

CHANGE ORDER 1

Sheet No. 1 of 2

To: Joplin Industrial Electric Co., Inc.
 2202 S. Prigmore Ave.
 Joplin, MO 64804

Project: **Turkey Creek WWTF Generator Repl. 2021**

You are hereby directed to make the following changes from the contract.



1. Description and Reason for Change: After initiating the generator replacement project, it was determined that one of the existing Liberty Utilities transformers was inoperable. The plant was operating on the remaining transformer with no alternate grid power source and no backup generator. Maintaining power to the inlet structure is required to prevent sanitary sewer overflows. After Liberty Utilities replaced the faulty transformer the existing automatic transfer switches and wiring could be tested. Both service entrance rated automatic transfer switches and the wire from the faulty transformer need to be replaced. Without this equipment the power cannot be switched from one grid power source to the other.

Once the proposed generator is installed the existing automatic transfer switches shall be removed and replaced. The wire from the new transformer to the switches shall also be replaced. The inlet structure shall be temporarily powered using the generator. This work will require a 45-calendar day extension to the contract time. Thus, the new completion date is 10/27/2021.

2. Estimate of Cost of work Affected by this Change Order.

(A) EST. LINE NO.	(B) CONTRACT ITEM NO.	(C) ITEM DESCRIPTION	(D) UNITS PREVIOUSLY PROVIDED FOR	(E) UNITS TO BE CONSTRUCTED	(F) UNITS OVERRUN, UNDERRUN, CONTINGENT	(G) CONTRACT OR AGREED UNIT PRICE	(H) AMOUNT OF OVERRUN OR PLUS CONTINGENT	(I) AMOUNT OF UNDERRUN OR MINUS CONTINGENT
6*	6*	Remove and Replace ATS's	0	0	1 LS	*	\$112,336.15	
						TOTALS	\$112,336.15	

* New line item.

3. Cost Justification for items not bid in contract: The costs have been discussed with the contractor and have been compared to costs incurred for similar work on other recent projects. Material costs have been verified by review of the supplier's quotes and contractors estimates. The number of man hours and hourly rates are typical for the type of work being performed. Contractor's bonding, overhead, and profit costs are as allowed by the General Conditions of the Contract. Thus, the requested amount of \$112,336.15 is deemed reasonable. See attached documentation for further details.

4. Other City Departments Consulted:

 Name Date _____

 Department / Title

 Name Date _____

 Department / Title

5. Settlement for Cost of the above Change to be made at Contract Unit Price Except as Noted:

1. CONTRACT AMOUNT	-	\$300,610.00	The Terms of Settlement outlined above are hereby agreed to.
2. OVERRUN THIS ORDER	-	\$112,336.15	
3. OVERRUN PREVIOUS	-	\$0.00	Joplin Industrial Electric Company, Inc.
4. TOTAL OVERRUN TO DATE	-	\$112,336.15	
5. REVISED CONTRACT AMOUNT		\$412,946.15	
PERCENTAGE OF ORIGINAL CONTRACT	-	37%	By: _____ Date: _____



 CONSULTING ENGINEER

06/010/2021

 DATE

FOR CITY OF JOPLIN USE:

Emergency Provisions of Change Order Policy Used YES NO Date approved _____

Reason for Emergency and description of work approved (Check all that apply):

- Protection of Public Health and Safety _____
- Avoid Contractor and Project Delays _____
- Impact to Other Improvement Projects _____
- Other _____

 APPROVAL PROJECT MANAGER DATE

 APPROVAL SUPERVISOR /
 ENGINEERING REVIEWER DATE

 APPROVAL OF DEPARTMENT HEAD DATE

WHEN REQUIRED BY THE CITY'S CHANGE ORDER POLICY, THE FOLLOWING SIGNATURES ARE MANDATORY:

