EVERSOURCE

Project Approval Form

Project Title: [redacted]	**Project Number: CD01882**
Date Prepared: 01/18/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SMART SWITCHES PROGRAM
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: 12/31/2024	
Total Capital Request: $443.6K	**Authorization Type:** Full Funding

1. Executive Summary:

This project is being established to address the [redacted]

The total capital cost of this proposal which includes the first and second proposals is $443,622.00 and has a cost per minute saved of $1.22. This project has an in-service date of 12/31/2024.

- Division: Western
- District: Torrington
- City: Canton, New Hartford

Initial Funding Estimate vs. Bid Document:

The bid amount of $443,622 was 96% in cost as compared to the partial funding estimate amount of $460,000 for the Canton 5R1 Smart Switch Project. The overall difference between partial funding estimate as compared to the bid document equates to an under expenditure of $16,378 with no change in scope. To summarize this difference between the partial funding estimate as compared to the bid document equates to the difference in the cost of labor in the partial funding estimate versus the cost of labor in the bid document.

2. Project Cost Summary:

Note: Dollar values are in thousands.

Capital Costs	Year 2024	Year 2025	Year 2026+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	57.9	0.0	0.0	57.9
Outside Services	0.0	0.0	0.0	0.0
Materials	177.4	0.0	0.0	177.4
Removals	6.5	0.0	0.0	6.5
Risk and Contingency	40.3	0.0	0.0	40.3
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	282.1	0.0	0.0	282.1
Indirect Capital Costs				
Indirect/Overheads (including benefits)	161.5	0.0	0.0	161.5
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	161.5	0.0	0.0	161.5
Total Gross Capital Costs	**443.6**	0.0	0.0	**443.6**
Customer Contribution	0.0	0.0	0.0	0.0

Total Net Capital Project Costs	**443.6**	**0.0**	**0.0**	**443.6**

3. Technical Justification:

A. Background:

[redacted]

The 2021

B. Project Need Statement:

[redacted]

[redacted]

[redacted]

[redacted]

C. Project Scope:

[redacted]

[redacted]

[redacted]. The cost of this proposal is $238,921 at cost per minute saved of $0.63.

d. Project Objectives:

This project's objective is to reduce the number of customers exposed to an outage event within each zone recloser on the [redacted] circuit. [redacted]

[redacted]

Major Material:

- 3 - 25kV Reclosers installed
- 4 - 900A bypass disconnects
- 9 - 900A visible break switches
- 1 – 1200 kVAR Capacitor Bank. w/ VAR Control

4. Alternatives Considered

The alternative option (2 & 3) that was considered would address [redacted]

Project Option Comparison

[redacted]

Capital Cost	$443.6K	$5.2M	
Expense Cost	$19.4K	$0.2M	
Total Cost	$463.0K	$5.4M	
Total Cost / MVA added	$0.0/MVA	$9.0/MVA	
Total Cost / CM Saved	$1.22/CM	$14.31/CM	
Total Cost / CI Saved	$42751.62/CI	$502,071.65/CI	
Preferred option	X		

*20% was added to Partial Funding to account for legacy estimating units.

B. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	8/25/2022
100% Detailed Engineering Completion	9/14/2023
Fully Funded	1/18/2024
Construction Start	4/1/2024
In Service Date	12/31/2024

C. Regulatory Decisions

D. Codes and Standards

E. Risk and Contingencies:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation

Actual cost higher than estimated due to scope changes.	2024	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	2024	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction 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.
Internal engineering resources not available to perform the work.	2024	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2024	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2024	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2024	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	2024	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	2024	Low	Use of mats and specialty equipment, only work during certain times of the year.

F. References

References
1.
2.
3.

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

Attachment	Included in Submittal?
A. Partial PAF Document	*YES*
B. Cost Estimate System and Station One-Lines	*YES*
C. System and Station One-Lines Geographic Map	*YES*
D. Geographic Map Load Sheets	*NO*
E. Load Sheets	*YES*
F.	

A. Partial PAF Document:

Operations Project Authorization Form

Project Title: [redacted]	**Project Number: CD01882**
Date Prepared: 08/25/2022	**Company:** Eversource CT

Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** SMART SWITCHES PROGRAM
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** No
Estimated in service date: 12/31/2024	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? No	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☑ Distribution
Total Gross Capital Request: $459,773.00	**Authorization Type:** Initial Funding

Executive Summary:

This project is being established to address the reliability of the [redacted]

The total cost of this proposal which includes the first and second proposals is $471,846.00 and has a cost per minute saved of $1.25. This project has an in-service date of 12/31/2024.

