EVERSOURCE
Project Authorization Form

Project Title: [redacted] TDRP	**Project Number: CD01644**
Date Prepared: 07/09/2024	**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:** No
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: $389.9K	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of **$389.9K** which is 86.4% of the partial funding capital estimate of $451.2K. There is no scope change on the project. This project falls within the 15% threshold relative to the partial funding request and is therefore being requested for full funding approval with no further changes in cost anticipated.

The Original Project was presented as follows:

- *Transmission-Distribution Reliability Performance (TDRP) projects address reliability issues associated with the worst performing circuits in Connecticut. In doing so, Eversource-CT maintains compliance with Docket 86-12-03. Eversource-CT is required to report the status of actions taken to improve performance for each circuit topping the worst performing circuit list. Updates are required each year for the four years following a circuit's appearance on the list.*

[redacted]

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2022 - 2024	Total
Direct Capital Costs		
Internal Labor and Construction Equipment	$31,475	$31,475
Outside Services	$48,939	$48,939
Materials	$114,040	$114,040
Removals	$25,093	$25,093
Risk and Contingency	$27,200	$27,200
Other	$1,702	$1,702
Subtotal – Direct Costs	**$248,450**	**$248,450**
Indirect Capital Costs		
Indirect/Overheads (including benefits)	$141,420	$141,420
Capitalized interest or AFUDC, if any	$0	$0
Subtotal – Indirect Costs	**$141,420**	**$141,420**
Total Gross Capital Costs	**$389,871**	**$389,871**
Customer Contribution	**$0**	**$0**
Total Net Capital Project Costs	**$389,871**	**$389,871**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

This project is being done as part of the Transmission and Distribution Reliability Program (TDRP). The [redacted]

[redacted]

[redacted]

[redacted]

[redacted]

This table displays the [redacted]

Row Labels	Sum of Customer [redacted]	m of Customer Minutes	Count of Device	% Cust Affected	% CM
[redacted]		733546	2	2%	4%
		1013370	7	4%	6%
		1742036	9	6%	10%
		678038	8	16%	4%
		48745	4	2%	0%
		418462	1	3%	2%
		1798540	7	17%	10%
		1139901	9	11%	6%
		7572638	47	63%	44%

b. Project Need

This project addresses two [redacted]

c. Project Scope

The preferred options will be split into two major segments.

[redacted]

Major Material:

- 3 - 3-phase reclosers
- 600 feet 556 SC
- 300A Disconnect Switch

4. Alternatives Considered

Alternative 1: [redacted]

[redacted]

Alternative 2: [redacted]

[redacted]

Alternative 3: Sectionalize and Tie with [redacted]

[redacted]

5. Project Schedule

Milestone/Phase Name	Estimated Date
WO written	6/01/2021
Construction Complete	12/31/2022

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.
Customer Permission / Siting Council / Municipal approvals	2022	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
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.
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.
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	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022	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	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	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

N/A

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

Attachment	Included in Submittal?
A. Partial Funding PAF	*Yes*
B. Project Needs Statement	*Yes*
C. Geographic Map	*Yes*
D. System and Station One-Lines	*Yes*

Attachment A: Partial Funding PAF

Operations Project Authorization Form

Date Prepared: 11/01/20	**Project Title: [redacted] TDRP**
Company/ies: Eversource CT	**Project ID Number: CD01644**
Organization: Distribution Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Line**
Project Manager: [redacted]	**Project Type: TDRP**
Project Sponsor: [redacted]	**Project Purpose: Removal of de-energized facilities**
Estimated in service date: 12/31/2022	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted?	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Partial funding	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $451,194	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

Transmission-Distribution Reliability Performance (TDRP) projects address reliability issues associated with the top Worst 100 circuits in Connecticut. In doing so, Eversource-CT maintains compliance with Docket 86-12-03. Eversource-CT is required to report the status of actions taken to improve performance for each circuit topping the “Worst 100” list. Updates are required each year for the four years following a circuit’s appearance on the list.

