

Utah Transit Authority
669 West 200 South
Salt Lake City, Utah 84101
Phone: (801) 741-8885
Fax: (801) 741-8892



CHANGE ORDER

No. 12

TITLE: HVAC/Heat Pumps
PROJECT/CODE: SGR397 - TPSS Component Replacement
TO: C3M Power Systems, LLC
ATTN: Salvador Benitez

DATE: 7/13/2023
This is a change order to
CONTRACT No: 20-03378VW

DESCRIPTION OF CHANGE: Brief scope, references to scope defining documents such as RFIs, submittals, specified drawings, exhibits, etc.

C3M evaluated the HVAC system at 18 substation locations and determined that the existing units do not meet the operating temperature for the traction electrification system. The existing units often overheat and have to be repaired. Increasing the cooling capacity will reduce maintenance costs and keep essential components cool enough to meet or exceed their intended life span.

Direction or Authorization to Proceed (DAP) previously executed: YES ____ NO X__

It is mutually agreed upon, there is a schedule impact due to this Change order: YES ____ NO X__

The amount of any adjustment to time for Substantial Completion and/or Guaranteed Completion or Contract Price includes all known and stated impacts or amounts, direct, indirect and consequential, (as of the date of this Change Order) which may be incurred as a result of the event or matter giving rise to this Change Order. Should conditions arise subsequent to this Change Order that impact the Work under the Contract, including this Change Order, and justify a Change Order under the Contract, or should subsequent Change Orders impact the Work under this Change Order, UTA or the Contractor may initiate a Change Order per the General Provisions, to address such impacts as may arise.

Current Change Order		Contract		Schedule	
Lump Sum:	\$1,651,646	Original Contract Sum:	\$38,077,408	Final Completion Date Prior to This Change:	-
Unit Cost:	-	Net Change by Previously Authorized Changes:	\$6,270,820	Contract Time Change This Change Order (Calendar Days):	0
Cost Plus:	-	Previous Project Total:	\$44,348,228	Final Completion Date as of This Change Order:	-
T&M NTE:	-	Net Change This Change Order:	\$1,651,646		
Total:	\$1,651,646	Current Project Total:	\$45,999,874		

ACCEPTED Signed by:

By: Salvador Benitez Jr.

Date: 7/20/2023

Salvador Benitez
C3M Power Systems, LLC

By: _____
Date: _____
Dean Hansen
Project Manager <\$25,000

By: _____
Date: _____
Jared Scarbrough
Director of Capital Construction <\$75,000

By: _____
Date: _____
Mary DeLoretto
Chief Capital Service Officer <\$200,000

By: _____
Date: _____
Vicki Woodward
Procurement

DocuSigned by:
By: Mike Bell
Date: 7/20/2023
Mike Bell
Attorney General >\$10,000

By: _____
Date: _____
Jay Fox
Executive Director >\$200,000



Change Order Summary Worksheet
Previously Authorized Changes

Contract	20-03378VW C3M
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Change Order No	Date	Amount of CO	Running Contract Total	Subject
Original Contract			\$38,077,408	
1	7/9/2021	\$0	\$38,077,408	Amendment #1
2	8/20/2021	\$0	\$38,077,408	Amendment #2
3	3/18/2022	\$82,684	\$38,160,092	One Click and Trip (Impulse)
4	3/18/2022	\$2,694,731	\$40,854,823	Two (2) Additional DC Breakers
5	3/18/2022	\$121,766	\$40,976,589	Atwood Three (3) Additional Tie-Switches
6	3/18/2022	\$94,192	\$41,070,781	300 South Bypass Switches
7	4/15/2022	\$101,525	\$41,172,306	C3M - Midvale Shop ETS Trip
8	4/15/2022	\$319,092	\$41,491,398	C3M - OCS Overlap Conversion
9	4/15/2022	\$2,563,081	\$44,054,479	C3M - Option 1 and 2 Feeder Cable Replacement
10	4/29/2022	\$100,000	\$44,154,479	Design Services for Civil and Electrical Sites
11	4/29/2022	\$193,749	\$44,348,228	Replacement of di-electric flooring and standard facility
Total to Date		\$ \$6,270,820		



