# Operations Project Authorization Form

| | |
|---|---|
| **Project Title:** [redacted] **ROW Relocation** | **Project Number: CD01307** |
| **Date Prepared:** 09/21/2023 | **Company:** Eversource CT |
| **Organization: Electric System Operations** | **Project Category:** Lines - ROW |
| **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: 12/30/2023** | |
| **Total Capital Request: $753.7K** | **Authorization Type:** Full Funding |

## 1. Executive Summary

This project has been requested by the Connecticut Department of Energy & Environmental Protection (DEEP) [redacted] The portion that is being relocated is in a narrow rock cut with a flowing stream that does not allow room for both a trail and pole line. In addition, people can stand over the rock cut and interfere with the aerial cable.

Project CD01307 was initially presented on April 4, 2019, and approved for $630K. However, the full funding request ($753.7K) reflects a 19.5% increase from its original estimate of ($630K) resulting from a revised increase per unit cost for labor, materials and additional outside services that were needed to address environmental matting, rock drilling and access.

## 2. Project Cost Summary

Note: Dollar values are in thousands.

## Financial Evaluation

| Capital Costs | 2022 | 2023 | Year 3+ | Total |
|---|---|---|---|---|
| Internal Labor and Construction Equipment | 8.1 | 5.2 | 0.0 | 13.3 |
| Outside Services | 173.4 | 112.3 | 0.0 | 285.7 |
| Materials | 181.9 | 0.0 | 0.0 | 181.9 |
| Removals | 37.4 | 24.2 | 0.0 | 61.7 |
| Risk and Contingency | 9.0 | 5.8 | 0.0 | 14.8 |
| Other | 2.0 | 1.3 | 0.0 | 3.2 |
| **Subtotal** | **411.6** | **147.6** | **0.0** | **560.5** |

| Indirect Capital Costs | 2022 | 2023 | Year 3+ | Total |
|---|---|---|---|---|
| Indirects/Overheads (including benefits) | 111.5 | 72.2 | 0.0 | 183.7 |
| Capitalized interest or AFUDC, if any | 5.8 | 3.8 | 0.0 | 9.6 |
| **Subtotal** | **117.3** | **76.0** | **0.0** | **193.2** |
| | | | | |
| **Total Capital Costs (Gross)** | **528.9** | **223.6** | **0.0** | **753.7** |
| | | | | |
| Less Total Customer Contribution | **0.0** | **0.0** | **0.0** | **0.0** |
| **Project Costs (Net of Reimbursement)** | **528.9** | **223.6** | **0.0** | **753.7** |

# 3.Technical Justification

## a. Background

[redacted] This section is a rock cut that has a stream, defined as wetlands, and Eversource facilities. Because of the depth of the rock cut the double circuit line is installed as aerial cable to avoid people standing over open wires. The small width of the rock cut, combined with the stream, limits the location of facilities if a trail were to be constructed. The purpose of this project is to get out of the [redacted]

## b. Project Need

[redacted]

**Project Objectives**

- [redacted]
- [redacted]

## c. Project Scope

- [redacted]

## 4. Alternatives Considered

**Alternatives were considered (please describe below)**

No alternatives were considered for this project because DEEP provided clear direction to Eversource to [redacted]. A non-practical alternative will be to do nothing but that wouldn't have fulfilled the request from DEEP.

## 5. Project Schedule

| Milestone/Phase Name | Estimated Completion Date |
|---|---|
| CPAC ENG Approval | 04/04/2019 |
| Project Rollout for PM and CE | 05/31/2019 |
| ACT Approval | 12/31/2019 |
| Construction Start | 06/01/2022 |
| Project Completion | 09/30/2023 |

## 6. Regulatory Decisions

No

## 7. Codes and Standards

## 8. Risk and Contingencies

| Risk Event | Risk Horizon | Likelihood of Occurrence | Risk Mitigation |
|---|---|---|---|
| Actual cost higher than estimated due to scope changes. | 2022-2023 | Low | 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 | 2022-2023 | Low | Design to minimize customer impact. Project Preplanning and customer/community outreach. |
| Internal construction resources not available to perform the work. | 2022-2023 | Low | 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. | 2019 | Low | Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost. |
| Materials Shortage or long lead times | 2022-2023 | Medium | Pre-order long lead time material; minimize the use of non-standard and non-stocked material. |
| Storm delays | 2022-2023 | Medium | If storm activity delays work, we may be forced to use external resources. |
| System abnormal configuration | 2022-2023 | Low | 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 | 2022-2023 | Low | Before use of new technology ensure support of standards and manufacturer. Schedule project to accommodate for extra time or ensure new technology is not on the critical path. |
| Wetlands / Environmentally sensitive area | 2022-2023 | High | Use of mats and specialty equipment, only work during certain times of the year. |