[redacted]

[redacted]

Project Costs Summary
Note: Dollar values are in thousands

	Prior Authorized	20__	20__	20__+	Totals
Capital Additions - Direct	$0	$253	$0	$0	$253
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$23	$0	$0	$23
Total - Direct Spending	$0	$276	$0	$0	$276
Capital Additions - Indirect	$0	$160	$0	$0	$160
Subtotal Request	$0	$435	$0	$0	$435
AFUDC	$0	$3	$0	$0	$3
Total Capital Request	$0	$439	$0	$0	$439
O&M	$0	$13	$0	$0	$13
Total Request	$0	$451	$0	$0	$451

Financial Evaluation
Note: Dollar values are in thousands

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$33	$0	$0	$33
Overtime Labor	$3	$0	$0	$3
Outside Services	$142	$0	$0	$142
Materials	$94	$0	$0	$94
Other, including contingency amounts (describe)	$4	$0	$0	$4
Total Direct Costs	**$276**	**$0**	**$0**	**$276**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$160	$0	$0	$160
Capitalized interest or AFUDC, if any	$3	$0	$0	$3
Total Indirect Costs	**$163**	**$0**	**$0**	**$163**
Total Capital Costs	**$439**	**$0**	**$0**	**$439**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$439**	**$0**	**$0**	**$439**
Total O&M Project Costs	**$13**	**$0**	**$0**	**$13**
Total Project Cost	**$ 451**	**$ -**	**$ -**	**$ 451**

Note: Explain unique payment provisions, if applicable

Technical Justification:

Project Need Statement

[redacted]

[redacted]

[redacted]

Project Objectives

This project aims to increase the reliability of the circuit, decrease the number of outage events on the circuit, and decrease the customer minutes experienced during an event. This will prevent customers [redacted]

Project Scope

The preferred options will be split into three major segments.

[redacted]

Major Material:

- 3 - 3-phase reclosers

- 600 feet 556 SC
- 300A Disconnect Switch

Background / Justification

[redacted]

[redacted]

[redacted]

[redacted]

This table displays the [redacted]

Row Labels	Sum of Customer Affected Count	Sum of Customer Minutes	Count of Device	% Cust Affected	% CM
[redacted]		733546	2	2%	4%
		1013370	7	4%	6%
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		678038	8	16%	4%
		48745	4	2%	0%
		418462	1	3%	2%
		1798540	7	17%	10%
		1139901	9	11%	6%
		7572638	47	63%	44%

Alternatives Considered with Cost Estimates



Note: Segment 2 was overriding to 63% by using a ratio of the potential customers saved.

[redacted]

Project Schedule

Milestone/Phase Name	Estimated Completion Date
CPAC	1/14/2021
WO written	6/01/2021
ACT	12/31/2021
Construction Complete	12/31/2022

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


[redacted]TDRP.xlsx


ONELINE.pdf


ONELINE.vsdx


[redacted]LOAD SHEET.xlsx


Device Reliability_[redacted]9.xls›


[redacted] FAULT MAP.vsdx


[redacted]FAULT MAP.pdf


CD01615_project_needs_statement.pdf

Attachment B: Project Needs Statement

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644

[redacted]DRP

Work Classification		Ownership / Management	
Category:	Line	AWC:	Danielson
Type:	REL1	Statewide:	No
Type Desc:	RELIABILITY IMPROVE SPEC PROJ	Owner:	[redacted]
Work Type:		Manager:	[redacted]

Project Information

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

Budget Summary - Preferred Option

Sectionalize and tie with [redacted] sectionalize Slater Hill Rd

2022

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
2	Sectionalize [redacted]	Draft	0	28%	$146,123	$146,123
6	Sectionalize and tie with [redacted]	Draft	0	28%	$305,072	$305,072
				2022 Total:	$451,195	$451,195
				Total Project:	$451,195	$451,195

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644 [redacted] DRP

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Sectionalize and tie with [redacted] sectionalize [redacted]	2,6	$451,195	$0	100%	$127.80	$3.07	☑
O2	Alternative 1: recon BB [redacted]	3	$2,093,102	$0	100%	$669.76	$26.89	☐
O3	Alternative 2: recon [redacted]	4	$1,237,102	$0	100%	$573.48	$18.43	☐
O4	Alternative 3: Sectionalize and tie with [redacted]	1	$1,240,730	$0	100%	$575.40	$4.82	☐