C3M Power Systems Change Proposal

Utah Transit Authority
669 West 200 South
Salt Lake City, UT, 84101

6/19/2023

ATTN: Jared Scarbrough

21036M1 UTA SOGR TPSS REHAB
C3M Contract #20-03378 CCN #810010

SUBJECT: HVAC Upgrade ROM

REFERENCE: Utah Transit Authority Construction Change Directive #

Dear Mr. Jared Scarbrough:

We propose to furnish and install the necessary electrical work in accordance with the above reference(s) in addition to our electrical contract price for the sum of **\$1,651,646.27**. Please see the accompanying documentation to substantiate this proposal.

Regarding the project construction schedule, this additional work will require an extension of time of **00** calendar days. Our costs associated with our request for time extension are included in our proposal. Costs associated with preparing modification of the contract schedule program are excluded from our quotation.

We need to be advised that the proposed change will proceed or has been cancelled in order for us to coordinate our electrical installation with the work of other trades. We will be pleased to proceed with this work upon receipt of your change order in the above amount.

Sincerely,

Salvador Benitez Jr
Project Manager
salvador.benitezjr@c3mpowersystems.com

C3M Power Systems, LLC
1030 Hampton Park Boulevard, Suite 200
Capitol Heights, Maryland, 20743
240-319-2322

ORIGINAL



C3M POWER SYSTEMS CHANGE PROPOSAL

CCN # 810010
Date: 6/19/2023
Project Name: 21036M1 UTA SOGR TPSS REHAB
Project Number: 21036M1 UTA SOGR TPSS REHAB

Work Description

Our Scope Includes the Following:

Aux Transformer Upgrade Scope: SRC7 Central, SRW6 Walton, SRN3 900 South Only

- Remove Existing Aux Transformer at (3) IMPulse Traction Power Substations
- Remove Existing Circuitry Cables from Aux Transformer to AC Panelboard.
- Remove Existing Fuses
- Install new 45 KVA Aux Transformer at (3) IMPulse Traction Power Substations
- Install new Circuitry Cables from Aux Transformer to AC Panelboard
- Install new upsized Main Circuit Breaker inside Existing AC Panelboard
- Approval of Aux Transformer Drawings 3 - 5 weeks after approval of PCO and complete coordination of data.
- Shipping of Aux Transformer 13 - 15 Weeks after drawing approval with release to manufacturer.

HVAC Upgrade Scope for (3) New Units: At (3) Locations - SRC7 Central, SRW6 Walton, SRN3 900 South

- Removal of the existing A/C units and install (3) 5-Ton Ductless Split Systems and One Exhaust Fan with inlet louver at the existing TPSS.
- Install (3) 5-Ton Condensing Units on ground level outside of the TPSS.
- The refrigerant lines will be routed to a point where they will penetrate the wall and to be attached onto the two (2) 5-ton (nominal) indoor evaporator coils.
- Each unit will have stand alone controls that will be mounted at the point of nearest convenience and approved by UTA.
- A horizontal discharge exhaust fan will be mounted on the wall which had the old HVAC units on it, with a duct penetrating the space. An inlet louver with a gravity backdraft damper will be installed on the opposite wall.
- Complete Start-Up and Testing of the New units.
- Update necessary drawings to include the upgrade of the Aux Transformer and the upgrade of the HVAC system at the three TPSS locations
- Includes Electrical, Mechanical, and Structural Engineering for sizing of HVAC System (Electrical Loading, HVAC Capacity)
- Testing & Commissioning

