EVERSOURCE

Operations Project Authorization Form

Project Title: [redacted] Contingent Overload	Project Number: CD02470
Date Prepared: 03/11/2026	**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: 12/31/2026	**NWS Excludable:** ☐ Yes ☒ No
Total Capital Request: $608.0k	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $608k, which is 398% of the partial funding estimate of $152.9k. There was a change of scope for this project, the variance between the full funding and partial funding estimate is primarily due to the following factors. [redacted]. This caused the labor and materials estimates to come in about $187k higher than estimated. The indirect costs were $277k higher than the partial funding amount.

CD02470 seeks to address normal and contingency overloads [redacted]

- Division: Western
- District: Newtown AWC
- Town(s): Danbury

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	98.1	0.0	0.0	98.1
Outside Services	0.0	0.0	0.0	0.0
Materials	121.5	0.0	0.0	121.5
Removals	16.4	0.0	0.0	16.4
Risk and Contingency	42.4	0.0	0.0	42.4
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**278.4**	**0.0**	**0.0**	**278.4**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	329.6	0.0	0.0	329.6
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**329.6**	**0.0**	**0.0**	**329.6**
Total Gross Capital Costs	**608.0**	**0.0**	**0.0**	**608.0**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**608.0**	**0.0**	**0.0**	**608.0**

Explain unique payment provisions, if applicable:

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

b. Project Need

[redacted]

[redacted]

c. Project Scope

[redacted]

4. Alternatives Considered

Project Option Comparison

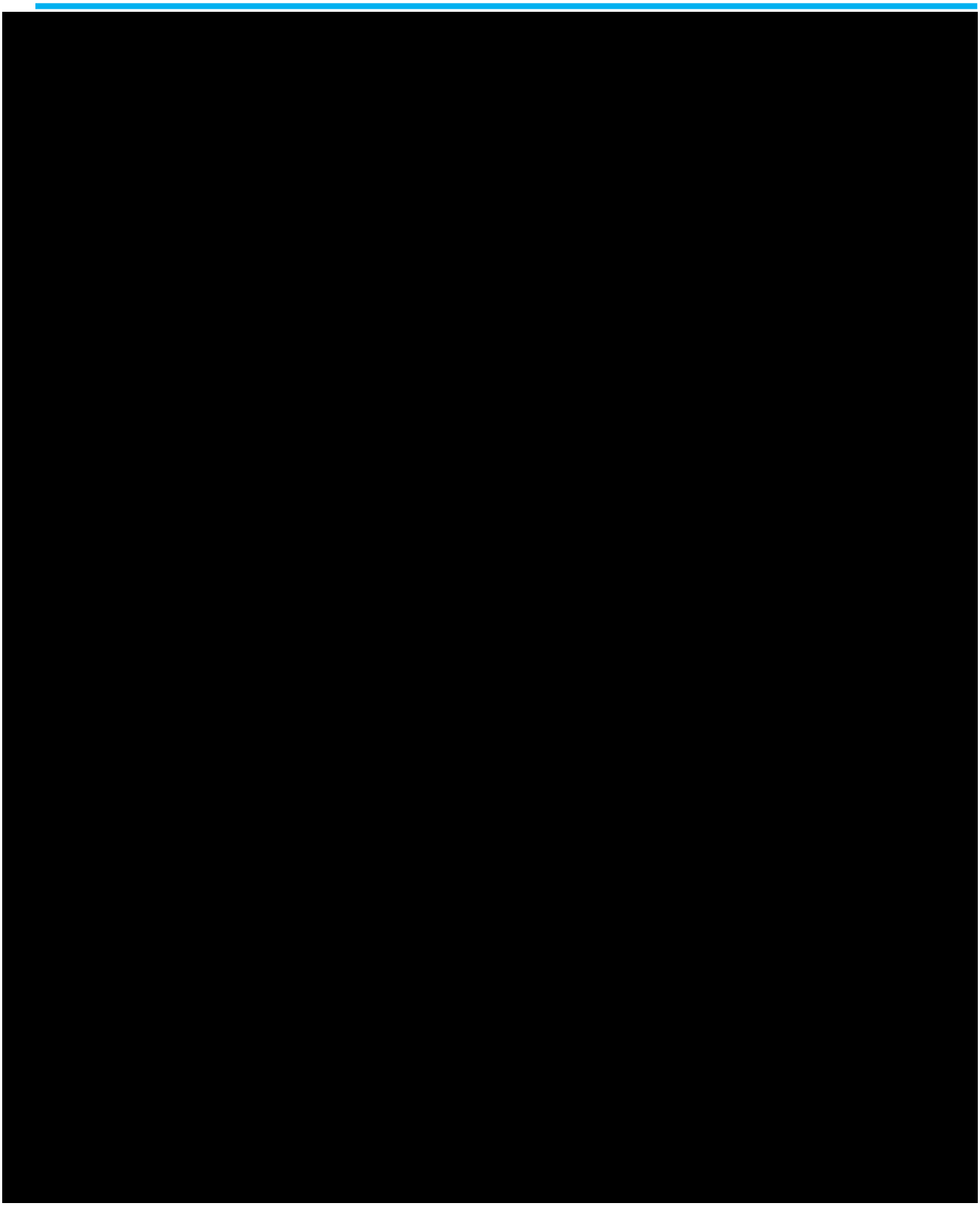
Design Criteria	Options				
	[redacted]			4 – NWS	5 – Do Nothing
	Required to meet project need				
Normal loads < 80% of UG rating	X	X	X	X	
Normal loads < 90% of OH rating	X	X	X	X	
28M1 Contingent loads < 100% of summer rating	X	X	X	X	
28M11 Contingent loads < 100% of summer rating		X	X		
Additional ties created	1	1	1	0	
MVA Added	2.22	6.76	12.44	2.19	N/A
Authorization Type	Full	Partial	Partial	Partial	Partial
Capital Cost	$608k	$1,855.5k	$3,173.0k	$25,485.1k	$0
Expense Cost	$18.9k	$57.9k	$99.0k	$794.9k	$0
Total Cost	$627.0k	$1,913.5k	$3,272.1k	$26,280k	$0
Total Cost / MVA added	$282.4k/MVA	$283.1k/MVA	$263.0k/MVA	$12,000k/MVA	N/A
Preferred option	X				

