



BHMg Engineers, Inc.

9735 Landmark Parkway Drive
Suite 110A
St. Louis, MO 63127

Blake Toliver

January 8, 2024

Electric Department / Rochelle Municipal Utilities

E: btoliver@rmu.net

P: (815) 901-5257

Ref: 2201K001 – Rte. 38 Substation
Transformer Purchase Recommendation

Dear Mr. Blake Toliver:

The City received and opened bids on December 05, 2023 for the power transformer purchase, a part of the Rte. 38 Substation project. A total of two (2) bids were received and have been reviewed for completeness and ability to meet specification requirements.

| <u>Bidder</u> | <u>Total Bid Price</u> | <u>Lead Time</u> |
|---------------|------------------------|------------------|
| Virginia | \$1,561,344.00 | 60 weeks |
| WEG | \$2,047,300.00 | 56 weeks |

The bids were evaluated on a 20-year life cycle, considering purchase price and cost to operate. The Virginia unit was the most economical option. However, when selecting a long life product, price is not always the only thing to consider. The industry quality recognition of the units aligns with the price, with WEG being the best. That said, we have done many projects with Virginia. VTC has a good list of reference completed projects. The company appears to be in good standing and employs certified and trained craftsmen.

The low bid is over the Engineer’s estimate of \$1,500,000 for the contract. Unfortunately, electric utility materials continue to increase rapidly. The city does need to expand their system with this Rte. 38 substation, and we do not see pricing come down anytime soon. Therefore, it is the recommendation of BHMg to award the project to Virginia Transformer on a price basis, or WEG if based on industry recognition and assumed quality, for the supply of the transformer.

Should you have any questions concerning the proposals or the project, please do not hesitate to contact us.

Sincerely,

Chris Couch

Assistant Project Manager

Enclosures: Proposal Evaluation, Bid Tab, Quotes

bhmg.com
636.296.8600



Transformer Bid Evaluation



2201 - Rochele Rte 38 Substation Transformer

| # | Company | Proposal | Manufacturer Location | Leadtime | No Load Losses | 50% Load Losses | Full Load Losses | 20 Yr Loss Estimate | | Total Price | Estimated Weight | Impedance | Warranty | Tap Changer | Notes |
|---|----------------------|-----------------|-----------------------|----------|----------------|-----------------|------------------|---------------------|--------|----------------|------------------|-----------|----------|----------------|---|
| | | (\$) | | (weeks) | (kW) | (kW) | (kW) | 0.1 | \$/kwh | (\$) | (lbs) | (%IZ) | (years) | (manufacturer) | |
| 1 | Virginia Transformer | \$ 1,561,344.00 | | 60 | 15.50 | 35.00 | 70.00 | \$1,191,360.00 | | \$2,752,704.00 | 122,200 | 7.5 | 5 | Reinhausen | Core and coil only warranty after 12 months |
| 2 | WEG | \$ 2,047,300.00 | Washington, MO | 56 | 14.38 | 32.00 | 64.80 | \$1,099,905.60 | | \$3,147,205.60 | 126,670 | 7.5 | 5 | Reinhausen | |



2201 K001 Rochelle Municipal Utilities - Rte. 38 Substation - Transformer Purchase

| | | | | |
|---|---|--|---|---|
| BIDDERS / PROPOSALS | Virginia Transformer | WEG | | |
| | Power Equipment Sales Co. | Moehn Electric Sales | | |
| BID SECURITY | 5% | 5% | | |
| Furnish the Goods & Special Services for the Equipment Purchase | + 25,000 - 1,520,500 - | 2,047,300 - | | |
| PROJECT COMPLETION TIME - PROPOSAL 1 | 385 - 420 Days | 140 WKS | | |
| | <input checked="" type="checkbox"/> Registered Bidder | <input checked="" type="checkbox"/> Registered Bidder | | Registered Bidder |
| | <input checked="" type="checkbox"/> Non-Collusion Affidavit | <input checked="" type="checkbox"/> Non-Collusion Affidavit | Non-Collusion Affidavit | Non-Collusion Affidavit |
| | <input checked="" type="checkbox"/> Bid Bond | <input checked="" type="checkbox"/> Bid Bond | Bid Bond | Bid Bond |
| | <input checked="" type="checkbox"/> Bid Form | <input checked="" type="checkbox"/> Bid Form | Bid Form | Bid Form |
| | Any other documents as required by the specification | Any other documents as required by the specificaton | Any other documents as required by the specificaton | Any other documents as required by the specificaton |
| <p>BHM ENGINEERS, INC. Consulting Engineers 9735 Landmark Parkway Dr., Suite 110A St. Louis, MO 63127</p> | | <p>Rochelle Municipal Utilities Rte. 38 Substation Transformer Purchase Bids Received 12/5/23, 2:00 p.m.</p> | | <p>Bid Opening Witnesses: City: BHM: <i>Laura Stacker</i></p> |

Federal Insurance Company**AIA Document A310™ - 2010 Bid Bond**

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

CONTRACTOR

(Name, legal status and address):
WEG Transformers USA LLC
6349 Avantha Drive
Washington, MO 63090
OWNER

(Name, legal status and address):
City of Rochelle, John Bearrows, Mayor
420 North 6th Street
Rochelle, IL 61068

BOND AMOUNT

5% Five Percent of Amount Bid

SURETY

(Name, legal status and principal place of business):
Federal Insurance Company
202B Halls Mill Rd., PO Box 1650
Whitehouse Station, NJ 08889-1650

PROJECT

(Name, location or address, and Project number, if any)

Rte. 38 Substation Transformer Purchase, Reference Specification 2201 K001

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted here from and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 1st day of December, 2023

(Witness)

WEG Transformers USA LLC

(Principal)

By: Andrew Kassebaum

(Title)

(Corporate Seal)

Federal Insurance Company

Tiffany Zahn

(Witness) Tiffany Zahn

By: R. H. Mitchell

(Attorney-in-Fact) Richard H. Mitchell



CHUBB

Power of Attorney

Federal Insurance Company | Vigilant Insurance Company | Pacific Indemnity Company

Westchester Fire Insurance Company | ACE American Insurance Company

Know All by These Presents, that FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY corporations of the Commonwealth of Pennsylvania, do each hereby constitute and appoint Anna Childress, Mark W. Edwards II, Alisa B. Ferris, Robert R. Freel, Richard H. Mitchell, William M. Smith and Jeffrey M. Wilson of Birmingham, Alabama; Robert Read Davis of Atlanta, Georgia; Richard E. Daniels of Pensacola, Florida and Robert M. Verdin of Metairie, Louisiana

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY have each executed and attested these presents and affixed their corporate seals on this 25th day of April, 2023.

Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

Stephen M. Haney

Stephen M. Haney, Vice President



STATE OF NEW JERSEY
County of Hunterdon

SS.

On this 25th day of April 2023 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros and Stephen M. Haney, to me known to be Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros and Stephen M. Haney, being by me duly sworn, severally and each for herself and himself did depose and say that they are Assistant Secretary and Vice President, respectively, of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY and know the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of said Companies; and that their signatures as such officers were duly affixed and subscribed by like authority.

Notarial Seal



Albert Contursi
NOTARY PUBLIC OF NEW JERSEY
No 50202369
Commission Expires August 22, 2027

Albert Contursi
Notary Public

CERTIFICATION

Resolutions adopted by the Boards of Directors of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY on August 30, 2016; WESTCHESTER FIRE INSURANCE COMPANY on December 11, 2006; and ACE AMERICAN INSURANCE COMPANY on March 20, 2009:

"RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into in the ordinary course of business (each a "Written Commitment"):

- (1) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
- (2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such person's written appointment as such attorney-in-fact.
- (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (4) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing to any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested."

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, PACIFIC INDEMNITY COMPANY, WESTCHESTER FIRE INSURANCE COMPANY and ACE AMERICAN INSURANCE COMPANY (the "Companies") do hereby certify that

- (i) the foregoing Resolutions adopted by the Board of Directors of the Companies are true, correct and in full force and effect,
- (ii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Whitehouse Station, NJ, this December 1, 2023



Dawn M. Chloros

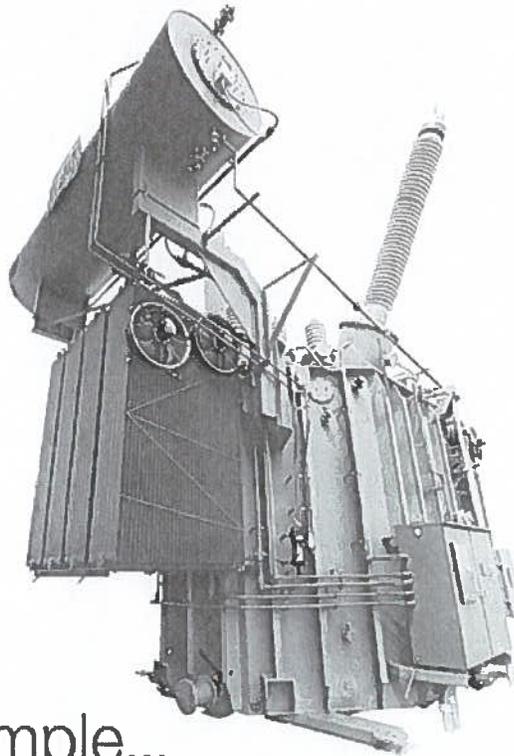
Dawn M. Chloros, Assistant Secretary



IN THE EVENT YOU WISH TO VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT:
Telephone (908) 903-3493 Fax (908) 903-3656 e-mail: surety@chubb.com



Proposal



Simple...

