EVERSOURCE
Project Authorization Form

Project Title: [redacted]	**Project Number: CD00865**
Date Prepared: 04/30/2026	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SPECIFIC PROJECTS-NEW SRVCE
Initiating Organization: Distribution	**Project Type:** Specific
Project DDE: [redacted]	**Capital Investment part of 5-year plan?** Yes
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Current Authorized Amount: $3,381K	**Approved In-Service Date:** 2021
Supplement Request: $720K	**Estimated In-Service Date:** 12/31/2018
Total Capital Request: $4,100K	**Authorization Type: Supplement Request**
	Reason: Cost Overage

1. Project Background

Project CD00865 was created to provide power to customer while maintaining circuit design within Eversource standards.

2. Supplement Justification Overview

The requested amount of $333K is 15% above the authorized direct cost of $2,220K.

3. Supplement Justification Detail

The $333K additional direct spend was mainly due to additional outside services and removal costs.

4. Supplement Cost Summary (Project Total)

Financial Evaluation ($000's)

Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction Equipment	49.2	75.4	-29.7	45.7
Outside Services	1,580.1	1,346.7	120.9	1,467.6
Materials	838.5	797.8	-19.0	778.8
Removals	0.0	0.0	176.0	176.0
Risk and Contingency	80.4	0.0	80.4	80.4
Other	5.2	0.0	4.8	4.8
Subtotal	**2,553.3**	**2,220.0**	**333.4**	**2,553.3**

Indirect Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Indirects/Overheads (including benefits)	1,485.2	1,033.4	451.8	1,485.2
Capitalized interest or AFUDC, if any	61.8	127.2	-65.4	61.8
Subtotal	**1,547.0**	**1,160.6**	**386.4**	**1,547.0**
Total Capital Costs (Gross)	**4,100.4**	**3,380.6**	**719.8**	**4,100.4**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**4,100.4**	**3,380.6**	**719.8**	**4,100.4**

New Total Request by Year (if applicable)

Capital Costs	2017	2018	2019	2020	2021	TOTAL
Internal Labor & Equipment	0.3	38.4	7.0	0.3	-0.3	45.7
Outside Services	8.2	1,234.0	225.5	10.6	-10.7	1,467.6
Materials	4.4	654.8	119.7	5.6	-5.7	778.8
Removals	1.0	143.0	26.1	1.2	4.7	176.0
Risk and Contingency	0.0	0.0	0.0	0.0	80.4	80.4
Other	0.0	4.0	0.7	0.0	0.0	4.8
SUBTOTAL Direct Cost	**13.8**	**2,074.2**	**379.0**	**17.8**	**68.4**	**2,553.3**
Indirects / Overheads	18.0	1,239.9	245.5	-16.0	-2.3	1,485.2
AFUDC	0.2	48.4	12.8	0.4	0.0	61.8
SUBTOTAL Indirect Cost	**18.3**	**1,288.3**	**258.4**	**-15.6**	**-2.3**	**1,547.0**
TOTAL Capital Request	**32.1**	**3,362.5**	**637.4**	**2.2**	**66.1**	**4,100.4**
Less Total Customer Contribution	0.0	0.0	0.0	0.0	0.0	**0.0**
TOTAL Project Cost	**32.1**	**3,362.5**	**637.4**	**2.2**	**66.1**	**4,100.4**

5. Lessons Learned

N/A

Operations Project Authorization Form

Date Prepared: August 6, 2018	**Project Title:** [redacted]
Company/ies: CT	**Project ID Number:** CD00865
Organization: Distribution Engineering	**Class(es) of Plant:** Distribution
Project Initiator: [redacted]	**Project Category:** New Service
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Project Purpose:** Construct UG & OH Line for Niagara Svc
Estimated in service date: December 31, 2018	**If Transmission Project:** No
Eng. /Constr. Resources No	**Capital Investment Part of Original Operating Plan?** No
Authorization Type:ACT Funding	**O&M Expenses Part of the Original Operating Plan?** No
Total Request: $3,452,730	

Financial Requirements:

Project Authorization
ERM: _____

FP&A: _____

Executive Summary

CD00895 is necessary for the [redacted]

Project Costs Summary

	Prior Authorized*	Additional Request	2018**	2019+	Total
Capital Additions Direct	$ -	$ -	$ 2,179,069	0	$2,179,069
Less Customer Contribution	$ -	$ -	$ -	0	$0
Removals Net of Salvage	$ -	$ -	$ 40,882	0	$40,882
Total - Direct Spending	$ -	$ -	$ 2,219,951	$0	$2,219,951
Capital Additions - Indirect	$ -	$ -	$ 1,033,378	0	$1,033,378
AFUDC	$ -	$ -	$ 127,225	0	$127,225
Total Capital Request	$ 381,430	$ 2,999,124	$ 3,380,554	$0	$3,380,554
O&M	$ 13,834	$ 58,342	$ 72,176	0	$72,176
Total Request	**$ 395,264**	**$ 3,057,466**	**$ 3,452,730**	**$0**	**$3,452,730**