HVAC Upgrade Scope for (2) New Units: At (15) Substations Only - SRN13 9400 S, YRY1 Midvale Yard, E2 900 E, E1 200 E, SRS11 Sugar Hwy, E3 Stadium, SRP9 Pallas Yard, E5 Medical Center, SRH5 Huslers, SRB4 Burton, SRR12 Rio Grande, SRM8 Murray, E4 Fort Douglas, SRD1 Delta, SRJ14 Jordan

- Removal of the existing A/C units and install (2) 5-Ton Ductless Split Systems and One Exhaust Fan with inlet louver at the existing TPSS.
- Install (2) 5-Ton Condensing Units on ground level outside of the TPSS.
- The refrigerant lines will be routed to a point where they will penetrate the wall and to be attached onto the two (2) 5-ton (nominal) indoor evaporator coils.
- Each unit will have standalone controls that will be mounted at the point of nearest convenience and approved by UTA.
- A horizontal discharge exhaust fan will be mounted on the wall which had the old HVAC units on it, with a duct penetrating the space. An inlet louver with a gravity backdraft damper will be installed on the opposite wall.
- Complete Start-Up and Testing of the New units.
- Includes Electrical, Mechanical, and Structural Engineering for sizing of HVAC System (Electrical Loading, HVAC Capacity)

ORIGINAL

C3M POWER SYSTEMS CHANGE PROPOSAL

CCN # 810010
Date: 6/19/2023
Project Name: 21036M1 UTA SOGR TPSS REHAB
Project Number: 21036M1 UTA SOGR TPSS REHAB

- Includes an \$80,000 Place Holder for not to Exceed of Spare Parts and Final List of Spare Parts to be determined by UTA.

·Testing & Commissioning

Structural Design & SRT2 300 S Design Contingency

The final design for SRT2 300 S is still being determined and will be slightly different than the other (18) locations. The final structural design is unknown and a contingency was added to help finalize the structural integrity of each building to ensure the new installation of each split unit can be supported.

Our Scope Excludes the Following:

- This is not a final proposal and can be subject to change once the design and engineering has been complete.
- Time extensions is not required at this time.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.

This price is good for acceptance within 20 days from the date of receipt.

We request a time extension of 0 days.

We will supply and install all materials, labor, and equipment as per your instructions on CCN # 810010.

Itemized Breakdown

Description	Qty	Total Mat.	Total Hrs.
Install New 60A Disconnect Switch with Raceway	18	9,000.00	288.00
Remove Existing AC Circuitry Cables	1,425	0.00	185.25
Install New 45KVA Transformer	3	1,500.00	120.00
Install Circuitry Cable, Test, & Terminate	1,900	695.59	12.82
Upgrade ACP	4	6,000.00	96.00
Install Control Interlock Wiring	1,800	29,394.00	28.80
Install New 15A 2-Pole Breaker	57	4,198.05	142.50
Grounding of Equipment	18	4,500.00	81.00
Install New Electrical Raceways	1,235	9,373.28	210.07
Test & Connect Circuitry Cables	18	1,800.00	63.00
Testing & Integration Support	18	9,000.00	576.00
Totals	6,496	75,460.92	1,803.45

Summary

General Materials		75,460.92
Material Tax	(@ 10.000 %)	7,546.09
Total Material		83,007.01
GENERAL FOREMAN - L46		17,245.07
FOREMAN - L46		11,255.56
JOURNEYMAN-L46		73,166.37
APPRENTICE 4YR - L46		33,363.55

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C3M POWER SYSTEMS CHANGE PROPOSAL

CCN # 810010
 Date: 6/19/2023
 Project Name: 21036M1 UTA SOGR TPSS REHAB
 Project Number: 21036M1 UTA SOGR TPSS REHAB

Summary (Cont'd)