WEG WILL

- Make it easy to do business
- Handle complex specifications
- Manage the complete project
- Provide short cycle deliveries
- Manufacture the most reliable transformer
- Provide support during the entire life of your transformer



December 4, 2023

To: Rochelle Municipal Utilities

c.c.: Moehn Electrical Sales

SUB: 1 x 20/37.33 MVA, 34.5/13.8 kV LTC Transformer
YOUR REF: Rte. 38 Substation Transformer Purchase
OUR REF: WTU23-862

Dear Sir or Madam,

With reference to the above mentioned inquiry, we are pleased to present our detailed commercial and technical proposal and confirm that our proposal is based on the requirements specified by the above mentioned RFP.

Our proposal consists in the following sections:

- A- Price sheets
- B- Completed Customer forms
- C- Project Specific T&Cs
- D- Price Adjustment Methodology
- E- ANSI Data Sheets
- F- Comments/Deviations on Specifications
- G- Standard T&C's

Please refer to sections C and F for additional information and assumptions made regarding this offer.

We hope you will find our offer in line with your requirements. If you have any questions or need additional information or clarification please do not hesitate to contact our representative (see details under cc:) or us directly (Andrew Kassebaum) at tel.: (636) 239-9388, fax: (636) 239-9398, E-mail: akassebaum@weg.net.

Thank you and assuring you of our best services. Sincerely yours,

WEG Transformers USA

A handwritten signature in blue ink that reads 'Andrew Kassebaum'.

Andrew Kassebaum
Quotation Engineer
Tel.: (636) 239-9388
Fax: (636) 239-9398
E-Mail: akassebaum@weg.net

Alex Crews
Product & Sales Manager
Tel.: (636) 239-9340
Fax: (636) 239-9398
E-Mail: acrews@weg.net

You are requested to please refer to our Customer and Supplier Privacy Policy available on our website to understand and familiarize yourself with our Privacy Policy towards its business partners with respect to sharing of personal data.

STANDARD PRICING OF EQUIPMENT

All below prices are in USD
 No Taxes are included in these prices.

| Item | Description | Qty. | Unit Price | Total Price |
|------|--|------|------------|-------------|
| 1 | 20/26.67/33.33//22.4/29.87/37.33 MVA, 55/65C rise – 34.5/13.8 kV, Wye-Wye-Delta three winding 60 Hz, ZH- X=7.5% (20 MVA base) with HV DETC and LV LTC along with accessories. | 1 | 1,972,300 | 1,972,300 |
| | Freight for item 1 | | 25,000 | 25,000 |
| | Offloading for item 1 | | 15,000 | 15,000 |
| | Service for item 1 | | 35,000 | 35,000 |
| | Total for item 1 | | 2,047,300 | 2,047,300 |

The prices above will have their major materials adjusted per our attached methodology during the course of the order. We hope you will find our offer in line with your requirements. Should you require any further information, please feel free to contact us.



Andrew Kassebaum
 Quotation Engineer
 T: +1 636 239 9388
 akassebaum@weg.net

Alex Crews
 Sales & Marketing Manager WTU
 T: +1 636 239 9340
 acrews@weg.net

PRICES FOR OPTIONAL EQUIPMENT

All below prices are in USD

| Item | Description | Unit | Qty. | Unit Price | Total Price |
|------------------------------|--|------|------|------------|-------------|
| SPARE PARTS FOR LINEITEMS 1. | | | | | |
| 1 | High Voltage Phase Bushing with gasket | pcs | 1 | 1,800 | 1,800 |
| 2 | Low Voltage Phase Bushing with gasket | pcs | 1 | 2,400 | 2,400 |
| 3 | Set of gaskets | set | 1 | 3,000 | 3,000 |
| | Total for spares | | | | 7,200 |
| OPTIONS FOR LINEITEMS 1. | | | | | |
| 1 | Shock Recorder (if not returned) | pcs | 1 | 2,500 | 2,500 |

We hope you will find our offer in line with your requirements. Should you require any further information, please feel free to contact us.

Non-Collusion Affidavit

The Municipality reserves the right, before any award of contract is made, to require any bidder to whom it may make an award of the Principal Contract, to sign a non-collusion affidavit in the form designated below:

STATE OF Missouri

COUNTY OF Franklin

Andrew Kassebaum, being first duly sworn, deposes and says that he is Quotation Engineer * (sole owner, partner, president, secretary, etc.) of the interest of or on behalf of any undisclosed person, partnership, company, association, organization or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that said bidder has not in any manner, directly or indirectly, sought by agreement, communication or conference with anyone to fix the bid price of said bidder or of any bidder to fix any overhead, profit or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in such bid are true; and, further, that said bidder has not, directly or indirectly, submitted his bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith to any corporation, partnership, company, association, organization, bid depository, or any member or agent thereof, or to any other individual except to such person or persons as have a partnership or other financial interest with said bidder in his general business.

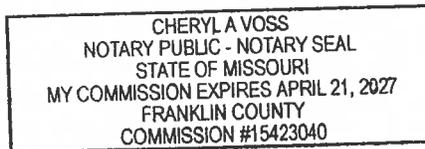
Signed: Andrew Kassebaum

Title: Quotation Engineer

Subscribed and sworn to before me this 4th day of December 20 23

Seal of Notary:

C. A. Voss
Notary Public



* In making out this form, the title that is not applicable should be struck out. For example, if the Contractor is a corporation and this form is to be executed by its president, the words "Sole Owner, a partner, secretary", etc. should be struck out.

BID FORM
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This Bid is submitted by: WEG Transformers USA

- D. Bidder has carefully studied, considered, and correlated the information known to Bidder; information commonly known to sellers of similar goods doing business in the locality of the Point of Destination and the site where the Goods will be installed or where Special Services will be provided; information and observations obtained from Bidder's visits, if any, to the Point of Destination and the site where the Goods will be installed or Special Services will be provided; and any reports and drawings identified in the Bidding Documents regarding the Point of Destination and the site where the Goods will be installed or where Special Services will be provided, with respect to the effect of such information, observations, and documents on the cost, progress, and performance of Seller's obligations under the Bidding Documents.
- E. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution (if any) thereof by Engineer is acceptable to Bidder.
- F. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for furnishing the Goods and Special Services for which this Bid is submitted.

ARTICLE 4 - BIDDER'S CERTIFICATIONS

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding.
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "Corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - 2. "Fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Buyer,

(b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Buyer of the benefits of free and open competition.

3. "Collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Buyer, a purpose of which is to establish bid prices at artificial, non-competitive levels.
4. "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process.

ARTICLE 5 - BASIS OF BID

5.01 **Proposal No. 1** - Bidder will furnish the Goods and Special Services in accordance with the Contract Documents, including **Allowance No. 1** as stipulated in the documents for required scope changes, for the following price(s):

| # | Size (mva) | Primary Voltage | Secondary Voltage | Price per Unit |
|-----|----------------|-----------------|-------------------|----------------|
| 1.) | 20/26.66/37.33 | 34.5kV Wye | 13.8kV Wye | 2,047,300 |

| | |
|--|---------------------|
| Lump Sum Total Bid Price for Proposal No. 1 including allowance | \$ 2,047,300 |
|--|---------------------|

SCHEDULE GUARANTEES

| | | | | |
|---------------------------|----------------------|---------------|---------------|----------|
| Drawing Submittal: | 14-16 Calender Weeks | Calendar days | Weks | from ARO |
| Assembly Complete: | 136 Calender Weeks | Calendar days | Calendar days | from ARO |
| Factory Testing Complete: | 138 Calender Weeks | Calendar days | Calendar days | from ARO |
| Delivery: | 140 Calender Weeks | Calendar days | Calendar days | from ARO |

EQUIPMENT DETAILS

| | | |
|-----------------------|----------------------|------|
| Manufacturer: | WEG Transformers USA | |
| Location: | Washington, Missouri | |
| Core and Coil Weight: | 51742 | lbs. |
| LTC Weight: | | lbs. |
| Liquid Weight: | 37298 | lbs. |
| Total Weight: | 126670 | lbs. |

PERFORMANCE GUARANTEES

Guaranteed minimum efficiency at rated load at rated voltage and on rated voltage taps:

| | |
|---------------|-------|
| 25% OA Load: | 99.63 |
| 50% OA Load: | 99.7 |
| 100% OA Load: | 99.66 |

Guaranteed maximum losses at rated load at rated voltage and on rated voltage taps:

| | | |
|--------------------------|-------|----|
| No Load (core): | 14.38 | kW |
| 25% OA Load (windings): | | kW |
| 50% OA Load (windings): | | kW |
| 100% OA Load (windings): | 64.8 | kW |

(Includes all auxiliaries)

5.02 Allowances

A. General

1. Allowances as set forth in the specifications are to be used as compensation for items as set forth in this section.

B. Allowances

1. Use the allowances only as authorized for OWNER purposes and only by an approved allowance disbursement form that indicates the amount to be charged to the respective amount.
2. At substantial completion of the work, credit unused amounts remaining in the allowances to the owner by change order.

C. Allowance Disbursement

1. Contractor/vendor shall submit a request for allowance disbursement. Include all substantiating and/or required data along with the request.
2. Once the owner has accepted the disbursement, the Engineer will sign the allowance disbursement form.

D. Schedule of Allowances

1. The following allowances shall be included in the base bid.
2. Allowance No. 1 – include the stipulated sum of **\$25,000.00** for required scope change in the project.

- 5.03 It is understood and agreed by the undersigned that the Municipal Utility reserves the unrestricted privilege to reject the foregoing proposal indicated above and which the Municipality may consider excessive or unreasonable; to accept such proposal which it may consider fair and reasonable.

The lump sum of the proposal shall be the basis for establishing the amount of the performance bond and for comparison of bids.

The above delivery dates and times are to be filled in by the bidder before

submitting his proposal.

ARTICLE 6 - TIME OF COMPLETION

- 6.01 Bidder agrees that the work will be substantially complete on or before date specified in 5.01 and will be completed and ready for final payment in accordance with Paragraph 14.07.B of the General Conditions on or before 30 days after date specified in 5.01.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 - ATTACHMENTS TO THIS BID

- 7.01 The following documents are attached to and made a condition of this Bid:
 - A. List of Proposed Major Suppliers
 - B. Affidavit of Non-Collusion
 - C. List of Project References
 - D. Bidder's Qualifications.

