EVERSOURCE

Operations Project Authorization Form

Approved at September 02, 2020 EPAC
Link to Meeting Minutes

Date Prepared: 05/30/2018, 09/23/2021 (Rev. 1)	**Project Title: [redacted] – Add Xfmr & Swgr**
Company: Eversource CT	**Project Number: CS00273**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - Transformers**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Project Purpose: Increase Reliability**
Estimated in service date: 6/30/2021	**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):**
Total Request: $10,507K	**☐ PTF ☐ non-PTF ☒ Distribution**

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

[redacted] in [redacted], [redacted]

The original scope included the addition of a [redacted]

The original Project Authorization Form (PAF) was approved for $5,852K in PowerPlan on 08/16/2018. This Revised PAF is requesting an additional $4,655 for a new project total of $10,507K; the detailed breakdown for the request is listed below. The main driver for the additional funding request is the scope change to include [redacted].

[redacted] The COVID-19 protocols also extended the length of the project as crews needed to revise their work practices to work within the guidelines provided. The project is in the final testing and commissioning stage.

The entire project as originally planned has been completed including the [redacted] The main drivers for the increase are the time required for testing (+$813K) which in turn increased both the indirect charges (+$2,355K) and the AFUDC (+$633K). Additionally, substation construction ($+424K) has remained engaged to support the [redacted] Material costs increased by $215K, Engineering increased by $176K and Project Management increased by $39K. Additional justification for the increases is provide below.

- Engineering $176K - Engineering, Design and Project Support is $176K more than the original estimate due to project complexities, many of which were associated with [redacted] which increased the project duration, and thus the engineering and project support resources required. The existing [redacted]. These decisions made sense from an engineering perspective. However, the cost implications of the decisions were most likely not fully understood since this is the first time for [redacted]

- Material $215K - Materials include both the [redacted]

- Construction $424K - Additional effort by both internal and external construction to accommodate the addition work for the 1X conversion as well as the both the [redacted]

- Testing $813K - The complexities of the effort required to test the [redacted] which was not fully understood when the cost estimate was developed.

- Project Management: $39K - Additional time and effort to manage the extended construction duration as well as to understand and quantify the initial scope and budget while documenting the changes needed to get the project in service.

- Indirects: $2,355K - Overheads and indirect charges associated with the additional time and effort by to complete the scope increased based on the direct cost increase.

- AFUDC: $633K - Based on the additional project cost & duration.

COVID protocols also extended the duration of the project as there have been restrictions on the number of personnel that can be working within an enclosed area, contractor access while Eversource crews are working, as well as periodic cleaning and sanitation required. The in-service date was extended from 12/31/2019 to 6/30/2021 which has also impacted the budget.

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Project Costs Summary

Note: Dollar values are in thousands

Line item Category	Prior Authorized	Actuals to Date	2021 to Go	2022	2023	2024	2025	Total
1. ROW / Easements / Land Acquisition								
2. Environmental Approvals / Permits								
3. Outreach								
4. Siting Approvals / Permits								
5. Engineering / Design	$78	$254						$254
6. Materials (Eversource purchased)	$2,820	$3,035						$3,035
7. Construction (incl matl's by contractors)	$1,299	$1,723						$1,723
8. Testing / Commissioning	$109	$922						$922
9. Project Mgmt Team		$39						$39
10. Removals								
11. Other								
12. Risks								
SUBTOTAL DIRECTS W/ RISKS	$4,306	$5,973						$5,973
13. Indirects/Overhead	$1,442	$3,797						$3,797
14. AFUDC	$104	$737						$737
PROJECT TOTAL – BASELINE BUDGET	$5,852	$10,507						$10,507
15. Contingency								
TOTAL CAPITAL REQUEST								
16. Reimbursables/Customer Contribution								
PROJECT TOTAL (LESS REIMBURSABLES)	$5,852	$10,507						$10,507
O&M								
TOTAL REQUEST	$5,852	$10,507						$10,507

