EVERSOURCE

Operations Supplement Request Form

Approved on February 29, 2024 EPAC

Link to Meeting Minutes

Project Title: [redacted] Replacement Project	**Project Number: 201448**
Date Prepared: 02/19/2024	**Company: Eversource CT**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Stations - Switches**
Managing Organization: Project Mgt and Construction	**Schedule ID#: N/A**
Project Manager: [redacted]	**Project Type: Specific**
Project Sponsor: [redacted]	**Capital Investment part of original Op Plan: Yes**
Project Manager's Director: [redacted]	**Estimated in service date: July 2018**
Current Authorized Amount: $869K	**Emergency Related Request? No**
Supplement Request: $230K	**Supplement Type: Supplement**
Total Capital Request: $1,099K	**ISO-NE Approval Required (check all that apply):** ☐ **PAC** ☐ **TCA**
EJ Community Impact: No	

[1] Background

This Project is requesting supplemental funding in the amount of $230K for a total request of $1,099K. The original Full Funding Project Authorization Form (PAF) requested full funding in the amount of $869K to [redacted] This scope of work (SOW) was placed into service in July 2018.

In April 2011, Eversource identified a need at [redacted] estimate for this work was developed by Eversource Substation Engineering the same month for $459K with an anticipated in service date (ISD) within the year 2012.

[redacted] and in November 2011, a Project Change Request (PCR) was submitted by Substation Asset Management requesting

deferment of the ISD to December 2014. This deferment was requested so that the project could take advantage of outages required for the 201197 – South End 1G – 13.2kV Switchgear Refurbishment Project. Furthermore, the SOW under this Project 201448 could not be completed until the switchgear tie and associated transformer cubicles were refurbished under 201197. This PCR did not request additional funding beyond the originally estimated $459K.

A second PCR for Project 201448 was submitted in July 2012 requesting a second deferment of the ISD by approximately one (1) year from December 2014 to December 2015. This second deferment was requested as a result of modifications to the dates associated with the switchgear tie and associated transformer cubicle refurbishments within scope of Project 201197. This second PCR did not request additional funding beyond the originally estimated $459K.

A third (and final) PCR for this Project was submitted in November 2012 requesting a third deferment of the ISD by approximately one (1) year from December 2015 to December 2016. This third deferment was requested as a result of further modifications to the dates associated with the switchgear tie and associated transformer cubicle refurbishments within scope of Project 201197. The third PCR also did not request additional funding beyond the originally estimated $459K.

A Project PAF associated with Project 201448 was submitted in January 2017 with a revised estimate of $869K and an updated ISD of December 2017. The PAF notes delayed project execution as a result of delays associated with 201197, as 201448 could not be completed until the switchgear tie and associated transformer cubicles were refurbished under the 201197project. Furthermore, the PAF notes that additional Protection and Control (P&C), wiring, and 115kV bus and structure insulator replacement scope was added to the project following the creation of the original estimate from April 2011. The PAF was approved in the amount of $869K in PowerPlan on March 17, 2017. Project 201448 was placed into service in July 2018.

[2] Supplement Justification Overview

201448 – South End 1G – 115kV Motor Operated (MOD) Replacement Project has incurred financial spend in excess of the APS 01 limits which has prompted the need for the authoring and approval of this Supplemental Request Form (SRF).

[3] Supplement Justification Detail

The reasons for the project authorization supplement of $230K are summarized below.

1. **Engineering / Design: ($8K)** – The Engineering / Design actuals associated with this project are less than the Engineering / Design costs estimated for the Full Funding PAF as the engineering level of effort for project execution was less than what was anticipated at the time the Full Funding estimate was created.

2. **Materials (by Eversource): ($36K)** – The Materials actuals associated with this project are less than the Materials costs estimated for the Full Funding PAF as the material needs for project execution were less than what was anticipated at the time the Full Funding estimate was created.

3. **Construction: $125K** –The Construction actuals associated with this project are greater than the Construction costs estimated for the Full Funding PAF as the construction activities could not be completed until refurbishment of the switchgear tie and transformer cubicles within scope of 201197 – [redacted] were completed. The 201197 project was subject to multiple delays over the course of several years requiring multiple mobilizations and demobilizations for the construction activities associated with Project 201448.

