REQUEST FOR PROPOSAL



BURLINGTON ELECTRIC DEPARTMEN1

585 Pine street Burlington, VT 05401-4891 Phone: 802-865-7456

RFP #			
081-24			
DATE: 4/17/2024			
REQUEST FOR QUOTATION			
<u>THIS IS AN INQUIRY,</u> <u>NOT AN ORDER</u>			
PLEASE QUOTE PROMPTLY			

ALL RFP'S RESPONSES ARE TO BE

UPLOADED TO OUR SECURE

WEB SITE USING YOUR UNIQUE LOGI

SHALL BE HELD UNTIL RECEIVED AND ACCEPTED BY B.E.D. DELIVERY REQUIREMENT: SHIP FOB DESTINATION FREIGHT ALLOWED . Hours are 7:30 am to 2:30pm M-F BED RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL PROPOSALS RECEIVED IN RESPONSE TO THIS RFP OR TO TAKE OTHER ACTION CONSISTENT WITH THE BEST INTEREST OF BED. BED RESERVES THE RIGHT TO NEGOTIATE SEPARATELY WITH ANY SOURCE TO SERVE THE BEST INTEREST OF BED.	DELIVERY REQUIRED BY:		RED BY:	QUOTATION DUE BY			REQUISITION NO:	DE	PT:	
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REQUEST FOR PROPOSAL

The following is a minimum check list that must be included in the submittal of the above RFP. If any of the information is missing it will make your RFP invalid and we will not be able to consider it for evaluation!!! DID YOU INCLUDE THE FOLLOWING AT A MINIMUM ? **Unit Cost Delivery time** No Load (avg) & (max) Load (avg) & (max)(avg) & (max) Total Impedance (must be average values) Is delivery included in the cost of the item? If not what is the cost for delivery Drawings with dimension. Did you quote both Amorphous core and Steel? If not why? Include manufacturer information about corrosion protection (item 14e on material spec) and coating (item 5j on material spec). All RFP's must be uploaded to our secure site using your unique login. We will only accept Word, Excel or PDF submissions. Once you have Uploaded your file you will get an email indicating that it was successful. All times are based on EST.

Paul Charbonneau

PURCHASING -- JEFF TURNER II

TO INQUIRE ON ABOVE QUOTE PLEASE CALL PURCHASING DEPARTMENT DIRECT AT:

PAUL CHARBONNEAU 865-7456 email: pcharbonneau@burlingtonelectric.com

BURLINGTON ELECTRIC DEPARTMENT (BED) MATERIAL SPECIFICATION

Single Phase, Liquid Filled, Compartmental-Type, Dead Front, Loop Feed Padmounted Transformer

1) Scope:

- a) This specification covers the electrical characteristics and mechanical features of three phase, 60 Hz, mineral oil immersed, self-cooled, 65°C rise, padmounted, distribution transformers.
- b) All transformers shall be in accordance with the latest revision of each referenced industry standard (listed below), except as modified by this specification.

ANSI/IEEE C57.12.00	ANSI/IEEE C57.12.28	ANSI/IEEE C57.12.38		
ANSI/IEEE C57.12.70	ANSI/IEEE C57.12.80	ANSI/IEEE C57.12.90		
ANSI/IEEE C57.91	ANSI/IEEE 386			
Western Underground Committee Guide 2.13				

2) Ratings:

- a) The kVA rating shall be as specified on the purchase order.
- b) The nominal high voltage rating and the basic impulse insulation level (BIL) shall the following:
 13800 Grd Y/7970
 95 kV BIL
- c) The nominal low voltage rating and the basic impulse insulation level shall be:

240 / 120 30	0 kV BIL
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3) Impedance Voltage:

15 - 167 kVA	1.50% - 2.35%
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4) Testing:

- a) All transformer testing shall comply with ANSI/IEEE C57.12.00 and ANSI/IEEE C57.12.90.
- b) All transformers shall be tested for no load losses (85°C), total losses (85°C), percent impedance (85°C) and exciting current (100% rated voltage). No load losses shall also be tested at 105% rated voltage.
- c) All transformers shall be subjected to a full wave voltage impulse.
- d) The manufacturer shall supply verification that the design has passed Short Circuit criteria per ANSI/IEEE C57.12.00 and ANSI/IEEE C57.12.90.
- e) Complete certified test reports, by serial number, shall be delivered to BED with the transformers. These reports must either be signed by an authorized individual at the factory, or be accompanied by a cover letter referring to purchase order number and signed by an agent authorized to conduct

Material SpecificationSingle Phase, Liquid Filled, Compartmental-Type,Approved: Benklog-Welliee# S0118Dead Front, Loop Feed, Padmounted TransformerDate:7/31/2023Burlington Electric DepartmentPage 1 of 4

transformer sales business for the manufacturer.