Note: The estimates for options 2 and 3 were adjusted by the same ratio as the preferred option 1 to keep estimates consistent.

Option Summary

Preferred:

[redacted]



Option 5 – Do Nothing

This option was not selected because this is an overload project. Doing nothing and leaving the circuit exceeding the normal and contingency limits and could potentially result in an underground cable overloading and failing. This would lead to expensive fault locating and repair costs and extended outages for the customers outside the automatic recovery zones.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	10/2024
100% Detailed Engineering Completion	2/2025
Fully Funded	4/2026
Construction Start	6/2026
In Service Date	12/2026

6. Regulatory Decisions

7. Codes and Standards

DSEM 8.321 – Insulated CU Cable Ratings

DSEM 8.101 – Overhead Cable Ratings

DSEM 5.821 – Overhead System Nomenclature

8. Risk and Contingencies

Contingencies:

Risk Mitigation:

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.
Customer Permission / Siting Council / Municipal approvals	2026	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
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.	2026	Low	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.
System abnormal configuration	2026	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	2026	Medium	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	2026	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References
1.
2.
3.
4.
5.

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

Attachment	Included in Submittal?
A. Project Authorization Checklist	*YES*
B. Updated Oneline	*YES*
C. Partial Funding PAF	*YES*

Attachment A: Project Authorization Checklist

Project Authorization Checklist

Project Initiator: [redacted]

Project #: CD02470

Project Title: [redacted] **Contingency Overload**

Funding Type: Partial

☐ Partial PAF ☒ Full PAF

Project Alternatives:

☒ Options considered ☒ Explanation why alternatives were not selected

☒ NWA considered ☒ Explanation why preferred option was selected

Project Requirements (Review all, and check all that apply):