4. **Testing / Commissioning: $30K** – The Testing / Commissioning actuals associated with this project are greater than the Testing / Commissioning costs estimated for the Full Funding PAF as the estimate associated with the Full Funding PAF did not allocate dollars for testing and commissioning activities.

5. **Other: ($7K)** – The Other actuals associated with this project are less than the Other costs estimated for the Full Funding PAF as this cost category had no dollars allocated within the estimate associated with the Full Funding PAF and this amount was journaled from 201448 – [redacted] throughout project execution.

6. **Indirects/Overhead: $69K** – The Indirects / Overhead actuals associated with this project are greater than the Indirects / Overhead costs estimated for the Full Funding PAF due to ongoing coordination with 201197 – South End 1G – 13.2kV Switchgear Refurbishment Project. Furthermore, the increase in Direct charges to Project 201448 have also contributed to the increase within the Indirects / Overhead charges.

7. **AFUDC: $59K** –The AFUDC actuals associated with this project are greater than the AFUDC costs estimated for the Full Funding PAF due to ongoing coordination of construction activities with 201197 – South End 1G – 13.2kV Switchgear Refurbishment Project.

8. **Contingency: ($2K)** – The Contingency actuals associated with this project are less than the Contingency costs estimated for the Full Funding PAF as these dollars were allocated for contingency spend within the estimate associated with the Full Funding PAF and said contingency spending did not occur during project execution.

Total Supplement Request: $230K

Please find a copy of the prior authorization document attached as reference.

[4] Supplement Cost Summary

The table below summarizes the line item categories from the original project estimates and the updated project estimates.

Note: Dollar values are in thousands and rounded to nearest thousand:

Line item Category	Prior Authorized	New Total Request	Variance (Supplemental Request)
1. ROW / Easements / Land Acquisition	$	$	$0
2. Environmental Approvals / Permits	$	$	$0
3. Outreach	$	$	$0
4. Siting Approvals / Permits	$	$	$0
5. Engineering / Design	$20	$12	($8)
6. Materials (Eversource purchased)	$82	$46	($36)
7. Construction (incl materials by contractors)	$525	$650	$125
8. Testing / Commissioning	$	$30	$30
9. Project Mgmt. Team	$	$	$0
10. Removals	$	$	$0
11. Other	$	($7)	($7)
12. Risks	$	$	$0
SUBTOTAL DIRECTS W/ RISKS	**$627**	**$731**	**$104**
13. Indirects/Overhead	$196	$265	$69
14. AFUDC	$44	$103	$59
PROJECT TOTAL – BASELINE BUDGET	**$867**	**$1,099**	**$232**
15. Contingency	$2	$	($2)
TOTAL CAPITAL REQUEST	**$869**	**$1,099**	**$230**
16. Reimbursables/Customer Contribution	$	$	$
PROJECT TOTAL (LESS REIMBURSABLES)	**$869**	**$1,099**	**$230**

Total Supplement Request by Year

(NOTE: This table should show only the supplement request)

Note: Dollar values are in thousands and rounded to nearest thousand:

Line item Category	2024	2025	2026	2027	Total
1. ROW / Easements / Land Acquisition	$	$	$	$	$
2. Environmental Approvals / Permits	$	$	$	$	$
3. Outreach	$	$	$	$	$
4. Siting Approvals / Permits	$	$	$	$	$
5. Engineering / Design	($8)	$	$	$	($8)
6. Materials (Eversource purchased)	($36)	$	$	$	($36)
7. Construction (incl matl's by contractors)	$125	$	$	$	$125
8. Testing / Commissioning	$30	$	$	$	$30
9. Project Mgmt. Team	$	$	$	$	$
10. Removals	$	$	$	$	$
11. Other	($7)	$	$	$	($7)
12. Risks	$	$	$	$	$
SUBTOTAL DIRECTS W/ RISKS	**$104**	**$**	**$**	**$**	**$104**
13. Indirects/Overhead	$69	$	$	$	$69
14. AFUDC	$59	$	$	$	$59
PROJECT TOTAL – BASELINE BUDGET	**$232**	**$**	**$**	**$**	**$232**
15. Contingency	($2)	$	$	$	($2)
TOTAL CAPITAL REQUEST	**$230**	**$**	**$**	**$**	**$230**
16. Reimbursables/Customer Contribution	$	$	$	$	$
PROJECT TOTAL (LESS REIMBURSABLES)	**$230**	**$**	**$**	**$**	**$230**
O&M	$	$	$	$	$
TOTAL REQUEST	**$230**	**$**	**$**	**$**	**$230**