Project Costs Summary:

Capital Costs	2024	2025	2026+	Total

Internal Labor and Construction Equipment	$39,916	$0	$0	$39,916
Outside Services	$52,642	$0	$0	$52,642
Materials	$168,093	$0	$0	$168,093
Removals	$10,875	$0	$0	$10,875
Risk and Contingency	$1,588	$0	$0	$1,588
Other	$0	$0	$0	$0
Subtotal	**$273,115**	**$0**	**$0**	**$273,115**

Indirect Capital Costs	**2024**	**2025**	**2026+**	**Total**
Indirects/Overheads (including benefits)	$180,840	$0	$0	$180,840
Capitalized interest or AFUDC, if any	$5,818	$0	$0	$5,818
Subtotal	**$186,658**	**$0**	**$0**	**$186,658**
Total Capital Costs (Gross)	**$459,773**	**$0**	**$0**	**$459,773**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Project Costs (Net)	**$459,773**	**$0**	**$0**	**$459,773**

Technical Justification:

Project Need Statement:

[redacted]

[redacted]

Project Objectives:

[redacted]

Project Scope:

[redacted]

[redacted]

[redacted] The cost of this proposal is $238,921 at cost per minute saved of $0.63.

Major Material:

- 3 - 25kV Reclosers installed
- 4 - 900A bypass disconnects
- 9 - 900A visible break switches
- 1 – 1200 kVAR Capacitor Bank. w/ VAR Control

Background:

[redacted]

Alternatives Considered:

Alternatives were considered (please describe below)

The alternative option (2 & 3) that was considered would address [redacted]

Project Option Comparison

	Option
[redacted]	

[redacted]

Cost	$472K	$5.4 M	
Cost / CM Saved	$1.25/CMS	$14.31/CMS	
Cost / CI Saved	$43568.42/CI	$502,071.65/CI	
Total MVA Added	0 MVA	9.0 MVA	
Cost/ MVA Added	$0.0/MVA	$0.60/MVA	
Preferred option	X		

Regulatory Approvals:

Are Regulatory body approvals needed for the project?

No

Project Schedule:

Milestone/Phase Name	Estimated Date
Preliminary Approval	8/31/2022
Detailed Design	12/31/2023
Settings Requested	1/31/2024
Construction Start Date	3/1/2024
Construction End Date	12/31/2024

Risks and Risk Mitigation Plans:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation

Actual cost higher than estimated due to scope changes.	2024	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	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.	2024	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2024	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2024	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2024	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	2024	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	2024	Low	Use of mats and specialty equipment, only work during certain times of the year.

References:

None.

Appendices:



B. Cost Estimate:

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Specific Project Proposal - Project #: CD01882 [redacted]

Work Classification

Category: Line
Type: SRSS
Type Desc: SMART SWITCHES PROGRAM
Work Type:

Ownership / Management

AWC: Torrington
Statewide: No
Owner: Maule, David
Manager: Escribano, Eduardo

Project Information

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

Budget Summary - Preferred Option

Preferred Option

2024

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	[redacted] Loop Scheme Expansion	Prelim	0	28%	$232,925	$232,925
2	[redacted] Smart Switch Installation	Prelim	0	28%	$238,921	$238,921
				2024 Total:	**$471,846**	**$471,846**
				Total Project:	**$471,846**	**$471,846**

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Specific Project Proposal - Project #: CD01882 [redacted]

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Preferred Option	1,2	$471,846	$0	100%	$13.93	$1.25	☑
O2	Alternate Option	2,3	$5,437,436	$0	100%	$231.61	$14.40	☐

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	[redacted]	$232,925			$9.84	$8.32
2		$238,921			$7.06	$0.63
3		$5,198,515			$390.66	$185.25

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Specific Project Proposal - Project #: CD01882 [redacted]

Background / Scope

Issue:

[redacted]

Project Description:

[redacted]

Other Considerations:

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Specific Project Proposal - Project #: CD01882

[redacted]

[redacted]

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: [redacted]
Crit. Cust. Impacted:
Approx. Pole Count (NU): 2
Approx. Pole Count (Other): 3
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 #:

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Specific Project Proposal - Project #: CD01882 [redacted]

Design Alternative CD01882-01

General Information

Segment: 1 - [redacted] Loop Scheme Expansion Status: Prelim Design Submitted

Segment Type: RECLOSERS Town: NEW HARTFORD Budget Year: 2024

Work Type: BB-Sctnlzng-Reclosers Trimming Required: ☐ In Service Date: 12/31/2024

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 #: CD01882 [redacted]

Design Alternative CD01882-01

Estimate

Preliminary Estimate Summary	
Revision Number:	0
Contingency:	28.00%
SubTotal:	$181,973
Contingency Amount:	$50,952
Estimate:	$232,925
Reimbursement:	$0
Net Amount:	**$232,925**
Description:	ENG Estimate for Smart Switch Installation

