

Bid / RFP / RFQ Number:	SB-2022-15	
Project Number:	E2022-044	
Project Name:	Electric Substation Upgrades	
Addendum No.:	2	
Date of Addendum:	October 18th, 2022	

To All Plan Holders:

1. CHANGE OF BID OPENING DATE:

DUE TO LONG LEAD TIMESFOR QUOTES FROM MATERIAL SUPPLIERS, THE BID OPENING WILL BE POSTPONED AGAIN UNTIL DECEMBER 5th, 2022 at 3:30 P.M. LOCATION OF THE BID OPENING WILL REMAIN THE SAME.

2. OIL TESTING:

Current PCB tests for the transformers are attached to this addendum. The other equipment that tests are not provided for are stamped "No PCB" on the nameplates.

3. Sub 1 North American Transformer:

North American is no longer in business. Prolec-GE Waukesha, Inc now owns the rights to this transformer. The OEM equipment arrestors may not be available any longer. In lieu of the porcelain arrestors, provide polymer or equivalent arrestors meeting current industry standards.

4. Sub 3 Jordan Transformer:

The OEM equipment may not be available for this transformer. The City of Claremore will provide measurements for bushings and arrestors in a subsequent addendum.

5. Sub 3 MB1/Moloney LTC:

The motor may not be available for this LTC. If required, the LTC and/or the motor will likely have to be removed and rebuilt by a third party vendor. Cost included in the bid shall reflect this requirement. Additionally, the contractor shall

supply a temporary motor during the rebuild so that the LTC can be manually operated by city staff if need.

6. Nitrogen Systems for all Transformers:

Provide new N2-1 nitrogen systems as manufactured by Waukesha or an approved equal for each transformer. Cost of installation and all incidentals shall be included in the appropriate bid item. The City of Claremore has a separate contract for supply of the Nitrogen cylinders. A full nitrogen cylinder will be provided by the city as needed.

All other terms, conditions and specifications remain unchanged. Any additions made to the Bidding and Contract Documents including the Plans and Specifications per this Addendum shall be considered a part of the original Bidding and Contract Documents. The professional seals and signatures applied to the original Bidding and Contract Documents are thereby considered to cover any additions to said documents per this Addendum.

Garrett L. Ball, P.E.

Form.

Claremore City Engineer

Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Proposal

Alternative Technologies, Inc.

12350 River Ridge Blvd. Burnsville, MN 55337

Telephone (800) 255-8656 or (952) 894-3455

Type / Tank: TRN KVA: 15000

Rick Priest Voltage: 67000 Enserv Environmental Services Gallons: 3580

PO Box 5999 Manuf Date: Manufacturer: MCGRAW EDISON

Jacksonville, AR 72076 Fluid Type: Mineral Oil Container No.: AL855

Serial Number:	C-06387-5-1
Client Number:	EAST 1
Date Received:	9-30-2020
Report Date:	10-8-2020

Location: SUB 3 Bank & Phase: 3 PHASE

	Date Temp	24-Sep-20 30C		
lydrogen (H2)		0	ppm	
Methane (CH4)		3	ppm	
Ethane (C2H6)		4	ppm	
Ethylene (C2H4)		2	ppm	
Acetylene (C2H2)		0	ppm	
Carbon Monoxide (CO)		61	ppm	
Carbon Dioxide (CO2)		1725	ppm	
Nitrogen (N2)		82774	ppm	
Oxygen (O2)		2453	ppm	
Total Gas		87022	ppm	
Total Combustible Gas		70	ppm	
Equivalent TCG Reading		0.0532	%	
omments: All gases at acc	eptable	concentrations		Recommended Retest: 1 Year

PHYSICAL AI	ed:OUEM	Date:	24-Sep-20							
Moisture in C Interfacial Te Acid Number Color Number Visual Dielectric D8 Viscosity	nsion · er		9 30.2 0.024 1.5 CLEAR 54	ppm dynes/cm mg KOH/g relative kV						
Specific Gray Power Facto Power Facto Oxidation Inl Fural Screen Pour Point Flash Point	r @ 25C r @ 100C nibitor		0.885 <.05 0.26	relative % %						
PCB CO	NTENT				METALS	N OIL (ppm)			
<u>PPM</u> <1	Aroclor	<u>Date</u>	<u>Aluminum</u>	Copper	<u>lron</u>	Lead	<u>Silver</u>	<u>Tin</u>	Zinç	

Alternative Technologies, Inc., (ATI) shall assume no flability or responsibility, nor imply or express any warranty or other security against client loss of production, operation, profitability, or other loss, regardless of circumstances, beyond the cost of re-analysis by ATI.

Approved By:	Lab Number: 219540-007

Alternative Technologies, Inc.

