EVERSOURCE

Project Approval Form

Project Title: [redacted]	**Project Number: CD02032**
Date Prepared: 12/08/2023	**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: 12/31/24	
Total Capital Request: $217.2K	**Authorization Type:** Full Funding

1. Executive Summary

Project CD02032 was established to address [redacted]

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- There have been zero outages in this zone within the past four years.
- Project Location
  - Division: Central
  - District: Tolland AWC
  - City/Town: Enfield, CT

Project scheduled for completion in 2024. The partial funding estimate for this project was $165K and was approved on 10/25/2022. The full funding estimate is $217.2K; an increase of $52.2K or 32%.

The overspend is due to:

- Legacy Estimating Units were used to estimate partial costs which did not account for increased cost in labor and material which equal an additional $40K.

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2024	2025	Year 3+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	15.1	0.0	0.0	15.1
Outside Services	0.0	0.0	0.0	0.0
Materials	113.1	0.0	0.0	113.1
Removals	6.3	0.0	0.0	6.3
Risk and Contingency	15.2	0.0	0.0	15.2
Other	0.0	0.0	0.0	0.0
Subtotal	149.6	0.0	0.0	149.6
Indirect Capital Costs				
Indirect/Overheads (including benefits)	67.5	0.0	0.0	67.5
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	67.5	0.0	0.0	67.5
Total Customer Contribution	0.0	0.0	0.0	0.0
Total Capital Project Costs	**217.2**	0.0	0.0	**217.2**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[Outage History]

[redacted]

b. Project Need

[redacted]

- [redacted]
- [redacted]

The goal of the Smart Switch program is to reduce the number of customers exposed to an outage event. This project reduces two large customer zones by adding sectionalizing reclosers to isolate outages.

c. Project Scope

The scope of this project is as follows:

- [redacted]
- [redacted]
- [redacted]

Major Material:

- 2 Reclosers
- 2 Sets of Disconnect Switches

4. Alternatives Considered

	Option	
[redacted]		
Estimate Type:	Full	N/A
Capital Cost	$217.2K	
Expense Cost	$6.3K	
Total Cost	$223.5K	
Preferred option	X	

Do nothing not selected since we would continue to impact a large number of customers in the event of any future faults.