ARTICLE 8 - DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders and the General Conditions.

ARTICLE 9 - BID SUBMITTAL

- 9.01 This Bid submitted by:

If Bidder is:

A Corporation

Corporation Name: _____

State of Incorporation: _____

Type: _____
(General Business, Professional, Service, Other)

By: _____
(Signature – attach evidence of authority to sign)

Name: *(typed or printed)* _____

Title: _____
_____ (Corporate Seal)

Attest: _____
_____ (Signature of Corporate Secretary)

Business Address: _____

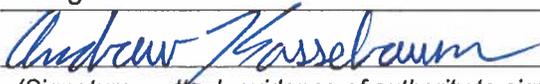
Phone: _____

Email Address: _____

A Limited Liability Company (LLC)

LLC Name: WEG Transformers USA LLC

State in which organized: Georgia

By: 
(Signature – attach evidence of authority to sign)

Name: (typed or printed) Andrew Kassebaum

Business Address: 6350 Weg Drive,
Washington, Missouri 63090

Phone: 636-239-9388

Email: akassebaum@weg.net



WEG TRANSFORMERS USA – SPECIFIC T&Cs

1. SCOPE

Our offer includes design, manufacture, inspection and testing at the noted Works, packing for shipment and delivery FOB Destination, unloaded.

The transformers proposed are:

| Line Item | Description | Qty. | Plant |
|-----------|---|------|---------|
| 1 | 20/26.67/33.33//22.4/29.87/37.33 MVA, 55/65C rise – 34.5/13.8 kV, Wye-Wye-Delta three winding 60 Hz, ZH-X=7.5% (20 MVA base) with HV DETC and LV LTC along with | 1 | MO, USA |

The proposed transformers are proposed in accordance to the latest ANSI -IEEE C57.12.00 standards and this including oil for first filling as per specification. A listing of all applicable standards is available upon request.

2. VALIDITY:

Our proposal will remain valid until December 30, 2023 and for the mutually agreed contract delivery.

Before acceptance of an order, we reserve the right to subject the buyer and/or end-user to a credit check. Changes in credit rate of the buyer may also trigger changes in the payment schedule.

3. DELIVERY:

Our standard delivery would be per the below schedule:

| Line Item | Description | Weeks ARO (unit 1) | Subsequent Units |
|-----------|---|--------------------|------------------|
| 1 | 20/26.67/33.33//22.4/29.87/37.33 MVA, 55/65C rise – 34.5/13.8 kV, Wye-Wye-Delta three winding 60 Hz, ZH-X=7.5% (20 MVA base) with HV DETC and LV LTC along with | 130-140 | N/A |



We can accept LD's for late deliveries beyond this term, for an amount of 750 per day, with a maximum of 5% of the contractual equipment value. See also our general terms and conditions.

The Purchaser shall be entitled to liquidated damages under the following conditions:

- 1) Liquidated damages have been mutually agreed and have been incorporated in the final contract with clear definition of triggering conditions and limitations
- 2) Limited to the LDs resulted from conditions that are under Supplier's control. For example, delayed delivery due to the Purchaser's site not being ready shall be excluded from the LD

All WEG transformers are shipped with shockrecorders. WEG does not charge its customers for the shockrecorders if they are returned to WEG within 1 month of delivery. Shock recorders can be returned free of charge. Customers that like to keep their shock recorders can purchase them for 2,500 USD each.

4. TAXES & TARRIFS

Our prices do not include: Federal, State or local sales, use, excise or any other taxes and fees related to the sale of products and services performed under the eventual contract. Our prices do not include any import tarrifs from our Mexico Plants.

5. PAYMENT TERMS

Although we are willing to discuss alternate payment terms should you desire so, our standard payment terms would be:

| Item | Milestone | % |
|------|---|----|
| 1 | at time of placing the order | 20 |
| 2 | at submission of first set of drawing | 20 |
| 3 | at time of completion of core and coil assembly (pre VPD) | 40 |
| 4 | at time of successful testing at our works | 10 |
| 5 | at time of delivery | 10 |

WEG Transformers USA expects payment of 80% before shipment of the transformers. Note that all invoices are due net 30 days.

Our prices are subject to revision as per WEG price adjustment methodology. The payment following the advice of the revised price will include an adjustment for all progress payments invoiced to date (even if payment has not been made yet).



6. WARRANTY

We have offered our standard warranty of 60/66 months.

WEG requires that the maintenance instructions and intervals as indicated in the product manuals are followed. Maintenance should be executed by a professional maintenance contractor and/or own experienced maintenance personnel from the customer. Reports of such maintenance should be made available to WEG for review and acceptance, to maintain this warranty effective.

7. DRAWING SUBMISSION SCHEDULE

All mechanical and electrical drawings and control and wiring schematics will be submitted as follows:

| Line Item | Description | Weeks ARO (unit 1) |
|-----------|---|--------------------------|
| 1 | 20/26.67/33.33//22.4/29.87/37.33 MVA, 55/65C rise – 34.5/13.8 kV, Wye-Wye-Delta three winding 60 Hz, ZH-X=7.5% (20 MVA base) with HV DETC and LV LTC along with | 14-16 |

Drawing approval time included in our offered delivery time is assumed to be no more than 2 weeks. In case the approval time is longer, it might cause to the customer additional costs and/or later delivery.

8. MANUFACTURING QUALITY TESTS

All Routine Tests will be carried out as per ANSI / IEEE and per the RFQ. Type and design tests that are not listed in the above mentioned clause of the RFP, can be performed at an additional cost and may increase the delivery time(s).

To avoid misinterpretation of the specification, we will submit an ITP to the customer for review after receipt of the order.

Any manufacturing quality test performed outside our factory should be performed under the guidance and supervision of WEG at all times, to ensure the validity of the warranty.

9. RECOMMENDED SPARES FOR 5 YEARS OPERATION

We have added a listing of recommended spare parts in this proposal for your convenience.

10. FIELD SERVICE WORK

The following start-up / commissioning parts will be supplied along with the main transformers on a free of charge basis:

| Nr | Description | Unit | Qty |
|----|----------------------------------|------|-----|
| 1 | Set of assembly gaskets | Set | 1 |
| 2 | Touch up Paint for the last coat | Cans | 3 |

The following site activities are quoted as an option:

| Item | Activity | Line Items |
|------|---|------------|
| 1 | offloading | 1 |
| 2 | assembly: full service | 1 |
| 3 | oil filling: (not needed for items:1) | - |
| 4 | testing and commissioning: full service | 1 |

The quoted fields service prices are valid for execution within 2 - 4 weeks after arrival of the transformer to site, during regular working days.

Offloading quoted is by crane, one pick and drop. An area of at least 50 feet or 15.3 meters around the drop-off point must be clear of any obstruction to allow for a safe and quick offloading. It is the customer's responsibility to ensure the pad is approachable within 50 feet or 15.3 meters and the access road to do so from the nearest public road is the responsibility of the Purchaser. Purchaser shall bear all cost for any modifications needed to this access road.

The following units will ship oil filled: line items 1.

Please contact us for additional services like removal, repair or refurbishment of existing transformers and coordination of such activities.

11. SPECIAL TOOLS

No special tools and tackles are offered as the same are not required for the installation, operation and maintenance of the Transformers offered.

General purpose tools required for such purpose are generally available with any good contractor.

12. CANCELLATION CHARGES

The cancellation charges in relation to this project are calculated on the unit's contractual value less any transportation, unloading, or field service costs and are as follows:

| Milestone | % of CV |
|-----------------------------------|----------------|
| Order Received | 20% |
| Start of Design | 30% |
| Submittal of outline drawing | 40% |
| Order of core/coil materials | 50% |
| Start of order of other materials | 60% |
| Receipt of core/coil materials | 70% |
| Start of Production | 80% |
| Finish Core/Coils | 90% |
| Unit tanked and oil filled | 100% |

Transportation cancellation charges will be invoiced per actuals as received from the transportation company.

The above table is intended to avoid endless discussion concerning the valuation of a non finished good at time of cancellation of the contract, and will be agreed between parties in lieu of any proof of costs and/or damages sustained by the vender.

In no case an unfinished good will carry a warranty and additional costs for preparing, packing or transportation are excluded from the above table.

13. SUSPENSION CHARGES AND DELAYED SHIPMENT

Suspension is defined as the instruction from the Purchaser to stop all work temporarily on a unit of the contract. Delayed shipment is the case where WEG is allowed to continue the work, but where the delivery to site is postponed by the Purchaser and thus requiring storage of the unit.

When suspension occurs less than 20 weeks prior to the delivery of a unit, and the unit needs to be rescheduled to a later date, the suspension charges in relation to this project are calculated on the unit's contractual value less transportation costs and are up to 30% of the contract value.

These charges apply for rescheduling the works at the convenience of the Purchaser. Once the unit has been tested, any suspension will be treated as a delayed shipment.

For the conditions that apply for delayed shipments, we refer to our standard terms and conditions.

Suspension beyond 6 months may be converted into a cancellation of the contract, and the fee will be the higher of the 30% and the applicable cancellation charge.



14. APPLICABLE TERMS AND CONDITIONS

Although we are willing to negotiate, we have based our proposal on our standard and specific terms and conditions.

We are willing to make changes to better suit all parties' requirements prior to signing an agreement.

PRICE ADJUSTMENT METHODOLOGY

METHODOLOGY

Due to the long lead times currently available, the following major materials will be subject to price adjustment during the course of the order. These components are Copper, Mild Steel, Oil, and Core Steel.

