Operations Project Authorization Form

Project Title: [redacted]	**Project Number:** MCRO22TM
Date Prepared: 09/22/2022	**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: Q3 2023	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☐ Distribution **General Plant**
Total Capital Request: $190.28K	**Authorization Type:** Full Funding

Executive Summary

This project is requesting initial funding of $190.28K to [redacted]

Initial funding of $166K was approved in April of 2022. To date, $547.00 has been spent on constructability reviews.

Appendix 2
Operations Project Authorization Form

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 2022	Year 2023	Year 20__+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	6	23.5		29.5
Outside Services	9.5	14		23.5
Materials		72.41		72.41
Removals				
Risk and Contingency		25		25
Other				
Subtotal	15.5	134.91		150.41
Indirect Capital Costs				
Indirect/Overheads (including benefits)	8.4	31.47		39.87
Capitalized interest or AFUDC, if any	0	0		0
Subtotal	8.4	31.47		39.87
Total Customer Contribution				
Total Capital Project Costs	**23.9**	**166.38**		**190.28**

The Cost Estimate for this site can be found in Appendix A.

Technical Justification:

Project Need, Objective and Justification

[redacted]

Project Scope

The project scope is to [redacted]

[redacted]

Appendix 2
Operations Project Authorization Form

Background

[redacted]

[redacted].

In 2010, Eversource awarded a bid to Nera to purchase the Evolution equipment. Subsequently, Ceragon purchased Nera and stopped manufacturing the Evolution radios. The second and third place bidders in this RFP were NEC America and Aviat (formerly Harris and familiar to Eversource). Due to past experience with the Aviat team, familiarity with the equipment and Eversource's [redacted] (who also uses Aviat equipment), Eversource chose to make Aviat the new microwave radio standard.

Using a similar process in 2021 for [redacted]

Alternatives Considered:

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

Alternatives were considered (please describe below)

There is [redacted]

[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
Constructability Review Complete	September 2022
Construction Start	June2023
Testing/Commissioning	July 2023
In Service Date	July 2023

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.)

Contingency:

A 10% contingency has been added to the budget for each year to cover items that are unknown and may appear as the projects progress.

Risk Mitigation:

Risk	Mitigation
1. [redacted]	Replace bad parts
2. Delays in obtaining new equipment	Extended this project into 2023 to allow plenty of time for material to ship
3. Telecom Engineering lacks sufficient human resources	Equipment suppliers can provide support if necessary. This is low risk because it isn't much work for Engineering to replace equipment. Training our current employees to do the licensing and engineering is important to try to keep in house.
4.	
5.	
Total	

References

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

Appendix B - [redacted]