 * DIRECTOR OF FINANCE DATE

 * CITY MANAGER DATE

Turkey Creek WWTF Generator Repl. 2021
Joplin, MO

Orig. Contract	\$	300,610.00		
CO 1				
JIE Materials	\$	12,032.01		
JIE Labor	\$	8,168.99		
Subtotal	\$	20,201.00		
15% Mark Up	\$	3,030.15		
JIE Subtotal	\$	23,231.15		
				+ 10%
ATS's	\$	87,230.00	\$ 79,300.00	\$ 87,230.00
G&G Concrete	\$	550.00		
Subtotal	\$	1,325.00		
Subs & Mat. Subtotal	\$	89,105.00		
CO 1 Total	\$	112,336.15		
Contract Now.	\$	412,946.15		

Contract Date	3/17/2021
Contract Time	180
Orig. Completion	9/12/2021
Extension	45
New Completion	10/27/2021



JOPLIN INDUSTRIAL ELECTRIC, INC.
RESIDENTIAL • COMMERCIAL • MAINTENANCE ELECTRICIANS
2202 S. PRIGMORE AVE., JOPLIN, MO 64804
P.O. BOX 848, DUENWEG, MO 64841
TELEPHONE: (417) 623-3425 • FAX: (417) 623-1313
WEBSITE: www.joplinelectric.com

June 4, 2021

City of Joplin

Re: Turkey Creek WWTF Generator Replacement

This price for replacing the two (2) existing Service Entrance ATS's on the Turkey Creek WWTF Generator project.

Price: **\$ 112,336.00**

Our price **does** include the following:

- 800 amp and 1000 amp SE Rated ATS's.
- Additional concrete work.
- Removing the existing SE Rated ATS's.
- New conductors from one (1) of the existing Liberty Utilities transformers to the new ATS's.
- Bonding (1.2%).

*We respectfully request that time be added to the completion date for this additional work and for delivery of the new ATS's. Thirty (30) to forty-five (45) after ATS delivery would be appreciated. As always, we will make every attempt to expedite completion.

Thank you,

Joplin Industrial Electric Co., Inc.

Ryan Zengel

Joplin Industrial Electric

C.O. Number 01

Bill To:
City of Joplin

6/7/2021

Terms

P.O. Number

Material Cost

LN	DB#	Material Description	Quantity	Cost	Labor
1	F	Temp. Ex. Critical Load	1.00	\$500.00	20.70
2	F	Demo Ex. #400 Conductors	440.00	\$0.00	7.21
3	F	WC-THHN-STRA #400MCM	440.00	\$4,911.61	14.42
4	I 7821	TER TERMINATION-400 MCM	12.00	\$0.00	4.14
5	F	Demo Ex. #500 Conductors	340.00	\$0.00	5.87
6	I 8216	WC-THHN-STRA #500MCM	340.00	\$4,795.68	11.73
7	I 7822	TER TERMINATION-500 MCM	8.00	\$0.00	3.22
8	F	Remove Ex. ATS's	2.00	\$0.00	11.50
9	F	Install New ATS's	2.00	\$0.00	38.00
10	I 328	AN-3/8X3-1/2 RAWL-STUD	8.00	\$18.57	1.84
11	F	AUGER TRUCK	5.00	\$750.00	5.75
12	F	TRUCK/TRAILER	5.00	\$250.00	2.88
13	I 4047	KO-4 LABOR ONLY	10.00	\$20.00	8.63
14	I 5376	NI-GR-NIPPLE 4 X CL	10.00	\$132.52	3.79
15	I 4866	LO-4 LOCKNUTS	40.00	\$500.84	12.65
16	I 530	BU-4 PLASTIC BUSHING	20.00	\$152.79	2.76
Totals				\$12,032.01	155.08
Material Total				\$12,032.01	

Labor Cost

Labor Description	Cost
Foreman 62.03 hours @ \$54.20 =	\$3,362.13
Journeyman 93.05 hours @ \$51.66 =	\$4,806.86
Labor Cost	\$8,168.99
Labor Total	\$8,168.99
Job Expense	\$0.00
Labor + Material Total	\$20,201.00