The calculation of the new sale price is based upon the percentage content of the price that each of the transformer component represent in the pricing structure of the product for the design given hereunder. The pricing structure is specific to each Participant's design/specification and is defined in the Key Component Percentage Composition Tables. The following index's will be used:

- Copper - AMM Metal Market - COMEX Copper 1M - Copper Grade 1 - XC-HG-FR1M
- Steel - AMM Metal Market - Hot Rolled - United States - MB-STE-0184
- Oil - Energy Information Administration (EIA) Cushing OK WTI Spot Price FOB - <https://www.eia.gov/>
- Core Steel - Data provided by WEG

Price adjustment will be performed at the start of WEG's production and be an average of the previous 2 weeks. If the change is less than 1% of the sales price, then no adjustment will be made.

The initial indices to be used will be the following from the time of our quotation submittal:

| | | |
|------------|--------|----------------------|
| Copper | 3.6625 | US Dollar per pound |
| Steel | 45.12 | US Dollar per cwt |
| Oil | 89.43 | US Dollar per barrel |
| Core Steel | 2.27 | US Dollar per pound |

The change in price for each individual transformer shall be determined as follows.

- 1- Select the appropriate Percentage Composition Table for each unit.
- 2- Retrieve commodity data from the source listed in the appropriate Reference Indices table.
- 3- The price adjustment for each Key Transformer Component shall be calculated according to the following formulas.

$$V_i = P_i \times V\%$$

$$V_f = [V_i] \times [(I_f - I_i) / I_i] + V_i$$

Where:

- P_i = The initial (previous) total price of the subject transformer
- P_f = The final (new) total price of the subject transformer
- V% = The percent contribution of the component to the total price of the transformer
- V_i = The initial (previous) contribution value of the key component
- V_f = The final (new) contribution value of the key component
- I_i = The initial index number for the adjustment time period
- I_f = The final index number for the adjustment time period

The final contribution values for all key components shall then be summed to arrive at the final total price of the transformer according to the following formulas

$$P_f = \sum V_f$$

$$P_f = V_{f1} + V_{f2} + V_{f3} + \dots + V_{fn}$$

Where:

- n = The number of components in the subject transformer

KEY COMPONENT PERCENTAGE TABLES

| Description | Copper | Mild Steel | Oil | Core Steel | Other(Firm) |
|---|--------|------------|------|------------|-------------|
| Item 1 - 20/37.33 MVA 3.5/13.8 KV Transformer | 5.9% | 4.5% | 1.3% | 6.4% | 81.9% |

SAMPLE CALCULATIONS

EXAMPLE ONLY

This Example Follows Calculations per "Adjustment Methodology" above.

Initial Sales Price (PI) = \$500,000

| Weighting Factors | (V%) Component Percentage | (Vi) Component Contribution Value | (Ii) Initial Index Number | (If) Final Index Number | Variance % | Change In Value \$ | (Vf) Value \$ |
|---|---------------------------------|--|------------------------------------|----------------------------------|---------------|--------------------------|---------------------|
| Key Transformer Component | | | | | | | |
| Copper (AMM) | 14.10% | \$70,500 | 3.885 | 4.338 | 11.66% | \$8,220 | \$78,720 |
| Mild Steel - Hot Rolled (AMM) | 17.70% | \$88,500 | 91.2 | 82.5 | -9.54% | -\$8,442 | \$80,058 |
| Mineral Oil (Cushing spot price/\$barrel) | 2.80% | \$14,000 | 65.65 | 75.54 | 15.06% | \$2,109 | \$16,109 |
| Core Steel | 14.10% | \$70,500 | 1.60 | 1.75 | 9.38% | \$6,609 | \$77,109 |
| All Other (Firm) | 51.30% | \$256,500 | 100 | 100 | 0.00% | \$0 | \$256,500 |
| Total | 100.00% | \$500,000 | | | | \$8,496 | \$508,496 |

% Increase: 1.70%

Reference Number: WTU23-862 Item No.: Customer: Rochell Muni Inquiry: ANSI Standards: C57.12.00 - 2015 C57.12.10 - 2010 C57.12.90 - 2015 Date: 12/4/23

| RATINGS | | | | | | | | | | |
|---|---------------------------------------|---|-------------------|---|--------------|--|-----------------------|----------------------------|-----------|-----------|
| ANSI Class I | | Power Transformer | | | YNyn0+d | | | | | |
| Type: | Station Type | | Cooling Class | | H Winding | | X Winding | | Y Winding | |
| Phase: | 3 | | Avg Winding Rise | | 34.5 kV | | 13.80 kV | | 5.116 kV | |
| Frequency: | 60 | Hz | ONAN | 55 | 20 | MVA | 20 | MVA | Buried | MVA |
| Temp. Rise: | 55/65 | Deg C | ONAN | 65 | 22.4 | MVA | 22.4 | MVA | | MVA |
| Cooling Class | ONAN/ONAF1/ONAF2 | | ONAF1 | 65 | 29.865 | MVA | 29.865 | MVA | | MVA |
| Insulating Liquid: | Mineral Oil Type II | | ONAF2 | 65 | 37.33 | MVA | 37.33 | MVA | | MVA |
| TAP RANGE | | | | | | | | | | |
| H Winding | +5% to -5% in steps of 2.5% with DETC | | | | | | | | | |
| X Winding | +/-10% in steps of 0.625% with LTC | | | | | | | | | |
| CONNECTIONS FOR OPERATION | | | | | | | | | | |
| Transformers In Bank | | To Transformer From | | Phase | Connected | To | Phase | Connected | | |
| 1 | | 34.5 | | 3 | Wye | 13.8 | 3 | Wye | | |
| Neutral terminal of | | LV winding to be grounded | | | | Solidly | | | | |
| INSULATION LEVELS | | | | | | | | | | |
| Items | Nominal System Voltage (kV) | Basis Lightning Impulse Insulation Level (BIL) (kV Crest) | | | | For Class I Transformers Low Frequency Test Voltages | | | | |
| | | Windings | | Bushings | | Applied Voltage (kVrms) | | Induced Voltage Test Level | | |
| H-line | 34.5 | 200 | | 200 | | NA | | 2 X Rated Voltage | | |
| H-neutral | NA | NA | | NA | | NA | | | | |
| X-line | 15 | 110 | | 110 | | 34 | | | | |
| X-neutral | 15.0 | 110 | | 110 | | 34 | | | | |
| Y-Line | 8.7 | 75 | | NA | | 26 | | | | |
| PERFORMANCE DATA Based on 75 deg C Reference Temperature and 20 MVA in nominal tap position. | | | | | | | | | | |
| Excitation | Exciting | No Load | Load | Total | Power Factor | Percent Regulation | Percent Efficiency at | | | |
| Voltage % | Current % | kW | kW | kW | | | 1/4 Load | 1/2 Load | 3/4 Load | Full Load |
| 100% | 0.225 | 14.38 | 64.80 | 79.18 | 1.00 | 0.60 | 99.63 | 99.70 | 99.66 | 99.61 |
| 110% | 0.90 | 22.00 | | | 0.80 | 4.92 | 99.54 | 99.62 | 99.58 | 99.51 |
| PERFORMANCE DATA Based on 85 deg C Reference Temperature and 37.33 MVA in nominal tap position. | | | | | | | | | | |
| Excitation | Exciting | No Load | Load | Total | Power | Percent | Percent Efficiency at | | | |
| Voltage % | Current % | kW | kW | kW | Factor | Regulation | 1/4 Load | 1/2 Load | 3/4 Load | Full Load |
| 100% | 0.12 | 14.38 | 232.00 | 246.38 | 1.00 | 1.60 | 99.69 | 99.61 | 99.49 | 99.34 |
| 105% | 0.22 | 18.00 | | | 0.85 | 8.56 | 99.64 | 99.55 | 99.39 | 99.23 |
| AUXILIARY LOSSES | | | | MECHANICAL DATA (Not for construction purposes.) | | | | | | |
| Transformer MVA | Class | kW Aux. Loss | | Dimensions (Approximate) (Inches) (mm) | | | | | | |
| 20 | ONAN | Approx: | 0 | Height 158 (4013) | | | | | | |
| 37.33 | ONAF2 | Approx: | 2.4 | Width 261 (6629) | | | | | | |
| | | | | Depth 197 (5004) | | | | | | |
| | | | | Height to Tank Cover 158 (4013) | | | | | | |
| | | | | Untanking Height (without slings) 261 (6629) | | | | | | |
| | | | | Weights (Approximate) (Pounds) (kg) | | | | | | |
| | | | | Core and Coils (untanking part) 51742 (23470) | | | | | | |
| | | | | Tank and Fittings 37630 (17069) | | | | | | |
| | | | | Liquid 5115 Gallons 37298 (16918) | | | | | | |
| | | | | Total Weight 126670 (57456) | | | | | | |
| | | | | Shipping Weight (heaviest part) 113424 (51448) Oil Filled | | | | | | |
| | | | | 78443 (35581) Gas Filled | | | | | | |
| IMPEDANCE VOLTAGE | | | | SOUND LEVEL NEMA TR1-2013 | | | | | | |
| Between Windings | at MVA | % IZ | % IZ ₀ | Class Sound Pressure at | | | | | | |
| H - X | 20 | 7.50 | | ONAN 72 dB (A) 0.3 m | | | | | | |
| H - Y | | | | ONAF2 75 dB (A) 2.0 m | | | | | | |
| X - Y | | | | | | | | | | |
| Type Current Transformers: | | | | Items to be removed for shipment: Refer Below | | | | | | |
| Location | Qty/Phase | Ratio | Accuracy | Size of Largest Package | | | Rads & Fans | | | |
| H1,H2,H3 | 2 | 1200:5 MR | C400 | Height | | | Width | | Depth | |
| H1,H2,H3 | | | | 158 | | | 261 | | 142 | |
| H0 | | | | See our technical remarks and clarifications on the specifications. | | | | | | |
| X1,X2,X3 | 2 | 1200:5 MR | C400 | Insulation Liquid Preservation : Sealed tank, with positive press. System | | | | | | |
| X1,X2,X3 | | | | | | | H Winding | | X Winding | |
| X2 (WTI) | 1 | 1565/5 | C100 | | | | Copper | | Copper | |
| X0 | | 1200:5 MR | C400 | Winding Conductor : | | | | | | |



**Comments/Clarifications on Specification
Quote WTU23-862**

Specification No.: RTE. 38 Substation Transformer Purchase

| Sr. No. | Clause No. | Comments/Clarification |
|----------------|-------------------|---|
| 1 | 2.1.B.7 | High Voltage neutral BIL shall be 110KV |
| 2 | 2.1.B.9 | Low Voltage line and neutral BIL shall be 110KV |

Our quotation is fully in compliance with the technical specification of the RFQ for all other constructional aspects. See the technical data sheets for guaranteed electrical and mechanical particulars.