Total Labor		135,030.55
Field Office and Expenses		
Field Office	(1,803.46 @ 0.00 @ \$0.08 + 6.000 % + 0.000 % + 0.000 %)	152.94
Project Executive	(1.00 @ 1.00 @ \$1,021.00 + 0.000 % + 0.000 % + 0.000 %)	1,021.00
Sr. Project Manager	(1.00 @ 4.00 @ \$984.00 + 0.000 % + 0.000 % + 0.000 %)	3,936.00
Asst. Project Manager	(1.00 @ 2.00 @ \$422.00 + 0.000 % + 0.000 % + 0.000 %)	844.00
Administrative Assistant	(1.00 @ 1.00 @ \$379.50 + 0.000 % + 0.000 % + 0.000 %)	379.50
Superintendent	(1.00 @ 9.00 @ \$1,058.00 + 0.000 % + 0.000 % + 0.000 %)	9,522.00
QC Manager	(1.00 @ 9.00 @ \$528.00 + 0.000 % + 0.000 % + 0.000 %)	4,752.00
10% DIRECT LABOR & FRINGES	(135,030.55 @ 0.00 @ \$0.10 + 0.000 % + 0.000 % + 0.000 %)	13,503.06
5% SMALL TOOLS @ DIRECT LABOR	(1,803.46 @ 0.05 @ \$47.71 + 0.000 % + 0.000 % + 0.000 %)	4,302.15
10% DIRECT MATERIALS	(75,460.92 @ 0.00 @ \$0.10 + 0.000 % + 0.000 % + 0.000 %)	7,546.09
Total Field Office and Expenses		45,958.74
FOREMAN PICKUP TRUCK	(10.00 @ 0.00 @ \$1,150.00 + 10.000 % + 0.000 % + 0.000 %)	12,650.00
Rental Equipment and Tools	(1,803.46 @ 0.00 @ \$3.25 + 0.000 % + 0.000 % + 0.000 %)	5,861.25
Expendable Tools	(1,803.46 @ 0.00 @ \$0.55 + 0.000 % + 0.000 % + 0.000 %)	991.90
JOBSITE TRUCK	(6.00 @ 0.00 @ \$980.00 + 0.000 % + 0.000 % + 0.000 %)	5,880.00
RUGGED FORKLIFT	(4.00 @ 0.00 @ \$1,850.00 + 0.000 % + 0.000 % + 0.000 %)	7,400.00
Total Equipment		32,783.15
Markup	(@ 15.000 %)	44,516.92
Total Markups		44,516.92
SUBCONTRACTORS		
HVAC - CCI - (2) 5 - Ton with Exhaust	(\$729,360.00 + 0.000 % + 0.000 % + 5.000 %)	765,828.00
HVAC - CCI - (3) 5 - Ton with Exhaust	(\$195,624.00 + 0.000 % + 0.000 % + 5.000 %)	205,405.20
Balfour Beatty Aux Transformer	(\$103,603.50 + 0.000 % + 0.000 % + 5.000 %)	108,783.68
STV Design	(\$60,000.00 + 0.000 % + 0.000 % + 5.000 %)	63,000.00
SPARE PARTS	(\$80,000.00 + 0.000 % + 0.000 % + 10.000 %)	88,000.00
Total Subcontractors		1,231,016.88
P&P Bond	(@ 0.879 %)	13,820.63
Limited Liability Insurance	(@ 0.978 %)	15,512.39
Contingency	(@ 3.122 %)	50,000.00
Subtotal		1,651,646.27
Final Amount		\$1,651,646.27

ORIGINAL



C3M POWER SYSTEMS CHANGE PROPOSAL

CCN # 810010
Date: 6/19/2023
Project Name: 21036M1 UTA SOGR TPSS REHAB
Project Number: 21036M1 UTA SOGR TPSS REHAB

CLIENT ACCEPTANCE

CCN # 810010
Final Amount: \$1,651,646.27

Name: _____

Date: _____

Signature: _____

Change Order #: _____

I hereby accept this quotation and authorize the contractor to complete the above described work.

ORIGINAL