Connecticut Light & Power
The Northeast Utilities System

Specific Project Proposal - Project #: CS00009
CL&P-Purchase of Remote racking units

Work Classification

Category	Substation
Type	REL7
Type Desc	GENERAL MODERNIZATION
Work Type	SSOW

Ownership / Management

AWC	Waterbury
Statewide Project	N
Owner	[redacted]
Manager	[redacted]

Project Information

Status	Prelim Design Approved	**Associated Projects**	
Summary Num		**AIS Score**	
Assignment Id		**Patrol Find Id**	

Summary

ID	Segment Name	Status	Preliminary Estimate	Construction Estimate	Var Amt	In Service
1	Remote racking units	Prelim Design Approved	$367,065		$0	12/31/2014
		Totals	$367,065		$0	

Specific Project Proposal - Project #: CS00009

Design Option Summary

ID	Description	Design Alternatives	Cost	DPU $/CMS	IEEE $/CMS	All $/CMS	Prefrd
1	Apprvd	1	$367,065	$0.00	$0.00	$0.00	☑

Design Option Detail

ID	Title	Status	Estimate	DPU $/CMS	IEEE $/CMS	All $/CMS
1	Remote racking units	Prelim Design Approved	$367,065	$0.00	$0.00	$0.00

Background / Scope

Project Description

The purchasing of remote racking units for substations that do not have a current system that works safely. Two major industry players have been evaluated for ease of operation and over all system costs. After several months of discussions with a formed NU team, the team decided to purchase products from CBS ArcSafe. It was chosen for its over all ease of operation and costs.

Scope Project

Purchase and provide training for 29 remote raking units to be placed in the substations where the team has found not to have the appropriate equipment.

Issue

The need to equip our substations with the ability to safely rack in and out switchgear breakers keeping the employees at a safe distance to the potentially hazardous breaker operation.

Justification of Need

[redacted]. In conclusion to the events investigation, a team was put together to address substation facilities that did not have properly working remote racking units. The team was tasked to equip all substations with the ability to remotely rack all their respective switchgear breakers.

Alternatives

The alternate manufacture was Safe-T-Rack. This remote racking system was similar in operation but required modification of each cubicle where it would be installed. There were some other software features that placed operation interlock key presses that although in theory were beneficial, they were dismissed by the electricians as never to be used and cumbersome. Our electricians follow company guidelines as to the proper steps to be taken when racking in and out a breaker.

Other Considerations

Only the two major product players mentioned above were considered.

If we don't do this project, what will happen?

In the future without the proper racking units, this gap in employee safety could potentially become fatal.

Environmental

Water Pollution No Change

Soil Contamination No Change

Natural Habitats No Change

Oil Spill Risks Considered? ☐

Alternatives considered based on Environmental Impact or Description of Aspects

Safety Concerns With This Project? ☐

Explain

External Stakeholders

Customer Impact / Involvement

 # Customers Impacted

Critical Customers Impacted

Approximate Pole Count (NU)

Approximate Pole Count (Other)

Adjoining Property Owner Consent Required? ☐ **Town Hearing Required?** ☐

Other Utility Pole Custodian Area? ☐ **Easement Required?** ☐

State Highway Permit Required? ☐

Relocation / New Service

New Service Contact **Requestor Type**

Customer Type **State Highway Project #**

Request Number **Route #**

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Segment

General Information

Number 1 Remote racking units

Segment Type S/S - GENERAL **Town** [redacted]

Work Type CS00009 **Trimming Required** ☐

In Service Date 12/31/2014 **Budget Year** 2014

Description **Status** Prelim Design Approved

This segment will include the over all costs for the purchase of 29 planned racking units at various S/S across CT.

Itemized Work List

Major Grid	Minor Grid	Description of Work to be Performed

Estimate

Revision Number 1

Estimate Summary			FERC Mapping		Approval Information	
SubTotal		$339,875	**Capital**	91 %	**By**	[redacted]
Contingency	8 %	$27,190	**Removal**	9 %	**Date**	05/22/2013
Estimate		$367,065	**Expense**	0 %		
Reimbursement		$0				
Net Amount		$367,065				

Details

Item Description		$/per	Qty	Amount	Note
OTHER	11-ALL14	[redacted]	[redacted]	$339,875	
OTHER					
Item not in list					

Associated/Impacted Devices

Status	Type/SysID	Street/Cross St	Structure/Town	Circuit	Map	Cust	Notes

Construction (ACT) Estimate

Construction Estimate Description

Revision Number 1
Estimate Creator [redacted]
Estimate Created 04/02/2013
Approved By

CIAC Amount
Contingency % 7.50 %
By NU ☑
By Contractor ☐

FERC Capital % 91.00 %
FERC Remove % 9.00 %
FERC Expense % 0.00 %
Approved Date

Total Est Amt $0.00
Contingency Amt
Expenditure Amt $0.00
Reimbursement Amt $0.00
Net Estimate Amt