5. Project Schedule

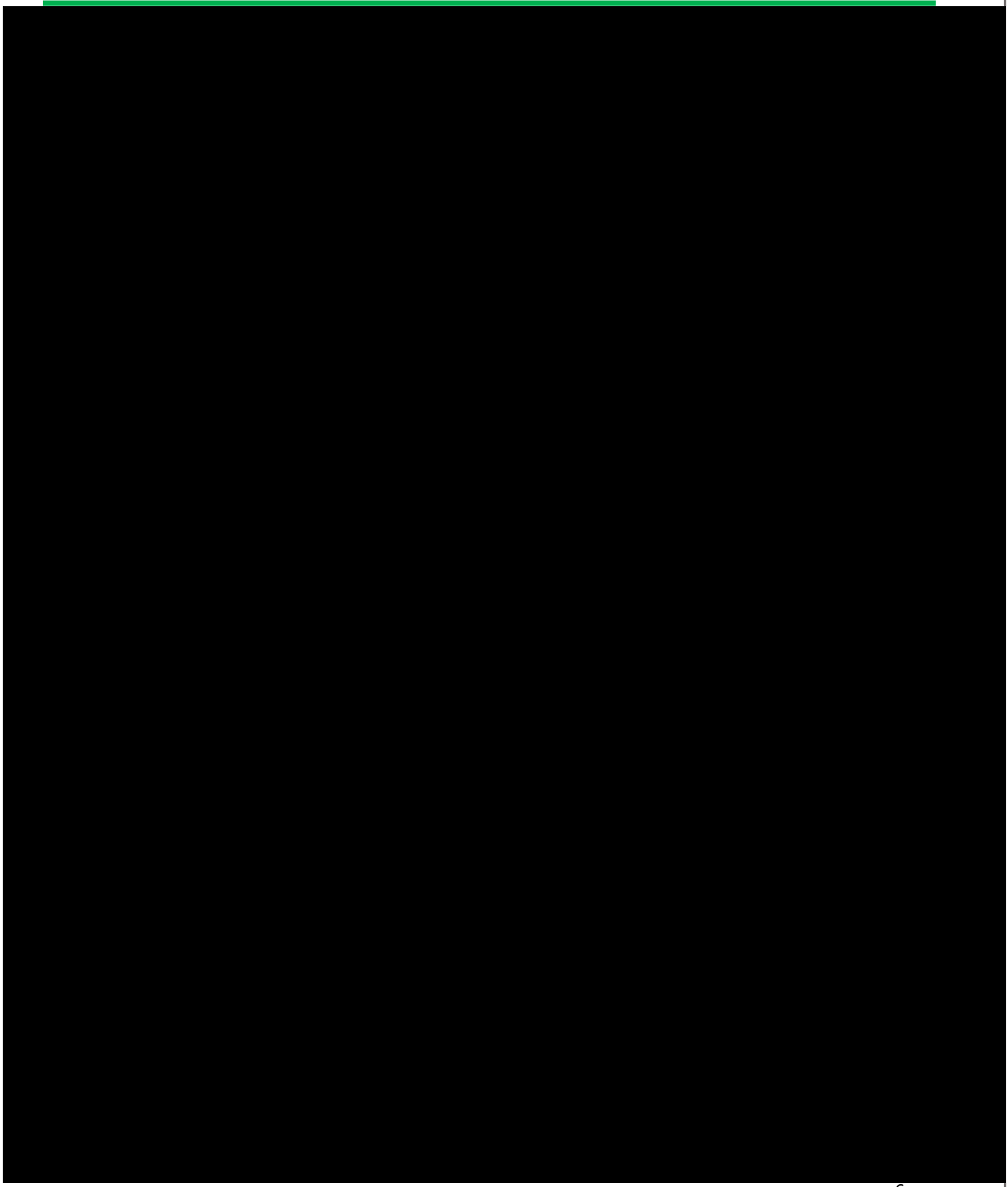
Milestone/Phase Name	Estimated Date
100% Engineering Completion	June 2022
Construction Start	April 2024
Testing/Commissioning	September 2024
In Service Date	December 2024