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	Alternative 3 Sectionalize and Tie with	$1,240,730			$484.23	$4.81
2	Sectionalize [redacted]	$146,123			$50.46	$3.50
3	Alternative 1: Reconductor Bare BB w/TW	$2,093,102			$255.61	$20.24
4	Alternative 2 Reconductor [redacted]	$1,237,102			$572.88	$18.41
5	[redacted] Upgrade	$120,235			$0.00	$0.00
6	Sectionalize and tie with [redacted]	$305,072			$6.47	$2.01
7	[redacted] Upgrade	$128,582			$0.00	$0.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644

[redacted] TDRP

Background / Scope

Issue:

The [redacted]rcuit experiences frequent outages in two heavily treed areas. Both of these areas include a large radial seciton.

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:

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 #: CD01644 [redacted]RP

Design Alternative CD01644-01

General Information

Segment: 1 - Alternative 3 Sectionalize and Tie with
Status: Draft
Segment Type: SECTIONALIZING - OH
Town: KILLINGLY
Budget Year: 2022
Work Type: BB-Sctnlzng-Rclsrs+Recond
Trimming Required: ☐
In Service Date: 12/31/2021
Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

Connecticut Light & Power
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Specific Project Proposal - Project #: CD01644

[redacted]TDRP

Design Alternative CD01644-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$969,320
Contingency Amount:	$271,410
Estimate:	$1,240,730
Reimbursement:	$0
Net Amount:	**$1,240,730**
Description:	Sectionalaize and Tie with 14M8

Item Description	CU	$ / Per	Qty	Amount
SECTIONALIZE OH - Recloser Control - setting changes only [redacted]o become[redacted]-- RR to SR at pole 1945 14M8	16-OH39A	[redacted]		$9,771.20
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 5 percent of 1,166,099	16-ALL18	[redacted]		$58,305.00
OH WIRE OH - Line Extension - 1ph (any gauge) Fill gap between 3504 and 1878 to connect [redacted]	16-OH32			$36,000.00
TREE OH - Tree Trimming [redacted] to Reconductoring area or [redacted]3 miles @30,000/mile	16-OH61	[redacted]		$90,000.00
XF OH - OH XF - 1ph Replace 4.8kv xfmr's on [redacted]being reconductored	16-OH45	[redacted]		$27,424.80
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil [redacted]pole 2032 to pole 258	16-OH27			$651,840.00
SECTIONALIZE OH - Recloser - 3ph TR @ pole[redacted]- TR @ pole 693[redacted]	16-OH38			$95,979.20

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644
[redacted] DRP

Design Alternative CD01644-01

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	693 KILLINGLY	[redacted]	[redacted]	[redacted]	
Existing	[redacted]	[redacted]	170 KILLINGLY	[redacted]	[redacted]	[redacted]	

Reliability Projection

Title:

Outage Start Date: 12/3/2016 Outage End Date: 12/3/2020 Years History: 4.00

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644
[redacted]TDRP

Design Alternative CD01644-02

General Information

Segment: 2 - Sectionalize Slater Hill Rd and North Rd Status: Draft

Segment Type: SECTIONALIZING - OH Town: KILLINGLY Budget Year: 2022

Work Type: BB-Sctnlzng-Reclosers Trimming Required: ☐ In Service Date: 12/31/2021

Description [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644

[redacted] TDRP

Design Alternative CD01644-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$114,158
Contingency Amount:	$31,964
Estimate:	$146,123
Reimbursement:	$0
Net Amount:	**$146,123**
Description:	Sectionalize Slater Hill Rd and North Rd