NR = Not Required R=Required C = Complete

NR	R	C		NR	R	C	
☒	☐	☐	Easement	☒	☐	☐	TD007
☒	☐	☐	Trimming Estimate Received	☒	☐	☐	ROW trimming Estimate Received
☒	☐	☐	Environmental Review Initiated	☐	☐	☒	Review with Operations
☒	☐	☐	Permits (state roads)	☒	☒	☐	Underground permits
☐	☐	☒	S &C Settings	☒	☐	☐	Material long lead
☐	☐	☒	Synergi load flow				

PAF Documents Attached:

☒ One Lines ☒ Geographical Map ☒ Load Projections ☒ Estimates

☒ Other Documents (List): Manhole Duct Layout One-line

PAF Review Complete:

☒ Lead Reviewed by: [redacted] Date: **3/16/2026**

☒ Manager Reviewed by: [redacted] Date: **3/18/2026**

Attachment B: Update After Oneline



EVERSOURCE

Operations Project Authorization Form

Attachment C: Partial Funding PAF

Project Title: [redacted] **Contingent Overload**	**Project Number: CD02470**
Date Prepared: 10/31/2024	**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: 12/31/2026	
Total Capital Request: $152.9k	**Authorization Type:** Partial Funding

1. Executive Summary

CD02470 seeks to address contingency overloads [redacted] The cost for the suggested improvements in $152.9k.

Title: 28M1 Contingent Overload
Division: Western
District: Newtown
Town(s): Danbury
Circuit(s): [redacted]

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2026	2027	2028+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	6.4	0.0	0.0	6.4
Outside Services	52.0	0.0	0.0	52.0
Materials	26.1	0.0	0.0	26.1
Removals	11.6	0.0	0.0	11.6
Risk and Contingency	1.0	0.0	0.0	1.0
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**97.1**	**0.0**	**0.0**	**97.1**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	52.3	0.0	0.0	52.3
Capitalized interest or AFUDC, if any	3.5	0.0	0.0	3.5
Subtotal – Indirect Costs	**55.8**	**0.0**	**0.0**	**55.8**
Total Gross Capital Costs	**152.9**	**0.0**	**0.0**	**152.9**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**152.9**	**0.0**	**0.0**	**152.9**

Explain unique payment provisions, if applicable:

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background



b. Project Need



[redacted]

c. Project Scope

[redacted]

4. Alternatives Considered

[redacted]

[redacted]

Project Option Comparison

	Options:			
Design Considerations	[redacted]			
Normal loads < 90% of OH rating	X	X	X	X
Normal loads < 80% of UG rating	X	X	X	X
28M1 Contingent loads < 100% of normal rating	X	X	X	X
28M11 Contingent loads < 100% of normal rating		X	X	

Additional ties created	1	1	1	0
MVA Added	2.22	6.76	12.44	2.19
Authorization Type	Partial	Partial	Partial	Partial
Capital Cost	$152.9k	$466.6k	$797.9k	$3,264.9k
Expense Cost	$4.77k	$14.55k	$24.89k	$101.8k
Total Cost	$157.7k	$481.2k	$822.82k	$3,366.8k
Total Cost / MVA added	$68,875/MVA	$69,029/MVA	$64,142/MVA	$1,490,852/MVA
Preferred option	X			

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	10/2024
100% Detailed Engineering Completion	2/2025
Fully Funded	8/2025
Construction Start	1/2026
In Service Date	12/2026

6. Regulatory Decisions

N/A

7. Codes and Standards

DSEM 8.321 – Insulated CU Cable Ratings

DSEM 8.101 – Overhead Cable Ratings

DSEM 5.821 – Overhead System Nomenclature

8. Risk and Contingencies

Contingencies:

Risk Mitigation:

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.
Customer Permission / Siting Council / Municipal approvals	2026	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
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.	2026	Low	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.
System abnormal configuration	2026	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	2026	Medium	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	2026	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References
1. CD02203 – [redacted]
2. CD01132 – [redacted]
3. CD02190 – [redacted]
4.
5.