5) Construction:

- a) The manufacturer shall certify that the transformer and the oil are PCB free. This shall be indicated on the transformer nameplate.
- b) The nameplate shall be made of a corrosion resistant material and permanently marked meeting ANSI/IEEE C57.12.00.
- c) All neutral connections shall be through a fully insulated bushing grounded to the transformer tank by removable ground strap(s).
- d) All insulating paper used as layer insulation in transformer coils shall be bonded type, coated on both sides with a thermosetting adhesive and properly cured prior to impregnating with oil or the coils shall be wound with primary conductor containing a thermosetting adhesive that when properly cured will form an effective bond, both turn to turn and layer to layer.
- e) The transformer shall have an electrostatically applied (or equivalent process) protective coating. The coating shall be resistant to transformer oils and shall withstand a minimum 160 inch-pound impact per ASTM D2794. The coating shall meet or exceed all requirements of ANSI/IEEE C57.12.28. The color shall be olive green, Munsell No.7.0GY3.29/1.5.
- f) Lifting lugs for a balanced lift.
- g) Construction of the unit shall be such that it can be lifted, skidded, rolled or slid into place on the pad without disturbing the high or low voltage cables.
- i) The overall dimensions of the unit shall be such that it will fit on BED Standard 1606, Fiberglass Transformer Pad.
- 6) Electrical Compartment:
 - a) The electrical compartment shall comply with Figure 3 of ANSI/IEEE C57.12.38.
 - b) Access to the electrical compartment shall be provided by a lift-up hood.
 - c) The electrical compartment hood shall be equipped with provisions for locking with a single padlock. Compartment security shall also include a recessed, stainless steel penta-head bolt, which is accessible only with the padlock removed.
 - d) The hood shall open to provide a clear working space.
- 7) High Voltage Terminations:
 - a) The high voltage terminations and equipment shall be dead-front and shall conform to all applicable ANSI/IEEE and IEEE standards.
 - b) Primary bushings shall be a two-piece design with universal bushing wells and load break bushing well inserts, rated for 8.3 kV/14.4 kV. BED will provide the bushing well inserts.
 - c) Bushing wells shall be externally clamped and field replaceable.

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Burlington Electric Department

- d) Bushing well studs shall be field replaceable.
- e) Provisions for an insulated bushing (parking stand) shall be included.
- f) Two (2) 200 amp universal bushing wells (for loop feed) shall be provided.
- 8) Low Voltage Terminations:
 - a) The low voltage bushings shall be molded epoxy (or approved equivalent).
 - b) The secondary terminals shall be externally removable four (4) hole spades in accordance with Figure 6(B) of ANSI/IEEE C57.12.38.
- 9) Over-current Protection:
 - a) A loadbreak, BAY-O-NET type, oil immersed fuse shall be provided in series with an oil immersed, back-up current limiting fuse (CLF). The BAY-O-NET fuse element shall be externally replaceable with a distribution hot stick. Dual voltage units shall be capable of accepting both fuse sizes.
 - b) The BAY-O-NET fuse shall be current sensing, RTE type 353C, or equal.
 - c) The BAY-O-NET fuse size shall be per Table 4 of Cooper Power Systems publication 240-50.
 - d) The BAY-O-NET fuse and fuse holder must be interchangeable with RTE brand components.
 - e) The BAY-O-NET fuse assembly shall be equipped with a flapper valve and an oil drip shield to minimize oil spillage when the fuse is removed.
 - f) The back-up CLF shall be RTE type ELSP, or equal.
 - g) The back-up CLF shall be coordinated with the BAY-O-NET fuse, per Table 4 of Cooper Power Systems publication 240-50 and sized to melt only on internal transformer faults.
 - h) The back-up CLF shall be connected on the source side of the BAY-O-NET fuse.
- 10) If a dual voltage primary is specified by BED, the dual voltage switch shall be for de-energized operation only and shall have each position clearly labeled.