Project Authorization Form

Date Prepared:	1/5/2017	Project Title	[redacted]
Company:	EE-CT	Project ID Number:	201448
Organization:	Strategy&Perform	Class(es) of Plant:	Distribution
Project Initiator:	[redacted]	Project Category:	Gen Mod
Project Owner/Manager:	[redacted]	Project Type:	Specific
Project Sponsor:	[redacted]	Project Purpose: Replace three 115 kV MOD	
Estimated in service date:	12/31/2017	If Transmission Project:	N/A
Supplement to Existing Authorization?	ENG	Capital Investment Part of Original Operating Plan?	Yes
Eng./Constr. Resources Budgeted?	Yes	O&M Expenses Part of the Original Operating Plan?	No

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

[redacted]

Since the project was estimated in 2011 at $458k, several things have contributed to the present estimate of $869k.
1) The original Decision Making Estimate (DME) was done in 2011. The new DME was completed in 2016. Due to a change in process, the estimates today are more accurate. Five years ago, the estimating process was not accurate.
2) Job scope increased due to the onging switchgear refurbishment. There was additional protection and wiring changes.
3) This project was also integrated into the existing switchgear refurbishment project 20119704, which extended the project for three years. The MOD's would only be replaced when the switchgear tie and transformer cubicles were refurbished.

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized*	2016	2017	2018+	Total
Capital Additions Direct		521	88	0	$609
Less Customer Contribution		0	0	0	$0
Removals Net of Salvage		17	3	0	$19
Total - Direct Spending		$538	$91	$0	$629
Capital Additions - Indirect		182	15	0	$196
Subtotal Request		$720	$106	$0	$825
AFUDC		29	15	0	$44
Total Request		$748	$121	$0	$869

EVERSOURCE

Project Authorization Policy
Operations Project Authorization

Financial Evaluation

Direct Capital Costs	2016	2017	2018+	Total
Straight Time Labor	18	2	0	$20
Overtime Labor	0	0	0	$0
Outside Services	437	89	0	$525
Materials	82	0	0	$82
Other, including contingency amounts	2	0	0	$2
Total	$538	$91	$0	$629

Indirect Capital Costs	2016	2017	2018+	Total
Indirects/Overheads (including benefits)	182	15	0	$196
Capitalized interest or AFUDC, if any	29	15	0	$44
Total	$210	$30	$0	$240

Total Capital Costs	$748	$121	$0	$869
Less Total Customer Contribution	0	0	0	$0
Total Capital Project Costs	$748	$121	$0	$869
Total O&M Project Costs	$0	$0	$0	$0

Project Number: 201448 | Project Title: South End 1G – 115kV Motor Operated Disconnect (MOD) Replacement Project

D- Station | PAF (dollars in thousands) | And on years | e version; rev25

Line item Category	Prior Authorized	Actuals to Date	2024 to Go	2025	2026	2027	2028	2029	Total
1. ROW / Easements / Land purchases									
2. Environmental Approvals / Permits									
3. Outreach									
4. Siting Approvals / Permits									
5. Engineering / Design	$20	$12							$12
6. Materials (Eversource purchased)	$82	$46							$46
7. Construction (incl matl's by contractors)	$525	$650							$650
8. Testing / Commissioning		$30							$30
9. PMT Project Mgmt Team									
10. Removals									
11. Other		-$7							-$7
12. Risks									
Project Directs Total w/Risks	$627	$731							$731
13. Indirects/Overhead	$196	$265							$265
14. AFUDC	$44	$103							$103
Project Total - Baseline Budget	$867	$1,099							$1,099
15. Contingency	$2								
#N/A									
Project Total - Funding Approval Level	$869	$1,099							$1,099
16. Reimbursables/Customer Contribution									
#N/A									
Project Total (less reimbursables)	$869	$1,099							$1,099
Total O&M									
TOTAL REQUEST	$869	$1,099							$1,099