Item Description	CU	$ / Per	Qty	Amount
SECTIONALIZE OH - Recloser Control - setting changes only [redacted] 4000 [redacted] pole 4034 to SS	16-OH39A	[redacted]	[redacted]	$4,885.60
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph Add on 300A disconnect switch at pole 1175	16-OH43			$10,283.20
TREE OH - Tree Trimming [redacted] to TR 1.7miles @30,000/mile	16-OH61			$51,000.00
SECTIONALIZE OH - Recloser - 3ph [redacted] pole 61	16-OH38			$47,989.60

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	4034 KILLINGLY	[redacted]		[redacted]	

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644
[redacted] DRP

Design Alternative CD01644-02

Reliability Projection

Title:

Outage Start Date: 12/3/2016 Outage End Date: 12/3/2020 Years History: 4.00

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644

[redacted] DRP

Design Alternative CD01644-03

General Information

Segment: 3 - Alternative 1: Reconductor Bare BB w/TW
Status: Prelim Design Submitted
Segment Type: BACKBONE REHAB
Town: KILLINGLY
Budget Year: 2022
Work Type: BB-Reconductoring
Trimming Required: ☐
In Service Date: 12/31/2021
Description: Reconductor remaining bare backbone on [redacted] circuit. Various upgrades and tree trimming included.

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644 [redacted]DRP

Design Alternative CD01644-03

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$1,635,236
Contingency Amount:	$457,866
Estimate:	$2,093,102
Reimbursement:	$0
Net Amount:	**$2,093,102**
Description:	Reconductor bare wire BB Rt 101.

Item Description	CU	$ / Per	Qty	Amount
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	[redacted]		$60,000.00
POLE OH - POLE - 3ph (CL&P custodian) 50% of 112 poles is covered during reconductoring	16-OH14			$261,856.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil Reconductor [redacted]	16-OH27			$1,313,380.00

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]		2153 KILLINGLY	[redacted]		[redacted]	

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644
[redacted] DRP

Design Alternative CD01644-03

Reliability Projection

Title:

Outage Start Date: 12/3/2016 Outage End Date: 12/3/2020 Years History: 4.00

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644 [redacted]TDRP

Design Alternative CD01644-04

General Information

Segment: 4 - Alternative 2 Reconductor [redacted] Status: Draft

Segment Type: RECONDUCTORING - OTHER Town: KILLINGLY Budget Year: 2022

Work Type: LT-Reconductoring Trimming Required: ☐ In Service Date: 12/31/2021

Description: Reconductor [redacted] to single phase transition at pole 2591.

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644

[redacted] DRP

Design Alternative CD01644-04

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$966,486
Contingency Amount:	$270,616
Estimate:	$1,237,102
Reimbursement:	$0
Net Amount:	**$1,237,102**
Description:	

Item Description	CU	$ / Per	Qty	Amount
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	[redacted]		$57,500.00
POLE OH - POLE - 3ph (CL&P custodian) 50% of 60 poles is covered during reconductoring	16-OH14			$140,280.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil Reconductor [redacted] to single phase transition @pole 2591.	16-OH27			$768,705.60

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	2497 KILLINGLY	[redacted]		0	

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644
[redacted]TDRP

Design Alternative CD01644-04

Reliability Projection

Title:

Outage Start Date: 12/3/2016 Outage End Date: 12/3/2020 Years History: 4.00

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644
[redacted] DRP

Design Alternative CD01644-05

General Information

Segment: 5 - [redacted] Upgrade
Status: Cancelled
Segment Type: SECTIONALIZING - OH
Town: KILLINGLY
Budget Year: 2022
Work Type: LT-Sctnlzng-Fuses
Trimming Required: ☐
In Service Date: 12/31/2021
Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644

[redacted] TDRP

Design Alternative CD01644-05

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$93,933
Contingency Amount:	$26,301
Estimate:	$120,234
Reimbursement:	$0
Net Amount:	**$120,235**
Description:	

Item Description	CU	$ / Per	Qty	Amount
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 5% of 113,000	16-ALL18	[redacted]		$5,650.00
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph Add on 300A disconnect switch at pole 1175.	16-OH43			$10,283.20
TREE OH - Tree Trimming [redacted] to end = 2.6 miles @30,000/mile	16-OH61			$78,000.00