Note: Explain unique payment provisions, if applicable: *Provide a detailed breakdown of Other costs here.*

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Breakout Costs

Note: Dollar values are in thousands

Line item Category	Prior Authorized	Actuals to Date	2021 to Go	2022	2023	2024	2025	Total
ST Labor	$1,377	$1,721	$	$	$	$	$	$1,721
OT Labor	$0	$352	$	$	$	$	$	$352
Outside Services Labor	$109	$865	$	$	$	$	$	$865
Materials*	$2,820	$3,035	$	$	$	$	$	$3,035
Removals	$	$	$	$	$	$	$	$
Other	$	$	$	$	$	$	$	$
Indirects	$1,442	$3,797	$	$	$	$	$	$3,797
AFUDC	$104	$737	$	$	$	$	$	$737
TOTAL CAPITAL REQUEST - W/O REIMBURSABLES	**$5,852**	**$10,507**	**$0**	**$**	**$**	**$**	**$**	**$10,507**

*All materials including Eversource purchased and outside service purchased. Note that outside service purchased material included in construction in project cost summary above.

Future Financial Impacts:

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

Future Costs	Year 20__	Year 20__	Year 20__	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?___N/A_____
A representative from the respective functional area is required to be included as a project approver.

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

Future Benefits	Year 20__	Year 20__	Year 20__	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?____N/A_____
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: N/A

Are there other environmental cleanup costs associated with this project? If yes, please provide details:
Yes, there was $54K in Environmental Outside Services for spoils management and hazardous waste disposal to manage and dispose soils from the excavations.

Technical Justification:

Project Need Statement

[redacted]. See attached Figure 1 for the nomenclature diagram. [redacted]

Following original project authorization, [redacted]

These decisions made sense from an engineering perspective. However, the cost implications of the decisions were most likely not fully understood since this is the first time for conversion of an existing switchgear to the [redacted].

The [redacted]

Project Objectives

The main objective of this project is to improve reliability by [redacted]. The proposed changes would [redacted]

Project Scope

The scope of the project is to:

[redacted]

- [redacted]
  - [redacted]
- [redacted] The wall will be lined with sound deadening pads to help with reducing the sound levels to not exceed allowable state mandated values.
  - A sound study was completed to evaluate the impact on property line sound pressure levels as a result of the addition of a second transformer. The sound study concluded property line sound pressure levels [redacted] will be below the maximum sound pressure levels allowed by state regulations. No property line sound pressure level measurements are needed.

[redacted]ransformers and switchgear, so no

The [redacted]

[redacted]

Background / Justification

[redacted] Please refer to the substation capacity bubble chart in the attached Figure 2.

The chart indicates that the [redacted]

[redacted]

Due to past experiences with the surrounding residences on noise issues with the [redacted] there is a risk that abutters will complain about noise levels regardless of compliance with state mandated noise levels. As a result, sound deadening panels will be installed on the required fire wall to mitigate the risk regarding sound levels affecting the surrounding residences. A sound study will be performed at a minimum before the new transformer is installed.

A review of the proposed [redacted]

System Planning conducted a high-level analysis of the addition of the [redacted] This analysis identified a [redacted] will be considered at a later date. Until then, [redacted].

[redacted]

The existing [redacted]. It was decided to apply the [redacted]. The scope changed when it was decided to also [redacted] hese decisions made sense from an engineering perspective. However, the cost implications of the decisions were most likely not fully understood since this is the first time for conversion of an [redacted]

The addition of the [redacted] in each enclosure requires [redacted]

Business Process and / or Technical Improvements:

Benefit to customers will be:

- Improved reliability and compliance with SYS PLAN 010 during contingency situations for the [redacted]
- The addition of a [redacted]
    - [redacted]
- [redacted]
- Adding a [redacted]
    - [redacted]

- [redacted]

Alternatives Considered with Cost Estimates

One alternative is to do nothing; however, this is not recommended because it does nothing to improve the [redacted]

An alternative is to just [redacted] would cost more due to mobilizing construction crews twice and in requesting work zone clearances. The estimated cost to install only the second transformer is $2,940K using internal resources and $3,476K using external resources.