* Amount authorized in PowerPlan

** Total amount needed for authorization in PowerPlan based on ACT

ACT lower than ENG estimate because [redacted]

Financial Evaluation

Direct Capital Costs	2018	2019	2020	Total
Straight Time Labor	$ 75,426	0	0	$ 75,426
Overtime Labor		0	0	
Outside Services	$ 1,346,683	0	0	$ 1,346,683
Materials	$ 797,843	0	0	$ 797,843
Other, including contingency amounts	$ -	0	0	$ -
Total	$ 2,219,951	0	0	$ 2,219,951

Indirect Capital Costs	2018	2019	2020	Total
Indirects/Overheads (including benefits)	$ 1,033,378	0	0	$ 1,033,378
Capitalized interest or AFUDC, if any	$ 127,225	0	0	$ 127,225
Total	$ 1,160,602	0	0	$ 1,160,602
Total Capital Costs	$ 3,380,554	0	0	$ 3,380,554
Less Total Customer Contribution	$ -	0	0	$ -
Total Capital Project Costs	$ 3,380,554	0	0	$ 3,380,554
Total O&M Project Costs	$ 72,176	0	0	$ 72,176
Total Project Cost	$ 3,452,730	0	0	$ 3,452,730

Note: Explain unique payment provisions, if applicable

Future Financial Impacts:

Provide below the estimated future costs that will result from the project:
Note: Dollar values are in thousands:

Future Costs	Year 20__	Year 20__	Year20__	Year 20__+	Total Future Project Costs
Capital	$ -	$ -	$ -	$ -	$ -
O&M	-	-	-	-	-
Other	-	-	-	-	-
TOTAL	$ -	$ -	$ -	$ -	$ -

Describe the estimated future Capital, O&M and/or Other costs noted above:

What functional area(s) will these future costs be funded in?_____
A representative from the respective functional area is required to be included as a project approver.

If this is other than a Reliability Project, please complete the section below:

Provide below the estimated financial benefits that will result from the project:
Note: Dollar values are in thousands:

Future Benefits	Year 20__	Year 20__	Year20__	Year 20__+	Total Future Project Benefits
Capital	$ -	$ -	$ -	$ -	$ -
O&M	-	-	-	-	-
Other	-	-	-	-	-
TOTAL	$ -	$ -	$ -	$ -	$ -

Describe the estimated future Capital, O&M and/or Other benefits noted above:

What functional area(s) will these benefits be reflected in?_____
A representative from the respective functional area is required to be included as a project approver.

Asset Retirement Obligation (ARO) and/ or Environmental Cleanup Costs (Environmental Liabilities):

Is there an ARO associated with this project? If yes, please provide details:

Are there other environmental cleanup costs associated with this project? If yes, please provide details:

Technical Justification:

Project Need Statement

[redacted]

Project Objectives

[redacted]

Project Scope

[redacted]

[redacted]

Background / Justification

Due to their proximity to [redacted], the northern parts of Bloomfield and Windsor are experiencing a higher growth rate than other areas of the Hartford District.

[redacted]

The completion of CD00865 is the first step in a series of remedies that will add capacity and improve system reliability.

[redacted]

Business Process and / or Technical Improvements:

Connecticut law requires investor owned utilities that have been granted a franchise, an exclusive right to provide electric service to residential, commercial and industrial customers via public roadways maintained by the State of Connecticut or any Town in Connecticut

Alternatives Considered with Cost Estimates

Do No Work: $ 0

[redacted]

Extend 2A2 with Aerial Cable on Railroad Right-of-Way: $ 3,104,948

[redacted]

Advantages

[redacted] will not be along public roadways. This reduces the possibility of outages caused by fallen trees or vehicles colliding with poles.

No permits or permissions required from the State, Town or property owners to install manholes & duct banks in roadways, cut across customer driveways or set of new poles.

No other utilities share Eversource's poles along our[redacted] railroad R.O.W.

Less complicated overhead line structures and better management of assets. Because the average age of our R.O.W. poles is over 40 years, present resiliency standards require them to be changed. When compared to having to replace Eversource's more recent pole sets [redacted] with 50 footers (to maintain clearances) and replacing 40 foot poles north of [redacted] with 45 footers. The right-of-way construction of setting new poles with 8 pin crossarms and shifting existing primaries/neutral conductors is by far a much simpler construction.