## 9. References

| References |
|---|
| |
| |
| |
| |
| |

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

| Attachment | Included in Submittal? |
|---|---|
| A. Project Need Statement | *YES* |
| B. Visio Air-Line Trail | *YES* |
| C. Load Summary | *YES* |
| D. [redacted] Pictures | *YES* |
| | |
| | |

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




Visio-[redacted] #1.pdf



IMG_1825.JPG




CD00315_project_needs_statement.pdf



Load%20Summary%20Airline%20trail.xlsx



IMG_1822.JPG



IMG_1820.JPG



IMG_1823.JPG

- *Attachment A*

Design Alternative CD00315-25

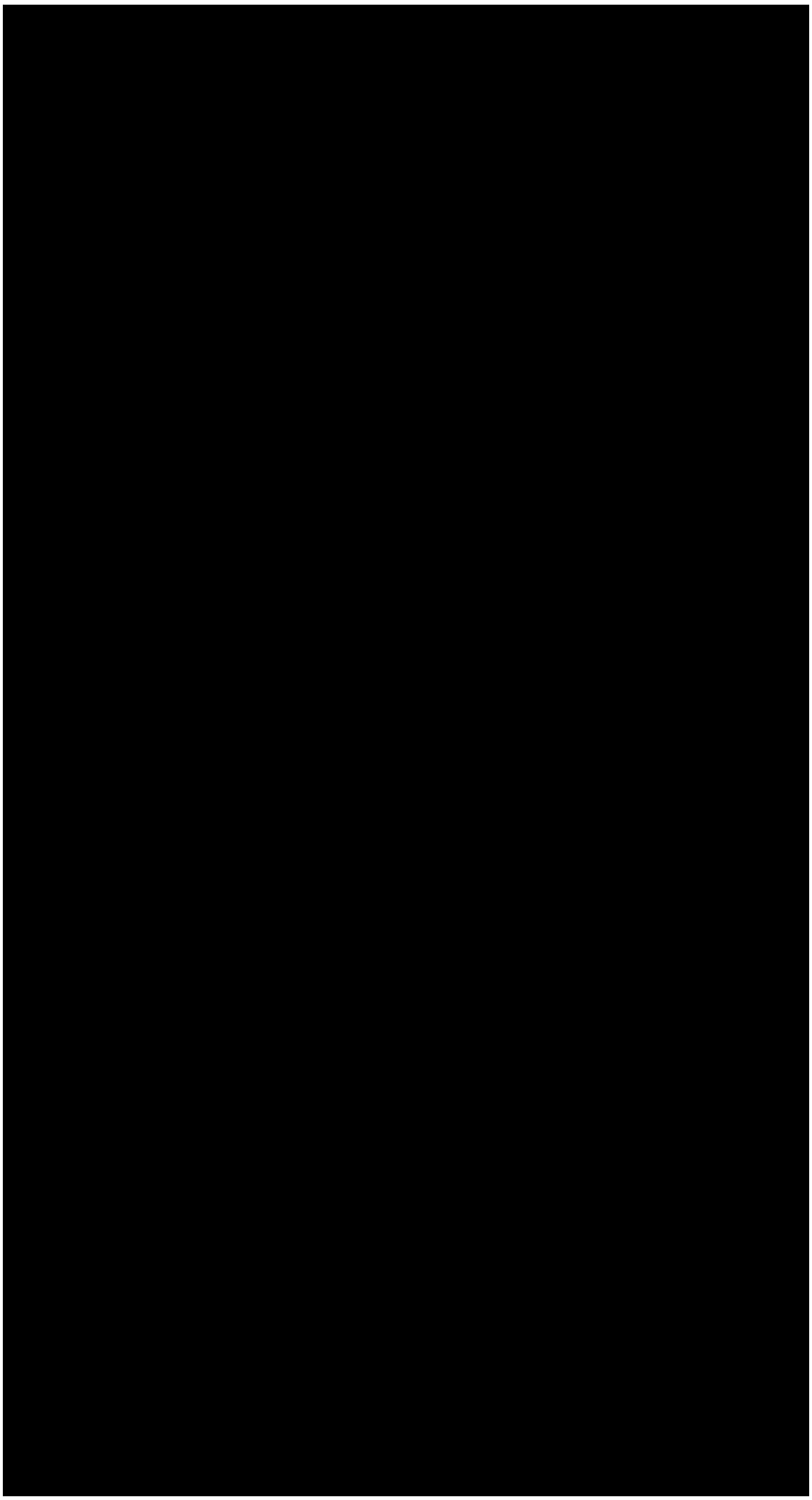
**Estimate**

Preliminary Estimate Summary

| | |
|---|---|
| Revision Number: | 0 |
| Contingency: | 24.00 % |
| SubTotal: | $508,606 |
| Contingency Amount: | $122,066 |
| Estimate: | $630,672 |
| Reimbursement: | $0 |
| Net Amount: | **$630,672** |
| Description: | |

| Item Description | CU | $ / Per | Qty | Amount |
|---|---|---|---|---|
| POLE<br>OH - POLE - 3ph (CL&P custodian) | 16-OH14 | [redacted] | | $46,760.00 |
| SECTIONALIZE<br>OH - Cutouts or Arresters - 1ph | 16-OH19 | | | $6,856.00 |
| SECTIONALIZE<br>OH - Cutouts or Arresters - 3ph | 16-OH20 | | | $4,630.40 |
| OH WIRE<br>OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil | 16-OH27 | | | $178,480.00 |
| OH WIRE<br>OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil | 16-OH27 | | | $23,280.00 |
| OH WIRE<br>OH - Line Extension - 3ph (556 kcmil) | 16-OH34 | | | $114,000.00 |
| OH WIRE<br>OH - Remove circuit wire (3 phase) | 16-OH37A | | | $9,600.00 |
| OTHER<br>OTHER<br>overbuild [redacted] | 16-ALL14 | | | $125,000.00 |

- Attachment B



- Attachment C



EVERSOURCE

Project Approval Form

# Operations Project Authorization Form

| | |
|---|---|
| **Date Prepared: 06/04/19** | **Project Title: [redacted] ROW Relocation** |