Therefore, the chosen alternative is to install the [redacted]

Project Schedule

Milestone/Phase Name	Estimated Date
Project Approval & PM Assigned - Completed	Q2 - 2018
Engineering/Design - Completed	Q1 - 2020
Procurement - Completed	Q2 - 2020
Construction	Q2 – 2021
Testing/Commissioning	Q2 – 2021
In-Service Date	June 30, 2021
Revised PAF Approval	Q3 - 2021
Project Closeout	Q3 – 2021

Regulatory Approvals

The Connecticut Siting Council will need to approve the project. Since no fence modifications are required, no objection is anticipated. Exempt Modification was submitted and accepted.

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Internal engineering resources not available to perform the work.	2018	Medium	If internal resources will not be available, external resources will be obtained well in advance to ensure availability and least possible cost.
Internal construction resources not available to perform the work.	2019	Medium	If internal resources will not be available, external resources will be obtained well in advance to ensure availability and least possible cost.
Materials Shortage or long lead times	2018	Medium	The major material, transformer and switchgear, will be ordered well in advance to ensure delivery in early 2019.
[redacted]	2019	Medium	[redacted]
Delays due to neighboring abutter complaints	2019	Low - Medium	History has shown that the abutters of this substation are sensitive to noise levels. Efforts will be made to minimize area disturbances.
COVID 19 Restrictions	2020-21	High	COVID Restrictions limited the number of personnel that could be working in a single location. Periodic cleaning as well of absences due to COVID illness or quarantining will extend the project duration

Contingency

No contingency is included in the project total.

References

- SYS PLAN 010
- IEC 61850 Simulator Lab_ Distribution-Scope

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

- Figure 1 - Nomenclature diagram indicating equipment placement
- Figure 2 - Bubble chart indicating transformers that have [redacted]
- Attachment A - Backup Cost Estimate



Figure 1 - Nomenclature diagram indicating equipment placement



Figure 2 - Bubble chart indicating transformers that have

Project Checklist – Transmission and Substation

It is the responsibility of the initiator to contact the subject matter experts in the listed area disciplines to determine if the project considerations contained in this list are applicable to their project. They should fill out the checklist and determine a transition plan for the purpose of project execution. See the PAF Guide for additional instruction.

Project Checklist - Transmission & Substation Capital Project		
Project Name: [redacted] Xfmr & Swgr	**Project Number: CS00273**	
Facility Type: ☐ BPS ☐ BES ☐ PTF ☐ non-PTF ☒ CIP ☒ Distribution		
PLANNING		
Is a NX-9 required?	Yes	
Is an ISO-NE PAC presentation required?	No	
ISO-NE Presentation Date (if completed):	Enter Date	
Cost in ISO-NE Presentation ($M) (if completed):	Enter Cost ($M)	
Is a PPA required?	Yes	
Is a TCA Application Required?	No	
TCA Submittal Date (if submitted):	Enter Date	
Cost in TCA Submittal ($M) (if submitted):	Enter Cost ($M)	
Enter ISO-NE RSP / Asset Condition ID, if assigned:	Enter ISO-NE ID	
PLANNING/PROTECTION & CONTROLS		
Are RAS/SPS/UVLs affected?	No	
OPERATIONS		
Outage Required?	[redacted]	☐ Outage Not Required
Do SCLL Conditions Exist?	Yes	
Has an outage schedule been approved?	Yes	
Are Operations & Maintenance procedures/training required?	No	
STANDARDS		
Does the project include standard equipment and designs?	Yes	
SUBSTATION ENGINEERING		
Does this impact Revenue Metering	Yes	
Is preliminary short circuit/ breaker duty analysis required?	Yes	
Are there any changes to the baseline audible noise?	Yes	
Is there an impact to the existing ground grid?	Yes	
Is a Transient Over Voltage (TOV) analysis required?	No	

