EVERSOURCE

Project Approval Form

Project Title: Replace Westlake Switchgear with PME	Project Number: CD02499
Date Prepared: 08/02/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** Emergent Equipment Failures - Line
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: 12/30/2024	Feeders: 6A7, 6A8
Total Capital Request: $431.3K	**Authorization Type:** Full Funding

1. Executive Summary

[redacted]

The switchgear is in Middletown, CT, which is part of the East Hampton Area Work Center (AWC) in the Eastern Region.

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2024	2025	2026	Total
Internal Labor and Construction Equipment	39.9	0.0	0.0	39.9
Outside Services	0.0	0.0	0.0	0.0
Materials	148.2	0.0	0.0	148.2
Removals	35.8	0.0	0.0	35.8
Risk and Contingency	30.1	0.0	0.0	30.1
Other	0.0	0.0	0.0	0.0
Subtotal	**254.0**	**0.0**	**0.0**	**254.0**

Indirect Capital Costs	2024	2024	2024	Total
Indirects/Overheads (including benefits)	177.2	0.0	0.0	177.2
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	**177.2**	**0.0**	**0.0**	**177.2**
Total Capital Costs (Gross)	**431.3**	**0.0**	**0.0**	**431.3**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**0.0**	**0.0**	**0.0**	**0.0**

Explain unique payment provisions, if applicable:

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

b. Project Need

[redacted]

c. Project Scope

Major Material

- 2 PME-9 15kV automatic switchgear
- 150’ 500 MCM Cu cable
- 100’ 4/0 AL cable

4. Alternatives Considered

Option 1 involves replacing the existing [redacted]

Option 2 consists of [redacted]

[redacted]

Authorization Type	Full	Full
Capital Cost	$431.3K	$431.3K
Expense Cost	$0.0K	$0.0K
Total Cost	$431.3K	$431.3K
Preferred Option	X	

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	N/A
100% Detailed Engineering Completion	08/15/2024
Fully Funded	09/15/2024
Construction Start	8/30/2024
In Service Date	12/27/2024

6. Regulatory Decisions

7. Codes and Standards

Standards that will be followed:

- DTR 42.061- Tagging of primary cables.
- DTR 44.221- Installation of fault indicators
- DTR 51.102- Cable layout of conduit.
- DSEM 07.012 - Spare Conduits
- DSEM 07.042- DB system Design Philosophy
- DSEM 07.364- UG/DB Design Three Phase Commercial
- DSEM 08.31- 1 Insulated Al Cable Ratings

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.	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	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.	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	High	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.

9. References

References
1. DBS Map – E0097703.pdf
2.
3.
4.
5.

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. System and Station One-Lines	*YES*
D. Load Summary	*YES*

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02499 [redacted]

Work Classification

Category: Line
Type: REL1
Type Desc: SWITCHGEAR
Work Type:

Ownership / Management

AWC: East Hampton
Statewide: No
Owner: [redacted]
Manager: [redacted]

Project Information

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

Budget Summary - Preferred Option

Option 1 - Replacing Switchgear with PMH 9/9 Pair

2024

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	Replace PMH w/ PME	Prelim	0	20%	$431,310	$431,310
				2024 Total:	**$431,310**	**$431,310**
				Total Project:	**$431,310**	**$431,310**

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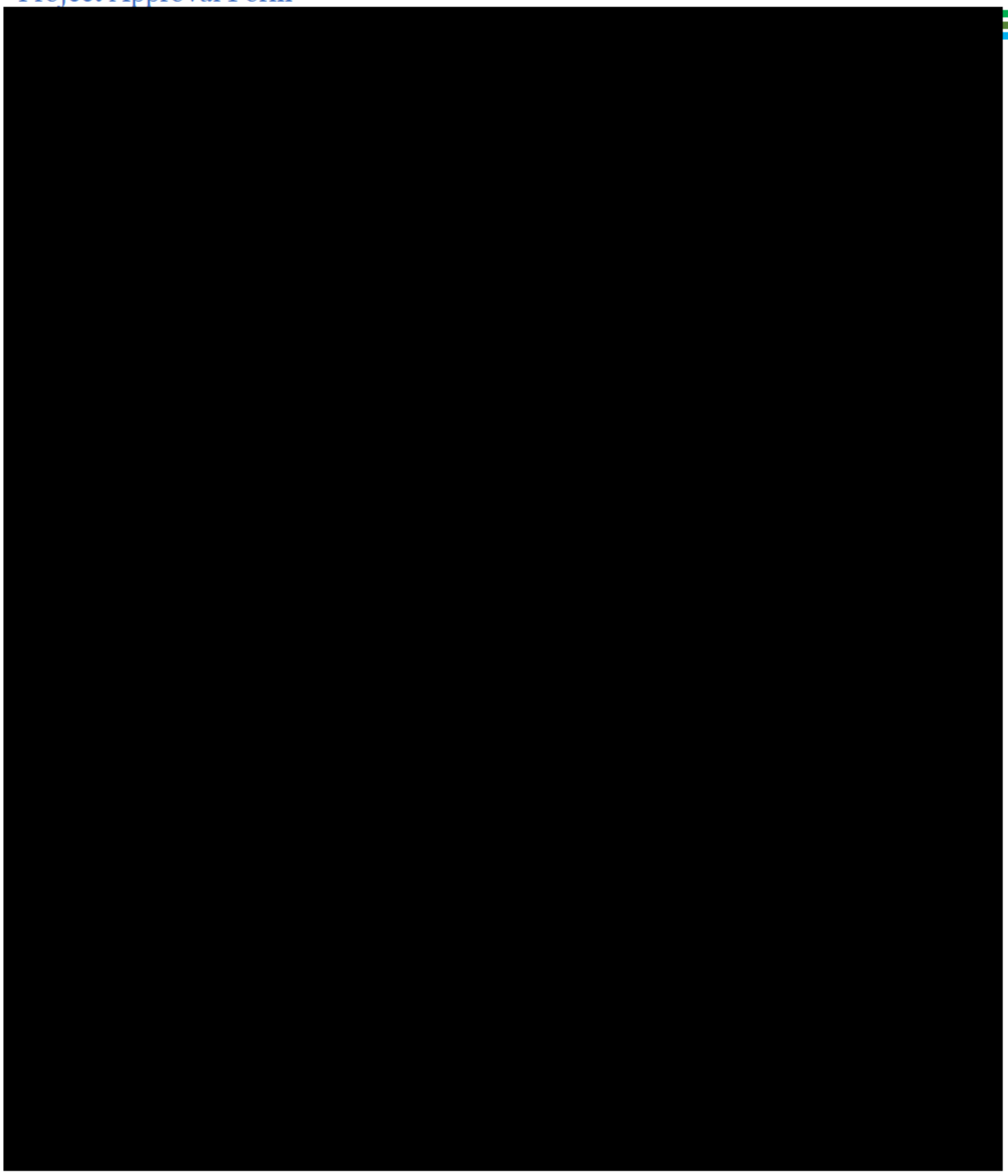

