Date Prepared: 11/23/16	Project Title: Cheshire Highway Crossings
Company/Companies: Eversource CT	Project ID Number: CD00630
Organization: Distribution	Plant Class/(F.P.Type):
Project Initiator:	Project Type: *Specific*
Project Owner/Manager: [redacted]	Capital Investment Part of Original Operating Plan? Y
Project Sponsor: [redacted]	O&M Expenses Part of the Original Operating Plan? Y
Current Authorized Amount: $107,751	Estimated in service date(s): December 2016
Supplement Request: $1,157,430	Other:
Total Request: $1,265,181	

Project Authorization Supplement Justification

This request has been prepared to request additional funding for the System Resiliency Cheshire Highway crossings project. The original "ENG" estimate was approved on 11/4/15 per the OCRC process.

The approved ENG estimate for this work was $107,751 including $30,786 of contingency. The scope of the estimate included upgrading [redacted] poles to grade B construction on major highways and ramps.

One project was created per Area Work Center to facilitate coordination of design, permitting, and construction resources. Pole loading analysis and visual inspections were performed by engineering vendors and CDOT permits have been received and approved. This project will address distribution overhead line structural upgrades such as, pole replacements, double-deadend construction, and improvements and/or additional pole guying to upgrade each crossing. This project includes upgrades to locations in the Cheshire Area Work Center.

Since the original ENG approval amount, the scope of the project has increased to include [redacted] total poles. The Company has selected to outsource the construction and the cost below is representative of the lump sum award for this project.

Details of the project cost increase changes are outlined below.

1. Extensive unrealized costs of traffic control were identified based on CTDOT permits during detailed design. Due to the need for highway traffic control, additions totaled $201,000

2. Additional highway crossings were identified based on further review of pole loading analysis.

3. Additional contractor expenses included incremental costs for labor and material for Frontier poles. Extended work hours and nighttime work is required for some highway crossings based on permits.

4. Lump sum bids were awarded at higher than anticipated costs.

The total value of the changes above is $1,157,430 which is the value of the increase funding authorization that the project seeks in the Supplemental Authorization Request.

Project Authorization Supplement Cost Summary

Distribution Overview of Cost Summary (AIMS Snapshot)

Segment No	Title	Preliminary Estimate	Construction Estimate	Variance Amount	Variance %	In Service Date
CD00630-01	Highway Crossings	$22,603.00	$973,408.20	$950,805.20	4307%	12/31/2016
CD00630-02	Ramp (HWY) Crossings	$85,148.00	$291,773.28	$206,625.28	343%	12/31/2016
		Sum : $107,751.00	Sum : $1,265,181.48	Sum : $1,157,430.48		

Note: ***Preliminary Estimate is the original "ENG" estimate approved on 11/4/16. Construction Estimate is the new detail estimate which includes lump sum bid amounts. Variance amount is the supplemental amount being requested as part of this supplemental PAF Form.***

Supplemental Request Cost Breakdown:

	Prior Authorized	Supplement Request	Total
Capital Additions - Direct	$ -	$ 455,560	$ -
Less Customer Contribution	-	$ -	-
Removals net of Salvage ____%	-	$ 138,261	-
Total Direct Spending	$ -	$ 593,821	$ -
Capital Additions - Indirect	-	$ 289,807	-
AFUDC	-	$ 4,627	-
Total Capital Request	$ -	$ 888,255	$ -
O&M	-	$ 269,175	-
Total Request	**$ 107,751**	**$ 1,157,430**	**$ 1,265,181**

Note: Prior authorized amount (ENG) breakdown is not available due to system constraints.
Note: Supplemental request amount breakdown based on total construction estimate from Detail Design (STORMS).

Total Supplemental Request by year view:

	2016	2017	2018+	Totals
Capital Additions - Direct	$ 455,560			$ 455,560
Less Customer Contribution	$ -			$ -
Removals net of Salvage	$ 138,261			$ 138,261
Total - Direct Spending	$ 593,821	$ -	$ -	$ 593,821
Capital Additions - Indirect	$ 289,807			$ 289,807
AFUDC	$ 4,627			$ 4,627
Total Capital Request	$ 888,255	$ -	$ -	$ 888,255
O&M	$ 269,175			$ 269,175
Total Request	$ 1,157,430	$ -	$ -	$ 1,157,430