Operations Project Authorization Form

Date Prepared: 2/1/2021	**Project Title:** [redacted] Ringed Spacer Cable Replacement
Company/ies: CT	**Project ID Number:** CD01674
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: 12/31/2022	**If Transmission Project: PTF?** NA
Eng. /Constr. Resources Budgeted? No	**Capital Investment Part of Original Operating Plan?** N
Authorization Type: Initial Funding	**O&M Expenses Part of the Original Operating Plan?** N
Total Request: $646,540.80	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

The purpose of this project is to address [redacted].

[redacted]

[redacted]

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2022	2023	2024+	Totals
Capital Additions - Direct	$0	$389,933	$0	$0	$389,933
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$16,323	$0	$0	$16,323
Total - Direct Spending	$0	$406,256	$0	$0	$406,256
Capital Additions - Indirect	$0	$220,715	$0	$0	$220,715
Subtotal Request	$0	$626,971	$0	$0	$626,971
AFUDC	$0	$10,062	$0	$0	$10,062
Total Capital Request	$0	$637,034	$0	$0	$637,034
O&M	$0	$9,507	$0	$0	$9,507
Total Request	$0	$646,541	$0	$0	$646,541

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	2022	2023	2024+	Total
Straight Time Labor	$9,305	$0	$0	$9,305
Overtime Labor	$6,308	$0	$0	$6,308
Outside Services	$356,622	$0	$0	$356,622
Materials	$34,361	$0	$0	$34,361
Other, including contingency amounts (describe)	($340)	$0	$0	($340)
Total Direct Costs	**$406,256**	**$0**	**$0**	**$406,256**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$220,715	$0	$0	$220,715
Capitalized interest or AFUDC, if any	$9,912	$0	$0	$9,912
Total Indirect Costs	**$230,627**	**$0**	**$0**	**$230,627**
Total Capital Costs	**$636,883**	**$0**	**$0**	**$636,883**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$636,883**	**$0**	**$0**	**$636,883**
Total O&M Project Costs	**$9,658**	**$0**	**$0**	**$9,658**
Total Project Cost	**$ 646,541**	**$ -**	**$ -**	**$ 646,541**

Note: Explain unique payment provisions, if applicable

Technical Justification

Project Need Statement

[redacted]

Project Objectives

The goal of this project is to [redacted]

Project Scope

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

[redacted]

Major Materials

- 3500' 556 Spacer cable.

Background / Justification

The 556 Aluminum spacer cable location on [redacted], [redacted].

Business Process and / or Technical Improvements:

Replacing damaged spacer cable with 556 SC will eliminate the risk in system reliability.

Project Option Comparison

	✓		
	2 – SC to SC	**1 – SC to TW**	
Normal loads < 80% of UG rating	N/A	N/A	
Normal loads < 90% of OH rating	X	X	
Contingent loads < 100% of rating	X	X	
All zones < 500 customers	X	X	
Addressing breaker zone and SR zone	N/A	N/A	
Additional ties created	No	No	
Eliminates PILC			
Reconfigure double circuit pole lines where both the normal and alternate supply the same group of customers	No	No	
No automatic circuit ties with circuits emanating from the same bus	No	No	
Eliminate triple circuit pole line	N/A	N/A	
Cost	$646,541	$518,225	
Cost / MVA added			
Cost / CM Saved	$125.82	$100.85	
Cost / CI Saved	$80,817.60	$64,778.10	

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering Approval	January 2021
Detail Design	February 2021
Construction	July 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	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	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 to require system to be abnormal for any extended period of time.

References

None

Attachments (One-Line Diagrams, Images, e

[redacted] CD01674 - Project needs statement.pdf [redacted]