Operations Project Authorization Form

Date Prepared: 12/10/2020	**Reconductor Ringed Portions of** [redacted]
Company/ies: CT	**Project ID Number: CD01652**
Organization: Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Reliability**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Replace Defective Conductor**
Estimated in service date: 12/31/2021	**If Transmission Project: PTF? NA**
Eng. /Constr. Resources Budgeted? No	**Capital Investment Part of Original Operating Plan?**
Authorization Type: Initial Funding	**O&M Expenses Part of the Original Operating Plan?**
Total Request: $390,226	

Executive Summary

[redacted]le will be addressed in this project.This is not an issue where the cable can be repaired but needs to be replaced.

[redacted] attached at bottom of this summary.

Typically spacer cable is used where there are tree problems or clearance problems. In this run of cable there are no tree issues or clearance problems and this is why instead of simply replace the spacer cable with spacer cable, new 556 tree wire will be used.

It should be noted that a separate project for completion in 2022 does call for changing the loop scheme between the two circuits so they no longer will back each other up. This is done because a significant portion of the backbones run along the same pole line.

Project Costs Summary

	Prior Authorized	2021	2022	2023	Totals
Capital Additions - Direct	$0	$222,490	$0	$0	$222,490
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$20,529	$0	$0	$20,529
Total - Direct Spending	$0	$243,018	$0	$0	$243,018
Capital Additions - Indirect	$0	$132,307	$0	$0	$132,307
Subtotal Request	$0	$375,325	$0	$0	$375,325
AFUDC	$0	$2,993	$0	$0	$2,993
Total Capital Request	$0	$378,317	$0	$0	$378,317
O&M	$0	$11,909	$0	$0	$11,909
Total Request	$0	$390,226	$0	$0	$390,226

Financial Evaluation

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$16,523	$0	$0	$16,523
Overtime Labor	$3,016	$0	$0	$3,016
Outside Services	$165,918	$0	$0	$165,918
Materials	$56,840	$0	$0	$56,840
Other, including contingency amounts (describe)	$722	$0	$0	$722
Total Direct Costs	**$243,018**	$0	**$0**	**$243,018**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$132,307	$0	$0	$132,307
Capitalized interest or AFUDC, if any	$2,900	$0	$0	$2,900
Total Indirect Costs	**$135,207**	$0	**$0**	**$135,207**
Total Capital Costs	**$378,225**	$0	**$0**	**$378,225**
Less Total Customer Contribution	**$0**	$0	**$0**	**$0**
Total Capital Project Costs	**$378,225**	$0	**$0**	**$378,225**
Total O&M Project Costs	**$12,001**	$0	**$0**	**$12,001**

Total Project Cost	**$390,226**	$0	**$0**	**$390,226**

Technical Justification:

Project Need Statement

This project has been established to address the following issues :

- [redacted]

Outage History:

[redacted].

Project Objectives

The main objectives of this project are as follows.

[redacted]

Project Scope

In order to meet the above objectives, this project proposes the following:

[redacted]

Major Materials:

- **2,000’ of 556 kcmil tree wire. 2021**

Background / Justification

[redacted]. During a recent survey of spacer cable in the area the two portions of the [redacted]

Business Process and / or Technical Improvements:

[redacted]

Alternatives Considered with Cost Estimates

[redacted]

Project Option Comparison

Design Criteria	[redacted]		
Cost	$390,226	$490,066	
Cost / MVA added	N/A	N/A	
Cost / CM Saved	$5.85	N/A	
Cost / CI Saved	$1,495	N/A	
Preferred option	X		

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering Approval	December 2021
Detail Design	March 2021
Construction	August 2021

Regulatory Approvals

None

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2021	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	2021	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2021	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.	2021	Medium	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 not require system to be abnormal for any extended period of time.

References: *none*

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


072012 NU Report Ringed Cable.docx


IMG_1858.JPG


IMG_1859.JPG


IMG_1862.JPG


CD01652_project_needs_statementRev1


geographic map.pdf


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