Overhead/Profit/Misc Expense/Quote Items Cost

Profit (15.00%)	\$3,030.15
Total Invoice	\$23,231.15

Bill To:
City of Joplin

6/7/2021

Terms

P.O. Number

Material Cost

LN	DB#	Material Description	Quantity	Cost	Labor
1	Q	ATS's (Central Power) + 10%	0.00	\$87,230.00	0.00
2	Q	Concrete (G&G) + 10%	0.00	\$550.00	0.00
3	Q	Bond + 10%	0.00	\$1,325.00	0.00
Totals				\$89,105.00	0.00
Material Total				\$89,105.00	

=====
Total Invoice \$89,105.00

Jared Nichols

From: Ryan Zengel <ryan@joplinelectric.com>
Sent: Tuesday, June 8, 2021 8:48 AM
To: Jared Nichols
Subject: FW: Joplin Turkey Creek

Jared,

Not real formal, but this is from Tim.

Ryan

From: Shultz, Tim
Sent: Thursday, June 03, 2021 5:01 PM
To: Ryan Zengel <ryan@joplinelectric.com>
Subject: RE: Joplin Turkey Creek

Ryan, we are still good with this spec, Chris and Mark from ASCO have been having conversations concerning the cabinets on the service so, they have decided to make a small change, the 800amp will now include an accessory code 42, which that only means that the enclosure is growing and now will be the same size as a 1000amp cabinet, at this time since we made a change to enclosure it makes out quote a special application quote and we must now clear engineering, I have asked for a new submittal package but it will be about 7-10 days before ASCO can provide us with submittal and drawings for these items, per other discussions and I will provide you with a new quote but here is a new price level,
Please Add \$79,300 to our original package quote
Contact me with any questions

I called Chris today as well and he told me that we would be moving forward with this change

Thanks Tim

From: Ryan Zengel <ryan@joplinelectric.com>
Sent: Tuesday, April 20, 2021 8:30 AM
To: Shultz, Tim <tim.shultz@cpower.com>
Subject: RE: Joplin Turkey Creek

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Tim,

I am back in the office this week. Can we set up another conference call with Allgeier Martin and Asco to review and discuss this?

Ryan

#1 ATS AMPS: 0800 QTY: 1

Product : 7000 Series Transfer

Switches Catalog Number :

H7ADRSB30800N5XM,1PS1,5LL

18B,18G,31Z,44G,72EE2,125A,134

135L

Service Voltage / Hz : 480V/60Hz Optional Accessories : 134,1PS1,5LL,18B,18G,31Z,44G
72EE2,125A,135L

Bypass Isolation : Not Applicable Product Description :

7000 Series, Automatic Dual

Service Entrance Delayed Transition

Transfer Switch - Breakers on

Normal and Emergency

No. of Switched Poles : 4 Neutral Configuration : Switched [B]

Withstand Rating: : See WCR table below No. of Cables & Lug

Size :

Frame = H, Switch Rating = 0800, Series = 7000

Enclosure :

3R(M)-UL Type 3R secure

double door enclosure (See

Disclaimer 3)

Service : Three Phase, 4-wire

Extended Warranty : Not Included Markings :

#

ACCESSORY DESCRIPTIONS

Accessory Code Description

1 1PS1

Internal ASCO buffer module to provide Controllers, Power Manager/Meter, & 72SW with a minimum of 25s of backup power for communications when the load is without power.

Provides customer terminal block for optional external 24Vdc.

2 5LL

Maintained type test selector switch with override retransfer to normal in the event of emergency source failure. Includes red pilot light to indicate test active. Note: replaces feature 5, feature 6B becomes push button.

3 18B/18G 2pole D/T contacts that operate when emergency and normal source voltage is present at transfer switch terminals

4 31Z

Selective Load disconnect circuit to provide a pre-transfer and/or post transfer signal when transferring from emergency to normal and/or normal to emergency. The signal can be programmed to occur during all transfers or only when the transfer is occurring between two live sources. The length of the pre and post transfer delays can be set to 0-5 minutes 59 seconds.

5 44G

208-240VAC and or 440-480VAC Accessory 44 Strip heater is designed to keep humidity and or temperature within the ATS enclosure at acceptable levels. This accessory consists of a mounting bracket with strip heater, thermostat and terminal block.

6 72EE2

5170 Quad-Ethernet Module provides transfer switch dashboard screen with password protected control capabilities, email alerts and open protocol support in a single module with an integrated 4 port Ethernet switch.