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	2497 KILLINGLY	[redacted]		0	

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644
[redacted] TDRP

Design Alternative CD01644-05

Reliability Projection

Title:

Outage Start Date: 12/3/2016 Outage End Date: 12/3/2020 Years History: 4.00

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644
[redacted]TDRP

Design Alternative CD01644-06

General Information

Segment: 6 - Sectionalize and tie with [redacted] Status: Draft

Segment Type: SECTIONALIZING - OH Town: KILLINGLY Budget Year: 2022

Work Type: BB-Sctnlzng-Reclosers Trimming Required: ☐ In Service Date: 12/31/2021

Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644 [redacted] TDRP

Design Alternative CD01644-06

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$238,338
Contingency Amount:	$66,735
Estimate:	$305,072
Reimbursement:	$0
Net Amount:	**$305,072**
Description:	

Item Description	CU	$ / Per	Qty	Amount
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	[redacted]		$15,000.00
TREE OH - Tree Trimming 500/per pole where convrting to crossarm construction	16-OH61			$6,500.00
OH WIRE OH - Reconductor w/Spacer Cable - 556 kcmil 556 SC will be run on [redacted] between pole 172 to pole 868.	16-OH29			$68,812.80
SECTIONALIZE OH - Recloser Control - setting changes only Change [redacted] to two way tie.	16-OH39A			$4,885.60
POLETOP OH - Change Armless poletop to Xarm poletop - 3ph Change armless to crossarm on [redacted] includes north of fuse pole 693). Some include rubber tie	16-OH17			$17,825.60
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph Install 900A disconnect at pole 167.	16-OH43			$10,283.20
POLE OH - POLE - 3ph (CL&P custodian) Install pole in ROW to support and raise double circuit ROW cables to accomidate SC below.	16-OH14			$4,676.00
SECTIONALIZE OH - Recloser - 3ph Move [redacted] to Pole D966 (ROW) and change to SR. Replace [redacted] with MR.	16-OH38	[redacted]		$95,979.20
POLE OH - JUNCTION POLE - 3ph (CL&P custodian) Pole 172 work with phone company	16-OH14A	[redacted]		$11,690.40

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Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644

[redacted] TDRP

Design Alternative — CD01644-06

OH WIRE OH - Remove circuit wire (3 phase) remove existing 3-phase between [redacted] and ROW	16-OH37A	[redacted]	$1,280.00
POLETOP OH - Replace wood xarm with composite xarm - 3ph Replace crossarm D1072 in ROW	16-OH17A		$1,404.80

Associated / Impacted Devices

Status	Type / SwcID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	170 KILLINGLY	[redacted]		839	
Existing			PUTNAM			2523	
Existing			D1073 KILLINGLY			2523	

Reliability Projection

Title:

Outage Start Date: 12/3/2016 Outage End Date: 12/3/2020 Years History: 4.00

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644

[redacted]TDRP

Design Alternative CD01644-07

General Information

Segment: 7 - [redacted]Upgrade Status: Cancelled

Segment Type: BACKBONE REHAB Town: KILLINGLY Budget Year: 2022

Work Type: BB-Rehab Trimming Required: ☐ In Service Date: 12/31/2021

Description: This incudes the radial backbone section of [redacted]of the [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

Connecticut Light & Power
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Specific Project Proposal - Project #: CD01644 [redacted]TDRP

Design Alternative CD01644-07

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$100,454
Contingency Amount:	$28,127
Estimate:	$128,582
Reimbursement:	$0
Net Amount:	**$128,582**
Description:	

Item Description	CU	$ / Per	Qty	Amount
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	[redacted]		$6,000.00
POLETOP OH - Change Armless poletop to Xarm poletop - 3ph	16-OH17			$16,454.40
TREE OH - Tree Trimming 2.6 miles @ 30k/mile	16-OH61			$78,000.00

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]	693 KILLINGLY	[redacted]		[redacted]	

