Date Prepared: 11/23/16	Project Title: Madison Highway Crossings
Company/Companies: Eversource CT	Project ID Number: CD00634
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: $354,039	Estimated in service date(s): December 2016
Supplement Request: $892,947	Other:
Total Request: $1,246,986	

Project Authorization Supplement Justification

This request has been prepared to request additional funding for the System Resiliency Madison 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 $354,039 including $101,154 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 Madison 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 $166,600

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 $892,947 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	Status	Preliminary Estimate	Construction Estimate	Variance Amount
CD00634-01	Highway Crossings	Prelim Design Approved	$144,774.00	$762,803.88	$618,029.88
CD00634-02	Ramp (HWY) Crossings	Prelim Design Approved	$209,265.00	$484,182.15	$274,917.15
			Sum : $354,039.00	Sum : $1,246,986.03	Sum : $892,947.03

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	$ -	$ 336,115	$ -
Less Customer Contribution	-	$ -	-
Removals net of Salvage ____%	-	$ 52,219	-
Total Direct Spending	$ -	$ 388,334	$ -
Capital Additions - Indirect	-	$ 235,388	-
AFUDC	-	$ 3,025	-
Total Capital Request	$ -	$ 626,747	$ -
O&M	-	$ 266,200	-
Total Request	**$ 354,039**	**$ 892,947**	**$ 1,246,986**

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	$ 336,115			$ 336,115
Less Customer Contribution	$ -			$ -
Removals net of Salvage	$ 52,219			$ 52,219
Total - Direct Spending	$ 388,334	$ -	$ -	$ 388,334
Capital Additions - Indirect	$ 235,388			$ 235,388
AFUDC	$ 3,025			$ 3,025
Total Capital Request	$ 626,747	$ -	$ -	$ 626,747
O&M	$ 266,200			$ 266,200
Total Request	$ 892,947	$ -	$ -	$ 892,947