November 23, 2026

ADDENDUM No. 8

RFB No. 034-10-26
Tabor Autotransformer
De-Tanking, Inspection and Testing

Please be advised of the following clarifications, additions, deletions and/or changes are hereby made a part of the bid documents for the above referenced project as full and as completely as though the same were included therein:

EXTENSION:

- Question Deadline Extended to **Thursday, December 3, 2026** at 10:00 AM
- Bids due by 2:00 PM, **Thursday, December 10, 2026**
- Public acknowledgement immediately following the opening (*no change to link provided in bid documents*)

ATTACHMENTS:

- Clarification of Project addressed during pre-bid meeting
- Description of Bid Units
- Relay Event (separate attachment)
- DGA Report (separate attachment)
- Test Records (separate attachment)
- Revised Bid Sheet (separate attachment – excel format)

We regret any inconvenience this change may cause you in processing this bid request.

This addendum shall be signed and included with your bid package as acknowledgement of the addendum. Failure to acknowledge and submit any addenda may be cause for the bid to be rejected. BTU's decision to accept or reject a bid due to a failure to acknowledge and submit addendum shall be final.

X_____ _____

Bidder Acknowledgement Signature | Company Name

_____

Catherine Benavides-Castro, Buyer
BTU Purchasing Department

CLARIFICATION OF PROJECT

Tabor Autotransformer De-tanking, Inspection, and Testing

This project is for the De-tanking, Inspection, and Testing services on one Three phase, 168MVA, 138kV auto transformer for Bryan Texas Utilities. The transformer is located in Bryan Texas Utilities' Tabor Substation at 3084 FM974, Bryan, TX 77808.

Scope of Work and Bid Unit Descriptions

- Mobilize to Bryan Texas Utilities' Tabor Substation, 3084 FM974, Bryan, TX 77808
- Stage equipment, receive rental equipment, as necessary, inspect transformer for damage.
    - See attached "Tabor TR033 DGA" PDF, "Tabor TR033 Test Records" PDF, "Tabor TR033 Relay Event" PDF, "Tabor TR033 Outline Drawing" PDF, "Tabor TR033 Nameplate" and "Tabor TR033 LTC Nameplate" JPEGs for additional detail and nameplate information.
- Pre-testing:
    - Complete power factor testing of all windings
    - Power factor all bushings
    - Transformer Turns Ratio (TTR) on all energized taps
    - Winding resistance on all energized taps
    - Core ground resistance (Megger)
    - Insulation resistance with 10-minute Polarization Index (PI)
- Perform pre-drain oil samples on LTC and Main Tank.
- Inspect LTC for damage
    - If damaged components are found, consult Reinhausen Manufacturing for price availability and re-quote repairs.
    - Replace door gasket on LTC with new one, provided by contractor
- Drain main tank oil into clean tanker(s), provided by contractor
- Perform internal inspection of Main Tank, checking for:
    - Loose or damaged connections on the bushings
    - Loose or damaged connections on the LTC barrier board
    - Visual signs of arcing and coking on the de-energized taps (DETC)
    - Damages to the ground connection point(s)
    - Internal damages to the frame, strapping, bracing, and core steel
    - Debris collection (if found, document and send for analysis)
- Document the findings to the customer
- Perform any repairs that can be done without replacement components
- In the event that on-site repairs are not able to address the cause of the transformer failure, dispose of the transformer oil.

- Shipment of the transformer to the manufacture in the event of an unsuccessful on-site repair is not included in this scope.

- In the event that the on-site repairs are able to address the cause of the transformer failure, a second mobilization to complete the remaining scope may be required to complete the remaining scope.

Replace all transformer bushings and gaskets, provided by contractor

  - See attached "Tabor TR033 Bushings" PDF for bushing drawings and nameplates

- Pressurize the transformer to 5PSI to check for leaks
- Pull 24 hours of vacuum below 1 torr
- Vacuum fill the transformer and perform one (1) post fill circulation of total name-plate value
- Refill the LTC compartment with processed oil and perform one (1) post fill circulation of total LTC nameplate volume

Perform the following post testing:

  - Complete power factor testing of all windings
  - Power factor all bushings
  - Transformer Turns Ratio (TTR) on all energized taps
  - Winding resistance on all energized taps
  - Core ground resistance (Megger)
  - Insulation resistance with 10-minute Polarization Index (PI)
  - Sweep Frequency Response Analysis (SFRA)

- All test records shall be saved and transmitted to Bryan Texas Utilities in .dtax and .sfra format.
- Obtain final oil samples from the Main Tank and OLTC, testing for:

Test	**Units**	**Standard**
DGA	(ppm)	(ASTM D-3612)
DGA Key Gas / Interpretive Method:		IEEE (C57.104)
Moisture in Oil	(ppm)	(D-1533)
Interfacial Tension	(dynes/cm)	(D-971)
Dielectric Breakdown 1 mm (2mm)	(kV)	(D-1816)
Power Factor at 25C	(%)	(D-924)
Power Factor at 100C	(%)	(D-924)
Particle Count	(/ 50ml)	(ACFTD / ISO 4406)
Polychlorinated Biphenyl (PCB)	(ppm)	(EPA Method 8082)
Neutralization number (acidity)	(MGk OH/g)	(ASTM D974)

Specific Gravity (API Gravity)	(kg/m3-g/cm3)	(ASTM 5002)
Flash Point	(°C)	(ASTM D92)

Contractor will provide the following:

- NETA or OSHA 30 certified, transformer service technicians for the project.
- Oil processing equipment with self-contained power source.
- Dry air that is greater than -55C
- Service truck(s) with tools, ladders, and safety equipment for the project.
- Oil sample kits.
- Shipment and rush analysis of oil samples through Doble Oil Laboratories
- New LTC Door Gasket.
- Replacement Gaskets for Main Tank manhole covers.
- Oil Storage totes for LTC and Oil Storage tanker for main tank.
- All test equipment required for the project.
- Confined Space Rescue Team
- Open and closed top drum(s) for oily waste and scrap oil generated during the project. Both open and closed-top, 55-gallon drums are recommended for waste disposal by contractor.
- Disconnect and Re-connecting all bushing terminations and buss work as required.
- Detailed service report, to include assessment of transformer's ability to be placed in service.
- One additional mobilization
- Provide sanitation facilities at work location, as necessary.

Bryan Texas Utilities will provide the following:

- Access to the transformer
- Switching, tagging, lock-out, and grounding of any equipment necessary to establish a safe work area.
- Disconnect and Re-connecting all external protection, control wiring from the control cabinet to the control room, and relay wiring, as required.
- Defeat active trip functions installed on transformer (remove DC voltage supply).

Schedule:

- The service will be completed no later than June 2027.

Pricing:

- Pricing for this project is based on bid units listed in the Bid Unit Descriptions and Bid Unit Proposal form. Payments for this scope of work will be made upon successful completion of bid units. A 20% contingency will be included in the total purchase order amount.

DESCRIPTION OF BID UNITS

Group A. TABOR AUTOTRANSFORMER

Description – Group A Units are described as follows:

Unit A1 PRE-TESTING AND OIL SAMPLES (Contractor Labor and Material)
This unit consists of initial mobilization, all pre-testing, and pre-drain oil samples. The Contractor shall provide all cost associated with the initial mobilization, all pre-testing, and pre-drain oil samples of the autotransformer as indicated on the unit proposal sheet.

Unit A2 LTC DRAIN AND INSPECTION (Contractor Labor and Material)
This unit consists of draining and Inspecting the LTC. The Contractor shall provide all cost associated with the draining and inspecting the LTC as indicated on the unit proposal sheet.

Unit A3 MAIN TANK DRAIN AND INSPECTION (Contractor Labor and Material)
This unit consists of draining and inspecting the main tank of the autotransformer. The Contractor shall provide all cost associated with the draining and inspecting the main tank of the autotransformer as indicated on the unit proposal sheet.

Unit A4 ON-SITE REPAIRS (Contractor Labor and Material)
This unit consists of all labor and material associated with repairs that can be made on-site at the substation. The Contractor shall provide all cost associated with these repairs as indicated on the unit proposal sheet.

Unit A5 OIL DISPOSAL (Contractor Labor and Material)
This unit consists of disposing of oil from the main tank and LTC in the event that off-site repairs are required. The Contractor shall provide all cost associated with the disposal of oil as indicated on the unit proposal sheet.

Unit A6 SECOND MOBILIZATION (Contractor Labor)
This unit consists of an additional mobilization, in the event that repairs are not able to correct the concerns identified during the initial testing and inspection of the transformer. The Contractor shall provide all cost associated with the second mobilization to complete bid units A7, A8 and A9 as indicated on the unit proposal sheet.

Unit A7 BUSHING REPLACEMENT (Contractor Labor and Material)
This unit consists of installing all Contractor-furnished transformer bushings. This unit will only be the contractor's responsibility if on-site transformer repairs are successfully. The Contractor shall provide all cost associated with the procurement and installation of all transformer bushings as indicated on the unit proposal sheet.

Unit A8 REFILL AND PROCESS OIL (Contractor Labor and Material)
This unit consists of refilling and processing the main tank and oil. This unit will only be the contractor's responsibility if on-site transformer repairs are successfully. The Contractor shall provide all cost associated with the installation of each device as indicated on the unit proposal sheet.

Unit A9 POST-TESTING AND OIL SAMPLES (Contractor Labor and Material)
This unit consists of, all post-testing, and post-fill oil samples. This unit will only be the contractor's responsibility if on-site transformer repairs are successfully. The Contractor shall provide all cost associated with the initial mobilization, all pre-testing, and pre-drain oil samples of the autotransformer as indicated on the unit proposal sheet.