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Operations Project Authorization Form

Project Title: [redacted] **New Service**	**Project Number: CD01364**
Date Prepared: 10/04/2019	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** SPECIFIC PROJECTS-NEW SRVCE
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 12/31/2023	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $421K	**Authorization Type:** Initial Funding

Executive Summary

A new customer will be constructing a new development at [redacted] The project consists of a 7-story residential building with 376 apartment units, 2 floors of enclosed parking, amenities with pool, and a retail space on the ground floor. To serve their load, the customer is requesting [redacted] Two will be employed as an automatic pair, and the third will be a tertiary back-up creating an N-2 service.

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Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	2022	2023	2024+	Total
Internal Labor and Construction Equipment	$35	$0	$0	$35
Outside Services	$119	$0	$0	$119
Materials	$97	$0	$0	$97
Removals	$15	$0	$0	$15
Risk and Contingency	($38)	$0	$0	($38)
Other	$0	$0	$0	$0
Subtotal	**$228**	**$0**	**$0**	**$228**

Indirect Capital Costs	2022	2023	2024+	Total
Indirects/Overheads (including benefits)	$185	$0	$0	$185
Capitalized interest or AFUDC, if any	$8	$0	$0	$8
Subtotal	**$193**	**$0**	**$0**	**$193**
Total Capital Costs (Gross)	**$421**	**$0**	**$0**	**$421**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Project Costs (Net)	**$421**	**$0**	**$0**	**$421**

Technical Justification:

Project Need, Objective and Justification:

The [redacted] project is a new development in the Stamford area. The customer is requesting [redacted] to provide electrical power to its new residential, parking, and other services.

This project will provide electric service to this 7-story residential development that is expected to be built at [redacted]. The service type will be N-2 with an automatic transfer based on the site being in the downtown area of Stamford.

Project Scope:

- Install three [redacted]
- Install a pair of [redacted] to provide the customer's requested service.

The primary cables, switchgears and transformers will be connected as shown in the attachment below.

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[redacted]187
g.pdf

Major Material:

- Three PME-5 Switchgears.
- Four 1000KVA Transformers

Background:

This site is in an N-2 service area in downtown Stamford. The service scheme will supply the load for this 7-story residential development with 376 apartment units, 2 floors of enclosed parking, amenities with pool, and a retail space on the ground floor. The demand for this site is estimated to be approximately [redacted] based on similar buildings and loading in this area.

Alternatives Considered:

Alternatives were considered (please describe below)

[redacted] However, no large new services are being added to the [redacted]

Regulatory Approvals:

Are Regulatory body approvals needed for the project?
No

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	2019
Construction Start	2023
Testing/Commissioning	2023
In Service Date	2023

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Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023	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	2023	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction 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.
Internal engineering resources not available to perform the work.	2023	low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2023	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2023	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

References

Facility Type	Area (ft^2)	Watts Per Square Foot	Estimated Load (Kw)
[redacted]			
		Total	1.6 MW → 70 A

Watt/SF based on EPRI Values[1]

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

[redacted]One lines.pdf

[redacted]Map .pdf

[redacted]Loads.xlsx

CD01364_project_needs_statement.pdf