Field service Comments:

| Sr. No. | Clause No. | Comments/Clarification |
|----------------|-------------------|--|
| 1 | General | Customer will be responsible to ensure that the area around the transformer will be suitable for any field service activities requested. The unit must be on a suitable pad, equipment must be grounded and enough clearance must be ensured for safely perform the activities. The ground around the transformer must be backfilled, compacted and suitable for safely placement of ladders and operation of cranes and trucks. |



TERMS AND CONDITIONS FOR SALE OF TRANSFORMERS

1. General. The terms and conditions contained herein, together with any additional or different terms contained in WEG Proposal, if any, submitted to Purchaser (which Proposal shall control over these terms and conditions to the extent it contains any conflicting terms and conditions) constitute the entire agreement between the parties with respect to this order and supersede all prior communications and agreements. Acceptance by WEG of Purchaser's order, or Purchaser's acceptance of WEG's Proposal is expressly limited to and conditioned upon Purchaser's acceptance of these terms and conditions which may not be changed or waived except in a writing signed by both parties. Any additional, inconsistent or different terms and conditions contained in Purchaser's purchase order or other documents supplied by Purchaser are hereby expressly rejected. Unless the context otherwise requires, the term "Equipment" as used herein includes all equipment, parts, and accessories sold, and all software and application software licensed to Purchaser under this order. Unless the context otherwise indicates, the term "Services" as used herein shall mean labor, supervision and project engineering services provided under this order.

2. Prices, Taxes, Customs Duties.

(a) The price does not include any Federal, state or local property, license, privilege, sales, use, excise, gross receipts, or other like taxes which may now or hereafter be applicable to, measured by, or imposed upon or with respect to the transaction, the Equipment, its sale, its value or its use, or any services performed in connection herewith. Purchaser agrees to pay or reimburse any such taxes which WEG or its suppliers are required to pay or collect. If Purchaser is exempt from the payment of any tax or holds a direct payment permit, Purchaser shall, upon order placement, provide WEG a copy, acceptable to the relevant governmental authorities of any such certificate or permit.

(b) Unless specified to the contrary in writing in the **specific WEG terms and conditions**, WEG's prices herein include customs duties and other importation or exportation fees applicable to sales in North America.

3. Payment.

(a) Unless specified to the contrary in writing by WEG, payment terms are net cash, payable without offset, by wire transfer, in United States Dollars, 30 days from date of invoice.

(b) If, in the judgment of WEG the financial condition of Purchaser at any time prior to delivery does not justify the terms of payment specified, then WEG may require payment in advance, payment security satisfactory to WEG or cancel any outstanding order, whereupon WEG shall be entitled to receive reasonable cancellation charges.

(c) If delivery is delayed by Purchaser, payment shall become due on the date WEG gives written notice of readiness to ship.

(d) Delays in delivery or non-conformities in any installments delivered shall not relieve Purchaser of its obligation to accept and pay for remaining installments.

(e) If Purchaser does not pay an invoice when due, Purchaser shall pay, in addition to the overdue payment, a late charge equal to the lesser of 1.5 % per month or the highest applicable rate allowed by law on all such overdue amounts plus WEG's attorneys' fees and court costs incurred in connection with collection.

4. Changes.

(a) Any changes requested by Purchaser affecting the ordered scope of work must be accepted by WEG and resulting adjustments to affected provisions including price, schedule, and guarantees, mutually agreed in writing prior to implementation of the change.



(b) WEG may, at its expense, make such changes in the Equipment or Services as it deems necessary, in its sole discretion, to meet any performance guarantees provided for in the Proposal. If Purchaser refuses to approve any such changes, WEG shall be relieved of its obligations to meet such guarantees to the extent to which WEG may be affected by such refusal.

5. Delivery, Title and Risk of Loss.

(a) Equipment delivered in the continental United States or Canada is delivered Delivery Duty Paid (DDP)- common carrier delivery point nearest to named destination. All shipping terms are Incoterms 2017 unless otherwise indicated in writing in the **specific terms and conditions**.

(b) Where the delivery of Equipment is delayed by Purchaser or by Force Majeure, WEG may deliver the equipment by moving it to storage for the account of Purchaser.

(c) Purchaser shall be responsible for providing free and clear access for WEG to deliver Equipment to, and perform field assembly and testing at, named destination. Clear access includes appropriate roads to transport Equipment and cranes alongside the transformer pad with clearance to offload, assemble, and test Equipment free from obstructions, structures, energized lines, or other equipment. Any additional access costs shall be the responsibility of Purchaser.

(d) Shipping and delivery dates are contingent upon Purchaser's timely approvals and delivery by Purchaser of any documentation required for WEG's performance hereunder. Claims for shortages or other errors in delivery must be made in writing to WEG within ten (10) days of delivery.

(e) Unless specified to the contrary in writing in the **specific WEG terms and conditions**, title to and risk of loss of the Equipment shall pass upon delivery.

6. Inspection, Testing and Acceptance.

(a) Any inspections by Purchaser of Equipment on WEG's premises shall be scheduled in advance and during normal working hours.

(b) When factory acceptance testing is included in the Agreement, WEG shall notify Purchaser when WEG will conduct a standard acceptance test for Purchaser prior to shipment. Unless Purchaser states specific objections in writing within ten (10) days after completion of the test, completion of the acceptance test constitutes Purchaser's factory acceptance of the Equipment and authorizes shipment.

(c) When on-site acceptance testing is included in the Agreement, a standard WEG on-site acceptance test will be performed by WEG's personnel to verify that all Equipment supplied hereunder has arrived at site complete, without physical damage, and is ready for use. Completion of the on-site acceptance test constitutes full and final acceptance of the Equipment.

(d) If Equipment is not accepted by Purchaser within thirty (30) days after arrival of the Equipment at the site, final acceptance shall be deemed made.

7. Warranty.

(a) Unless specified to the contrary in writing in the **specific WEG terms and conditions**, WEG warrants the Equipment (excluding software) against defects in material and workmanship for a period expiring on the earlier of twelve (12) months after installation or eighteen (18) months from date of shipment.

(b) Services. WEG warrants Services against defects in workmanship for a period of ninety (90) days from the date of completion of such Services.

(c) Parts. If applicable to the scope of WEG's work hereunder, WEG further warrants: (i) spare parts and



components sold by WEG against defects in material and workmanship for a period of twelve (12) months after shipment and (ii) repaired or refurbished parts repaired by WEG against defects in material and workmanship for a period of ninety (90) days after shipment, unless repaired pursuant to an original Equipment warranty, in which case the repair is warranted for the time remaining of the original warranty period.

(d) Remedies. Should any failure to conform with the applicable warranties appear during the specified periods under normal and proper use and provided the Equipment has been properly stored, installed, operated and maintained, and if given prompt written notice by Purchaser, WEG shall correct such nonconformity by, at its option, (i) repair or replacement of the nonconforming Equipment or parts thereof, or (ii) refund of the purchase price of the nonconforming Equipment or parts thereof, or (iii) in the case of nonconforming Services, provide equivalent Services at the job site or refund the price therefor. Repairs or replacements pursuant to warranty shall not renew or extend the applicable original warranty period, provided however, that any such repairs or replacement of Equipment or parts thereof shall be warranted for the time remaining of the original warranty period or 30 days, whichever is longer. Purchaser shall be responsible for providing free and clear working access to repair or replace the nonconforming Equipment, including de-energizing and re-energizing the Equipment and any necessary disassembly and re-assembly of other equipment or structures, is for the Purchaser's risk and expense; whereas transportation only to and from repair or factory facility is for the Seller's risk and expense.

(e) These warranties shall not apply to any Equipment or parts thereof which (i) have been improperly repaired or altered; (ii) have been subjected to misuse, negligence or accident; (iii) have been used in a manner contrary to WEG's instructions; (iv) are comprised of materials provided or design stipulated by Purchaser; (v) are used equipment; or (vi) result from normal wear and tear.

(f) THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF QUALITY AND PERFORMANCE, WRITTEN, ORAL OR IMPLIED, AND WEG HEREBY DISCLAIMS ALL OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

(g) Correction of nonconformities in the manner and for the period of time provided above shall be Purchaser's sole and exclusive remedy for any failure of WEG to comply with its obligations hereunder.

8. Patent Indemnity.

(a) WEG shall defend at its own expense any actions brought against Purchaser alleging that the Equipment furnished hereunder by WEG or the use of said Equipment to practice any process supplied hereunder by WEG directly infringes any claim of a patent of the United States of America, Canada or Mexico and to pay all damages and costs finally awarded in said actions. WEG shall have the right to settle or otherwise terminate said actions in behalf of Purchaser.

(b) WEG shall have no obligations hereunder and this provision shall not apply: (i) to any other equipment or processes, including Equipment or processes supplied hereunder by WEG which have been modified or combined with other equipment or processes; (ii) to any products or articles manufactured by any equipment or processes; (iii) to any patent issued after the date of this Agreement; and (iv) in the event any of said actions is settled or otherwise terminated without the prior written consent of WEG.

(c) If, in any action hereunder, the Equipment is held to constitute infringement, or the practice of any process using the Equipment is finally enjoined, WEG shall, at its option and its own expense, either procure for Purchaser the right to continue using said Equipment; or, modify or replace it with non-infringing equipment; or, with Purchaser's assistance, modify the process so that it becomes non-infringing; or remove it and refund the purchase price allocable to the infringing equipment. THE FOREGOING PARAGRAPHS STATE THE ENTIRE LIABILITY OF WEG WITH RESPECT TO PATENT INFRINGEMENT.