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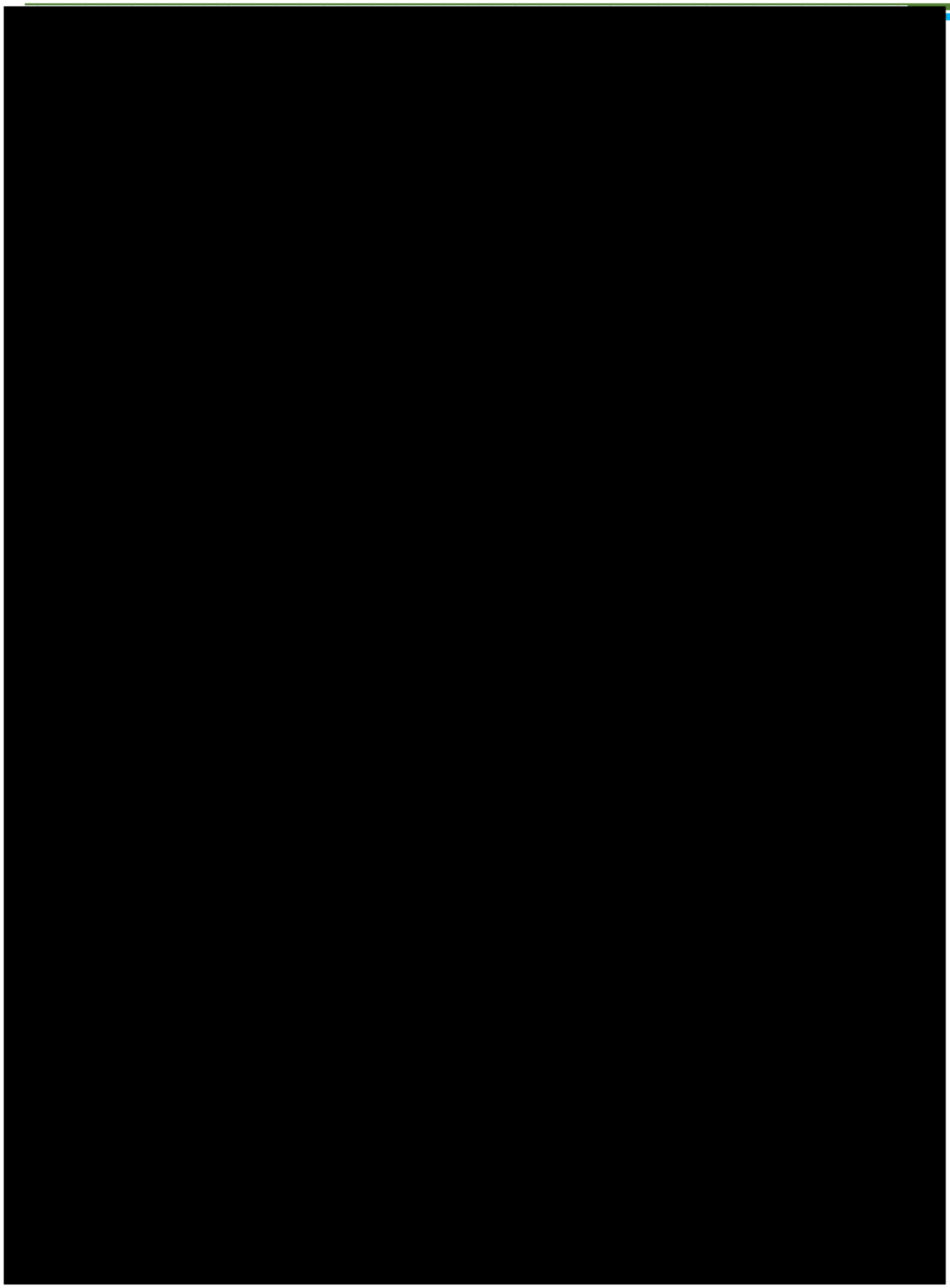

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