Project Checklist - Transmission & Substation Capital Project		
Project Name: [redacted] Xfmr & Swgr		**Project Number: CS00273**
P&C ENGINEERING		
OP-22 - Are PMUs and DDR required?	No	
If BPS, is an NPCC Directory #4 presentation required?	No	
Are ISO-NE OP-24 Appendix B updates necessary?	No	
TRANSMISSION LINE ENGINEERING		
Are there any changes that affect the baseline EMF?	No	
Are there any changes that affect the baseline EMI?	No	
SITING		
Is a Siting filing required? *(If yes, list in regulatory approvals section)*	Yes	
PERMITTING		
Is there any permitting required? *(If yes, list in regulatory approvals section)*	No	
SITING & CONSTRUCTION SERVICES (OUTREACH)		
What is the level of outreach expected?	High	
INITIATOR		
Has a field constructability review been completed?	No	
INVESTMENT RECOVERY		
Does the project require development of an Investment Recovery plan?	No	
COST ESTIMATING		
What team/firm prepared the cost estimate?	Other (specify below)	
Name of the person who prepared the estimate:	Engineering	
Was the estimate reviewed by Eversource Estimating?	No	

Cost Estimate Backup Details

See Attachment A for the cost backup details.

Budget Year:	
Initiative / Job:	
Project Manager:	
Work Order Numbers:	
MID Project ID:	
	185
Authorized: $ 852	
CPR: 00/00/20xx	

2021
[redacted] 2nd xfmr & Swgr
C800273
XXSep-20

Rev 3: +201.5k; CST & TST
Rev 4: +176.5k; CST & TST
Rev 5: +214.0k: CST
Rev 6: +135.9k; CST
Rev 7: +42.3k: TST