7 125A

This Product Meets Or Exceeds The Requirement Of The International Building Code For Importance Factor 1.5 Electrical Equipment. For Use In Zone 4 Or Less Severe Seismic Regions. Consult ASCO for details

8 134 100% Service Entrance Rated Breaker

9 135L ASCO "Digital Power Meter" monitoring the load source for measurement of voltage,

frequency, and current. Calculation of Power, Energy, and Power Factor.

#2 ATS AMPS: 1000 QTY: 1

Product : 7000 Series Transfer

Switches Catalog Number : H7ADRSB31000N5XM,1PS1,5LL

18B,18G,31Z,44G,72EE2,125A,135L

Service Voltage / Hz : 480V/60Hz Optional Accessories : 1PS1,5LL,18B,18G,31Z,44G

72EE2,125A,135L

Bypass Isolation : Not Applicable Product Description :

7000 Series, Automatic Dual Service

Entrance Delayed Transition Transfer

Switch - Breakers on Normal and

Emergency

No. of Switched Poles : 4 Neutral Configuration : Switched [B]

Withstand Rating: : See WCR table below No. of Cables & Lug

Size :

Frame = H, Switch Rating = 1000, Series = 7000

Enclosure :

3R(M)-UL Type 3R secure

double door enclosure (See

Disclaimer 3)

Service : Three Phase, 4-wire

Extended Warranty : Not Included Markings :

#

ACCESSORY DESCRIPTIONS

Accessory Code Description

1 1PS1

Internal ASCO buffer module to provide Controllers, Power Manager/Meter, & 72SW with a minimum of 25s of backup power for communications when the load is without power.

Provides customer terminal block for optional external 24Vdc.

2 5LL

Maintained type test selector switch with override retransfer to normal in the event of emergency source failure. Includes red pilot light to indicate test active. Note: replaces feature 5, feature 6B becomes push button.

3 18B/18G 2pole D/T contacts that operate when emergency and normal source voltage is present at transfer switch terminals

4 31Z

Selective Load disconnect circuit to provide a pre-transfer and/or post transfer signal when transferring from emergency to normal and/or normal to emergency. The signal can be programmed to occur during all transfers or only when the transfer is occurring between two live sources. The length of the pre and post transfer delays can be set to 0-5 minutes 59 seconds.

5 44G

208-240VAC and or 440-480VAC Accessory 44 Strip heater is designed to keep humidity and or temperature within the ATS enclosure at acceptable levels. This accessory consists of a mounting bracket with strip heater, thermostat and terminal block.

6 72EE2

5170 Quad-Ethernet Module provides transfer switch dashboard screen with password protected control capabilities, email alerts and open protocol support in a single module with an integrated 4 port Ethernet switch.

7 125A

This Product Meets Or Exceeds The Requirement Of The International Building Code For Importance Factor 1.5 Electrical Equipment. For Use In Zone 4 Or Less Severe Seismic Regions. Consult ASCO for details

8 135L ASCO "Digital Power Meter" monitoring the load source for measurement of voltage, frequency, and current. Calculation of Power, Energy, and Power Factor.

#3 ATS AMPS: 0800 QTY: 1

Product : 7000 Series Transfer

Switches Catalog Number : H7ADTSB30800N5XM,1PS1,5LL

18B,18G,31Z,44G,72EE2,125A,135L

Service Voltage / Hz : 480V/60Hz Optional Accessories : 1PS1,5LL,18B,18G,31Z,44G

72EE2,125A,135L

Bypass Isolation : Not Applicable Product Description : 7000 Series, Automatic Delayed Transition Transfer Switch

No. of Switched Poles : 4 Neutral Configuration : Switched [B]

Withstand Rating: : See WCR table below No. of Cables & Lug

Size : 4, #1/0 AWG to 600 MCM

Frame = H, Switch Rating = 0800, Series = 7000

Enclosure :

3R(M)-UL Type 3R secure

double door enclosure (See

Disclaimer 3)

Service : Three Phase, 4-wire

Extended Warranty : Not Included Markings :

#

ACCESSORY DESCRIPTIONS

Accessory Code Description

1 1PS1

Internal ASCO buffer module to provide Controllers, Power Manager/Meter, & 72SW with a minimum of 25s of backup power for communications when the load is without power.

