EVERSOURCE

Operations Project Authorization Form

Project Title: [redacted] Overload	**Project Number:** CD02303
Date Prepared: 12/16/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
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: 6/30/2027	**NWS Excludable:** ☐ Yes ☒ No
Total Capital Request: $1,036K	**Authorization Type:** Full Funding

1. Executive Summary

Full Funding is being requested for this project at a capital cost of $1,036K, which is $185.4K less or 85% of the approved partial funding of $1221.4K. [redacted].

This project addresses overload conditions [redacted].

Location Information:

Division: Western

Districts: Stamford

City: Stamford

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2026	Year 2027	Year 2028+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	43.4	0.0	0.0	43.4
Outside Services	352.6	0.0	0.0	352.6
Materials	176.9	0.0	0.0	176.9
Removals	78.3	0.0	0.0	78.3
Risk and Contingency	0.0	0.0	0.0	0.0
Other	6.9	0.0	0.0	6.9
Subtotal – Direct Costs	658.0	0.0	0.0	658.0
Indirect Capital Costs				
Indirect/Overheads (including benefits)	345.5	0.0	0.0	345.5
Capitalized interest or AFUDC, if any	23.5	0.0	0.0	23.5
Subtotal – Indirect Costs	378.0	0.0	0.0	378.0
Total Gross Capital Costs	**1,036.0**	0.0	0.0	**1,036.0**
Customer Contribution	0.0	0.0	0.0	0.0
Total Net Capital Project Costs	**1,036.0**	0.0	0.0	**1,036.0**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

The [redacted] does not directly serve any critical facilities. There have not been any outages on the [redacted] in the last four years that can be classified as a cable failure. As of August 2023, one backbone outage has occurred in the last four years; it was on July 31, 2020, and was animal/bird related. [redacted]

b. Project Need

[redacted]

c. Project Scope

[redacted]

4. Alternatives Considered



Project Option Comparison

Design Criteria	Option			
	1 – Replace UG cables with parallel 500 Cu Cable.	2 – Replace UG cable with 750 Cu EPR Cable	3 – Replace existing PILC cable with parallel 500 Cu EPR cable	4- NWS alternative
Normal loads < 80% of UG rating	X	X	X	X
Normal loads < 90% of OH rating	X	X	X	X
Contingent loads < 100% of rating	X	X	X	X
Eliminates PILC		X	X	
Authorization Type	Full	Full	Full	Partial
Capital Cost	$1,036.0K	$1,311.4K	$1,436K	$25,213.6K
Expense Cost	$32.3K	$40.9K	$51.8K	$786.4
Total Cost	$1,068.3K	$1,352.3K	$1,486.8K	$26,000K

Total Cost / MVA added	$296.8K/MVA	$422.6K/MVA	$413.0K/MVA	$8,000/MVA
MVA Added	3.6	3.2	3.6**	3.25
Preferred option	X			

** UG rating can be increased as high as 700A (8.2 MVA added) for the parallel 500 cu cable in a duct bank.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	December 2023
100% Detailed Engineering Completion	October 2025
Fully Funded	February 2026
Construction Start	March 2027
In Service Date	June 2027

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.	2026	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.	2026	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2026	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2026	Low	If storm activity delays work, we may be forced to use external resources.
Technological risks involving integration of new technology	2026	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.

9. References

References
N/A

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

Attachment	Included in Submittal?
A. Partial Funding PAF	*YES*

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Operations Project Authorization Form

Attachment A: Partial Funding PAF

Project Title: [redacted] Overload	**Project Number:** CD02303
Date Prepared: 08/23/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
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: 06/30/2026	
Total Capital Request: 1,221K	**Authorization Type:** Partial Funding

11. Executive Summary

[redacted]

Location Information:

Division: Western

District: Stamford

City: Stamford

12. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2026	Year 2027	Year 2028+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	63.1	0.0	0.0	63.1
Outside Services	299.4	0.0	0.0	299.4
Materials	284.3	0.0	0.0	284.3
Removals	205.5	0.0	0.0	205.5
Risk and Contingency	5.4	0.0	0.0	5.4
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**857.7**	**0.0**	**0.0**	**857.7**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	325.9	0.0	0.0	325.9
Capitalized interest or AFUDC, if any	37.8	0.0	0.0	37.8
Subtotal – Indirect Costs	**363.7**	**0.0**	**0.0**	**363.7**
Total Gross Capital Costs	**1,221.4**	**0.0**	**0.0**	**1,221.4**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**1,221.4**	**0.0**	**0.0**	**1,221.4**

13. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

The [redacted] circuit does not directly serve any critical facilities. There have not been any outages on the [redacted] in the last four years that can be classified as a cable failure. Only one backbone outage has occurred in the last four years; it was on July 31, 2020, and was animal/bird related. [redacted]

[redacted]

b. Project Need

[redacted]

c. Project Scope

[redacted]

14. Alternatives Considered

[redacted]

Project Option Comparison

Design Criteria	Option

	1 – Replace UG cables with parallel 500 Cu Cable.	2 – Replace UG cable with 750 Cu EPR Cable	3 – Replace existing PILC cable with parallel 500 Cu EPR cable
Normal loads < 80% of UG rating	X	X	X
Normal loads < 90% of OH rating	X	X	X
Contingent loads < 100% of rating	X	X	X
Eliminates PILC		X	X
Authorization Type	Partial	Partial	Partial
Capital Cost	$856K	$1,110.7K	$1,221.4K
Expense Cost	$26.8K	$34.8K	$38.3K
Total Cost	$883K	$1,146K	$1,260K
Total Cost / MVA added	$167K/MVA	$358K/MVA	$350K/MVA
MVA Added	3.6	3.2	3.6**
Preferred option			X

** UG rating can be increased as high as 700A (8.2 MVA added) for the parallel 500 cu cable in a duct bank.

15. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	December 2023
100% Detailed Engineering Completion	October 2025
Fully Funded	June 2025
Construction Start	January 2026
In Service Date	June 2026

16. Regulatory Decisions

N/A

17. Codes and Standards

N/A

18. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2026	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.	2026	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.	2025	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2026	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2026	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2026	Medium	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

19. References

References
1. N/A

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

Attachment	Included in Submittal?
A. Cost Summary	*YES*
B. Geographic Map	*YES*
C. Load Sheet	*YES*
D. Oneline	*YES*
E. UG Duct Positions	*YES*

Attachment A: Cost Summary: Segment 1 (Option 1):

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	32.00%
SubTotal:	$668,808
Contingency Amount:	$214,019
Estimate:	$882,827
Reimbursement:	$0
Net Amount:	**$882,827**
Description:	

Item Description	CU	$ / Per	Qty	Amount
SWITCHING [redacted]	23-ALL17	[redacted]		$4,562.48
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			15,000.00
OTHER OTHER [redacted]	23-ALL14			54,340.00
UG CABLE [redacted]	23-UG114			71,219.84
UG CABLE [redacted]	23-UG117			23,686.00

Segment 2 (Option 2):

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	32.00%
SubTotal:	$867,815
Contingency Amount:	$277,701
Estimate:	$1,145,516
Reimbursement:	$0
Net Amount:	**$1,145,516**

Description:

Item Description	CU	$ / Per	Qty	Amount
SWITCHING [redacted]	23-ALL17	[redacted]		$4,562.48
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$15,000.00
UG CABLE [redacted]	23-UG117			$111,722.00
OTHER OTHER [redacted]	23-ALL14			$200,265.00
UG CABLE [redacted]	23-UG114B			$536,265.60

Segment 3 (option 3 – preferred option):

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	32.00%
SubTotal:	$954,288
Contingency Amount:	$305,372
Estimate:	$1,259,661
Reimbursement:	$0
Net Amount:	**$1,259,661**

Description:

Item Description	CU	$ / Per	Qty	Amount
SWITCHING [redacted]	23-ALL17	[redacted]		$4,562.48
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$15,000.00
OTHER OTHER [redacted]	23-ALL14			$220,220.00
UG CABLE [redacted]	23-UG114			$642,408.00
UG CABLE [redacted]	23-UG117			$72,098.00

CD02303_project_needs_statement.pdf

[redacted]

Attachment C: Load Sheet:

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.

[redacted]

CD02303 - Waterside 22M9 Load Sheet.xlsx

Attachment D: Oneline:

[redacted]

CD02303 - 22M9 Load Project- Oneline

Attachment E: Duct Positions:

[redacted]

CD02303 - Waterside 22M Duct Layout.pdf

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Operations Project Authorization Form

Project Title: [redacted] **Overload**	**Project Number: CD02303**
Date Prepared: 08/23/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** UG CABLE & EQUIPMNT REPLACEMNT
Project Manager: [redacted]	**Project Type:** UG CABLE & EQUIPMNT REPLACEMNT
Project Sponsor: [redacted]	**Capital Investment part of 5-year plan?** No
	Emergency Related Request? No
Total Request ($): $30k	**Authorization Type:** Initial Funding

1. Project Need Statement

[redacted]

2. Project Objectives

[redacted]

Project Initiator: [redacted]

Engineering Approval: _____

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.