| **Company/ies: Eversource CT** | **Project ID Number: CD01307** |
| **Organization: Distribution Design** | **Class(es) of Plant: Distribution** |
| **Project Initiator: [redacted]** | **Project Category: Line Relocation** |
| **Project Manager: [redacted]** | **Project Type: Specific** |
| **Project Sponsor: [redacted]** | **Project Purpose: State Request** |
| **Estimated in service date: 12/31/2020** | **If Transmission Project: PTF? N/A** |
| **Eng. /Constr. Resources Budgeted? Y** | **Capital Investment Part of Original Operating Plan? Y** |
| **Authorization Type: ENG** | **O&M Expenses Part of the Original Operating Plan? Y** |
| **Total Request: $630,600** | |

## Financial Requirements:

**Project Authorization**

ERM: _____

FP&A: _____

**Executive Summary**

This project has been requested by the Connecticut Department of Energy & Environmental Protection (DEEP) [redacted]. The portion that is being relocated is in a narrow rock cut with a flowing stream that does not allow room for both a trail and pole line. In addition, people can stand over the rock cut and interfere with the aerial cable. The cost of the relocation will be borne by the State as they are the owner of the [redacted]

**Project Costs Summary**

*Note: Dollar values are in thousands*

| | Prior Authorized | 2020 | 20__ | 20__+ | Totals |
|---|---|---|---|---|---|
| Capital Additions - Direct | $0 | $360 | $0 | $0 | $360 |
| Less Customer Contribution | $0 | $0 | $0 | $0 | $0 |
| Removals net of Salvage ____% | $0 | $9 | $0 | $0 | $9 |
| Total - Direct Spending | $0 | $368 | $0 | $0 | $368 |
| Capital Additions - Indirect | $0 | $231 | $0 | $0 | $231 |
| Subtotal Request | $0 | $599 | $0 | $0 | $599 |
| AFUDC | $0 | $7 | $0 | $0 | $7 |
| Total Capital Request | $0 | $606 | $0 | $0 | $606 |
| O&M | $0 | $24 | $0 | $0 | $24 |
| Total Request | $0 | $630 | $0 | $0 | $630 |