(d) To the extent that said Equipment or any part thereof is modified by Purchaser, or combined by Purchaser



with equipment or processes not furnished hereunder (except to the extent that WEG is a contributory infringer) or said Equipment or any part thereof is used by Purchaser to perform a process not furnished hereunder by WEG or to produce an article, and by reason of said modification, combination, performance or production, an action is brought against WEG, Purchaser agrees to defend and indemnify WEG in the same manner and to the same extent that WEG indemnifies Purchaser in this "Patent Indemnity" paragraph.

9. Limitation of Liability.

(a) In no event shall WEG, its suppliers or subcontractors be liable for special, indirect, incidental or consequential damages, whether in contract, warranty, tort, negligence, strict liability or otherwise, including, but not limited to, loss of profits or revenue, loss of use of the Equipment or any associated equipment, cost of capital, cost of substitute equipment, facilities or services, downtime costs, delays, or claims of customers of the Purchaser or other third parties for such or other damages. WEG's liability for any claim whether in contract, warranty, negligence, tort, strict liability, or otherwise for any loss or damage arising out of, connected with, or resulting from this Agreement or the performance or breach thereof, shall in no case (except as provided in the section entitled "Patent Indemnity") exceed the purchase price allocable to the Equipment or part thereof or Services which gives rise to the claim. The limitations in this section shall prevail over any conflicting terms, except to the extent that such terms further restrict WEG's liability.

(b) All WEG liability shall end upon expiration of the applicable warranty period, provided that Purchaser may continue to enforce a claim for which it has given notice prior to that date by commencing an action or arbitration, as applicable under this Agreement, before expiration of any statute of limitations or other legal time limitation but in no event later than one year after expiration of such warranty period.

(c) In no event, regardless of cause, shall WEG assume responsibility for or be liable for penalties or penalty clauses of any description or for indemnification of Purchaser or others for costs, damages, or expenses arising out of or related to the Equipment and/or Services.

10. Nuclear Liability. In the event that the Equipment or parts sold hereunder are to be used in a nuclear facility, the Purchaser shall, prior to such use, arrange for insurance or a governmental indemnity protecting WEG against liability and hereby releases and agrees to indemnify WEG and its suppliers from any nuclear damage, which in any manner arises out of a nuclear incident, whether alleged to be due, in whole or in part, to the negligence of WEG or its suppliers.

11. Laws and Regulations. Purchaser has sole responsibility for compliance with all applicable Federal, state and local laws and regulations relating to the operation or use of the Equipment. If Purchaser desires a modification to the order as a result of any change or revision to any law or regulation after the date of the proposal, such modification shall be treated as a change order. Nothing contained herein shall be construed as imposing responsibility or liability upon WEG for the obtaining of any permits, licenses or approvals from any agency required in connection with the supply, erection or operation of the Equipment. WEG's obligations are conditioned upon Purchaser's compliance with all U.S. and other applicable trade control laws and regulations. Purchaser shall not trans-ship, re-export, divert or direct Equipment other than in and to the ultimate country of destination declared by Purchaser and specified as the country of ultimate destination on WEG's invoice.

12. Software License.

(a) If software is furnished as part of the sale made hereunder, Purchaser obtains a limited license to use certain proprietary software identified in WEG's proposal, subject to the following: (i) the software may be used only in conjunction with equipment specified by WEG, (ii) the software is to be kept strictly confidential, (iii) the software shall not be copied, reverse engineered, or modified, (iv) the Purchaser's right to use the software shall become effective upon delivery and shall continue until the related equipment is no longer used by the Purchaser or until otherwise terminated hereunder, and (v) the rights to use the software are non-exclusive, and non-transferable, except with WEG's prior written consent.

(b) Nothing contained in this Agreement shall be deemed to convey any title to or ownership in the software



or the intellectual property contained therein in whole or in part to Purchaser, nor to designate the software a "work made for hire" under the Copyright Act, nor to confer upon any person who is not a named party to this Agreement any right or remedy under or by reason of this Agreement. In the event of termination of this License, Purchaser shall immediately cease using the software and without retaining any copies, notes or excerpts thereof, return to WEG the software and all copies thereof and shall remove all machine readable software from all of Purchaser's storage media.

13. Inventions and Information. Unless otherwise agreed in writing by WEG and Purchaser, all right, title and interest in any inventions, developments, improvements or modifications of or for Equipment and Services shall remain with WEG. Any design, manufacturing drawings or other information submitted to the Purchaser remain the exclusive property of WEG. Purchaser shall not, without WEG's prior written consent, copy or disclose such information to a third party. Such information shall be used solely for the operation or maintenance of the Equipment and not for any other purpose, including the duplication thereof in whole or in part.

14. Force Majeure. WEG shall not be liable for loss, damage, detention, or delay, nor be deemed to be in default from causes beyond its reasonable control including but not limited to acts of war (declared or undeclared) fire, strike, labor difficulties, Acts of God, acts or omissions of any governmental authority or of Purchaser, compliance with government regulations, insurrection or riot, embargo, delays or shortages in transportation or inability to obtain necessary labor, materials, or manufacturing facilities from usual sources or from defects or delays in the performance of its suppliers or subcontractors due to any of the foregoing enumerated causes. In the event of delay due to any such cause, the date of delivery will be extended by period equal to the delay.

15. Cancellation. Unless specified to the contrary in writing in the **specific WEG terms and conditions**, Purchaser may cancel any order or contract only upon prior written notice and payment of termination charges, including but not limited to, all costs identified to the order or contract incurred prior to the effective date of termination and all expenses incurred by WEG attributable to the termination, plus a fixed sum of ten (10) percent of the final total selling price to compensate for disruption in scheduling, planned production and other indirect costs.

16. Termination. No termination by Purchaser for default shall be effective unless, within fifteen (15) days after receipt by WEG of Purchaser's written notice specifying such default, WEG shall have failed to initiate and pursue with due diligence correction of such specified default.

17. Assignment. Any assignment of this Agreement or any rights or obligations hereunder without prior written consent of WEG shall be void.

18. Choice of Law. This agreement shall be governed by the laws of the State of Georgia, but excluding the provisions of the United Nations Convention on Contracts for the International Sale of Goods and excluding Georgia law with respect to conflicts of law. Purchaser agrees that all causes of action under this agreement shall be brought in the Superior Court of Gwinnett County, Georgia, or the U.S. District Court for the Northern District of Georgia, and hereby waives any challenges that Purchaser may have to such court's personal jurisdiction over Purchaser. If any provision hereof, partly or completely, shall be held invalid or unenforceable, such invalidity or unenforceability shall not affect any other provision or portion hereof and these terms shall be construed as if such invalid or unenforceable provision or portion thereof had never existed.

19. Entire Agreement. This Agreement, including written bid proposal and written (email or otherwise) clarifications made to the original bid proposal, constitutes the entire agreement between WEG and Purchaser, and there are no agreements, understandings, restrictions, warranties, or representations between WEG and Purchaser other than those set forth or provided for herein.



Five Year Power Transformer Warranty

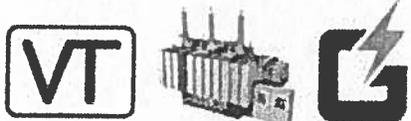
WEG Transformers USA, hereafter referred to as **WEG**, warrants to the original purchaser that the complete transformer, together with all parts included in the original purchase (the "Transformer"), has been designed in accordance with the specifications of the original purchaser, and that the Transformer will be free from defects in material and workmanship under normal use and service for a period of sixty (60) months from the date of energization of the transformer, not to exceed sixty six (66) months from arrival of the Transformer at its first destination.

Remedies. Should any failure to conform with the applicable warranties appear during the specified periods under normal and proper use and provided the Equipment has been properly stored, installed, operated and maintained, and if given prompt written notice by Purchaser, WEG shall correct such nonconformity by, at its option, (i) repair or replacement of the nonconforming Equipment or parts thereof, or (ii) refund of the purchase price of the nonconforming Equipment or parts thereof, or (iii) in the case of nonconforming Services, provide equivalent Services at the job site or refund the price therefor. Repairs or replacements pursuant to warranty shall not renew or extend the applicable original warranty period, provided however, that any such repairs or replacement of Equipment or parts thereof shall be warranted for the time remaining of the original warranty period or 30 days, whichever is longer. Purchaser shall be responsible for providing free and clear working access to repair or replace the nonconforming Equipment, including de-energizing and re-energizing the Equipment and any necessary disassembly and re-assembly of other equipment or structures, at the Purchaser's risk and expense; whereas transportation to and from repair or factory facility is at WEG's risk and expense. This warranty does not cover I/O costs. Purchaser shall be responsible for I/O costs including disassembly and reassembly of the transformer and the loading and unloading of the transformer to the carrier.

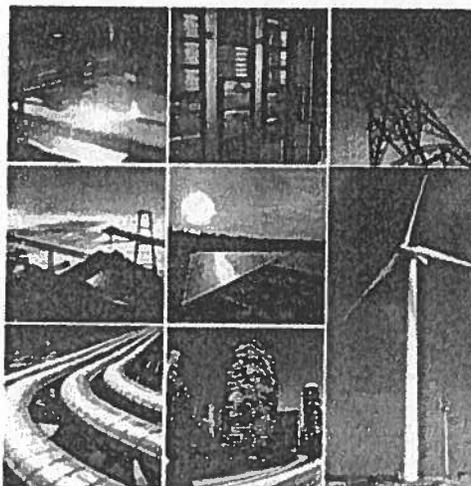
These warranties shall not apply to any Equipment or parts thereof which (i) have been improperly repaired or altered; (ii) have been subjected to misuse, negligence or accident; (iii) have been used in a manner contrary to WEG's instructions; (iv) are comprised of materials provided or design stipulated by Purchaser; (v) are used equipment; or (vi) result from normal wear and tear.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF QUALITY AND PERFORMANCE, WRITTEN, ORAL OR IMPLIED, AND WEG HEREBY DISCLAIMS ALL OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

Correction of nonconformities in the manner and for the period of time provided above shall be Purchaser's sole and exclusive remedy for any failure of WEG to comply with its obligations hereunder.