Breakout costs incl above

ST Labor	$20	$18							$18
OT Labor									
Outside services - Labor	$525	$674							$674
Materials (All materials incl. outside service purchased which is shown in constr. above)	$82	$46							$46
Removals									
Other	$2	-$7							-$7
Indirects	$196	$265							$265
AFUDC	$44	$103							$103
TOTAL CAPITAL REQUEST - with out Reimbursables	$869	$1,099							$1,099

1. Input the project base info into the green cells on the Overall summary tab / answer escalation question
2. Input direct costs (DOLLARS AMOUNTS) and customer contribution (if applicable) in the green highlighted cells for the appropriate company which are separate tabs (green tabs)
3. Input customer contribution as a negative number
4. T vs. D and Line work and station work have different loader rates so make sure you fill out the correct template section of each tab
5. Input years in green cells on overall summary tab, they then flow thru the other tabs.

Template version, rev25 | Template version, rev25

D - Station Work

Report Date

PAF code 1	PAF code 2	WBS Code	WBS Description	Rates	Prior Authorized	Actuals to Date	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
			Costs		Prior Authorized Values Per Excel PAF dated 30/07/21.00												
			Eversource Internal														
		1	ROW / Easements / Land purchases														
		2	Environmental Approvals / Permits														
		3	Outreach														
		4	S/Ing Approvals / Perm ts														
		5	Engineering / Design		$ 20 000	$ 11 765											
		6	Materials		$ 82 000	$ 45 545											
			Construction			$ 5 937											
		7															
		8	Testing / Commissioning														
		9	PMT Project Mgmt Team														
		10	Removals														
		11	Other			$ (7 030)											
		12	Risks														
		15	Contingency		$ 2 000												
			Outside vendor or contractor														
		1	ROW / Easements / Land purchases														
		2	Environmental Approvals / Permits														
		3	Outreach														
		4	S/Ing Approvals / Perm ts														
		5	Engineering / Design														
		6	Materials														
			Construction				WBS 7.12 $640,798										
					$ 525 000	$ 644 216	WBS 7.13 $3,479										
		7					Total $644,216										
		8	Testing / Commissioning			$ 30 076											
		9	PMT Project Mgmt Team														
		10	Removals														
		11	Other														
			Risks														
		12															
		15	Contingency														
Totals of above					$ 629.000	$ 730,509	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 730,509
			Escalation (If not included above)														
			Escalation rates - Eversource Labor														
			Escalation rates - outsourced labor														
			Escalation rates - Materials														
			Eversource Internal														
		1	ROW / Easements / Land purchases		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
			Environmental Approvals / Permits														
		2			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		3	Outreach		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		4	S/Ing Approvals / Perm ts		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		5	Engineering / Design		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		6	Materials		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
			Construction														
		7			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		8	Testing / Commissioning		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		9	PMT Project Mgmt Team		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		10	Removals		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		11	Other		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		12	Risks														
		15	Contingency														
			Outside vendor or contractor														
		1	ROW / Easements / Land purchases		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		2	Environmental Approvals / Permits		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		3	Outreach		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		4	S/Ing Approvals / Perm ts		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		5	Engineering / Design		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		6	Materials		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
			Construction														
		7			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		8	Testing / Commissioning		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		9	PMT Project Mgmt Team		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		10	Removals		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		11	Other		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		12	Risks		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		15	Contingency		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Totals of above					$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
			Escalated costs														
			Eversource Internal														
1	1	1	ROW / Easements / Land purchases		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
2	1	2	Environmental Approvals / Permits		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3	1	3	Outreach		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4	1	4	S/Ing Approvals / Perm ts		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5	1	5	Engineering / Design		$ 20 000	$ 11 765	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6	4	6	Materials		$ 82 000	$ 45 545	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
			Construction														
7	1	7			$ -	$ 5 937	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
8	1	8	Testing / Commissioning		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
9	1	9	PMT Project Mgmt Team		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
10	5	10	Removals		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
11	6	11	Other		$ -	$ (7 030)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
12	6	12	Risks		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
15	6	15	Contingency		$ 2 000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
					$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
			Outside vendor or contractor														
1	3	1	ROW / Easements / Land purchases		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
2	3	2	Environmental Approvals / Permits		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3	3	3	Outreach		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4	3	4	S/Ing Approvals / Perm ts		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5	3	5	Engineering / Design		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
7	4	6	Materials		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
			Construction														
7	3	7			$ 525 000	$ 644 216	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
8	3	8	Testing / Commissioning		$ -	$ 30 076	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
9	3	9	PMT Project Mgmt Team		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
10	5	10	Removals		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
11	6	11	Other		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
12	6	12	Risks		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
15	6	15	Contingency		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Totals of above					$ 629.000	$ 730,509	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 730,509