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Project Oneline	*YES*
C. Geographic Map	*YES*
D. Load Summary	*YES*

A. Cost Estimate

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02470
[redacted]Contingent Overload

Work Classification		Ownership / Management	
Category:	Line	AWC:	Newtown
Type:	BLG1	Statewide:	No
Type Desc:	OVERLOADS-SPECIFIC PROJECTS	Owner:	[redacted]
Work Type:		Manager:	

Project Information

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

Budget Summary - Preferred Option

Option 1 - 28M3/11A53 Sectionalizing & Offload

2026

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
3	[redacted]	Draft	0	28%	$117,474	$117,474
10		Draft	0	28%	$40,199	$40,199
				2026 Total:	$157,672	$157,672
				Total Project:	$157,672	$157,672

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02470

[redacted] Contingent Overload

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O	[redacted]		$157,672	$0	100%	$0.00	$735.74	☑
O			$481,193	$0	100%	$0.00	$2,245.37	☐
O			$822,822	$0	100%	$0.00	$3,839.50	☐
O			$33,668,000	$0	100%	$0.00	$0.00	☐

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	[redacted]	$1,003,571			$0.00	$0.00
2		$30,499			$0.00	$0.00
3		$117,474			$0.00	$547.66
4		$181,654			$0.00	$0.00
5		$99,664			$0.00	$0.00
6		$323,520			$0.00	$0.00
7		$403,844			$0.00	$0.00
8		$341,630			$0.00	$0.00
9		$33,668,000			$0.00	$0.00
10		$40,199			$0.00	$0.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02470

[redacted] Contingent Overload

Design Alternative CD02470-03

General Information

Segment: 3 - Segment 3 [redacted] Status: Draft

Segment Type: [redacted] Town: [redacted] Budget Year: 2026

Work Type: [redacted] Trimming Required: ☐ In Service Date: 12/31/2026

Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02470

[redacted] Contingent Overload

Design Alternative CD02470-03

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	28.00%
SubTotal:	$91,776
Contingency Amount:	$25,697
Estimate:	$117,474
Reimbursement:	$0
Net Amount:	**$117,474**

Description:

Item Description	CU	$ / Per	Qty	Amount
SWITCHING [redacted]	23-ALL17	[redacted]		$13,687.44
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 1 Officer, 3 Days	23-ALL18			$3,000.00
SECTIONALIZE [redacted]	23-OH38			$62,386.48
SECTIONALIZE [redacted]	23-OH39A			$12,702.56

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]					732	
Existing						1908	

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Specific Project Proposal - Project #: CD02470

[redacted] Contingent Overload

Design Alternative CD02470-03

Reliability Projection

Title:

Outage Start Date: 5/20/2020 Outage End Date: 5/20/2024 Years History: 4.00

Selected Event Summary

	Non-Storm	Storm	Total
Total Customer Minutes:	2,860	0	2,860
Total Customer Interruptions:	260	0	260
Total Number of Events:	1	0	1

Improvement Factors

	Default	Override
Cust. Minutes:	30%	
Cust. Intrrpts:	0%	30%

Calculation Results

	DPU Non-Storm Default	DPU Non-Storm Override	IEEE Non-Storm Default	IEEE Non-Storm Override	ALL Default	ALL Override
Cust. Interruptions Saved:	0	20	0	0	0	20
Cost Per Cust. Intr. Saved:	0.00	6,024.30	0.00	0.00	0.00	6,024.30
Customer Minutes Saved:	215	0	0	0	215	0
Cost Per Cust. Min. Saved:	547.66	0.00	0.00	0.00	547.66	0.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02470

[redacted] Contingent Overload

Design Alternative CD02470-10

General Information

Segment: 10 - [redacted] Status: Draft

Segment Type [redacted] Town: DANBURY Budget Year: 2026

Work Type [redacted] Trimming Required: ☐ In Service Date: 12/31/2026

Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02470

[redacted] Contingent Overload

Design Alternative CD02470-10

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	28.00%
SubTotal:	$31,405
Contingency Amount:	$8,793
Estimate:	$40,199
Reimbursement:	$0
Net Amount:	**$40,199**

