EVERSOURCE
Project Authorization Form

Operations Project Authorization Form

Date Prepared: 02/01/2021	**Project Title:** [redacted] **Fiber**
Company: Eversource CT	**Project Number:** FP11FIBR
Organization: Substation Technical Engineering	**Class(es) of Plant:** Telecom
Project Initiator: [redacted]	**Project Category:** Lines - Rebuild
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Project Purpose: ADSS Fiber Installation**
Estimated in service date: 12/31/2021	**Capital Investment part of original Oper. Plan:** Yes
Eng./Constr. Resources Budgeted? Yes	**O&M Expenses part of original Oper. Plan:** N/A
Authorization Type: Full Funding	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution
Total Request: $ 356,000	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

[redacted].

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Project Costs Summary

Note: Dollar values are in thousands

Line Item Category	Prior Authorized	Actuals to Date	2021	2022	2023	Total
Labor (PM/Eng/Siting)	$ -	$ -	$ 8	$ -	$ -	$ 8
Labor (Constr/Test)	$ -	$ -	$ 9	$ -	$ -	$ 9
Materials	$ -	$ -	$ 49	$ -	$ -	$ 49
Outside Services	$ -	$ -	$ 190	$ -	$ -	$ 190
Other (Contingency)	$ -	$ -	$ 38	$ -	$ -	$ 38
Total Direct Costs	$ -	$ -	$ 294	$ -	$ -	$ 294
Customer Contribution	$ -	$ -	$ -	$ -	$ -	$ -
Indirect Costs						
NPT	$ -	$ -	$ 3	$ -	$ -	$ 3
Payroll Benefits	$ -	$ -	$ 5	$ -	$ -	$ 5
General Service	$ -	$ -	$ 7	$ -	$ -	$ 7
MDEC	$ -	$ -	$ -	$ -	$ -	$ -
E&S	$ -	$ -	$ 33	$ -	$ -	$ 33
AS&E	$ -	$ -	$ 2	$ -	$ -	$ 2
Lobby Stock	$ -	$ -	$ -	$ -	$ -	$ -
Stores	$ -	$ -	$ -	$ -	$ -	$ -
NSTAR Vehicles	$ -	$ -	$ 1	$ -	$ -	$ 1
Total Indirect Costs	$ -	$ -	$ 50	$ -	$ -	$ 50
Total Costs w/o AFUDC	$ -	$ -	$ 344	$ -	$ -	$ 344
AFUDC	$ -	$ -	$ 12	$ -	$ -	$ 12
TOTALS	$ -	$ -	$ 356	$ -	$ -	$ 356

Breakout Costs

Note: Dollar values are in thousands
*All materials including Eversource purchased and outside service purchased. Note that outside services purchased material included in construction in project cost summary above.

Line item Category	Prior Authorized	Actuals to Date	2021	2022	2023	2024	2025	Total
ST Labor	$	$	$17	$	$	$	$	17$
OT Labor	$	$	0$	$	$	$	$	$
Outside Services Labor	$	$	$190	$	$	$	$	190$
Materials*	$	$	$49	$	$	$	$	49$
Removals	$	$	0$	$	$	$	$	$
Other (Contingency)	$	$	$38	$	$	$	$	38$
Indirects	$	$	$50	$	$	$	$	50$
AFUDC	$	$	$12	$	$	$	$	12$
TOTAL CAPITAL REQUEST - W/O REIMBURSABLES	**$**	**$**	**$356**	**$**	**$**	**$**	**$**	**$356**

**Figure 2 – Bill of Materials for details*
**Figure 3 – Materials Breakout*
**Figure 4 – Fiber Specialty Services*

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Future Financial Impacts:

Provide below the estimated future costs that will result from the project:

Note: Dollar values are in thousands

Future Costs	Year 2021	Year 2022	Year 2023	Year 2024+	Total Future Project Costs
Capital	$ 356	$ -	$ -	$ -	$ 356
O&M	-	-	-	-	-
Other	-	-	-	-	-
TOTAL	**$ 356**	**$ -**	**$ -**	**$ -**	**$ 356**