This right-of-way option also, prevents our need to replace [redacted] poles south of [redacted] because no aerial cable it on public streets and the capacity of # 1/0 bare aluminum is sufficient to backup half on [redacted]

Less Customer inconvenience, because there are few industrial and residential customers to cutover.

Disadvantages

[redacted]

Whenever working in the vicinity of an operational rail line, Eversource must hire a railroad flagman for all non-emergency work.

At the end of [redacted], Eversource would have to acquire an easement on private property. This is necessary to bring the[redacted] [redacted]

In the not to distance future, the $ 1,043,840 underground infrastructure and cable installation on [redacted] is going to be necessary.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Initial Funding Authorization	June 2017

Milestone/Phase Name	Estimated Completion Date
Detail Design	September 2017
Full Funding Authorization	August 2018
Begin Construction	July 2018
Complete Construction	December 2018

Regulatory Approvals

None Required

Risks and Risk Mitigation

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2018	Medium	ACT cost is lower than ENG estimate work.
Internal construction resources not available to perform the work.	2018	High	No internal resources will be utilized for construction of our UG or OH lines.
Internal engineering resources not available to perform the work.	2018	Low	Internal resources to provide protection coordination settings and perform this work
Materials Shortage or long lead times	2018	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2018	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2018	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

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

[redacted]

References
See SPAM database for more project details:

Supplement Authorization Form

Project Number:	CD00865			**Project Manager:**	[redacted]
Project Title:	[redacted]			**Construction Rep:**	
Est. Project Start Date:	2018			**Project Engineering:**	
ed Date for ACT Approval:	asap			**Circuit Owner:**	
ACT Date:	06/21/2018			**Eversource Crews:**	
ACT Contact:	[redacted]			**Contractor:**	
				Investment Recovery?	

		Total Project [A]	Segment 02
CURRENT ENG ESTIMATE	=	**$3,952,641**	**$3,952,641**
Eversource Direct Eng/Supv	=	$115,573	$115,573
Eversource Labor	=	$0	$0
Eversource Labor Overtime	=	$0	$0
Per Diem [B]	=	$0	$0
Eversource Equipment	=	$0	$0
Material	=	$1,000,993	$1,000,993
Contractor Labor	=	$1,257,880	$1,257,880
Tree Trimming	=	$2,083	$2,083
Traffic Control	=	$0	$0
Contractor Additional [C]	=	$37,597	$37,597
Contractor Other [D]	=	$0	$0
Other Costs	=	$0	$0
E&S	=	$603,065	$603,065
MDEC	=	$36,086	$36,086
AS&E	=	$31,341	$31,341
AFUDC	=	$127,225	$127,225
Sub-Total	=	$3,211,842	$3,211,842
Contingency [E]	=	$240,888	$240,888
TOTAL PROJECT COST	=	**$3,452,730**	**$3,452,730**
Reimbursable Costs	=	$0	$0
CL&P PROJECT BUDGET	=	**$3,452,730**	**$3,452,730**
ACT / ENG (%)		**87.4%**	**87.4%**

FERC Mapping of estimate:		%	
Additions	=	96%	3,316,265.98
Retirements	=	2%	64,287.60
Expense	=	2%	72,176.22
			3,452,729.80
Total Capital			3,380,553.58

Notes:

(A) Project Costs originate from STORMS

(B) Formula for Per Diem: manhours/8 hrs = Days. Days x Rate = Per Diem $

(Ensure the correct hrs are selected.) Per Diem Rate Used: $ -

(C) Non-Line Contractor, Non-TC and Non-TT costs in STORMS

(D) Contractor costs not in STORMS (e.g., Show-up Costs)

(E) The contingency covers the following: field changes and other unanticipated costs not already captured in "Other Costs"

Contingency %	7.5%
- on Labor	7.5%
- on Equipment	7.5%
- on Material	7.5%
- on Contractor	7.5%
- on Other	7.5%
- on Indirects	7.5%

The Contingency % can be the same for each category or can change by category if needed.

Work Order	WR	Seg #	ES Hours	Contr. Hours
3H722520	2880292	02	0.00	595.78
3H722552	2884910	02	0.00	238.90
3H722553	2884919	02	0.00	125.86
3H722554	2884920	02	0.00	403.67
3H722303	2929681	02	0.00	6,618.93
3H722304	2929739	02	0.00	557.93
3H722302	2960404	02	0.00	239.62
3H722697	3004627	02	0.00	1,774.74
3H723279	3041089	02	0.00	692.42
3H723299	3041977	02	0.00	68.12
Subtotal			**0.00**	**11,315.97**