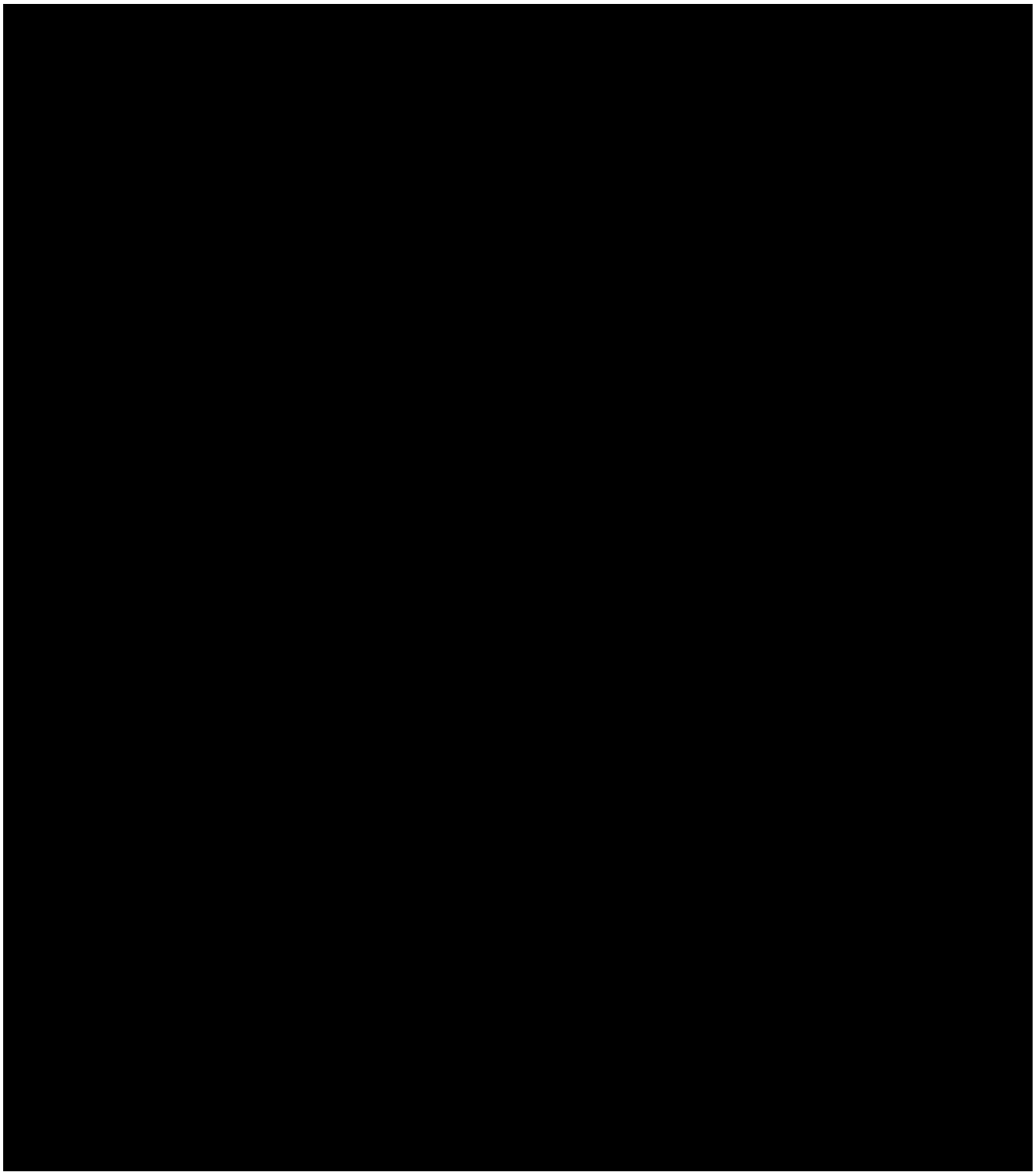
Description:

Item Description	CU	$ / Per	Qty	Amount
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18	[redacted]		$2,000.00
TRAFFIC OH/DB/UG - Traffic Control - Flagger	23-ALL19			$4,000.00
SECTIONALIZE	23-OH39A			$25,405.12

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes

B. Project One-line



[redacted]