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

What functional area(s) will these future costs be funded in? **N/A**

Provide below the estimated future financial benefits that will result from the project:

Future Benefits	Year 2021	Year 2022	Year 2023	Year 2024-2032	Total Future Project Benefits
Capital	$ -				0.0
O&M (Leased Line)	-	5.6	5.6	44.8	56.0
Other	-	0.0	0.0	0.0	0.0
TOTAL	**$ -**	**5.6**	**5.6**	**44.8**	**56.0**

Note: Dollar values are in thousands

Describe the estimated future Capital, O&M, and/or Other benefits noted above: **N/A**
*Note that financial benefits O&M figures represent savings

What functional area(s) will these benefits be reflected in? **Distribution Automation**

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

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

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

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Technical Justification:

Project Need Statement

[redacted]

Project Objectives

[redacted]

[redacted]

Project Scope

[redacted]

[redacted]

Note a detailed bill of materials for reference, at the end of this document.

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Background / Justification

[redacted]

Business Process and / or Technical Improvements

Benefits to Eversource include:

- [redacted]

Alternatives with Cost Estimates

- Continue use the existing [redacted] (Estimated O&M cost over 10 years is $56,000). Additional benefits of [redacted] elimination include:
  - [redacted]

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	March 2021
Construction Start	March 2021
Testing/Commissioning	August 2021
Construction End	September 2021
In Service Date	Q4 2022

Regulatory Approvals

Permitting for any underground duct/conduit work is anticipated to be covered under the distribution project.

Risks and Risk Mitigation Plans

Risk	Mitigation
Long lead time for materials	• The fiber has been identified as the longest lead time material and is being pulled from stock • All other hardware (where possible) utilizes existing ES stock coded materials
This project will include work in areas where this impact to residential areas	• The project will minimize that impact by limiting contact to a single instance

Contingency

Fiber is damaged during installation and requires a certain amount rework may be required

References

Figure 1 – Overhead Overall Map



Cost Estimate Backup Details

Figure 2 – Bill of Materials

Item	Qty	Spares	Total Q	Manufactu	Part Number	Material Description	Order Description	Cost ($ per	Total Cost	Notes
1	[redacted]						DATGN526A526B	[redacted]	7473.48	[redacted]
2							3814		199.92	
3							3812		39.69	
4							3805		25.2	
5							108		30.24	
6							ADEW10J1-AL535		7008.56	
7							GH6ILS		419.12	
8							AMBB535		480	
9							3246		288.36	
10							3174		27.4104	
11							109		33.48	
12							FOS20ADSS		3189.24	
13							PLTS4-CO		44	
14							49411-020		47.5	
15							49011-010		120.6	
16							50-2USPHD		52.47	
17							372 W/WASHER		20.14	
18							DS-5		31.9	
19							30327		62.5	
20							BY DESC		57.5	
21							E942J		6.35	
22							E940J		6.84	
23							3578		25.25	
24							GAR3903-BU		75.75	
25							#4-7 STR		8.1	
26							C203-0344		18.5	
27							U194107		4.25	
28							FOSC450-B6-6-NT-0-		1023.4	
29							FOSC-ACC-C-TRAY-		143.1	
30							SMOUV-1120-02		0	
31							PSC730CB1000		0	
								Total Cost	$ 20,962.85	

Non stock coded, quoted material

Figure 3 – Materials Breakout

Item	Cost
Figure 2 - BoM	$20,963
Fiber cable from stock @ 34,000 feet	$27,860
Total	$48,653

Figure 4 – Fiber Specialty Services

PHOENIX COMMUNICATIONS INC.

[redacted]
Shrewsbury, MA 01545

Customer: Eversource
Contact: [redacted]
Project Name: [redacted]

Quote Number:
ES VD Lakeview Sub
Quote Date:
2/12/2021
Quote Valid Until:
3/14/2021
Payment Terms:
Net 30 Days

Unit	Description	TOTAL
OSP	[redacted]	$8,710.00
SPL		$12,465.00
PD	Police Details will be billed upon completion; actual + 10% administrative fee.	$2,750.00

TOTAL **$23,925.00**