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	$14,038.40
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$23,337.00
SECTIONALIZE OH - Recloser Control - setting changes only	16-OH39A	$19,542.40
EQUIPMENT OH - Capacitor Control - Install or Replace	16-OH55	$8,997.60
EQUIPMENT OH - Capacitor, any kVAR, any voltage 1 - 1200 KVAR Cap Bk @ P# 731	16-OH52	$20,694.40
SECTIONALIZE OH - Recloser - 3ph 1 - SR @ P# 1661	16-OH38	$47,989.60
OTHER OTHER Contractor Adder@ 20%	16-ALL14	$37,090.00
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph Inst 3-600 Amp. Vert. Disc. Sw @ P# 324	16-OH43	$10,283.20

[redacted]

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Specific Project Proposal - Project #: CD01882

SSRK12.21-5R1-62R-538-RWO.3

Design Alternative CD01882-01

Associated / Impacted Devices

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

Reliability Projection

Title:

Outage Start Date: 1/20/2018 Outage End Date: 3/13/2022 Years History: 4.15

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01882 [redacted]

Design Alternative CD01882-02

General Information

Segment: 2 - [redacted] - Smart Switch Installation
Status: Prelim Design Submitted
Segment Type: RECLOSERS
Town: NEW HARTFORD
Budget Year: 2024
Work Type: BB-Sctnlzng-Reclosers
Trimming Required: ☐
In Service Date: 12/31/2024
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 #: CD01882 [redacted]

Design Alternative CD01882-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$186,657
Contingency Amount:	$52,264
Estimate:	$238,921
Reimbursement:	$0
Net Amount:	**$238,921**
Description:	ENG Estimate for Smart Switch Instalation

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	$14,038.40
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$23,938.00
SECTIONALIZE OH - Recloser Control - setting changes only	16-OH39A	$14,656.80
SECTIONALIZE OH - Recloser - 3ph ! - SS @ P# 555, 1 - SS @ P# 628	16-OH38	$95,979.20
OTHER OTHER Contractor Adder@ 20%	16-ALL14	$38,045.00

[redacted]

Associated / Impacted Devices

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

Connecticut Light & Power
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Specific Project Proposal - Project #: CD01882 [redacted]

Design Alternative CD01882-02

Reliability Projection

Title:

Outage Start Date: 1/20/2018 Outage End Date: 3/13/2022 Years History: 4.15

[redacted]

Connecticut Light & Power
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Specific Project Proposal - Project #: CD01882 [redacted]

Design Alternative CD01882-03

General Information

Segment: 3 - [redacted] Loop Scheme Expansion Status: Draft

Segment Type: RECLOSERS Town: NEW HARTFORD Budget Year: 2024

Work Type: BB-Sctnlzng-Reclosers Trimming Required: ☐ In Service Date: 12/31/2024

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 #: CD01882 [redacted]

Design Alternative CD01882-03

Estimate

Preliminary Estimate Summary	
Revision Number:	0
Contingency:	28.00%
SubTotal:	$4,061,340
Contingency Amount:	$1,137,175
Estimate:	$5,198,515
Reimbursement:	$0
Net Amount:	**$5,198,515**

Description: ENG Estimate for 5R1/44J3 Loop Scheme Expansion, 6825' - Reconductor w/556 AAC T.W., 10510' - Reconductor w/556 AAC Spacer Cable

Item Description	CU	[redacted]	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17		$35,096.00
SECTIONALIZE OH - Cutouts or Arresters - 1ph	16-OH19		$10,969.60
SECTIONALIZE OH - Cutouts or Arresters - 3ph	16-OH20		$4,630.40
OH WIRE OH - Ampact Connectors - 1ph (2 Ampacts)	16-OH21		$8,227.20
OH WIRE OH - Ampact Connectors - 3ph (6 Ampacts)	16-OH22		$8,652.00
SECTIONALIZE OH - Recloser Control - setting changes only	16-OH39A		$29,313.60
XF OH - OH XF - 1ph	16-OH45		$29,534.40
XF OH - OH XF's - bank of 3-1ph	16-OH46		$10,038.40

Asset & Investment Management System 8/23/2022 Page 12 of 16

Connecticut Light & Power
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Specific Project Proposal - Project #: CD01882