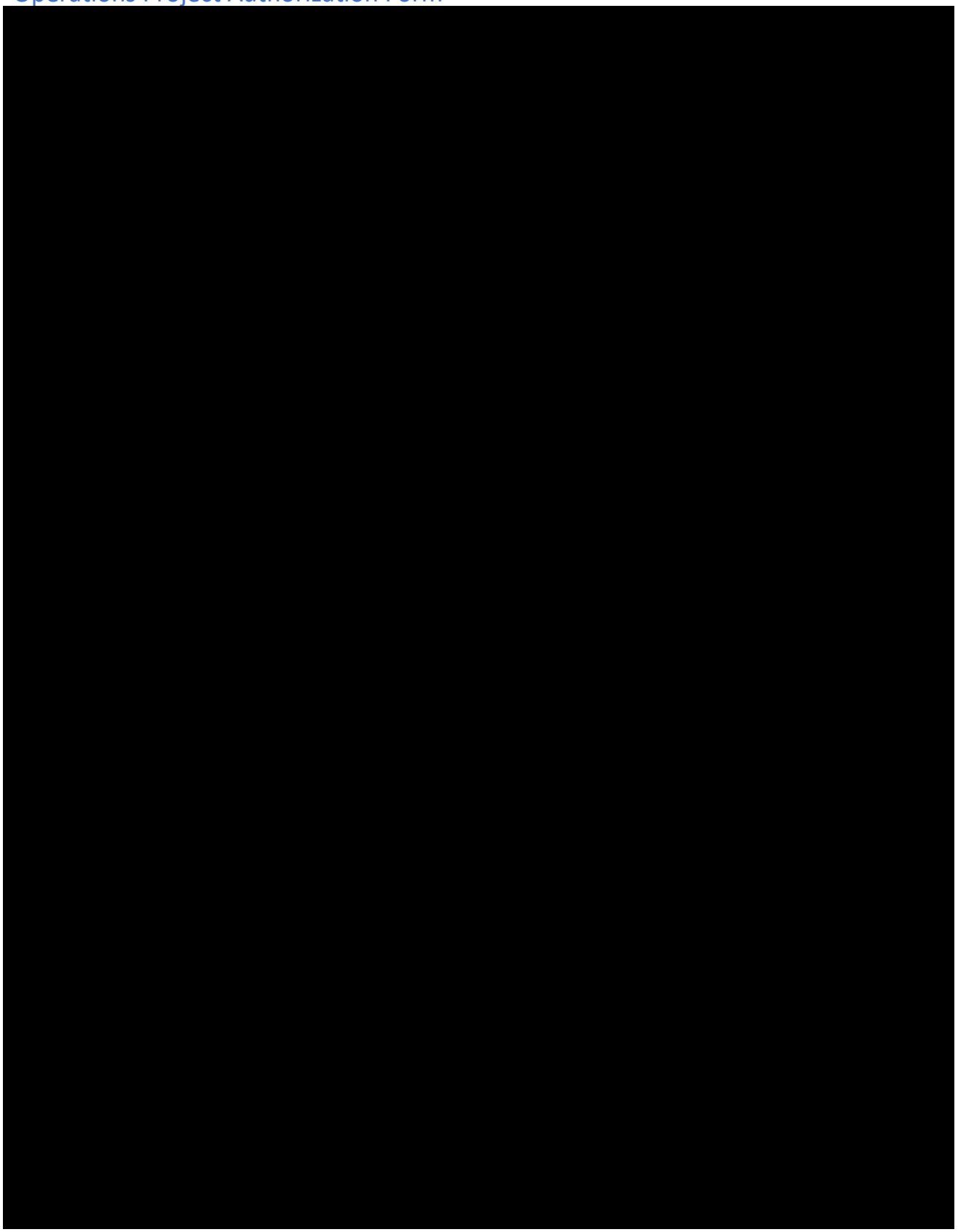
C. Geographic Map

[redacted]