12350 River Ridge Blvd. Burnsville, MN 55337

Telephone (800) 255-8656 or (952) 894-3455

Type / Tank: LTC

Rick Priest

Enserv Environmental Services

PO Box 5999

Jacksonville, AR 72076

KVA: 15000 Voltage: 67000

Gallons: 188

Manuf Date:

Fluid Type: Mineral Oil

Serial Number: C-06387-5-1LTC Client Number: EAST 1 Date Received: 9-30-2020 10-8-2020 Report Date:

Location: SUB 3

Bank & Phase: LTC

Manufacturer: MCGRAW EDISON

Container No.: CM842

	Date Temp	24-Sep-20 30C		
lydrogen (H2)		87	ppm	
Methane (CH4)		40	ppm	
Ethane (C2H6)		13	ppm	
Ethylene (C2H4)		154	ppm	
Acetylene (C2H2)		491	ppm	
Carbon Monoxide (CO)		87	ppm	
Carbon Dioxide (CO2)		2992	ppm	
Nitrogen (N2)		69878	ppm	
Oxygen (O2)		26053	ppm	
Total Gas		99795	ppm	
Total Combustible Gas		872	ppm	
Equivalent TCG Reading		0.3208	·. %	

PHYSICAL	AND CHEN	IICAL TES Date:	15 24-Sep-20							
Moisture ii Interfacial Acid Numi Color Nun Visual	Tension per		56 15.2 0.565 3.0 CLEAR	ppm dynes/cm mg KOH/g relative						
Dielectric Viscosity	0877		52	kV						
Specific G Power Fac	ravity tor @ 25C		0.886 <.05	relative %						
	tor @ 100C Inhibitor en		0.64	%						
PCBC	ONTENT				AETALS I	N OIL (ppm				
<u>PPM</u> < 1	<u>Aroclor</u>	<u>Date</u>	<u>Aluminum</u>	Copper	<u>Iron</u>	<u>Lead</u>	Silver	<u>Tin</u>	<u>Zinç</u>	

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Approved By:	Lab Number: 219540-008
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Serial Number: C-06387-5-2

Client Number:

Alternative Technologies, Inc.

12350 River Ridge Blvd.

PO Box 5999 Manuf Date: Manufacturer: MCGRAW EDISON

Jacksonville, AR 72076 Fluid Type: Mineral Oil Container No.: EC141

Burnsville, MN 55337			Date Received: 9-30-2020
Telephone (800) 255-8656 or (952) 894-34	455		Report Date: 10-8-2020
	Type / Tank:	TRN	
	KVA:	15000	
Rick Priest	Voltage:	67000	Location: SUB 2
Enserv Environmental Services	Gallons:	3580	Bank & Phase: 3 PHASE

	Date Temp	24-Sep-20 30C			
Hydrogen (H2)	. 44	5	pom		
Methane (CH4)		10	ppm		
Ethane (C2H6)		33	ppm		
Ethylene (C2H4)		8	ppm ppm		
Acetylene (C2H2)		3	ppm		
Carbon Monoxide (CO)		18	ppm		
Carbon Dioxide (CO2)		2409	ppm		
Nitrogen (N2)		83842	ppm		
Oxygen (O2)		1598	ppm		
Total Gas		87926	ppm		
Total Combustible Gas		77	ppm		
Equivalent TCG Reading		0.0302	%		

PHYSICAL AND CHEMI	CAL TES								
	Date:	24-Sep-20							
Moisture in Oil		24	ppm						
Interfacial Tension		29.5	dynes/cm						
Acid Number		0.018	mg KOH/g						
Color Number		3.0	relative						
Visual		OK							
Dielectric D877		53	kV						
Viscosity									
Specific Gravity		0.886	relative						
Power Factor @ 25C		<.05	%						
Power Factor @ 100C		1.04	%						
Oxidation Inhibitor Fural Screen									
Pour Point									
Flash Point									
	*******			taran karan aran aran sa sa sa					
PCB CONTENT				METALS	N OIL (ppm)			
PPM Aroclor	<u>Date</u>	Aluminum	Copper	Iron	Lead	Silver	<u>Tin</u>	Zinc	
2 1242									
L									

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Approved By:	Lab Number: 219540-005
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Alternative Technologies, Inc.

12350 River Ridge Blvd. Burnsville, MN 55337

Telephone (800) 255-8656 or (952) 894-3455

Type / Tank: LTC

Rick Priest

Enserv Environmental Services

PO Box 5999 Jacksonville, AR 72076 KVA: 15000 Voltage: 67000

Gallons: 188

Manuf Date:

Fluid Type: Mineral Oil

Serial Number:	C-06387-5-2LTC
Client Number	
Date Received:	9-30-2020
Report Date	10-8-2020

Location: SUB 2

Bank & Phase: LTC

Manufacturer: MCGRAW EDISON

Container No.: EC277

	Date	24-Sep-20		
	Temp	30C		
lydrogen (H2)		5393	ppm	
/lethane (CH4)		1775	ppm	
Ethane (C2H6)		235	ppm	
Ethylene (C2H4)		2768	ppm	
Acetylene (C2H2)		9624	ppm	
Carbon Monoxide (CO)		357	ppm	
Carbon Dioxide (CO2)		5324	ppm	
Nitrogen (N2)		72946	ppm	
Oxygen (O2)		3024	ppm	
Total Gas		101446	ppm	
Total Combustible Gas		20152	ppm	
quivalent TCG Reading		12.7188	%	

			*****	Ochonomore					
PHYSICAL AND CHEMICA	L TES	TS							
	Date:	24-Sep-20					-		
Moisture in Oil Interfacial Tension Acid Number Color Number Visual Dielectric D877 Viscosity Specific Gravity Power Factor @ 25C Power Factor @ 100C Oxidation Inhibitor Fural Screen Pour Point Flash Point		31 22.7 0.093 3.0 SEDIMENT 49 0.884 <.05 1.88	ppm dynes/cm mg KOH/g relative kV relative % %						
PCB CONTENT				METALS	N OIL (ppm)				
	ate	Aluminum	Copper	iron	<u>Lead</u>	Silver	<u>Tin</u>	<u>Zinç</u>	

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Approved By:	Lab Number: 219540-006