EVERSOURCE

Project Approval Form

Project Title [redacted] Aerial Cable Replacement	**Project Number:** CD01977
Date Prepared: 02/13/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** RELIABILITY IMPROVE SPEC PROJ
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: 12/31/2022	
Total Capital Request: $5,510K	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $5,510K which is 64% of the partial funding estimate of $8,561K. The variance between the full funding and partial funding estimate is due to the underground portion of the project no longer being completed because the risers and underground cables were sufficient to carry the loads.

This project has been created to address [redacted]

2. Project Cost Summary

Financial Evaluation ($000's)

Capital Costs	2022 Actuals	2023 Actuals	2024 Estimate	Total
Internal Labor and Construction Equipment	68.3	8.1	0.0	76.4
Outside Services	1,726.4	204.8	0.0	1,931.1
Materials	996.8	118.2	0.0	1,115.1
Removals	608.6	72.2	0.0	680.7
Risk and Contingency	0.0	0.0	108.0	108.0
Other	-0.3	0.0	0.0	-0.3
Subtotal	**3,399.7**	**403.2**	**108.0**	**3,911.0**

Indirect Capital Costs	2022 Actuals	2023 Actuals	2024 Estimate	Total
Indirects/Overheads (including benefits)	1,434.7	29.7	0.0	1,464.5
Capitalized interest or AFUDC, if any	86.7	47.4	0.0	134.1
Subtotal	**1,521.4**	**77.1**	**0.0**	**1,598.5**
Total Capital Costs (Gross)	**4,921.2**	**480.3**	**108.0**	**5,509.5**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**4,921.2**	**480.3**	**108.0**	**5,509.5**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Improvement Summary:

[redacted]

[redacted]

b. Project Need

[redacted]

c. Project Scope

The project proposes the following:

[redacted]

Major Material

- 25,000’ 556 AL SC @30 kV (14A53)
- 12,000’ 750 AL AC @ 35 kV (14A51 & 14A53)
- 3710’ 556 Tree Wire @ 25 kV (37F2)
- 600’ 500 Cu @ 25 kV (37F2)

- 600’ 500 Cu @ 30 kV (14A53)
- 960’ 1000 Cu @ 30 kV (14A53)
- 145 50 Class 1 Poles
- 48 48 Class 1 Poles
- 29 40 Class 1 Poles
- 4 GOAB @ 34.5 kV
- 8 Disconnects
- 1 Manhole

4. Alternatives Considered

Project is a compliance obligation - no alternatives considered - no financial benefit

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
100% Engineering Completion	06/2022
Construction Start	11/2022
Testing/Commissioning	N/A
In-Service Date	12/2022

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022	Low	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Internal construction resources not available to perform the work.	2022	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost if necessary.
Internal engineering resources not available to perform the work.	2022	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost if necessary.
Materials shortage or long lead times	2022	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2022	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022	Medium	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods
Technological risks involving integration of new technology	2022	Low	Before use of new technology ensure support of standards and manufacture. Schedule project to accommodate for extra time or ensure new technology is not on the critical path.

9.

References
1. N/A

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Partial PAF	*YES*

A.

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01977
[redacted] Aerial Cable Replacement

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

Ownership / Management
AWC: Newtown
Statewide: No
Owner: [redacted]
Manager:

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

Budget Summary - Preferred Option Option 1

2022

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	Aerial Cable Replacement	Draft	0	20%	$8,379,060	$8,379,060
2	Reconductor [redacted] 336 & 4/0	Draft	0	20%	$368,145	$368,145
				2022 Total:	$8,747,205	$8,747,205
				Total Project:	$8,747,205	$8,747,205

B.

Operations Project Authorization Form

Project Title: [redacted] Aerial Cable Replacement	**Project Number:** CD01977
Date Prepared: 03/23/2022	**Company:** Eversource CT
Organization: Distribution Electric	**Class(es) of Plant:** D Line
Project Initiator [redacted]	**Project Category:** Reliability Improvement
Project Manage [redacted]	**Project Type:** Specific
Project Sponsor [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in-service date: 12/31/22	**Emergency Related Request?** Yes
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $8,561	**Authorization Type:** Initial Funding

Executive Summary

This project has been created to address [redacted]

[redacted]

Project Costs Summary

Note: Dollar values are in thousands

Direct Capital Costs	Year 2022	Year 2023	Year 2024+	Total
Internal Labor and Construction Equipment	$322	$0	$0	$322
Outside Services	$3,048	$0	$0	$3,048
Materials	$944	$0	$0	$944
Removals	$488	$0	$0	$488
Risk and Contingency	$416	$0	$0	$416
Other	$0	$0	$0	$0
Subtotal	**$5,219**	**$0**	**$0**	**$5,219**
Indirect Capital Costs	**Year 2022**	**Year 2023**	**Year 2024+**	**Total**
Indirects/Overheads (including benefits)	$3,169	$0	$0	$3,169

Capitalized interest or AFUDC, if any	$172	$0	$0	$172
Subtotal	**$3,341**	**$0**	**$0**	**$3,341**
Total Capital Costs (Gross)	**$8,561**	**$0**	**$0**	**$8,561**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Project Costs (Net)	**$8,561**	**$0**	**$0**	**$8,561**

Technical Justification:

Project Need, Objective and Justification

[redacted]

[redacted]

Project Scope

The project proposes the following:

[redacted]

[redacted]

Major Material

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Background

Improvement Summary:

[redacted]

Alternatives Considered:

Project is a compliance obligation - no alternatives considered - no financial benefit

Regulatory Approvals:

No

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	06/2022
Construction Start	11/2022
Testing/Commissioning	N/A
In-Service Date	12/2022

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
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References

NA

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

CD01977 - [redacted] - Geo Map.pdf

CD01997 - [redacted] - Oneline.pdf

CD01977_project_needs_statement.pdf