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01644
14M39 TDRP

Design Alternative CD01644-07

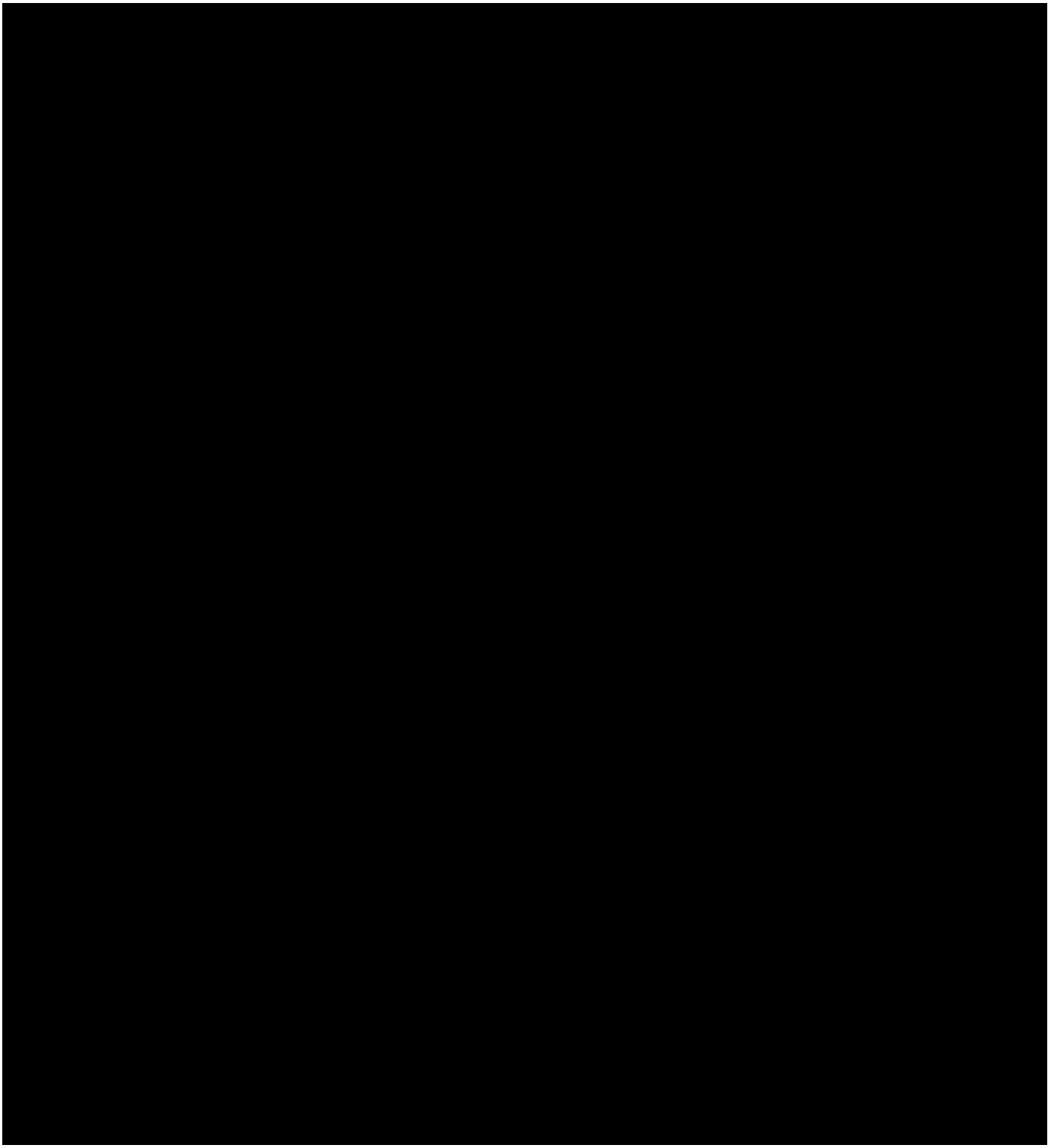
Reliability Projection

Title:

Outage Start Date: 12/3/2016 Outage End Date: 12/3/2020 Years History: 4.00

[redacted]

Attachment C: Geographic Map



Attachment D: One Lines

