# Operations Project Authorization Form

| | |
|---|---|
| **Date Prepared:** 05/18/2019 | **Project Title:** Darien New Service – [redacted] |
| **Company/ies:** Eversource | **Project ID Number:** CD01313 |
| **Organization:** Electric Distribution | **Class(es) of Plant:** Distribution |
| **Project Initiator:** [redacted] | **Project Category:** Line |
| **Project Manager:** [redacted] | **Project Type:** Spec Proj – New Service – [redacted] |
| **Project Sponsor:** [redacted] | **Project Purpose:** Provide Electric Service to new Customer |
| **Estimated in service date:** 12/31/2020 | **If Transmission Project: PTF? N/A** |
| **Eng. /Constr. Resources Budgeted?** | **Capital Investment Part of Original Operating Plan?** |
| **Authorization Type:** Initial funding | **O&M Expenses Part of the Original Operating Plan?** |
| **Total Request: $951,000 (CIAC 112,954.32)** | |

## Financial Requirements:

### Project Authorization

ERM: _____

FP&A: _____

### Executive Summary

A new customer will be constructing a new residential and commercial building at [redacted]. The residential building will consist of two 3-story mixed-use buildings and it will offer 120 apartment units that will share a common garage at the basement level. The commercial building will consist of two single story buildings for retail tenants. To serve their load, the customer is requesting [redacted] V. This project proposes to provide service to this new customer using the [redacted] will be addressed in (CD00725 and CD00946 respectively).

The initial funding for this project is $951,000 and the total customer contribution towards this project is $112,954.32.

## Project Costs Summary

| | Prior Authorized | 2019 | 2020 | 20__+ | Totals |
|---|---|---|---|---|---|
| Capital Additions - Direct | $0 | $321,821 | $130,250 | $0 | $452,071 |
| Less Customer Contribution | $0 | $87,608 | $25,347 | $0 | $112,955 |
| Removals net of Salvage ____% | $0 | $35,901 | $14,530 | $0 | $50,431 |
| Total - Direct Spending | $0 | $270,114 | $119,433 | $0 | $389,547 |
| Capital Additions - Indirect | $0 | $247,476 | $100,160 | $0 | $347,636 |
| Subtotal Request | $0 | $517,590 | $219,593 | $0 | $737,182 |
| AFUDC | $0 | $14,507 | $5,872 | $0 | $20,379 |
| Total Capital Request | $0 | $532,097 | $225,464 | $0 | $757,561 |
| O&M | $0 | $57,295 | $23,189 | $0 | $80,484 |
| Total Request | $0 | $589,392 | $248,653 | $0 | $838,045 |

## Financial Evaluation

| Direct Capital Costs | 2019 | 2020 | 2021+ | Total |
|---|---|---|---|---|
| Straight Time Labor | $53,478 | $21,644 | $0 | $75,122 |
| Overtime Labor | $8,669 | $3,508 | $0 | $12,177 |
| Outside Services | $196,793 | $79,647 | $0 | $276,440 |
| Materials | $98,783 | $39,980 | $0 | $138,763 |
| Other, including contingency amounts (describe) | $0 | $0 | $0 | $0 |
| **Total Direct Costs** | **$357,722** | **$144,780** | **$0** | **$502,502** |

| Indirect Capital Costs | Year 1 | Year 2 | Year 3+ | Total |
|---|---|---|---|---|
| Indirects/Overheads (including benefits) | $247,476 | $100,160 | $0 | $347,636 |
| Capitalized interest or AFUDC, if any | $13,253 | $5,364 | $0 | $18,617 |
| **Total Indirect Costs** | **$260,728** | **$105,524** | **$0** | **$366,252** |
| | | | | |
| **Total Capital Costs** | **$618,450** | **$250,303** | **$0** | **$868,754** |
| | | | | |
| Less Total Customer Contribution | **$87,608** | **$25,347** | **$0** | **$112,955** |
| | | | | |
| **Total Capital Project Costs** | **$706,058** | **$275,650** | **$0** | **$755,799** |
| | | | | |
| **Total O&M Project Costs** | **$58,550** | **$23,697** | **$0** | **$82,246** |

| | | | | |
|---|---|---|---|---|
| **Total Project Cost** | **$ 764,608** | **$ 299,347** | **$ -** | **$ 838,045** |

**Technical Justification:**

**Project Need Statement**

[redacted]

**Project Objectives**

[redacted]

**Project Scope**

[redacted]

[redacted]

**Major Material**

- OH Recloser - 3ph ---------- 4
- Padmount XF - 3ph ---------- 7
- OH 175 Mil Tree Wire - 3ph - 556 kcmil ---------- 2900'

**Background / Justification**

A customer is requesting a new service which will consists of two 3-story mixed-use buildings. The buildings will be connected at the basement level by a common garage and offer a total of 120 residential apartment units. There will also be two single story commercial buildings for retail tenants on the site. This amounts to 225,167 Sq. ft of finished space and 78,885 Sq. ft of parking space. Based on the building space and existing buildings of this type, it is estimated that the demand will be approximately [redacted]
Due to the new service, the [redacted]

**Business Process and / or Technical Improvements**:
The requested service for this customer is very large and it is approximately [redacted]

**Alternatives Considered with Cost Estimates**

[redacted]

## Project Schedule

| Milestone/Phase Name | Estimated Completion Date |
|---|---|
| Order Transformer phase 1 | July 2019 |
| Cable work phase 1 | September 2019 |
| Complete Segment 1 | December 2019 |
| Complete phase 1 service | December 2019 |
| Order Transformer phase 2 | January 2020 |
| Cable work phase 2 | March 2020 |
| Complete phase 2 service | July2020 |
| Complete Segment 2 | July 2020 |

## Regulatory Approvals

N/A

## Risks and Risk Mitigation Plans

| Risk Event | Risk Horizon | Likelihood of Occurrence | Risk Mitigation |
|---|---|---|---|
| Actual cost higher than estimated due to scope changes. | 2020 | 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 | 2020 | Low | Design to minimize customer impact. Project Preplanning and customer/community outreach |
| Internal construction resources not available to perform the work. | 2020 | 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. | 2020 | Medium | Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost. |
| Storm delays | 2020 | Low | If storm activity delays work, we may be forced to use external resources. |
| System abnormal configuration | 2020 | 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

load%20Projections.xlsx

## Attachments (One-Line Diagrams, Images, etc.)

EXISTING FEEDER MAP BEFORE.pdf

[redacted] OFFLOAD MAP AFTE

commons noroton [redacted] BEFORE.pd

commons noroton [redacted] AFTER.pdf

[redacted] ONELINE BEFORE-AFTER.pdf

## Cost Estimate Backup Details

CD01313_project_needs_statement.pdf