2021

DIRECTS	RESOURCE	Priors	2020 Total	JAN Actual	FEB Actual	MAR Actual	APR Actual	MAY Actual	JUN Actual	JUL Actual	AUG Forecast	SEP Forecast	OCT Forecast	NOV Forecast	DEC Forecast	2021 Total	21 POS	Total Project	POS TOTAL
ENGXX	LT	124.1	101.2	4.6	2.3	3.1	4.1		11.6	1.0						26.7		251.9	
(Engineering/ PM/Fees)	AO/AQ Unallocated	-	-													-		-	
	AO/AQ Other	25.4	8.5		0.4	0.2	0.2	1.4	1.8	1.1						5.1		39.0	
	AO/AQ	-	-													-		-	
	AO/AQ	-	-													-		-	
	AO/AQ TAXES	0.0	-				0.0	0.0	0.1	0.0						0.1		0.2	
	OTHER	0.8	1.2	0.0		0.0	0.2	0.0								0.3		2.3	
	ENGXX TOTAL	150.3	110.8	4.6	2.7	3.4	4.5	1.6	13.4	2.1	-	-	-	-	-	32.2	32.2	293.4	293.3
MATXX	LT	4.1	0.9													-		5.0	
(Material)	AO/AQ	-	0.1													-		0.1	
	AM STI	-	-			34.9	-									34.9		34.9	
	AM	2,825.1	159.3	3.8	1.8	10.2	0.2	(0.4)	0.5							16.0		3,000.4	
	OTHER	0.4	0.0													-		0.4	
	MATXX TOTAL	2,829.6	160.3	3.8	1.8	45.1	0.2	(0.4)	0.5	-	-	-	-	-	-	51.0	51.0	3,040.8	3,040.8
CSTXX	LT	328.7	494.8	36.4	34.2	36.5	30.8	86.3	14.6	0.8						239.5		1,063.0	
(Construction)	AO/AQ Unallocated	-	-													-		-	
	AO/AQ Other	198.1	314.3	5.3	1.7	5.4	3.5	1.5	2.1	0.3						19.7		532.1	
	AO/AQ CST rep	-	-													-		-	
	AO/AQ STI	-	-			6.6	-									6.6		6.6	
	AO/AQ TAXES	4.1	2.6	0.2	0.1	0.4	0.1	0.0	0.0	0.0						0.8		7.5	
	OTHER	33.2	54.8	3.9	3.7	3.8	3.1	4.0	1.6	0.0						20.1		108.0	
	CSTXX TOTAL	564.1	866.6	46.7	39.6	52.6	37.8	91.8	18.3	1.0	-	-	-	-	-	286.7	286.7	1,717.2	1,717.3
TSTXX	LT	3.8	568.1	32.0	35.9	51.9	49.0		5.3	7.0						181.0		753.0	
(Test)	AO/AQ Unallocated	-	-													-		-	
	AO/AQ Other	-	-													-		-	
	AO/AQ LCE	5.8	2.4													-		8.1	
	AO/AQ ComRent	-	-	143.0	-											143.0		143.0	
	AO/AQ TAXES	0.2	(0.2)	4.8	-											4.8		4.8	
	OTHER	0.0	9.0	0.6	0.7	1.0	0.8	0.5		0.0						3.7		12.7	
	TSTXX TOTAL	9.8	579.3	180.4	36.6	52.9	49.8	0.5	5.3	7.0	-	-	-	-	-	332.5	332.5	921.6	921.6
MISC. ACCT.	MA	-	-													-	0.0	-	0.0
CONTINGENCY	CONTINGENCY	-	-													-	0.0	-	0.0
TOTAL DIRECTS		3,553.7	1,716.9	234.5	80.7	164.1	92.1	93.3	37.5	10.2	-	-	-	-	-	702.4	702.4	6,973.0	6,973.0
INDIRECTS	Labor Loaders	350.2	780.0	47.8	48.0	59.9	56.4	57.3	23.6	5.9	-	-	-	-	-	298.8		1,429.1	
	ZMI	7.2	31.6	12.1	5.4	7.1	7.4	7.6	3.5	0.9	-	-	-	-	-	44.2		82.8	
	Stores Loaders	51.9	18.2	0.3	0.1	0.1	0.0	0.2	0.1	-	-	-	-	-	-	0.8		68.9	
	Vehicle Allocation	68.7	173.6	13.1	11.0	14.6	15.8	10.0	4.3	1.0	-	-	-	-	-	69.8		311.9	
	E&S	389.6	1,118.4	80.8	36.3	47.5	42.5	43.5	23.2	6.3	-	-	-	-	-	280.0		1,786.0	
	AS&E	56.4	46.3	3.8	1.7	4.0	3.0	3.0	0.9	0.2	-	-	-	-	-	16.8		118.3	
	TOTAL INDIRECTS	924.0	2,168.0	157.8	102.4	133.2	125.1	121.7	56.5	14.3	0.0	0.0	0.0	0.0	0.0	710.1	710.1	3,797.1	3,797.1
TOTAL DIRECTS & INDIRECTS		4,477.8	3,879.9	392.3	183.2	297.2	217.1	215.0	93.0	24.5	0.0	0.0	0.0	0.0	0.0	1,412.4	1,412.5	9,770.2	9,770.2
	ZK - AFUDC	96.2	388.2	36.2	37.4	39.3	39.3	40.2	40.8	21.0	0.0	0.0	0.0	0.0	0.0	253.2	253.2	736.7	736.6
	TOTAL PROJECT	4,573.9	4,268.1	428.5	220.6	336.6	256.4	255.2	133.8	45.5	0.0	0.0	0.0	0.0	0.0	1,665.7	1,665.7	10,506.8	10,506.8
	Cumulative Total Project	4,573.9		9,269.6	9,490.2	9,915.8	10,072.3	10,327.5	10,461.3	10,506.8	10,506.8	10,506.8	10,506.8	10,506.8	10,506.8		0.0	0.0	
	Cum Total Project for AFUDC Calc.	4,573.9		9,269.6	9,490.2	9,915.8	10,072.3	10,327.5	10,461.3	10,506.8	10,506.8	10,506.8	10,506.8	10,506.8	10,506.8				
	Cumulative Current Year			428.5	649.1	974.7	1,231.2	1,486.4	1,620.2	1,665.7	1,665.7	1,665.7	1,665.7	1,665.7	1,665.7				
	Obvent Cash Flow	4,573.0	4,268.1	428.5	220.6	325.6	256.4	255.2	133.8	45.5	-	-	-	-	-	1,665.6		10,506.7	
					(244.5)	(57.6)	(190.6)	(176.4)	(213.2)	(132.8)	(42.5)								