VIRGINIA - GEORGIA TRANSFORMER
ONE SOURCE-ONE COMMITMENT



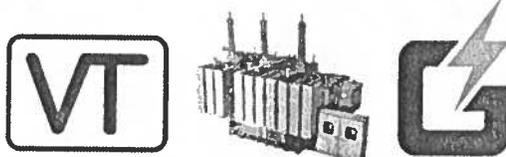
ROCHELLE MUNICIPAL UTILITIES
Rte 38 Substation Rochelle IL

Proposal #: M234601A | 04 December 2023

Customer Contact Information
Rte 38 Substation Rochelle IL
ROCHELLE MUNICIPAL UTILITIES
KEN WIESE
333 LINCOLN HIGHWAY
ROCHELLE, IL 61068
815-562-4155

VTC Contact Information
BRIAN MCCARRICK
540-682-6618
Brian_McCarrick@vatransformer.com

220 Glade View Drive, NE Roanoke, 24012
Phone:540-345-9892 Fax:540-342-7694
www.vatransformer.com



VIRGINIA - GEORGIA TRANSFORMER
ONE SOURCE-ONE COMMITMENT

Document A310™ – 2010

Conforms with The American Institute of Architects AIA Document 310

Bid Bond

CONTRACTOR:

(Name, legal status and address)

Virginia Transformer Corp
220 Glade View Dr. NE
Roanoke, VA 24012-6470

SURETY:

(Name, legal status and principal place of business)

Travelers Casualty and Surety Company of
America
One Tower Square
Hartford, CT 06183

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

OWNER:

(Name, legal status and address)

The City of Rochelle- Rochelle Municipal Utilities
420 North 6th Street
Rochelle, IL 61068

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND AMOUNT: \$ 5%

Five Percent of Amount Bid

PROJECT:

(Name, location or address, and Project number, if any)

VTC Quote No. M234601A; Rte. 38 Substation Transformer Purchase

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

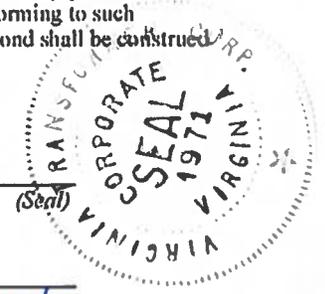
When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 5th day of December, 2023

Charnessa Nicholas
(Witness)

Virginia Transformer Corp
(Principal)

By: [Signature]
(Title) Senior Vice President



Elizabeth A. Dyer
(Witness) Elizabeth A. Dyer

Travelers Casualty and Surety Company of America
(Surety) (Seal)

By: [Signature]
(Title) Kyle A. Campbell Attorney-in-Fact



**Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company**

POWER OF ATTORNEY

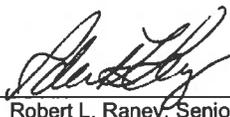
KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **KYLE A CAMPBELL** of **ROANOKE**, Virginia, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April**, 2021.



State of Connecticut

City of Hartford ss.

By: 
Robert L. Raney, Senior Vice President

On this the **21st** day of **April**, 2021, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, 2026




Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **5th** day of **December**, 2023 .




Kevin E. Hughes, Assistant Secretary

**To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.**

BID FORM
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This Bid is submitted by: Virginia Transformer Corporation

Bid Form

ARTICLE 1 - BID RECIPIENT

1.01 This Bid is submitted to:

**City of Rochelle
420 N 6th Street
Rochelle, IL 61068**

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with Buyer in the form included in the Bidding Documents to furnish the Goods and Special Services as specified or indicated in the Bidding Documents, for the prices and within the times indicated in this Bid, and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 - BIDDER'S ACKNOWLEDGMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Buyer.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, the related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

| Addendum No. | Addendum Date |
|-----------------------------|-----------------------------|
| <u>NA</u> | <u> </u> |
| <u> </u> | <u> </u> |

B. Bidder has visited the Point of Destination and site where the Goods are to be installed or Special Services will be provided and become familiar with and is satisfied as to the observable local conditions that may affect cost, progress, or the furnishing of Goods and Special Services, if required to do so by the Bidding Documents, or if, in Bidder's judgment, any local condition may affect cost, progress, or the furnishing of Goods and Special Services.

C. Bidder is familiar with and is satisfied as to all Laws and Regulations in effect as of the date of the Bid that may affect cost, progress, and the furnishing of Goods and Special Services.

- D. Bidder has carefully studied, considered, and correlated the information known to Bidder; information commonly known to sellers of similar goods doing business in the locality of the Point of Destination and the site where the Goods will be installed or where Special Services will be provided; information and observations obtained from Bidder's visits, if any, to the Point of Destination and the site where the Goods will be installed or Special Services will be provided; and any reports and drawings identified in the Bidding Documents regarding the Point of Destination and the site where the Goods will be installed or where Special Services will be provided, with respect to the effect of such information, observations, and documents on the cost, progress, and performance of Seller's obligations under the Bidding Documents.
- E. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution (if any) thereof by Engineer is acceptable to Bidder.
- F. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for furnishing the Goods and Special Services for which this Bid is submitted.

ARTICLE 4 - BIDDER'S CERTIFICATIONS

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding.
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "Corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - 2. "Fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Buyer,

(b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Buyer of the benefits of free and open competition.

3. "Collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Buyer, a purpose of which is to establish bid prices at artificial, non-competitive levels.
4. "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process.

ARTICLE 5 - BASIS OF BID

5.01 **Proposal No. 1** - Bidder will furnish the Goods and Special Services in accordance with the Contract Documents, including **Allowance No. 1** as stipulated in the documents for required scope changes, for the following price(s):

| # | Size (mva) | Primary Voltage | Secondary Voltage | Price per Unit |
|-----|----------------|-----------------|-------------------|----------------|
| 1.) | 20/26.66/37.33 | 34.5kV Wye | 13.8kV Wye | \$1,520,500 |

| | |
|--|--------------------|
| Lump Sum Total Bid Price for Proposal No. 1 including allowance | + \$ 25,000 |
|--|--------------------|

SCHEDULE GUARANTEES

| | | |
|---------------------------|-----------|------------------------|
| Drawing Submittal: | 126-140 | Calendar days from ARO |
| Assembly Complete: | 310 - 340 | Calendar days from ARO |
| Factory Testing Complete: | 350 - 385 | Calendar days from ARO |
| Delivery: | 385 - 420 | Calendar days from ARO |

EQUIPMENT DETAILS

| | | |
|-----------------------|-----------------------------|----------------|
| Manufacturer: | Reinhausen | |
| Location: | On LV | |
| Core and Coil Weight: | During Detailed Engineering | lbs. |
| LTC Weight: | TBD | lbs. |
| Liquid Weight: | 33,060 | lbs. (Approx.) |
| Total Weight: | 122,200 | lbs. (Approx.) |

PERFORMANCE GUARANTEES

Guaranteed minimum efficiency at rated load at rated voltage and on rated voltage taps:

| | |
|---------------|--------|
| 25% OA Load: | 99.60% |
| 50% OA Load: | 99.67% |
| 100% OA Load: | 99.57% |

Non-Collusion Affidavit

The Municipality reserves the right, before any award of contract is made, to require any bidder to whom it may make an award of the Principal Contract, to sign a non-collusion affidavit in the form designated below:

STATE OF Virginia

COUNTY OF Roanoke

Rakesh Rathi, being first duly sworn, deposes and says that he is Sr vice president * (sole owner, partner, president, secretary, etc.) of the interest of or on behalf of any undisclosed person, partnership, company, association, organization or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that said bidder has not in any manner, directly or indirectly, sought by agreement, communication or conference with anyone to fix the bid price of said bidder or of any bidder to fix any overhead, profit or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in such bid are true; and, further, that said bidder has not, directly or indirectly, submitted his bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith to any corporation, partnership, company, association, organization, bid depository, or any member or agent thereof, or to any other individual except to such person or persons as have a partnership or other financial interest with said bidder in his general business.

Signed: Jae
Title: Sr vice president

Subscribed and sworn to before me this 4th day of December 20 23

Seal of Notary:

Melanie Woomer
Notary Public



* In making out this form, the title that is not applicable should be struck out. For example, if the Contractor is a corporation and this form is to be executed by its president, the words "Sole Owner, a partner, secretary", etc. should be struck out.

SECTION 00420

Qualifications

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Appointment of Counsel
- B. Pre-qualifications
- C. Bidder's Qualifications
- D. Certifications
- E. References
- F. Signatures.

1.02 AWARD OF BID

- A. Failure of Bidder to meet all qualification criteria as stated in these Specifications shall disqualify Bidder from consideration for the Project.
- B. The Owner reserves the right to exclude Bidder from consideration due to the Bidder's failure to present with written documentation his experience and capability to complete the project to the Owner's expectations.

PART 2 – QUALIFICATIONS

2.01 APPOINTMENT OF COUNSEL – NON-RESIDENT

- A. Bidder has appointed Robert A. Ziogas, whose address is 310 First St., Ste 100, Roanoke, VA 24011 as the agent of Bidder for service of process in the event any litigation or controversy results between the Bidder and Owner arising out of the contractual relationship created by the acceptance of this Bid. Bidder agrees that the courts of the State in which the project is located will have jurisdiction over Bidder for all such purposes to the same extent as though Bidder were a resident of the State.

2.02 PRE-QUALIFICATION

- A. Failure of Bidder to meet the Pre-qualification requirements as stated in the Instruction to Bidders Bid shall disqualify Bidder from consideration for the Project.

