

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



CHANGE ORDER

No. 8

TITLE: C3M - OCS Overlap Conversion
PROJECT/CODE: SGR397 - TPSS Component Replacement
TO: C3M
ATTN: Salvador Benitez

DATE: 4/15/2022
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.

The goal of the TPSS rehab project is to replace aging infrastructure of our traction power system, modernize our hardware, and improve the overall safety and reliability of our traction power system. UTA has identified OCS overlap areas that are at a high risk for OCS burn throughs that will affect the overall safety and reliability of the traction power system. These three areas include:

- 50 North 400 West, Green Line
- 9400 South, Blue Line
- E4 TPSS Mario Capecchi Dr, Red Line

The three locations need to be converted from insulated overlaps to uninsulated overlaps to prevent the risk of OCS and vehicle damage due to a difference of potential in the OCS lines. Fixing this issue will help gain a safer and more reliable traction power system as we upgrade the surrounding infrastructure as part of the TPSS rehab project.

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:	\$319,092	Original Contract Sum:	\$38,077,408	Final Completion Date Prior to This Change:	4/11/2025
Unit Cost:	-	Net Change by Previously Authorized Changes:	\$3,094,898	Contract Time Change This Change Order (Calendar Days):	0
Cost Plus:	-	Previous Project Total:	\$41,172,306	Final Completion Date as of This Change Order:	4/11/2025
T&M NTE:	-	Net Change This Change Order:	\$319,092	ACCEPTED: DocuSigned by: By: <u>Salvador Benitez Jr.</u> Date: <u>4/25/2022</u>	
Total:	\$319,092	Current Project Total:	\$41,491,398		

Salvador Benitez
C3M

By: _____
Date: _____
Jared Scarbrough
Project Manager <\$25,000

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

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

By: _____
Date: _____
Brian Motes
Procurement

DocuSigned by:
By: Mike Bell
Date: 4/25/2022
Michael Bell
Legal Review

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
Total to Date		\$ 3,094,898		



C3M Power Systems Change Proposal

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

3/29/2022

ATTN: Jared Scarbrough

21036M1 UTA SOGR TPSS REHAB
C3M Contract #20-03378 CCN #810003

SUBJECT: OCS Air Gap Insulated Areas

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 **\$319,092.07**. 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# 810003
Date: 3/29/2022
Project Name: 21036M1 UTA SOGR TPSS REHAB
Project Number: 21036M1 UTA SOGR TPSS REHAB

Work Description

Our Scope Includes the Following:

Scope of work is based on a mobilization of C3M Hyrail Equipment and OCS Crew. Includes OCS Engineering Design Modifications for existing overlaps at 9400 South, 50 North, and E4. The preparation of the construction drawings based on the electronic PDF drawings provided by UTA. Signed and sealed drawings based drawings to be provide by C3M/STV. C3M to procure OCS parts and replenish any parts utilized from UTA's stock inventory. OCS modifications are as follows:

9400S

- 5 Total shifts (4 Night and 1 day)
- Development of Construction Drawings
- Scope includes the installation of a new pole foundation along with down guy foundation.
- Installation of new OCS pole, down guy, balance weight assembly, and miscellaneous OCS parts to move the Overlap to new location.
- Installation of new Messenger and Contact wire as shown.
- Misc. OCS Tools & Equipment
- Demobilization & Cleanup
- Permit & UTA Coordination

50N 400W

- 4 Total Shifts (3 Nights and 1 day)
- Development of Construction Drawings
- Cut in new Section Insulator near OCS Pole 1300+45.
- Relocate Southbound Bypass Disconnect Switch from OCS Pole 13102+50 to 1300+45 complete.
- Jumper overlap at 1303+00 and 1301+00 appx.
- Misc. OCS Tools & Equipment
- Demobilization and Cleanup
- Permit & UTA Coordination

E4 University

- 4 Total Shifts (3 Nights and 1 day)
- Development of Construction Drawings
- Installation of new section insulator at Pole 5047-1.
- Remove extra contact wire, adjust and or replace hangers as required
- Adjust or replace the feeding jumpers as required
- Modify the Cantilever at pole 5047-1
- Misc. OCS Tools & Equipment
- Demobilization and Cleanup

Our Scope Excludes the Following:

- OCS Pole for down guy
- Pricing based on having complete access to each location.
- Scope of work is not tied to the existing C3M Contract #20-03378 CCN #810003

ORIGINAL

C3M POWER SYSTEMS CHANGE PROPOSAL

CCN# 810003
Date: 3/29/2022
Project Name: 21036M1 UTA SOGR TPSS REHAB
Project Number: 21036M1 UTA SOGR TPSS REHAB

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 0 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# 810003**.