	NTX	Delta	PO	DR		DATE Estimate	Delta
						1.0	(250.9)
						2.0	(37.1)
						3.0	
						4.0	
						5.0	
						6.0	
						7.0	4.7
						28.0	(285.4)
						1.0	(4.0)
						2.0	1.9
	34.921	-	11050297	#476408		5.0	
						3.0	(2,997.4)
						4.0	3.6
						16.0	(3,025.8)
						1.0	(1,062.0)
						2.0	(544.2)
						3.0	
						4.0	
	13.079	6.5	11050297	#476408		5.0	
						6.0	
						7.0	(101.0)
						28.0	(1,689.2)
						1.0	(752.0)
						2.0	(153.9)
						3.0	
						4.0	
	143.041	-		#493116	#484927	5.0	
						6.0	
						7.0	(5.7)
						28.0	(893.6)
						1.0	1.0
						2.0	2.0
approved dire	4,306.0	(1,667.0)	1.39			102.0	(6,871.0)
AD +10%	4,736.6	(1,236.4)					
						1.0	(1,428.1)
						3.0	(79.8)
						2.0	(66.9)
						3.0	(308.9)
						4.0	(1,782.0)
						5.0	(113.3)
						49.0	(3,777.1)
						130.0	(9,650.1)
						1.0	(736.7)
						121.0	(10,386.8)

Authorized	5,852.0 (4,654.8)
All Plus 10%	6,437.2 (4,069.6)
All Plus 15%	6,729.8 (3,777.0)

DIRECTS	RESOURCE	DEC Forecast	JAN Actual	FEB Actual	MAR Actual	APR Actual	MAY Actual	JUN Actual	JUL Actual	JUL Forecast	
ENGXX	LT	2.0	4.6	2.3	3.1	4.1		11.6	1.0	1.0	0.0
(Engineering/ PM/Fees)	AO/AQ Unallocated									0.5	0.5
	AO/AQ Other				0.4	0.2	0.2	1.4	1.8	1.1	(1.1)
	AO/AQ										-
	AO/AQ										-
	AO/AQ TAXES						0.0	0.0	0.1	0.0	(0.0)
	OTHER			0.0		0.0	0.2	0.0			-
	ENGXX TOTAL	2.0		4.6	2.7	3.4	4.5	1.6	13.4	2.1	1.6	(0.5)
MATXX	LT										-
(Material)	AO/AQ										-
	AM STI		34.9			34.9	-				-
	AM			3.8	1.8	10.2	0.2	(0.4)	0.5		-
	OTHER										-
	MATXX TOTAL		34.9	3.8	1.8	46.1	0.2	(0.4)	0.5	-	-	-
CSTXX	LT		30.0	36.4	34.2	36.5	30.8	86.3	14.6	0.8		(0.8)
(Construction)	AO/AQ Unallocated		25.0									-
	AO/AQ Other			5.3	1.7	5.4	3.5	1.5	2.1	0.3		(0.3)
	AO/AQ CST rep											-
	AO/AQ STI		9.0			6.6	-					-
	AO/AQ TAXES			0.2	0.1	0.4	0.1	0.0	0.0	0.0		(0.0)
	OTHER			3.9	3.7	3.8	3.1	4.0	1.6	0.0		(0.0)
	CSTXX TOTAL		64.0	45.7	39.8	52.8	37.8	91.8	18.3	1.0	-	(1.0)
TSTXX	LT		6.9	32.0	35.9	51.9	49.0		5.3	7.0		(7.0)
(Test)	AO/AQ Unallocated											-
	AO/AQ Other											-
	AO/AQ LCE											-
	AO/AQ ComRent		131.4	143.0	-							-
	AO/AQ TAXES			4.8	-							-
	OTHER			0.6	0.7	1.0	0.8	0.5		0.0		(0.0)
	TSTXX TOTAL		138.3	180.4	36.6	52.9	49.8	0.5	5.3	7.0	-	(7.0)
MISC. ACCT.	MA											-
CONTINGENCY	CONTINGENCY											-
TOTAL DIRECTS			239.2	234.6	80.7	164.1	92.1	93.3	37.5	10.2	1.6	(8.7)

