EVERSOURCE

Supplement Authorization Form

Project Title: 2024 Large Customer Zones RWO - Eastern	Project Number: CD02202
Date Prepared: 08/04/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SMART SWITCHES PROGRAM
Initiating Organization: Distribution	**Project Type:** Specific
Project DDE: [redacted]	**Capital Investment part of 5-year 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)
Current Authorized Amount: $1,215.3K	**Approved In-Service Date: 12/31/2025**
Supplement Request: $230.7K	**Estimated In-Service Date: 12/31/2025**
Total Capital Request: $1,446K	**Authorization Type:** Supplement Request
	Reason: Cost Overage

1. Project Background

This 2024 Smart Switch Program addresses 40% of the large customer zones feeding over 1000 customers in Connecticut. The installation of multiple smart switches will reduce the customers affected in the event of future outages. CD02202 addresses 5 large customer zones in the Eastern Division of Connecticut with the installation of 12 Viper reclosers across the Danielson, East Hampton, Madison, and New London AWCs. The project was originally deferred to 2026 and now being constructed for 2025.

The original full funding authorized amount was $1,215.3K, approved on 8/1/24. An additional $230.7K is being requested due to increases in labor needed and material costs from when the project was approved. **The total capital request is therefore $1,446K.** There is no scope change on this project.

2. Supplement Justification Overview

An increase in material costs and labor costs have significantly impacted on cost and scale of work required. Please note, there is no scope change on this project. These changes have resulted in an increase in direct and indirect cost, resulting in the budget adjustment in 2025.

3. Supplement Justification Detail

The original budget was developed using historical work order data that no longer reflect today's cost of installing reclosers. There has been a 21.3% increase in the cost of materials, 12% increase in the cost of labor, and 60% increase in the cost of removals. In addition, indirect costs went up 12%.

This amounts to the supplement request for the additional $230.7k.

4. Supplement Cost Summary (Project Total)

Line-item Category	To Date Spend Year(s)	Prior Authorized Year(s)	Variance (Supplemental Request) Year(s)	New Total Request (Add Prior Authorized and Variance) Year(s)
Internal Labor and Construction Equipment	72.8	109.1	13.1	122.2
Outside Services	24.7	56.0	0.0	56.0
Materials	616.2	508.1	108.1	616.2
Removals	44.8	28.0	16.8	44.8
Risk and Contingency	0.0	84.8	26.5	111.3
Other	0.7	7.0	-6.3	0.7
SUBTOTAL DIRECTS W/ RISKS	**759.3**	**793.0**	**158.2**	**951.2**
Indirect / Overhead (including benefits)	473.7	422.4	51.3	473.7
AFUDC	21.1	0.0	21.1	21.1
Subtotal – Indirect Costs	**494.8**	**422.4**	**72.4**	**494.8**
TOTAL CAPITAL REQUEST	**1,254.1**	**1,215.4**	**230.6**	**1,446.0**
Reimbursables/Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
PROJECT TOTAL (LESS REIMBURSABLES)	**1,254.1**	**1,215.4**	**230.6**	**1,446.0**

New Total Request by Year (if applicable)

Note: If multi-year project, include actuals for current and years past, and then show forecasted spend for upcoming years.

Capital Costs	2024 Actual	2025 Actual	2025 Estimate	TOTAL
Internal Labor & Equipment	2.9	93.4	3.0	99.3
Outside Services	0.7	24.2	0.8	25.7
Materials	18.4	601.5	19.3	639.3
Removals	0.5	16.9	1.2	18.6
Risk and Contingency	0.0	0.0	26.5	26.5
Other	0.0	0.7	0.0	0.7
SUBTOTAL Direct Cost	**22.6**	**736.7**	**50.7**	**810.1**
Indirects / Overheads	45.6	428.1	140.7	614.4
AFUDC	2.5	18.5	0.4	21.5
SUBTOTAL Indirect Cost	**48.2**	**446.6**	**141.2**	**636.0**
TOTAL Capital Request	**70.7**	**1,183.4**	**191.9**	**1,446.0**
Less Total Customer Contribution	0.0	0.0	0.0	**0.0**
TOTAL Project Cost	**70.7**	**1,183.4**	**191.9**	**1,446.0**

5. Lessons Learned

N/A

EVERSOURCE

Supplement Authorization Form

Project Title: 2024 Large Customer Zones RWO - Eastern	Project Number: CD02202
Date Prepared: 08/01/2024	**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: 12/31/2025	
Total Capital Request: $1,215.3K	**Authorization Type:** Full Funding

6. Executive Summary

Full funding is being requested for this project at a cost of **$1,215.3K** which is 124.6% of the partial funding capital estimate of $975.5K. Project CD02202 was partially approved on March 30th, 2023.