Itemized Breakdown

Description	Qty	Total Mat.	Total Hrs.
9400 S OCS Overlap Relocate	1	15,000.00	304.00
50N 400W	1	7,800.00	240.00
E4 University	1	9,800.00	240.00
Totals	3	32,600.00	784.00

Summary

General Materials		32,600.00
Quoted Materials		26,400.00
Material Tax (@ 10.000 %)		5,900.00
Total Material		64,900.00
GENERAL FOREMAN		8,964.26
Linemen Journeyman		46,715.42
FOREMAN (12.5%)		0.00
FOREMAN OT (12.5%)		0.00
MOBILIZE AND DEMOBILIZE (120.00 Hrs @ \$95.97)		11,516.40
CLEAN UP AND DISPOSAL (24.00 Hrs @ \$95.97)		2,303.28
Total Labor		69,499.36
Field Office and Expenses		
Field Office (580.16 @ 0.00 @ \$0.08 + 6.000 % + 0.000 % + 0.000 %)		49.19
Sr. Project Manager (1.00 @ 1.50 @ \$984.04 + 0.000 % + 0.000 % + 0.000 %)		1,476.06
Superintendent (1.00 @ 3.00 @ \$857.00 + 0.000 % + 0.000 % + 0.000 %)		2,571.00
OCS/TPS Engineer (1.00 @ 3.00 @ \$1,134.16 + 0.000 % + 0.000 % + 0.000 %)		3,402.48
10% DIRECT LABOR & FRINGES (55,679.68 @ 0.00 @ \$0.10 + 0.000 % + 0.000 % + 0.000 %)		5,567.97
5% SMALL TOOLS @ DIRECT LABOR (580.16 @ 0.05 @ \$47.71 + 0.000 % + 0.000 % + 0.000 %)		1,383.97
10% DIRECT MATERIALS (32,600.00 @ 0.00 @ \$0.10 + 0.000 % + 0.000 % + 0.000 %)		3,260.00
Total Field Office and Expenses		17,710.67
FOREMAN TRUCK RENTAL - MONTHLY (1.00 @ 1.00 @ \$1,250.00 + 10.000 % + 0.000 % + 0.000 %)		1,375.00
Rental Equipment and Tools (580.16 @ 0.00 @ \$2.25 + 0.000 % + 0.000 % + 0.000 %)		1,305.36
Expendable Tools (580.16 @ 0.00 @ \$0.35 + 0.000 % + 0.000 % + 0.000 %)		203.06
JOB SITE PICKUP TRUCK (1.00 @ 1.00 @ \$1,250.00 + 0.000 % + 0.000 % + 0.000 %)		1,250.00

ORIGINAL

C3M POWER SYSTEMS CHANGE PROPOSAL

CCN# 810003
Date: 3/29/2022
Project Name: 21036M1 UTA SOGR TPSS REHAB
Project Number: 21036M1 UTA SOGR TPSS REHAB

Summary (Cont'd)

HyRail Truck Crane w/ Bucket	(2.00 @ 1.00 @ \$4,250.00 + 0.000 % + 0.000 % + 0.000 %)	8,500.00
HyRail Platform Truck	(1.00 @ 1.00 @ \$3,400.00 + 0.000 % + 0.000 % + 0.000 %)	3,400.00
Total Equipment		16,033.42
Markup	(@ 15.000 %)	25,221.52
Total Markups		25,221.52
SUBCONTRACTORS		
STV Engineering Costs	(\$108,319.00 + 0.000 % + 0.000 % + 5.000 %)	113,734.95
Total Subcontractors		113,734.95
P&P Bond	(@ 0.879 %)	2,699.41
Warranty/Guarantee	(@ 2.000 %)	6,195.99
Liability Insurance	(@ 0.980 %)	3,096.75
Subtotal		319,092.07
Final Amount		\$319,092.07

ORIGINAL



C3M POWER SYSTEMS CHANGE PROPOSAL

CCN# 810003
Date: 3/29/2022
Project Name: 21036M1 UTA SOGR TPSS REHAB
Project Number: 21036M1 UTA SOGR TPSS REHAB

CLIENT ACCEPTANCE

CCN # 810003
Final Amount: \$319,092.07

Name: _____

Date: _____

Signature: _____

Change Order #: _____

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

ORIGINAL



March 7, 2022

STV-C3M-LTR-0011

C3M Power Systems LLC
1030 Hampton Park Blvd, Suite 200
Capitol Heights, MD 20743
Attn: Salvador Benitez Jr., Project Manager

Re: UTA Potential Change Order 003 Rev 1 – OCS Overlap Conversion
Contract#: 20-03378VW

Dear Mr. Benitez:

We have completed the review of the reference UTA Potential Change Order 003 – OCS Overlap Conversion. In accordance with Article 4.2.2 of our Design Services Agreement (DSA) between C3M Power Systems and STV Incorporated, STV is submitting the price in the amount of \$108,319 to perform the design work identified by UTA.

STV design services include the OCS engineering design modifications for the overlap modifications. The proposal is based on three (3) OCS locations as identified by UTA in PCO-03 (50 North, 9400 South, and E4). Since UTA is not able to provide the base CAD files (master overlap, layout plans etc.) for STV to use, STV will be preparing construction drawings for C3M based on the electronic PDF drawings provided by UTA. STV will provide signed and sealed drawings consisting of the following:

50 North

- Layout Plans
- Typical Assembly

9400 S:

- Layout Plan
- Typical Assembly
- Foundation Design
- Pole Design

E4

- Layout Plan
- Typical Arrangement
- Typical Assembly

STV will not be providing any construction specifications but have included time to review UTA provided OCS specifications for construction purposes means and methods.

The exclusions, assumptions, and clarifications of Exhibit A – Scope of Services of the DSA shall apply.

Additionally, STV is excluding site Geotech work including survey, soil boring and pressure analysis work for the OCS foundation. Specifically, at the 9400 TPSS location, Geotech soil data will be required to be provided by C3M to STV for the design of the new OCS foundations.

STV reserves the right to evaluate the schedule impact based upon execution of the PCO.

Please feel free to contact me if you have any questions.

Sincerely,
STV Incorporated

Ja-Mie Luey, P.E. Vice President
Authorized Representative

cc: Eric Root

STV Incorporated