SSRK12.21-5R1-62R-538-RWO.3

Design Alternative — CD01882-03

EQUIPMENT OH - Capacitor Control - Install or Replace	16-OH55	[redacted]	$8,997.60
TREE OH - Trimming for Taller Pole	16-OH64		$37,500.00
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18		$520,841.00
EQUIPMENT OH - Capacitor, any kVAR, any voltage 1 - 1200 KVAR Cap Bk @ P# 731	16-OH52		$20,694.40
SECTIONALIZE OH - GOAB Switch 1 - GOAB @ P# 76	16-OH44		$20,566.40
SECTIONALIZE OH - GOAB Switch 1 - GOAB Disc. Sw. @ P# 678	16-OH44		$20,566.40
SECTIONALIZE OH - Recloser - 3ph 1 - SR @ P# 1661 , 1 - MR @ P# 92	16-OH38		$95,979.20
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph 1 - Vert. Disc. Sw @ P# 100	16-OH43		$10,283.20
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph 1 - Vert. Disc. Sw. @ P# 632	16-OH43		$10,283.20
SECTIONALIZE OH - Cutouts or Arresters - 3ph 1 Xfmr. C/O @ P# 627	16-OH20		$2,315.20
SECTIONALIZE OH - Cutouts or Arresters - 1ph 14 - OH Xfmr. 5 - Taps	16-OH19		$26,052.80
OTHER OTHER 2 - 3000 kVA 27.6/23 kV Overhead Step Transformer Installation	16-ALL14		$126,000.00
POLE OH - JUNCTION POLE - 3ph (CL&P custodian) 2 - Jct Poles- 50/1	16-OH14A		$23,380.80

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01882

[redacted]

Design Alternative CD01882-03

POLE OH - POLE - 3ph (CL&P custodian) 3 - H-1 Poles	16-OH14	$14,028.00
POLE OH - JUNCTION POLE - 3ph (CL&P custodian) 3 - Jct. Poles 50/1	16-OH14A	$35,071.20
SECTIONALIZE OH - Cutouts or Arresters - 3ph 3 - L.A.	16-OH20	$6,945.60
SECTIONALIZE OH - Cutouts or Arresters - 3ph 4 - Xfmr Bk, 2 - Taps	16-OH20	$13,891.20
OH WIRE OH - Reconductor w/Spacer Cable - 556 kcmil 556 AAC Spacer @ P# 623 - 709	16-OH29	,076,224.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil 6,825' - 556 AAC T.W. on Fiberglass Crossarm @ P# 3128 - 709	16-OH27	$529,620.00
POLE OH - POLE - 3ph (Telephone custodian) 73 - Total Poles 50/1	16-OH12	$131,720.00
SECTIONALIZE OH - Cutouts or Arresters - 1ph 9 - Xfmr. C/O's, 6 - C/O's @ Taps, 6 - L.A.	16-OH19	$28,795.20
OTHER OTHER Contractor Adder @ 20%	16-ALL14	$827,789.00
OTHER OTHER Core Bore for 51 Poles @$ 950/ea = $48,450, 75 Poles= 71,250	16-ALL14	$119,700.00
OTHER OTHER Cost for Crane $250/day	16-ALL14	$500.00
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph Inst 3 - 600 Amp. Vert Disc. Sw. @ P# 100	16-OH43	$10,283.20
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph Inst 3-600 Amp. Vert. Disc. Sw @ P# 324	16-OH43	$10,283.20

Asset & Investment Management System 8/23/2022 Page 14 of 16

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01882 [redacted]

Design Alternative			CD01882-03
EQUIPMENT OH - Capacitor Control - Install or Replace Inst./Rmv Cap. Cntl. @ P# 79	16-OH55	[redacted]	$17,995.20
EQUIPMENT OH - Remove Capacitor, any kVAR Inst/RMV 1 - Cap. Bk. @ P# 79	16-OH54		$3,600.00
OTHER OTHER Removal Cost for Overhead Transfomers	16-ALL14		$5,000.00
OH WIRE OH - Remove circuit wire (3 phase) Rmv 1/0 ACSR	16-OH37A		$33,632.00
OH WIRE OH - Remove circuit wire (3 phase) Rmv. Primary @ P# 3128 - 6394	16-OH37A		$21,840.00
POLE OH - POLE - 3ph (Telephone custodian) Total 49 Poles - 45/1 CCA Poles	16-OH12		$89,000.00
TREE OH - Trimming for Taller Pole Tree Trimming @ P# 3128 - 6394	16-OH64		$25,500.00

Associated / Impacted Devices

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

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01882 [redacted]

Design Alternative CD01882-03

Reliability Projection

Title:

Outage Start Date: 1/20/2018 Outage End Date: 3/13/2022 Years History: 4.14

[redacted]

Project Approval Form

[redacted]

Project Approval Form

[redacted]

Project Approval Form

[redacted]

Project Approval Form

[redacted]

Project Approval Form

[redacted]