Connecticut Light & Power

A Northeast Utilities Company

Specific Project Proposal - Project #: CS00028
Substation DC Battery Voltage Monitor

Work Classification

Category:	Substation
Type:	REL7
Type Desc:	GENERAL MODERNIZATION
Work Type:	Other Work

Ownership / Management

AWC:	
Statewide:	Yes
Owner:	[redacted]
Manager:	[redacted]

Project Information

Status:	Prelim Design Approved	Associated Projects:	
SPS #:		Assignment ID:	
AIS Score:		Patrol Find ID:	

Budget Summary - Preferred Option — Only option available

2015

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	relay installation	Prelim	0	0 %	$1,180,000	$1,180,000
				2015 Total:	**$1,180,000**	**$1,180,000**
				Total Project:	**$1,180,000**	**$1,180,000**

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Only option available	1	$1,180,000	$0	100 %	$0.00	$0.00	☑

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	relay installation	$1,180,000			$0.00	$0.00

Background / Scope

Issue:

A recent [redacted]. This suggested enhancement was investigated, resulting in the following recommendation.

By Mike Costa

Project Description:

[redacted]

The full write up on this issue is available for your review.

Other Considerations:

This project will address the some odd 70 substations that this condition exist at. A certain number of stations have been identified (43), there are additional stations that have not yet been identified. [redacted] Once the project is established, a request to verify the remaining stations will be asked of from the field.

Contractor estimate is $1.95M

Revision / ACT Comments:

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

Any future events pertaining to the status of the battery charger could result in customer load loss.

Environmental

Water Pollution: No Change Soil Contamination: No Change Natural Habitats: No Change

Alternatives considered based on Environmental Impact or Description of Aspects Oil Spill Risks Considered? ☐

Safety Concerns With This Project? ☐

Explain:

External Stakeholders

Customer Impact / Involvement

Cust. Impacted: Approx. Pole Count (NU):

Crit. Cust. Impacted: Approx. 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 Srvc. Contact: Requestor Type:

Customer Type: State Highway Project #:

Request Number: Route #:

Segment CS00028-01

General Information

Segment:	1 - relay installation			Status:	Prelim Design Approved
Segment Type:	S/S - GENERAL MODERNIZATION	Town:	NEW BRITAIN	Budget Year:	2015
Work Type:	Other	Trimming Required:	☐	In Service Date:	05/31/2016
Description:	The installation of (1) type NGV 125VDC voltage monitoring relay. Wiring an output of the NGV relay to the existing annunciator system for failure indication. **Note: The above description is per station. There are roughly 70 substations with this deficiency.				

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Segment CS00028-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	0.00 %
SubTotal:	$1,180,000
Contingency Amount:	$0
Estimate:	$1,180,000
Reimbursement:	$0
Net Amount:	**$1,180,000**
Description:	Connecting substation DC battery charger to existing annunciator for failure notification.

Item Description	CU	$ / Per	Qty	Amount
OTHER	13-ALL14	[redacted]	[redacted]	$1,180,000.00
OTHER				

Associated / Impacted Devices

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