There is no scope change on the project. The current approved estimate was prepared using legacy unit costs, which are approximately 30% lower than the estimates used today to account for an increase in material and labor costs.

The Original Project was presented as follows:

The 2024 Smart Switch Program addresses 40% of the large customer zones feeding over 1000 customers in Connecticut. The installation of multiple smart switches will reduce the customers affected in the event of future outages. The remaining large zones with over 1000 customers will be addressed under the 2025 Smart Switch Program. One project has been created per division.

CD02202 addresses 5 large customer zones in the Eastern Division with the installation of 12 viper reclosers. The zones addressed and the customers in each zone are listed below:

AWC	DEVICE NAME	CUST IN ZONE
[redacted]		

[redacted]

7. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2025	Year 2	Year 3+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	109.1	0.0	0.0	109.1
Outside Services	56.0	0.0	0.0	56.0
Materials	508.1	0.0	0.0	508.1
Removals	28.0	0.0	0.0	28.0
Risk and Contingency	84.8	0.0	0.0	84.8
Other	7.0	0.0	0.0	7.0
Subtotal – Direct Costs	**792.9**	**0.0**	**0.0**	**792.9**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	422.4	0.0	0.0	422.4
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**422.4**	**0.0**	**0.0**	**422.4**
Total Gross Capital Costs	**1,215.3**	**0.0**	**0.0**	**1,215.3**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**1,215.3**	**0.0**	**0.0**	**1,215.3**

Explain unique payment provisions, if applicable:

8. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Reduce large customers zones by installing additional reclosers.



b. Project Need

Eversource's Smart Switch program identifies large customer zones by installing reclosers to obtain customer zones < 500. This project addresses large customers zones in the Eastern Region.

c. Project Scope

- [redacted] The scope for CD02202 includes:



9. Alternatives Considered

Project Option Comparison

	[redacted]
Authorization Type	Full
Capital Cost	$1,215.3K
Expense Cost	$48.6K
Total Cost	$1,263.9K
Total Cost / MVA added	$3.10M
Preferred option	X

10. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	4/1/23
100% Detailed Engineering Completion	10/31/23

Milestone/Phase Name	Estimated Date
Fully Funded	8/1/24
Construction Start	3/1/25
In Service Date	12/31/25

11. Regulatory Decisions

N/A

12. Codes and Standards

N/A

13. Risk and Contingencies

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2025	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	2025	Medium	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2025	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	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2025	High	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2025	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2025	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	2025	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	2025	Low	Use of mats and specialty equipment, only work during certain times of the year.

14. References

References
1. N/A

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. System and Station One-Lines	*YES*
C. PAF File	*YES*

A. Cost Estimate:

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02202
2024 Large Customer Zones - RWO -Eastern

Segment CD02202-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$126,055
Contingency Amount:	$30,253
Estimate:	$156,308
Reimbursement:	$0
Net Amount:	**$156,308**
Description:	

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	$3,509.60
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$6,000.00
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph	16-OH43	$20,566.40
SECTIONALIZE OH - Recloser - 3ph	16-OH38	$95,979.20

[redacted]

Associated / Impacted Devices

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

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02202

2024 Large Customer Zones - RWO -Eastern

Segment CD02202-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$364,373
Contingency Amount:	$87,449
Estimate:	$451,822
Reimbursement:	$0
Net Amount:	**$451,822**

Description:

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	$7,019.20
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$18,000.00
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph [redacted]	16-OH43	$20,566.40
SECTIONALIZE OH - Recloser - 3ph [redacted]	16-OH38	$47,989.60
SECTIONALIZE OH - Recloser - 3ph [redacted]SS	16-OH38	$47,989.60
SECTIONALIZE OH - Recloser - 3ph [redacted]	16-OH38	$47,989.60
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph [redacted]	16-OH43	$30,849.60
SECTIONALIZE OH - Recloser - 3ph [redacted]	16-OH38	$95,979.20
SECTIONALIZE OH - Recloser - 3ph Relocated MR on [redacted]	16-OH38	$47,989.60

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Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02202

2024 Large Customer Zones - RWO -Eastern

Segment CD02202-03

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$126,055
Contingency Amount:	$30,253
Estimate:	$156,308
Reimbursement:	$0
Net Amount:	**$156,308**