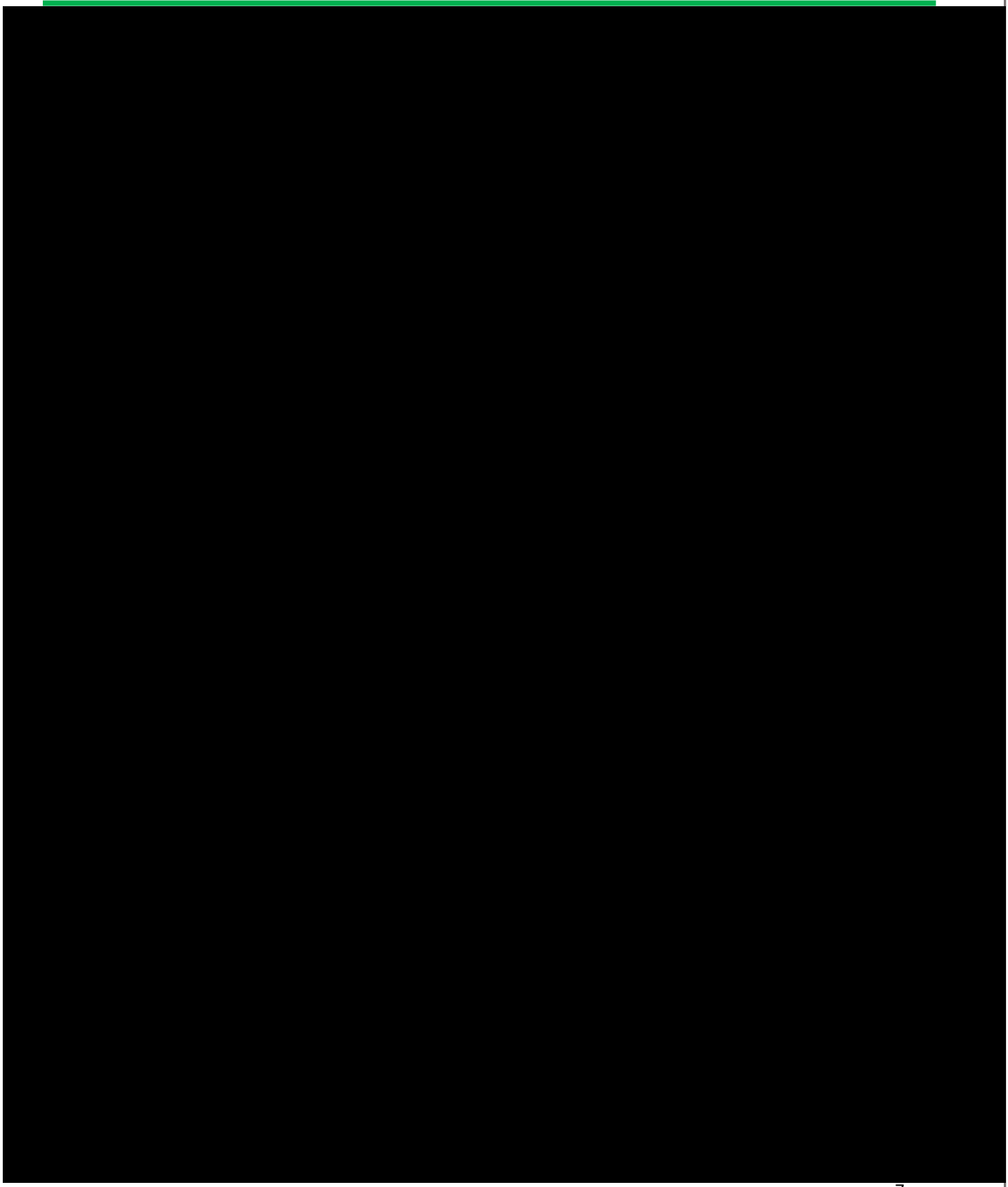
6. Risks and Risk Mitigation Plans

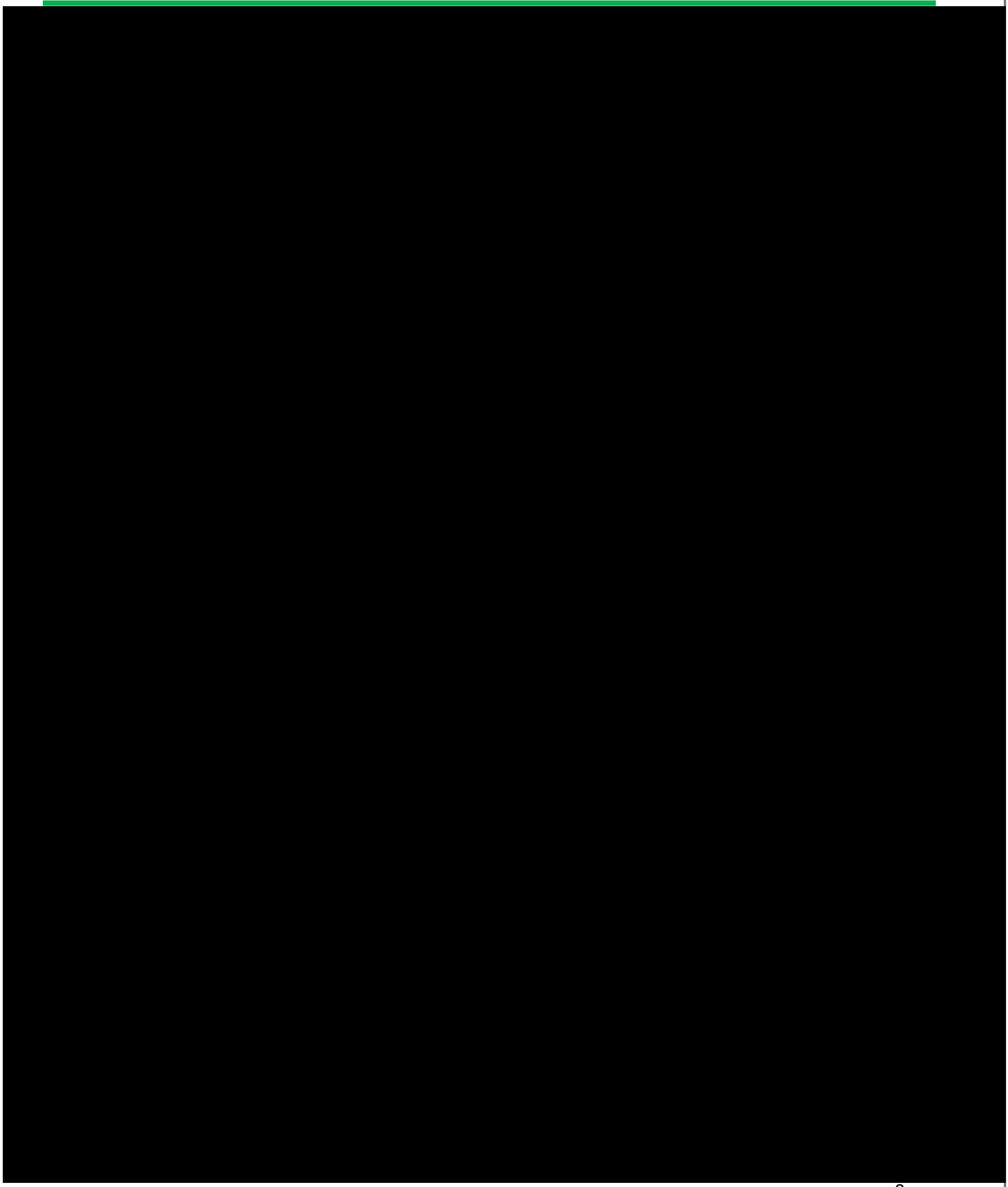
Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	Medium	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Internal construction resources not available to perform the work.	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.	2023	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.