11) Taps:

- a) If specified by BED, full capacity taps shall be provided. Taps shall be connected to the primary winding.
- b) The tap changer shall be for de-energized operation only. The tap changer shall be manually operable by means of a rotary dial (or switch) and shall have provisions for padlocking.
- c) Each tap changer position shall be labeled. The tap setting must be clearly visible upon opening the cabinet door.
- 12) The transformer shall be equipped with the following accessories:
 - a) Oil level / fill plug.

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- b) Oil drain plug.
- c) A replaceable automatic pressure relief device designed to re-seal after operating.
- d) A means of manually venting tank pressure.
- e) ANSI/IEEE tank grounding provisions in the electrical compartment.

13) Information to be provided with quotation:

- a) Outline drawing of a typical unit, including a one-line diagram of the transformer.
- b) Average percent positive impedance, X/R and percent exciting current.
- c) Average and guaranteed maximum Total Load Losses.
- d) Average and guaranteed maximum No Load Losses.
- e) A description of the method used to minimize tank corrosion (design details or type of treatment).
- f) Warranty information and location of the nearest service shop, owned and operated by the manufacturer, which is capable of repairing all components of the transformer.

14) Information to be provided with Shipment of Transformer:

- a) Manufacturer shall provide BED with the final X/R and percent positive impedance
- 15) Exceptions:
- 16) Any exceptions to this specification shall be clearly documented when quoting. Exceptions must be specifically granted in writing by BED. Failure of BED to acknowledge exceptions when placing an order requires the manufacturer to comply with this specification if the order is accepted.

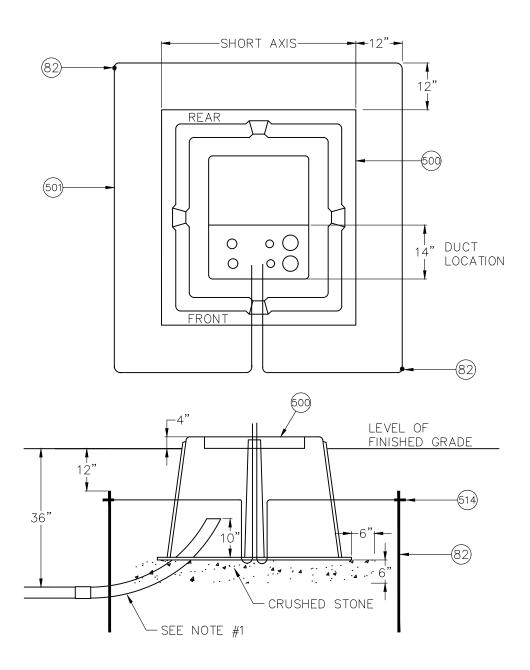
17) BED's loss evaluation formula applies to all bids.

18) Penalties:

Failure to meet quoted losses may result in a financial penalty being assessed the manufacturer. The penalty will be determined via BED's loss evaluation formula.

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NOTES

- 1. 90° 36" RADIUS BEND MUST BE USED. SWEEP SHALL BE CUT OFF 10" ABOVE BOTTOM OF BOX.
- 2. A MINIMUM OF 6" CRUSHED STONE WILL BE PLACED UNDER BOX AND EXTEND 6" BEYOND THE PERIMETER OF BOX.
- 3. FINISHED GRADE SHALL BE A MINIMUM OF 4" BELOW TOP OF BOX.
- 4. BOXES USED FOR TRANSFORMERS OR TERMINATING POINTS SHALL HAVE A GROUND GRID INSTALLED.
- 5. CONDUITS WILL ENTER BOX IN THE FRONT 14" OF CLEAR OPENING.
- 6. FIBERGLASS BOX TO BE SUPPLIED BY BED AND INSTALLED BY CONTRACTORS.

BURLINGTON ELECTRIC DEPT.				
DISTRIBUTION STANDARDS				
FIBERGLASS BOX SPECIFICATIONS AND INSTALLATION				
DATE: 06/24/19	DWG. NO.: 160602			
DWN BY: RG	APP. BY:			
SCALE: NONE	SHEET 2 OF 2			

