34
Risk and Contingency	$29	$0	$0	$29
Other	$0	$0	$0	$0
Subtotal	**$369**	**$0**	**$0**	**$369**

Indirect Capital Costs	2024	2025	2026+	Total
Indirects/Overheads (including benefits)	$224	$0	$0	$224
Capitalized interest or AFUDC, if any	$12	$0	$0	$12
Subtotal	**$236**	**$0**	**$0**	**$236**
Total Capital Costs (Gross)	**$605**	**$0**	**$0**	**$605**

Technical Justification:

Project Need, Objective and Justification

This project was established to address frequent outages on [redacted] in Mansfield, CT which impact [redacted] customers. There have been 9 outages in the last four years with five of them being in the last two years.

As a result of that, this project will [redacted]

With these changes and expected tree trimming in 2022, it will help increase reliability and avoid future outages in this area.

Project Scope

The scope of this project is as follows:

- [redacted]

Major Material:

11,050 ft.	Single Phase 336 Tree Wire
52	Poles
3	Single Phase Radial Reclosers

Background

Outage History



Regulatory Approvals:

No

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	November 2023
Construction Start	January 2024
In Service Date	December 2024

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	Medium	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Customer Permission / Siting Council / Municipal approvals	2024	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2024	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2023	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2024	Medium	If storm activity delays work, we may be forced to use external resources.

References

No

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



[redacted] ONELINE Existing &



[redacted] Existing & Proposed



CD01946_project_needs_statement.pdf

A – Cost Estimate:

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01946 [redacted]

Work Classification

Category: Line
Type: REL1
Type Desc: RELIABILITY IMPROVE SPEC PROJ
Work Type:

Ownership / Management

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

Project Information

Status: Draft
SPS #:
AIS Score:
Associated Projects:
Assignment ID:
Patrol Find ID:

Budget Summary - Preferred Option

--- No Preferred Option Selected / Created ---

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01946 [redacted]

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	Reconductor the entire lateral	$617,877			$0.00	$0.00
2	Adding a second phase lateral [redacted] 1600F	$328,848			$0.00	$0.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01946 [redacted]

Background / Scope

Issue:

Project Description:

[redacted]

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:

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01946

[redacted]

External Stakeholders

Customer Impact / Involvement

Cust. Impacted:	Approx. Pole Count (NU):
Crit. Cust. Impacted:	Approx. Pole Count (Other):
Adjoining Property Owner Consent Required: ☐	Town Hearing Required: ☐
Other Utility Pole Custodian Area: ☐	Easement Required: ☐
State Highway Permit Required: ☐	

Relocation / New Service

New Srvc. Contact:	Requestor Type:
Customer Type:	State Highway Project #:
Request Number:	Route #:

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01946 [redacted]

Design Alternative CD01946-01

General Information

Segment: 1 - Reconductor the entire lateral Status: Draft

Segment Type: LATERAL REHAB Town: MANSFIELD Budget Year: 2023

Work Type: LT-Rehab+Recond Trimming Required: ☐ In Service Date: 12/31/2023

Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01946 [redacted]

Design Alternative CD01946-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$498,288
Contingency Amount:	$119,589
Estimate:	$617,877
Reimbursement:	$0
Net Amount:	**$617,877**
Description:	

Item Description	CU	[redacted]	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17		$3,509.60
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18		$30,000.00
TREE OH - Tree Trimming 2 miles of tree trimming estimated at $48K per mile	16-OH61		$96,000.00
POLE OH - POLE - 1ph (CL&P custodian) Additional 50% poles replacement	16-OH13		$74,984.00
SECTIONALIZE OH - Hydraulic Recloser - 1ph Install two single phase radial reclosers at pole 1751 on Gurleyville R	16-OH40		$13,710.40
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) Reconductor from pole 1808 to pole 1500 on Wormwood Rd with 336	16-OH25		$65,200.00
POLE OH - POLE - 1ph (CL&P custodian) Set a new pole b/w Mount Hope Rd & Warrenville Rd to tap onto fus	16-OH13		$2,884.00
OTHER OTHER Shifting 24 transformers $500 per transformer	16-ALL14		$12,000.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01946 [redacted]

Design Alternative CD01946-01

Associated / Impacted Devices

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

Reliability Projection

Title:

Outage Start Date: 2/24/2018 Outage End Date: 2/24/2022 Years History: 4.00

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01946 [redacted]

Design Alternative CD01946-02

General Information

Segment: 2 - Adding a second phase lateral 12J5-1600F Status: Draft

Segment Type: LATERAL REHAB Town: MANSFIELD Budget Year: 2023

Work Type: LT-Rehab+Recond Trimming Required: ☐ In Service Date: 12/31/2023

Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01946 [redacted]

Design Alternative CD01946-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$265,200
Contingency Amount:	$63,648
Estimate:	$328,848
Reimbursement:	$0
Net Amount:	**$328,848**

Description:

Item Description	CU	[redacted]	Amount
OH WIRE	16-OH25		$265,200.00
OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) Recondutoring 11,050 ft of 336 TW			

Associated / Impacted Devices

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

Reliability Projection

Title:

Outage Start Date: 1/1/2007 Outage End Date: 3/14/2022 Years History: 15.21

[redacted]