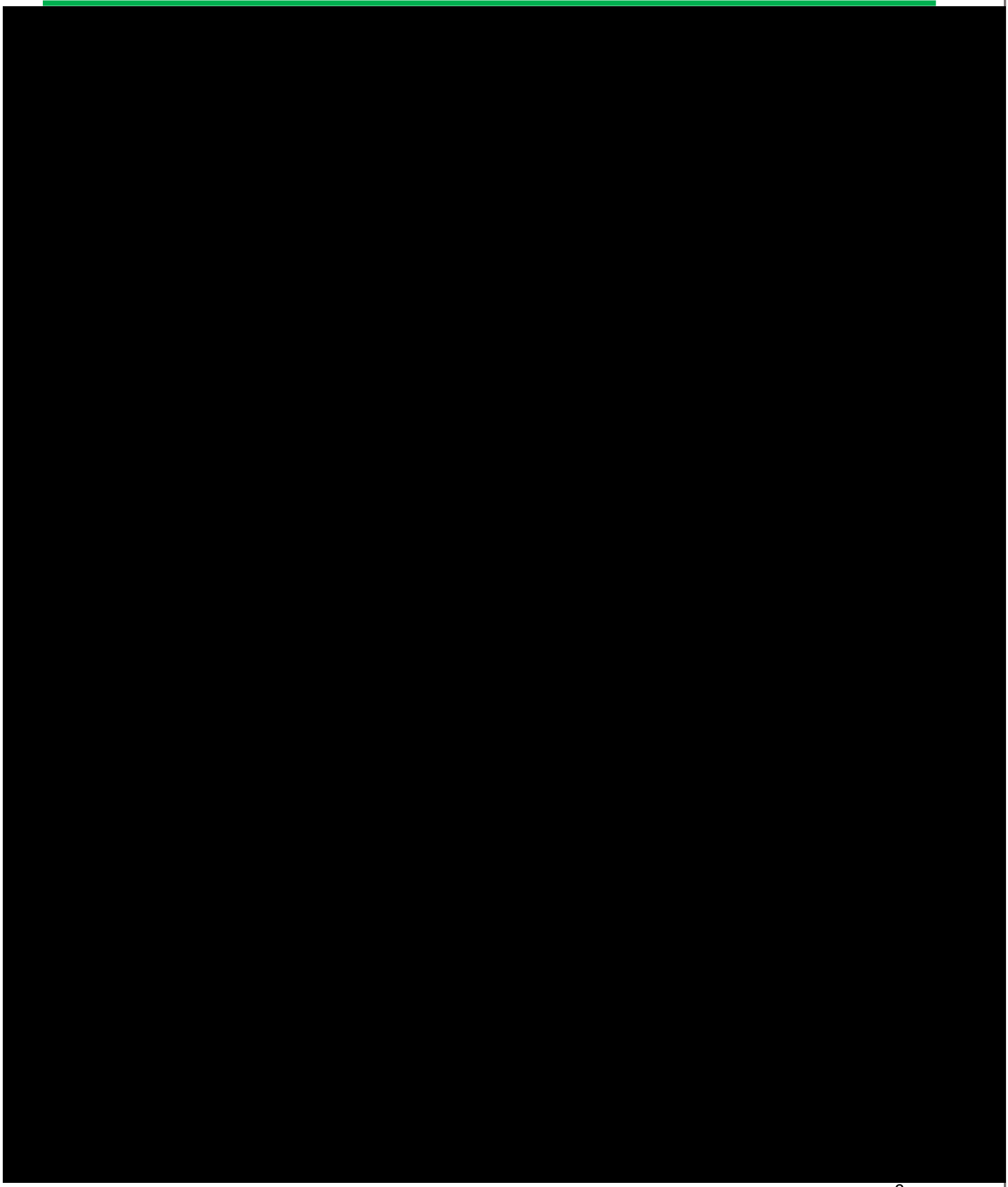
7. Attachments (One Line Diagrams, Images, etc.)