Description:

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	$3,509.60
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$6,000.00
SECTIONALIZE OH - Recloser - 3ph [redacted]	16-OH38	$95,979.20
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph [redacted]	16-OH43	$20,566.40

[redacted]

Associated / Impacted Devices

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

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02202

2024 Large Customer Zones - RWO -Eastern

Segment CD02202-04

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$204,640
Contingency Amount:	$49,114
Estimate:	$253,754
Reimbursement:	$0
Net Amount:	$253,754
Description:	

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	$3,509.60
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$15,000.00
SECTIONALIZE OH - Remove Recloser (any)	16-OH42	$11,312.00
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph	16-OH43	$30,849.60
SECTIONALIZE OH - Recloser - 3ph [redacted]	16-OH38	$47,989.60
SECTIONALIZE OH - Recloser - 3ph [redacted]	16-OH38	$47,989.60
SECTIONALIZE OH - Recloser - 3ph Relocated [redacted]	16-OH38	$47,989.60

[redacted]

Associated / Impacted Devices

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

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B. System and Station One-lines:

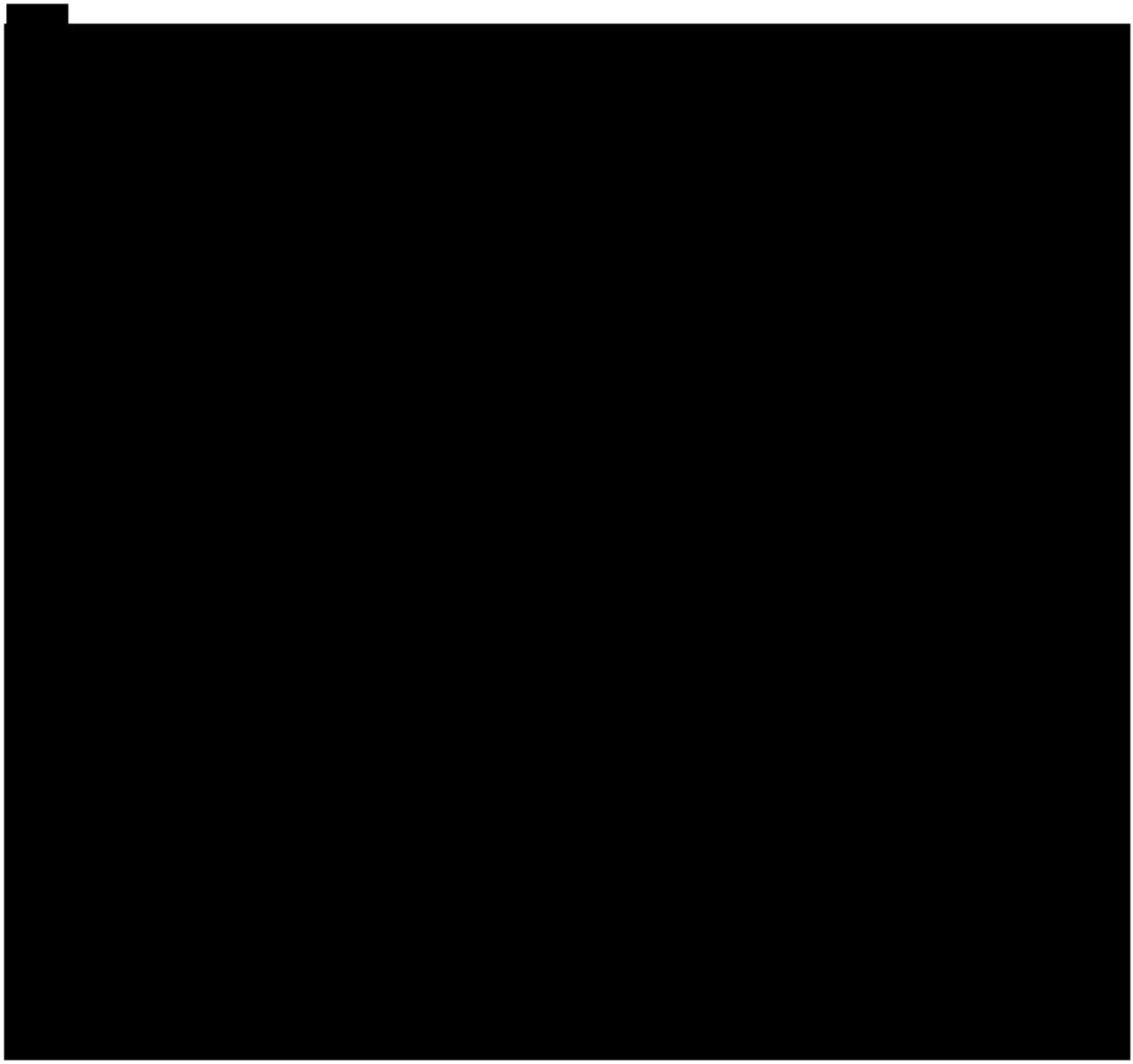
[redacted]

