Operations Project Authorization Form

Date Prepared: 4/15/2021	**Project Title: Norden's Switchgear Replacement**
Company/ies: Eversource CT	**Project ID Number: 1N030212P**
Organization: Distribution Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Line**
Project Manager: [redacted]	**Project Type: Specific – UG Cable & Equip Replacement**
Project Sponsor: [redacted]	**Project Purpose: Replace damaged switchgear**
Estimated in service date: 12/2017	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted? Y	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Final Funding	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $ 203,214	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

This request is for the approval of the [redacted] replacement project for the year 2020 and the work order associated with it. This project is included in an initiative called Project Authorization Process Improvement started in 2020. This initiative was formed to address multiple items including clearing the backlog of APS-1 noncompliant projects. This project falls within that guideline. The Work Order associated with this PAF is 1N030212.

This program funds the replacement of [redacted] damaged in a motor vehicle accident in January 2014.By replacing the damaged switchgear [redacted] this will enable our electricians to operate and safely perform maintenance.

This project was to capture and document the charges of [redacted] A workorder was created to capture labor and material for the replacement of the switchgear.

Project Costs Summary / Financial Evaluation

	Prior Authorized	2020	2021	2022+	Totals
Capital Additions - Direct	$0	$119,574	$0	$0	$119,574
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$13,168	$0	$0	$13,168
Total - Direct Spending	$0	$132,742	$0	$0	$132,742
Capital Additions - Indirect	$0	$68,933	$0	$0	$68,933
Subtotal Request	$0	$201,675	$0	$0	$201,675
AFUDC	$0	$1,414	$0	$0	$1,414
Total Capital Request	$0	$203,089	$0	$0	$203,089
O&M	$0	$125	$0	$0	$125
Total Request	$0	$203,214	$0	$0	$203,214

Financial Evaluation

Direct Capital Costs	2020	2021	2022+	Totals
Straight Time Labor	$16,939	$0	$0	$16,939
Overtime Labor	$6,151	$0	$0	$6,151
Outside Services	$39,063	$0	$0	$39,063
Materials	$68,217	$0	$0	$68,217
Other, including contingency amounts (describe)	$2,372	$0	$0	$2,372
Total Direct Costs	**$132,742**	**$0**	**$0**	**$132,742**

Indirect Capital Costs	2020	2021	2022+	Totals
Indirects/Overheads (including benefits)	$68,933	$0	$0	$68,933
Capitalized interest or AFUDC, if any	$1,413	$0	$0	$1,413
Total Indirect Costs	**$70,346**	**$0**	**$0**	**$70,346**
Total Capital Costs	**$203,088**	**$0**	**$0**	**$203,088**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$203,088**	**$0**	**$0**	**$203,088**
Total O&M Project Costs	**$126**	**$0**	**$0**	**$126**
Total Project Cost	**$ 203,214**	**$ -**	**$ -**	**$ 203,214**

Technical Justification:

Project Need Statement
This project has been established to replace the damaged 27.6kV S&C [redacted] The switchgear unit was damaged in a motor vehicle accident in January 2014 which emerged as a safety issue. Due to the safety issue and wildlife getting into the switchgear, it's necessary to replace the damaged switchgear.

Project Objectives

This project will replace the damaged 2[redacted]. The Vista Switchgear was manufactured in 2010 and has been in service [redacted] The replacement of this switchgear will ensure that work can be performed safely during routine maintenance.

Project Scope
In order to meet the objectives, the project proposes the following:

- [redacted]

Major Material
1 - 27.6kV S&C Vista Switchgear

Background / Justification
[redacted] was damaged in a motor vehicle accident in January 2014 and emerged as a safety issue. The replacement of this gear was stopped by the customer and pursued by our legal department in 2016, but lost focus, resulting in the damaged switchgear not being replaced. Also, the PT is not working which results in the controller not having power. The motor was damaged for the 128L-9S45-269 a long time ago that prevents the switch from moving past the desired position when being operated manually. When the switch is operated manually, it's not a smooth operation. Additionally, the damaged switchgear has an entry point that has allowed for wildlife and ant infestation in the control cabinet and the switch. A Yellow Tagged was placed on the switchgear back in 2019.

Business Process and / or Technical Improvements
By replacing the damaged [redacted], this will enable our electricians to operate and safely perform maintenance.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Project Initiation	01/01/2020
Project In-Service Date	1/27/2021

Regulatory Approvals
None needed

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	Create a PAF if the Work Order cost exceeds $100k
Internal construction resources not available to perform the work.	2020	Low	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	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2021	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2021	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

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

CD01474 - VAPOR BARRIER VISTA GEAF

CD01474 - WR# 3393915 - Replace N