Operations Project Authorization Form

Date Prepared: 9/19/19	**Project Title: [redacted] Overload**
Company/ies: CT	**Project ID Number: CD01360**
Organization: Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Overloads – Specific Projects**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Load**
Estimated in service date: 06/30/2020	**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: $1,268,196	

Executive Summary

[redacted]

Project Cost Summary

	Prior Authorized	2020	2021	20__+	Totals
Capital Additions - Direct	$0	$837	$0	$0	$837
Less Customer Contribution	$0	$0	$0	$0	$0
Removals net of Salvage ____%	$0	$50	$0	$0	$50
Total - Direct Spending	$0	$886	$0	$0	$886
Capital Additions - Indirect	$0	$313	$0	$0	$313
Subtotal Request	$0	$1,200	$0	$0	$1,200
AFUDC	$0	$25	$0	$0	$25
Total Capital Request	$0	$1,224	$0	$0	$1,224
O&M	$0	$44	$0	$0	$44
Total Request	$0	$1,268	$0	$0	$1,268

Financial Evaluation

Direct Capital Costs	**Year 1**	**Year 2**	**Year 3+**	**Total**
Straight Time Labor	$54	$0	$0	$54
Overtime Labor	$7	$0	$0	$7
Outside Services	$481	$0	$0	$481
Materials	$350	$0	$0	$350
Other, including contingency amounts (describe)	($5)	$0	$0	($5)
Total Direct Costs	**$886**	**$0**	**$0**	**$886**
Indirect Capital Costs	**Year 1**	**Year 2**	**Year 3+**	**Total**
Indirects/Overheads (including benefits)	$313	$0	$0	$313
Capitalized interest or AFUDC, if any	$24	$0	$0	$24
Total Indirect Costs	**$337**	**$0**	**$0**	**$337**
Total Capital Costs	**$1,223**	**$0**	**$0**	**$1,223**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$1,223**	**$0**	**$0**	**$1,223**
Total O&M Project Costs	**$45**	**$0**	**$0**	**$45**

Project Need Statement

This project has been established to address an [redacted]

Project Objective

[redacted]

Project Scope

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

[redacted]

Background / Justification

[redacted]

Business Process and / or Technical Improvements

This project addresses overload and low voltage conditions.

Alternatives Considered with Cost Estimates

Seg 1 – 4: $683,359

Seg 5: $417,928

Seg 6: $166,908

Table listing 6 segments that eliminate overload and low voltage

Seg 1 – Reconductor 336 s/c, [redacted] 470 feet.	Reconductor with 556 TW	$36,472	$84,142	[redacted].
	Remove existing primary	$1,504		
	Replace 3 poles	$9,352		
	Traffic	$10,000		
	Switching	$10,528		
	Contingency 24%	$16,286		
Seg 2 – Reconductor 2/0 Cu, [redacted] 560 feet.	Reconductor with 556 TW	$43,456	$71,051	[redacted]
	Remove existing primary	$1,824		
	Traffic	$5,000		
	Switching	$7,019		
	Contingency 24%	$13,752		
Seg 3 – Reconductor 2/0 Cu [redacted] up to [redacted] 1,850 feet.	Reconductor with 556 TW	$128,760	$270,169	[redacted]
	Remove existing primary	$5,920		
	Replace 21 poles	$39,160		
	Traffic	$30,000		
	Switching	$14,048		

	Contingency 24%	$52,291		
Seg 4 – Reconductor 2/0 Cu [redacted] 2,030 feet.	Reconductor with 556 TW	$157,528	$257,997	[redacted]
	Remove existing primary	$6,496		
	Traffic	$30,000		
	Switching	$14,038		
	Contingency 24%	$208,062		
Seg 5 – Reconductor #4 Cu, [redacted], 3,150 feet.	Reconductor with 556 TW	$244,440	$417,928	[redacted]
	Remove existing primary	$10,080		
	Replace 15 poles	$28,480		
	Traffic	$40,000		
	Switching	$14,038		
	Contingency 24%	$80,889		
Seg 6 – Reconductor #6 Cu, [redacted], 1,100 feet.	Reconductor with 556 TW	$85,360	$166,908	[redacted]
	Remove existing primary	$3,520		
	Replace 15 poles	$28,480		
	Traffic	$20,000		
	Switching	$7,019		
	Contingency 24%	$32,305		

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Engineering Approval	Sept 2019
Detail Design	Dec 2019
Order Material	Jan 2020
Construction	Apr 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.	2019	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	2019	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2019	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not	2019	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.

available to perform the work.			
Storm delays	2019	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2019	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods

References
none

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


CD01360_project_needs_statement.pdf


NEW LOAD FORM for [redacted] conductor o


CD01360 Reconductor [redacted] Ma