Operations Project Authorization Form

Project Title: DSCADA System Resiliency – [redacted]	**Project Number: SMTNSR**
Date Prepared: 12/22/2022	**Company:** Eversource CT
Organization: Substation Technical Engineering	**Class(es) of Plant:** Telecom
Project Initiator: [redacted]	**Project Category:** Stations - Telecommunications
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 06/30/24	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☐ Distribution X Telecom General Plant
Total Gross Capital Request: $54.4K	**Authorization Type:** Initial Funding

Executive Summary

Briefly describe (in a few sentences) the overall description of the project (do not include technical details)

In Connecticut, Eversource is currently licensed [redacted]

The base station is being installed to load balance and expand the device capacity in the area. [redacted]

(*Actual Unit counts that are within the coverage of the new proposed* [redacted] *location are provided in a table located in the Technical Justification Section.*)

Project Costs Summary

See APS3 and APS8 requirements and consult with Plant Accounting for capital/O&M determination. Use published loaders for benefits, materials, and invoices, maintained by the Director, Budget and Internal Reporting.
Note: Dollar values are in thousands

Capital Costs	Year 2023	Year 2024	Year 20__+	Total
Direct Capital Costs				
Internal Labor	$15			
Outside Services	$15			
Materials				
Removals				
Risk and Contingency				
Other (FCC Modifications)	$15			
Subtotal – Direct Costs	$45			

Indirect Capital Costs				
Indirect/Overheads (including benefits)	$9.4			
Capitalized interest or AFUDC, if any				
Subtotal – Indirect Costs	$9.4			
Total Gross Capital Costs				
Customer Contribution				
Total Net Capital Project Costs	**$54.4**			

Technical Justification:

Project Need, Objective and Justification

Eversource has been investing consistently in its communications infrastructure over time. As a result, the Company has developed robust and secure backhaul networks based on fiber and wireless technologies that extend across the system.

Several different methods are employed to communicate with devices on the system. In Eversource CT, [redacted]

The addition of a [redacted] will provide communications to additional field units to help manage system capacity as well as provide the [redacted]

Additionally, the installation of the [redacted] will allow for the load balancing of units already covered in the area. Table A details the [redacted] Additionally, it depicts [redacted]

Table A

[redacted]	
[redacted]	[redacted]
[redacted]	[redacted]

Eversource is proposing to [redacted]

In the state of Connecticut presently, [redacted]

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Project Scope

A [redacted] All necessary IT equipment will be installed to provide [redacted] All equipment will be installed and configured by Internal Eversource Resources from Communication Network Services and IT Network LAN/WAN groups.

[redacted] have been identified for [redacted] as part of this project, [redacted]

This initial funding will be used to complete the following deliverables:

- Constructability site assessment
- Coverage plots
- Tower elevation drawing
- Rack elevation drawings
- Shelter layout
- [redacted]
- Structural Analysis (if needed)
- Project management throughout initial funding
- Siting review (if needed)
- MPE studies (if needed)

A key to the success of this project is to [redacted]

Eversource presently has [redacted]

Background

The anticipated design capacity of the new [redacted] will be able to [redacted]

Eversource is considering the [redacted]

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Note: [redacted]

Alternatives Considered:

Were alternative solutions considered/applicable? Include any cost/benefit analysis.

Alternatives were considered (please describe below)

[redacted]

Regulatory Approvals:

Are Regulatory body approvals needed for the project?
Yes

If yes, provide detailed regulatory approvals

[redacted]

Project Schedule

Milestone/Phase Name	Estimated Date
Engineering Design Complete	February 2023
Approval for full funding	March 2023
Purchase Equipment Complete	April 2023
Equipment Installation – Start	July 2023
Test & Commissioning	August 2023
Base station In-service and commissioning	September 2023
Equipment Installation Remotes - Complete	June 2024
Project Over all completion	June 2024

Risks and Risk Mitigation Plans

List top risks and mitigation plans associated with this project. Include any contingency related to each risk. (Permitting/siting; environmental; outage constraints; customer/community outreach; material delivery; constructability challenges; excavation; etc.)

- Implementation delays may occur due to resource constraints from other SCADA projects, such as eECS Connecticut.
- [redacted]
- Delays in receiving equipment orders may contribute to delays in project completion.

References

None

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

Reference appendices items in the appropriate section of the PAF and list items in the same order as referenced in the PAF

Appendix A – Cost Estimate