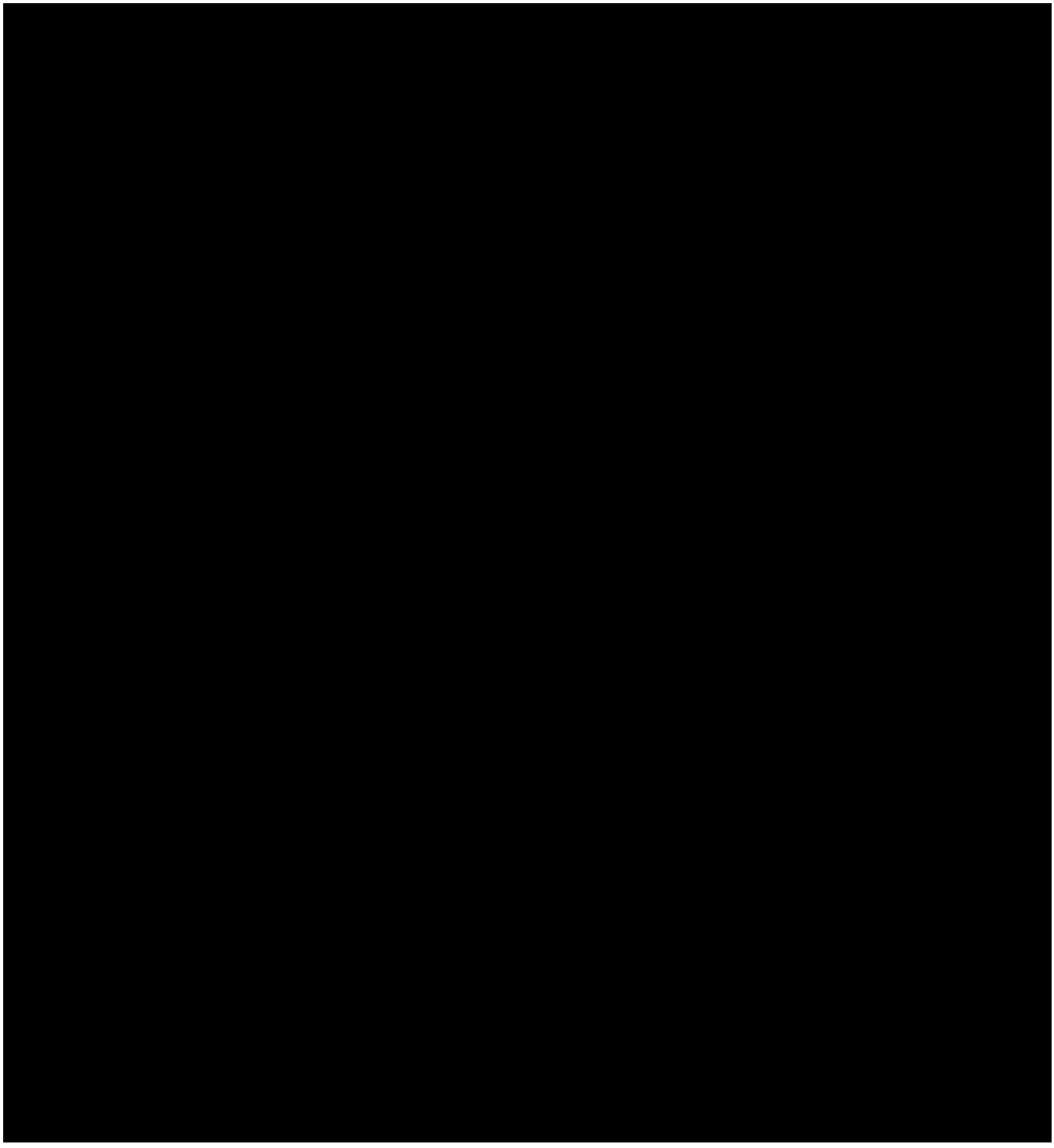
[redacted]