[redacted]

[redacted]

[redacted]





[redacted]

[redacted]

Project Title: 2024 Large Customer Zones RWO - Eastern	Project Number: CD02202
Date Prepared: 03/16/2023	**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: 12/31/2024	
Total Capital Request: 975.5K	**Authorization Type:** Partial Funding

1. Executive Summary

The 2024 Smart Switch Program addresses 40% of the large customer zones feeding over 1000 customers in Connecticut. The installation of multiple smart switches will reduce the customers affected in the event of future outages. The remaining large zones with over 1000 customers will be addressed under the 2025 Smart Switch Program. One project has been created per division.

CD02202 addresses 5 large customer zones in the Eastern Division with the installation of 12 viper reclosers. The zones addressed and the customers in each zone are listed below:



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	53.2	0.0	0.0	53.2
Outside Services	109.1	0.0	0.0	109.1
Materials	506.5	0.0	0.0	506.5
Removals	58.3	0.0	0.0	58.3
Risk and Contingency	2.5	0.0	0.0	2.5
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**729.5**	**0.0**	**0.0**	**729.5**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	234.4	0.0	0.0	234.4
Capitalized interest or AFUDC, if any	11.5	0.0	0.0	11.5
Subtotal – Indirect Costs	**245.9**	**0.0**	**0.0**	**245.9**
Total Gross Capital Costs	**975.5**	**0.0**	**0.0**	**975.5**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**975.5**	**0.0**	**0.0**	**975.5**

Explain unique payment provisions, if applicable:

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

Reduce large customers zones by installing additional reclosers.



b. Project Need

- Eversource's Smart Switch program identifies large customer zones by installing reclosers to obtain customer zones < 500. This project addresses large customers zones in the Eastern Region.

c. Project Scope

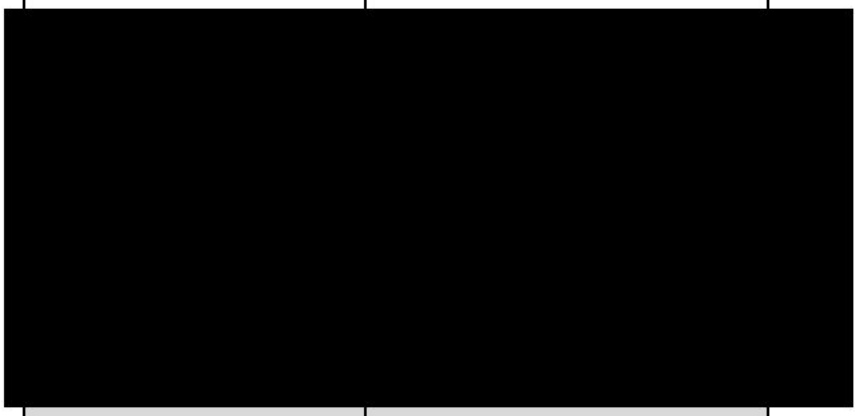
- [redacted]

The scope for CD02202 includes:

[redacted]

4. Alternatives Considered

The only alternative would be to do nothing but was not selected because it does not address the large customer zones that would be affected by a single location outage.



Authorization Type	Partial
Capital Cost	$975.5K
Expense Cost	$42.7K
Total Cost	$1,018.2K
Total Cost / MVA added	$2.5M
Preferred option	X

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	4/1/23
100% Detailed Engineering Completion	10/31/23
Fully Funded	12/31/23
Construction Start	3/1/24
In Service Date	12/31/24

6. Regulatory Decisions

7. Codes and Standards

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	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	Medium	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	Medium	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	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2024	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	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.
2.
3.
4.
5.

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. P6 Schedule	*NO*
C. Geographic Map	*NO*
D. System and Station One-Lines	*YES*
E. Other	*YES / NO / N/A*
F.	