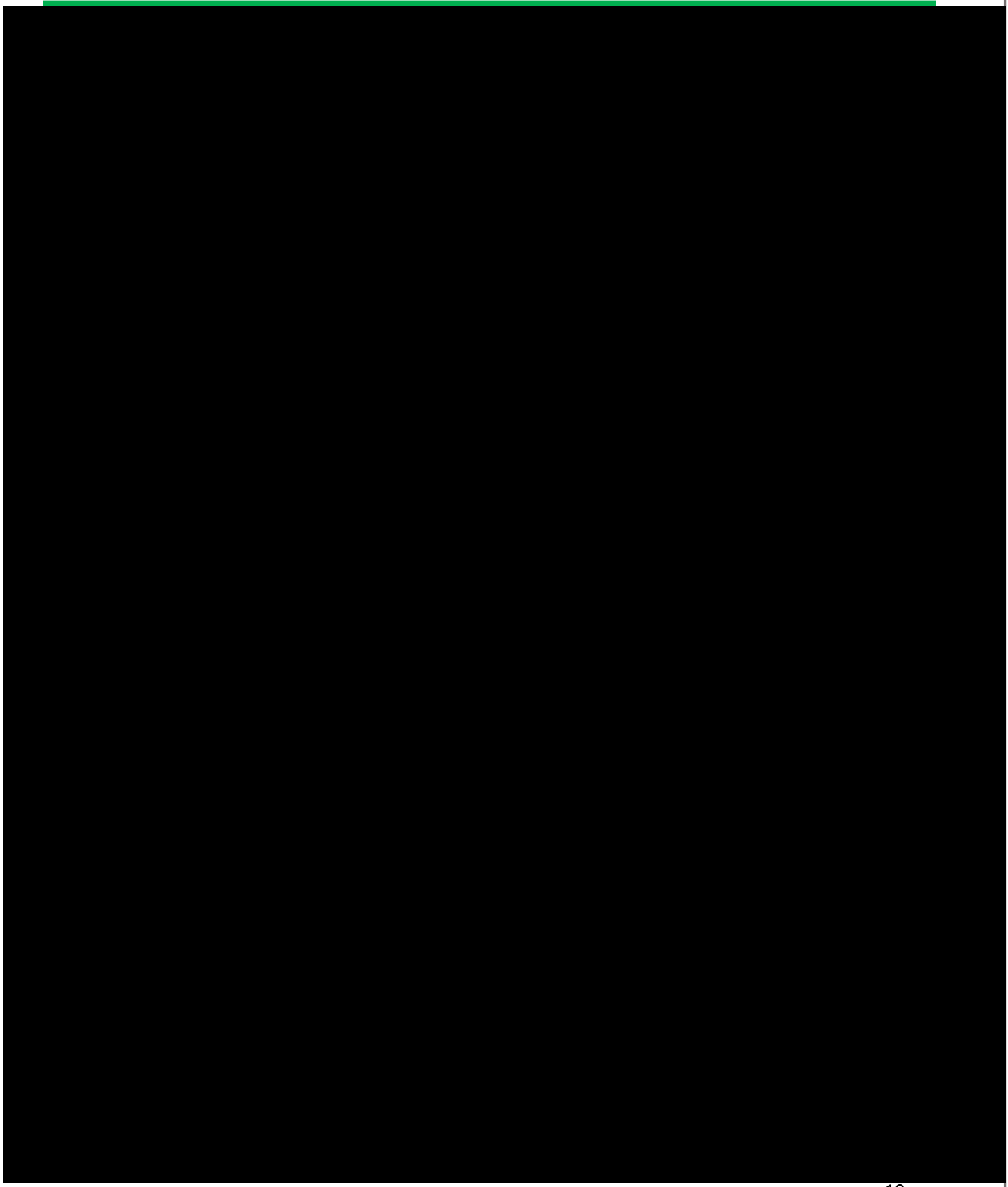
Attachment	Included in Submittal?
A. Calculations & Outage Info	*YES*
B. Load Summary	*YES*
C. Geographic Map	*YES*
D. System One-Lines	*YES*
E. Partial Funding PAF	*YES*