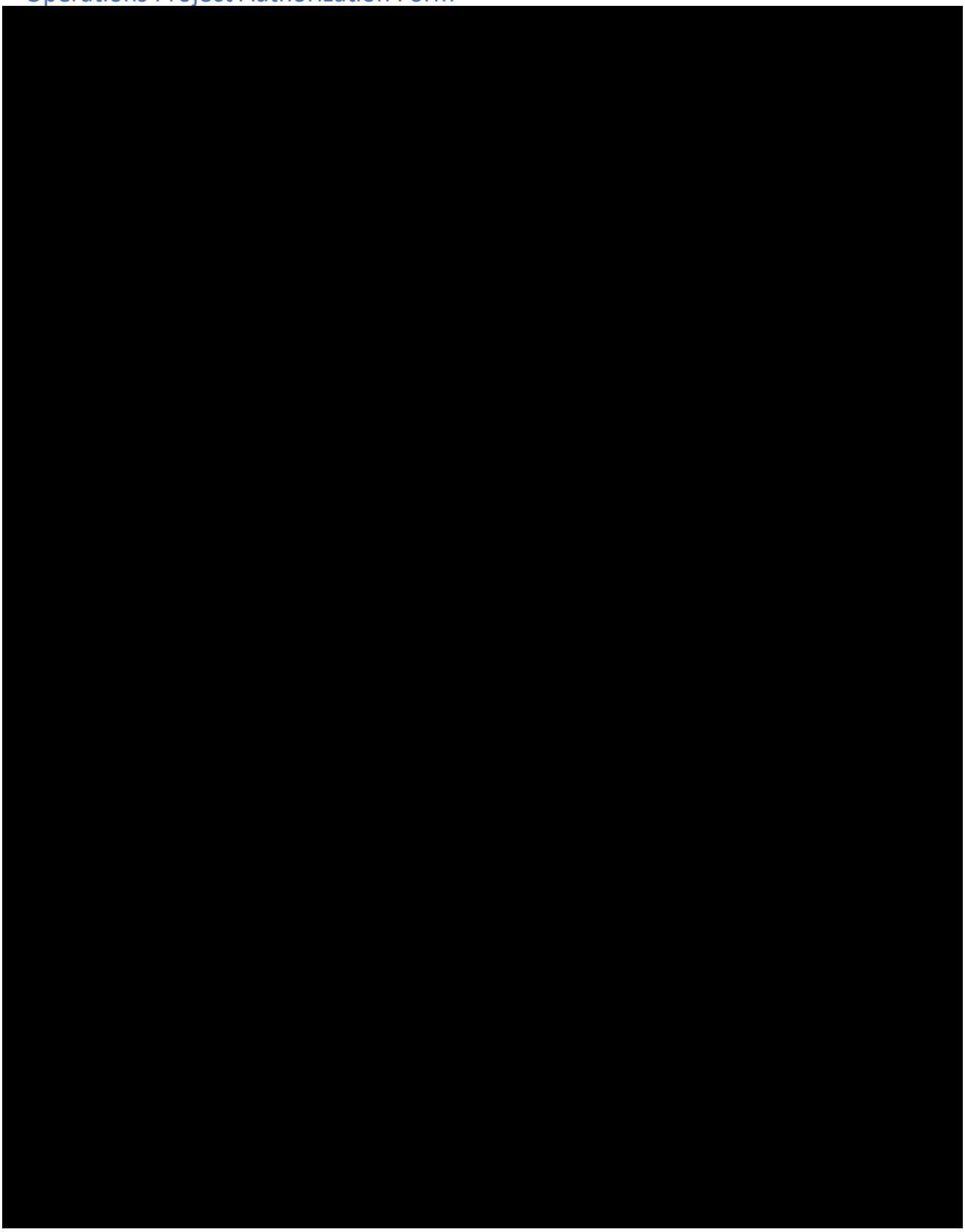
D. Load Summary

[redacted]



Operations Project Authorization Form







EVERSOURCE

Operations Project Authorization Form

Project Title: [redacted] Contingent Overload	**Project Number: CD02470**
Date Prepared: 05/31/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
Project Manager: [redacted]	**Project Type:** OVERLOADS-SPECIFIC PROJECTS
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]

Title: 28M1 Contingent Overload
Division: Western
District: Newtown
Town(s): [redacted]

2. Project Objectives

[redacted]

Project Initiator:_____

Engineering Approval:_____