Provides customer terminal block for optional external 24Vdc.

2 5LL

Maintained type test selector switch with override retransfer to normal in the event of emergency source failure. Includes red pilot light to indicate test active. Note: replaces feature 5, feature 6B becomes push button.

3 18B/18G 2pole D/T contacts that operate when emergency and normal source voltage is present at transfer switch terminals

4 31Z

Selective Load disconnect circuit to provide a pre-transfer and/or post transfer signal when transferring from emergency to normal and/or normal to emergency. The signal can be programmed to occur during all transfers or only when the transfer is occurring between two live sources. The length of the pre and post transfer delays can be set to 0-5 minutes 59 seconds.

5 44G

208-240VAC and or 440-480VAC Accessory 44 Strip heater is designed to keep humidity and or temperature within the ATS enclosure at acceptable levels. This accessory consists of a mounting bracket with strip heater, thermostat and terminal block.

6 72EE2

5170 Quad-Ethernet Module provides transfer switch dashboard screen with password protected control capabilities, email alerts and open protocol support in a single module with an integrated 4 port Ethernet switch.

7 125A

This Product Meets Or Exceeds The Requirement Of The International Building Code For Importance Factor 1.5 Electrical Equipment. For Use In Zone 4 Or Less Severe Seismic Regions. Consult ASCO for details

8 135L ASCO "Digital Power Meter" monitoring the load source for measurement of voltage,

frequency, and current. Calculation of Power, Energy, and Power Factor.

#4 ATS AMPS: 1000 QTY: 1

Product : 7000 Series Transfer

Switches Catalog Number : H7ADTSB31000N5XM,1PS1,5LL

18B,18G,31Z,44G,72EE2,125A,135L

Service Voltage / Hz : 480V/60Hz Optional Accessories : 1PS1,5LL,18B,18G,31Z,44G

72EE2,125A,135L

Bypass Isolation : Not Applicable Product Description : 7000 Series, Automatic Delayed Transition Transfer Switch

No. of Switched Poles : 4 Neutral Configuration : Switched [B]

Withstand Rating: : See WCR table below No. of Cables & Lug

Size : 4, #1/0 AWG to 600 MCM

Frame = H, Switch Rating = 1000, Series = 7000

Enclosure :

3R(M)-UL Type 3R secure

double door enclosure (See

Disclaimer 3)

Service : Three Phase, 4-wire

Extended Warranty : Not Included Markings :

#

ACCESSORY DESCRIPTIONS

Accessory Code Description

1 1PS1

Internal ASCO buffer module to provide Controllers, Power Manager/Meter, & 72SW with a minimum of 25s of backup power for communications when the load is without power.

Provides customer terminal block for optional external 24Vdc.

2 5LL

Maintained type test selector switch with override retransfer to normal in the event of emergency source failure. Includes red pilot light to indicate test active. Note: replaces feature 5, feature 6B becomes push button.

3 18B/18G 2pole D/T contacts that operate when emergency and normal source voltage is present at transfer switch terminals

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Selective Load disconnect circuit to provide a pre-transfer and/or post transfer signal when transferring from emergency to normal and/or normal to emergency. The signal can be programmed to occur during all transfers or only when the transfer is occurring between two live sources. The length of the pre and post transfer delays can be set to 0-5 minutes 59 seconds.

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5170 Quad-Ethernet Module provides transfer switch dashboard screen with password protected control capabilities, email alerts and open protocol support in a single module with an integrated 4 port Ethernet switch.

7 125A

This Product Meets Or Exceeds The Requirement Of The International Building Code For Importance Factor 1.5 Electrical Equipment. For Use In Zone 4 Or Less Severe Seismic Regions. Consult ASCO for details

8 135L ASCO "Digital Power Meter" monitoring the load source for measurement of voltage, frequency, and current. Calculation of Power, Energy, and Power Factor.