DIRECTS	RESOURCE	Priors	2020 Total	JAN Actual	FEB Actual	MAR Actual	APR Actual	MAY Actual	JUN Actual	JUL Actual	AUG Forecast	SEP Forecast	OCT Forecast	NOV Forecast	DEC Forecast	2020 Total	Total Project
ENGXX	LT	124.1	101.2	4.6	2.3	3.1	4.1	-	11.6	1.0	-	-	-	-	-	26.7	251.9
	AO/AQ	25.4	8.5	-	0.4	0.2	0.3	1.4	1.8	1.1	-	-	-	-	-	5.3	39.1
	OTHER	0.8	1.2	0.0	-	0.0	0.2	0.0	-	-	-	-	-	-	-	0.3	2.3
	ENGXX TOTAL																
MATXX	LT	4.1	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0
(Material)	AO/AQ	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1
	AM	2,825.1	159.3	3.8	1.8	45.1	0.2	(0.4)	0.5	-	-	-	-	-	-	51.0	3,000.4
	OTHER	0.4	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4
	MATXX TOTAL																
CSTXX	LT	328.7	494.8	36.4	34.2	36.5	30.8	86.3	14.6	0.8	-	-	-	-	-	239.5	1,063.0
	AO/AQ	202.2	316.9	5.4	1.7	12.4	3.6	1.5	2.1	0.3	-	-	-	-	-	27.1	546.2
	OTHER	33.2	54.8	3.9	3.7	3.8	3.1	4.0	1.6	0.0	-	-	-	-	-	20.1	108.0
	CSTXX TOTAL																
TSTXX	LT	3.8	568.1	32.0	35.9	51.9	49.0	-	5.3	7.0	-	-	-	-	-	181.0	753.0
	AO/AQ	6.0	2.2	147.8	-	-	-	-	-	-	-	-	-	-	-	147.8	155.9
	OTHER	0.0	9.0	0.6	0.7	1.0	0.8	0.5	-	0.0	-	-	-	-	-	3.7	12.7
	TSTXX TOTAL																
MISC. ACCT.	MA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONTINGENCY	CONTINGENCY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL DIRECTS		3,553.7	1,716.9	234.5	80.7	154.1	92.1	93.3	37.5	10.2	-	-	-	-	-	702.4	5,973.0

	2020	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2021
	1,165.0	72.9	72.5	91.5	83.9	86.3	31.4	8.8	-	-	-	-	-	447.3
	327.6	153.2	2.1	12.6	3.9	3.0	4.0	1.3	-	-	-	-	-	180.2
	159.3	3.8	1.8	45.1	0.2	(0.4)	0.5	-	-	-	-	-	-	51.0
	65.1	4.5	4.4	4.8	4.1	4.6	1.6	0.0	-	-	-	-	-	24.0
	-	-	-	-	-	-	-	-	-	-	-	-	-	-