Operations Project Authorization Form

Date Prepared: 05/28/2020	**Reconductor Portions of [redacted]**
Company/ies: CT	**Project ID Number: CD01568**
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: 08/01/2020	**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: $901,000	

Executive Summary

[redacted]

On May 17,2020 and again on June 8, 2020 a squirrel got into bare spots on the spacer cable and caused a burn down of the cable, [redacted] Upon further examination of the cable and a review by the Engineering department, it was determined that [redacted]. This is not an issue where the cable can be repaired but needs to be replaced. [redacted]

[redacted]

See pictures and report regarding ringing 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 bare wire for both feeders in a 3 over 3 formation on crossarms will be installed.

Project Costs Summary

	Prior Authorized	2020__	2021__	2022__+	Totals
Capital Additions - Direct	$0	$513,711	$0	$0	$513,711
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$47,399	$0	$0	$47,399
Total - Direct Spending	$0	$561,109	$0	$0	$561,109
Capital Additions - Indirect	$0	$305,485	$0	$0	$305,485
Subtotal Request	$0	$866,595	$0	$0	$866,595
AFUDC	$0	$6,909	$0	$0	$6,909
Total Capital Request	$0	$873,504	$0	$0	$873,504
O&M	$0	$27,496	$0	$0	$27,496
Total Request	$0	$901,000	$0	$0	$901,000

Financial Evaluation

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	$38,151	$0	$0	$38,151
Overtime Labor	$6,963	$0	$0	$6,963
Outside Services	$383,090	$0	$0	$383,090
Materials	$131,239	$0	$0	$131,239
Other, including contingency amounts (describe)	$1,666	$0	$0	$1,666
Total Direct Costs	**$561,109**	**$0**	**$0**	**$561,109**

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	$305,485	$0	$0	$305,485
Capitalized interest or AFUDC, if any	$6,697	$0	$0	$6,697
Total Indirect Costs	**$312,182**	**$0**	**$0**	**$312,182**
Total Capital Costs	**$873,292**	**$0**	**$0**	**$873,292**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$873,292**	**$0**	**$0**	**$873,292**

Total O&M Project Costs	**$27,708**	**$0**	**$0**	**$27,708**

Total Project Cost	**$ 901,000**	**$ -**	**$ -**	**$ 901,000**

Technical Justification:

Project Need Statement

This project has been established to address the following issues :

- [redacted]
- [redacted]

Outage History:

5/17/2020 Squirrel Across Hendrix Burned Wire Down – 142 Minutes
6/08/2020 Squirrel Across Hendrix Burned 'Wire Down – 132 Minutes

Project Objectives

The main objectives of this project are as follows.

- [redacted]
- [redacted]

[redacted] **Scope**

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

- [redacted]
- [redacted]
- [redacted]
- [redacted]

Major Materials:

- **6,200 Bare ACSR 556 kcmil wire.**

Background / Justification

Triangle [redacted]

Business Process and / or Technical Improvements:

- [redacted]
- [redacted]

Alternatives Considered with Cost Estimates

Project Option Comparison

[redacted]			
Cost	$901,000	$1,135,000	$1.200,000
Cost / MVA added	N/A	N/A	N/A
Cost / CM Saved	$24.76	$24.29	$24.12
Cost / CI Saved	$1,868	N/A	N/A
Preferred option	X		

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering Approval	June 2020
Detail Design	July 2020
Construction	June/July 2020

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.	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 not require system to be abnormal for any extended period of time.

References: *none*

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


CD01568_project_needs_statement.pdf


GEOGRAPHIC MAP.vsdx


072012 NU Report Ringed Cable.docx


Top Event [redacted] [redacted].pptx


IMG_1858.JPG


IMG_1859.JPG


IMG_1862.JPG