Subtotals for applying indirects

	Labor (PMR/Wit/Env/Outreach/Siting)	Labor (PMR/Wit/Env/Outreach/S ting)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Labor (Engr/Constr/Tes)	Labor (Engr/Constr/Testi	$ 20 000	$ 17 702	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Materials	Materials	$ 82 000	$ 45 545	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Outside Services	Outside Services	$ 525 000	$ 674 292	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Other	Other	$ -	$ (7 030)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Risks	Other	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Contingency	Other	$ 2 000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Direct Costs	**Total Direct Costs**	**$ 629.000**	**$ 730.509**	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 730.509**	
16	Customer Contribu tion	Customer Contr bution				$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Indirect Costs	Indirect Costs															
	Non-Productive(**ZNP**)	Non-Productive(**ZNP**)	17.0%	$ 4&C /W/I	$ 3 /I/C	17.0%	$ -	17.0%	$ -	17.0%	$ -	17.0%	$ -	17.0%	$ -	17.0%	$ -	17.0%	$ -	$ 3 /I/C
	Payroll Benefits(**ZPB**)	Payro l Benefits(**ZPB**)	36.0%	$ -	$ 1 367	36.0%	$ -	36.0%	$ -	36.0%	$ -	36.0%	$ -	36.0%	$ -	36.0%	$ -	36.0%	$ -	$ 1 367
	General Service(**ZGS**)	General Service(**ZGS**)	70.0%	$ -	$ 14 579	70.0%	$ -	70.0%	$ -	70.0%	$ -	70.0%	$ -	70.0%	$ -	70.0%	$ -	70.0%	$ -	$ 14 579
	MDEC(**ZM1**)	MDEC(**ZM1**)	6.0%	$ -	$ 28 981	6.0%	$ -	6.0%	$ -	6.0%	$ -	6.0%	$ -	6.0%	$ -	6.0%	$ -	6.0%	$ -	$ 28 981
	E&S(**ZES, ZEL, ZES**)	E&S(**ZES, ZEL, ZES**)	35.0%	$ -	$ 180 759	35.0%	$ -	35.0%	$ -	35.0%	$ -	35.0%	$ -	35.0%	$ -	35.0%	$ -	35.0%	$ -	$ 180 759
	AS&E(**ZAS**)	AS&E(**ZAS**)	1.4%	$ -	$ 11 602	1.4%	$ -	1.4%	$ -	1.4%	$ -	1.4%	$ -	1.4%	$ -	1.4%	$ -	1.4%	$ -	$ 11 602
	Lobby Stock	Lobby Stock		$ -	$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	$ -
	Stores Inventories(**ZST**)	Stores Inventories(**ZST**)	8.0%	$ -	$ 24 382	8.0%	$ -	8.0%	$ -	8.0%	$ -	8.0%	$ -	8.0%	$ -	8.0%	$ -	8.0%	$ -	$ 24 382
	Vehicles(**ZVE**)	Vehicles(**ZVE**)	28.0%	$ -	$ 493	28.0%	$ -	28.0%	$ -	28.0%	$ -	28.0%	$ -	28.0%	$ -	28.0%	$ -	28.0%	$ -	$ 493
13	**All Indirect Costs**	**Total Indirect Costs**		**196 000**	**200 583**												**200 583**
	Total Costs w/o AFUDC	Total Costs w/o AFUDC		825 000	866 070												866 070
14	AFUDC rate																
	AFUDC 5%	AFUDC	$ 44 000	$ 103 253													103 253
	TOTALS	TOTALS	869 000	1 096 845													1 096 845