[redacted]

Operations Project Authorization Form

Project Title: [redacted]	**Project Number: CD02032**
Date Prepared: 08/11/2022	**Company: Eversource CT**
Organization: EFO	**Class(es) of Plant: D Line**
Project Initiator: [redacted]	**Project Category: Smart Switch**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan: Yes**
Estimated in service date: 12/31/2024	**Emergency Related Request? Yes**
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☑ Distribution
Total Gross Capital Request: $165K	**Authorization Type: Initial Funding**

Executive Summary

This project is being established to address two large customer zones on the [redacted] in Enfield, CT.

[redacted]

[redacted]

Project Costs Summary

Capital Costs	2022	2023	2024+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	$0	$0	$14	$14
Outside Services	$0	$0	$19	$19
Materials	$0	$0	$60	$60
Removals	$0	$0	$4	$4
Risk and Contingency	$0	$0	$1	$1
Other	$0	$0	$0	$0
Subtotal	**$0**	**$0**	**$98**	**$98**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	$0	$0	$65	$65
Capitalized interest or AFUDC, if any	$0	$0	$2	$2
Subtotal	**$0**	**$0**	**$67**	**$67**
Total Customer Contribution	$0	$0	$0	$0
Total Capital Project Costs	**$0**	**$0**	**$165**	**$165**

Technical Justification:

Project Need, Objective and Justification

[redacted]

- [redacted]
- [redacted]

The goal of the Smart Switch program is to reduce the number of customers exposed to an outage event. This project reduces two large customer zones by adding sectionalizing reclosers to isolate outages.

Project Scope

- [redacted]
- [redacted]
- [redacted].

Major Material:

- 2 Reclosers
- 2 sets of Disconnect Switches

Background

Outage History

[redacted]

[redacted]

Alternatives Considered:

Project is a compliance obligation - no alternatives considered - no financial benefit

Regulatory Approvals:

No

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	June 2022
Construction Start	April 2024
Testing/Commissioning	September 2024
In Service Date	December 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	Medium	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.	2023	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2024	Medium	If storm activity delays work, we may be forced to use external resources.

References

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

[redacted] Calculations & Outage Info.xlsx

[redacted] Load summary.xlsx

CD02032_AIMS_Needs_Statement.pdf

[redacted] Map.pdf

[redacted] Oneline.pdf