**Financial Evaluation**

*Note: Dollar values are in thousands*

| Direct Capital Costs | Year 1 | Year 2 | Year 3+ | Total |
|---|---|---|---|---|
| Straight Time Labor | $55 | $0 | $0 | $55 |
| Overtime Labor | $15 | $0 | $0 | $15 |
| Outside Services | $47 | $0 | $0 | $47 |
| Materials | $250 | $0 | $0 | $250 |
| Other, including contingency amounts (describe) | $1 | $0 | $0 | $1 |
| **Total Direct Costs** | **$368** | **$0** | **$0** | **$368** |

| Indirect Capital Costs | Year 1 | Year 2 | Year 3+ | Total |
|---|---|---|---|---|
| Indirects/Overheads (including benefits) | $231 | $0 | $0 | $231 |
| Capitalized interest or AFUDC, if any | $7 | $0 | $0 | $7 |
| **Total Indirect Costs** | **$238** | **$0** | **$0** | **$238** |
| | | | | |
| **Total Capital Costs** | **$606** | **$0** | **$0** | **$606** |
| | | | | |
| Less Total Customer Contribution | **$0** | **$0** | **$0** | **$0** |
| | | | | |
| **Total Capital Project Costs** | **$606** | **$0** | **$0** | **$606** |
| | | | | |
| **Total O&M Project Costs** | **$24** | **$0** | **$0** | **$24** |

| | | | | |
|---|---|---|---|---|
| **Total Project Cost** | **$ 630** | **$ -** | **$ -** | **$ 630** |

*Note: Explain unique payment provisions, if applicable*

EVERSOURCE

# Project Approval Form

**Technical Justification:**

**Project Need Statement**

At the request of the Connecticut Department of Energy and Environmental Protection (DEEP), Eversource will [redacted].
There are wetland, access, and clearance issues with this portion of the trail.

**Project Objectives**

[redacted]

**Project Scope**

Install new 3 phase backbone 556 TW double circuit.

**Background / Justification**

The [redacted] This section is a rock cut that has a stream, defined as wetlands, and Eversource facilities. Because of the depth of the rock cut the double circuit line is installed as aerial cable to avoid people standing over open wires. The small width of the rock cut, combined with the stream, limits the location of facilities if a trail were to be constructed. [redacted]

**Business Process and / or Technical Improvements**:
Will help improve access to Eversource's equipment in a very wet and difficult area to access at certain times of the year.

**Alternatives Considered with Cost Estimates**

Stay in the ROW and install 55+ foot poles to get above the rock cut.

**Project Schedule**

| Milestone/Phase Name | Estimated Completion Date |
|---|---|
| CPAC ENG Approval | 04/04/2019 |
| Project Rollout for PM and CE | 05/31/2019 |
| ACT Approval | 12/31/2019 |
| Construction Start | 06/01/2020 |

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# Project Approval Form

| Milestone/Phase Name | Estimated Completion Date |
|---|---|
| Project Completion | 12/31/2020 |

## Regulatory Approvals

None

## Risks and Risk Mitigation Plans

None needed. State is working with the town.

## References

None

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

## Cost Estimate Backup Details

**Budget Summary - Preferred Option** — Remove [redacted] ut of the R.O.W

2020

| ID | Title | Status | Rev # | Contingency | Expenditure Amount | Net Estimate |
|---|---|---|---|---|---|---|
| 1 | Remove [redacted] out of the R.O.W | Draft | 0 | 24 % | $630,672 | $630,672 |
| | | | | **2020 Total:** | **$630,672** | **$630,672** |
| | | | | Total Project: | **$630,672** | **$630,672** |

Visio-[redacted] #1.pdf
IMG_1825.JPG
CD00315_project_needs_statement.pdf
Load%20Summary%20Airline%20trail.xlsx
IMG_1822.JPG
IMG_1820.JPG
IMG_1823.JPG