2.03 BIDDER'S QUALIFICATIONS

- A. Bidder shall prove to the Owner's satisfaction Bidder's experience in completing similar projects, thus demonstrating the ability of the Bidder to complete the Project to the Owner's Satisfaction.
- B. Bidder shall submit written proof and abide by the written proof that the Bidder will complete a minimum of (30) thirty percent of the overall project by his own company and workers.
- C. Bidder shall submit documentation proving that the Bidder is capable of funding the Project and is not in financial hardship.
- D. Bidder shall submit documentation proving that the Bidder uses only qualified, licensed workers experienced in the line of work.
- E. Bidder's subcontractors shall be the responsibility of the Bidder and shall be considered part of the Bidder's company and shall meet qualification requirements for all aspects of the Project.

2.04 CERTIFICATIONS

- A. The Bidder certifies the following as required by law:
 - 1. Bidder has not been convicted of bribery or attempting to bribe an officer or employee of the State, nor has the Bidder made an admission of guilt of such conduct which is a matter of record, nor has an official, agent or employee of the Bidder been so convicted or made such admission of bribery on its behalf and pursuant to the direction or authorization of a responsible official thereof.
 - 2. Bidder is not barred from bidding with any unit of state or local government as a result of unlawful bid rigging.
 - 3. Under penalty of perjury, the Bidder certifies that the Federal Taxpayer Identification Number noted below is correct and the Bidder is doing business as a (please check one):

| | |
|---|--|
| <input type="checkbox"/> Individual | <input type="checkbox"/> Real Estate Agent |
| <input type="checkbox"/> Partnership | <input type="checkbox"/> Government Entity |
| <input checked="" type="checkbox"/> Corporation | <input type="checkbox"/> Trust or Estate |

4. Bidder, if an individual, is not in default on an educational loan.

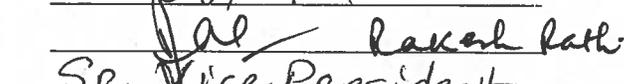
2.05 REFERENCES

- A. Bidder shall submit a minimum of three (3) written letters of recommendation with references' signatures and contact information to the Engineer.
- B. These References shall be from the Owner, Project Manager, or other individual who is knowledgeable on the project, or recent previous Projects with very similar Scope of Work completed under the current Bidder's name.
- C. Bidder shall submit a minimum of three (3) company brochures, or company information sheets, along with list of completed equivalent projects.

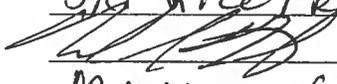
2.06 SIGNATURES

Firm Name: Virginia Transformer Corporation

Federal Taxpayer Identification Number: 54-0895926

By: 

Title: SR Vice President

By: 

Title: MANAGER of Inside Sales

Note: If the Bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation; if the Bidder is a partnership, the true name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if the Bidder is an individual, his signature shall be placed above. If signature is by an agent, other than an officer of a corporation or member of a partnership, a power of attorney must be submitted with the bid.

PART 3 – EXECUTION NOT USED

END OF SECTION

Reference Questionnaire

(Please have a minimum of three (3) references complete this form and submit with Bid documents, reference forms are subject to verification by City)

Giving reference for: VIRGINIA TRANSFORMER
(name of company)

Firm giving Reference: CITY OF LEESBURG
Address: 501 W. MEADOW ST
Phone: LEESBURG, FLORIDA 34748
Fax: mike.thornton@leesburgflorida.gov
Email:

1. Q: Name of project and scope of services, what was the awarded dollar value?
A: Manufacture and install 4 each substation power transformers - total cost \$2,732,117
2. Q: Did the vendor meet the project budget and what was the budget??
A: Yes - \$2,800,000
3. Q: Have there been any change orders, and if so how many?
A: No - Only material price increases as allowed by the contract.
4. Q: Was the project manager accessible to get in contact with?
A: Yes
5. Q: Did they meet the project deadline?
A: Yes - They installed all 4 ahead of schedule.
6. Q: Would you use them again?
A: The City has no reason to not contract with VTA should the opportunity arise in the future.
7. Q: Overall, what would you rate their performance? (Scale from 1-5)
A: 5 Excellent 4 Good 3 Fair 2 Poor 1 Unacceptable
8. Q: Is there anything else we should know, that we have not asked?
A: No

The undersigned does hereby certify that the foregoing and subsequent statements are true and correct and are made independently, free from vendor interference/collusion.

Name: Mike Thornton Title: Purchasing Manager

Print Name: Mike Thornton

Date: February 16, 2022

Reference Questionnaire

(Please have a minimum of three (3) references complete this form and submit with Bid documents, reference forms are subject to verification by City)

Giving reference for:
(name of company)

Firm giving Reference: Sylacauga Utilities Board
Address: 1414 Edwards Street
Phone: 256-249-0372
Fax:
Email: ecarither@sylacauga.net

1. Q: Name of project and scope of services, what was the awarded dollar value?

A: 3 Power Transformers \$ 740,097-
3Ø Power Transformers \$636,776-

2. Q: Did the vendor meet the project budget and what was the budget??

A: Yes 2015 Three 3Ø Power Transformers at \$246,699 ea
2019 Two 3Ø Power Transformers at \$318,388 ea

3. Q: Have there been any change orders, and if so how many?

A: No

4. Q: Was the project manager accessible to get in contact with?

A: Greg Slocensky has been great to work with.

5. Q: Did they meet the project deadline?

A: Yes

6. Q: Would you use them again?

A: Definitely

7. Q: Overall, what would you rate their performance? (Scale from 1-5)

A: 5 Excellent 4 Good 3 Fair 2 Poor 1 Unacceptable

8. Q: Is there anything else we should know, that we have not asked?

A: _____

The undersigned does hereby certify that the foregoing and subsequent statements are true and correct and are made independently, free from vendor interference/collusion.

Name: Eric Carithers Title: Electric Superintendent

Print Name: Eric Carithers

Date: 2-7-2022

Reference Questionnaire

DAN MORGAN
Consultant, Power & Distribution

Giving reference for:
(name of company)



Texas Electric Cooperatives
The Lightbulb Energy Partner

Firm giving Reference:

Address:

Phone:

Fax:

Email:

100 Cooperative Way, Georgetown, TX 78626
C.F.I.L. (210) 861-5158
E MAIL dan.morgan@mail@txec.com
WEB www.te-cas.org

1. Q: Name of project and scope of services, what was the awarded dollar value?
A: Multiple In Ground projects for 9 Virginia Power Transformers with total approximate value of \$2.5 Million.
2. Q: Did the vendor meet the project budget and what was the budget??
A: Budget exceeded - Virginia Transformer met and supplied at quoted & contractual price.
3. Q: Have there been any change orders, and if so how many?
A: only 2-3 change orders - VTC worked to make requested changes.
4. Q: Was the project manager accessible to get in contact with?
A: Always
5. Q: Did they meet the project deadline?
A: Yes
6. Q: Would you use them again?
A: Absolutely
7. Q: Overall, what would you rate their performance? (Scale from 1-5)
A: 5 Excellent 4 Good 3 Fair 2 Poor 1 Unacceptable
8. Q: Is there anything else we should know, that we have not asked?
A: VTC performed well and met our Power Transformer needs.

The undersigned does hereby certify that the foregoing and subsequent statements are true and correct and are made independently, free from vendor interference/collusion.

Name: Daniel L. Morgan Title: Senior Project Consultant

Print Name: [Signature]

Date: 2/1/2021

Rte 38 Substation Rochelle IL
ROCHELLE MUNICIPAL UTILITIES
Proposal #: M234601A



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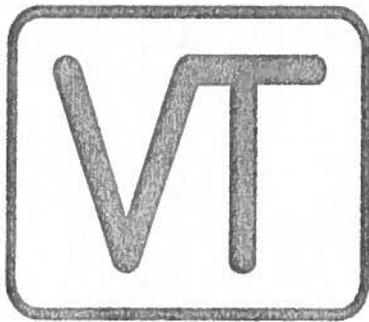
Virginia Transformer Corporation

This document contains Virginia Transformer Corp proprietary information and may not be copied or disclosed to others without written consent form Virginia Transformer Corp.

For over 50 years, innovative technology and a commitment to superior customer service and support has established Virginia Transformer Corp(VTC) as an engineering company leading in manufacturing a variety of transformers.

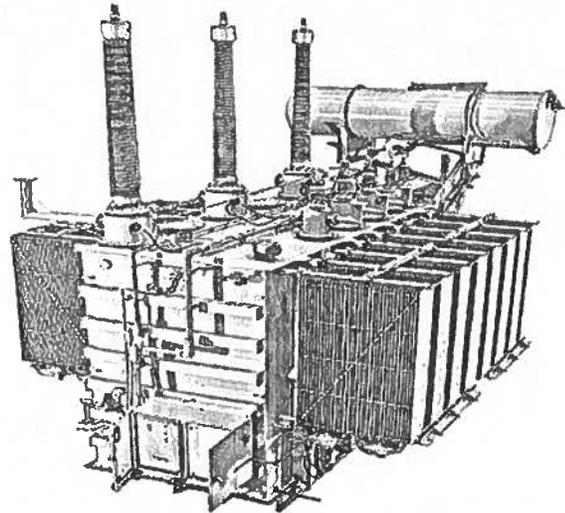
VTC designs and manufactures custom power transformers ranging from 500 KVA to 400 MVA, 500 kV class (core type) and up to 1400 MVA, 500 kV class (shell type), and dry-type units up to 15000 KVA, 35 kV.

VTC has design and manufacturing facilities in Roanoke, VA, Pocatello, ID, Chihuahua, Mexico and Georgia Transformer in Rincon GA. In addition, VTC has design and procurement capabilities in Delhi, India, establishing a world-wide presence as a supplier of transformer solutions. VTC reserves the right to manufacture the product quoted herein at VTC owned or affiliated plants in North America.



ISO 9001

"The Commitment Company"



Rte 38 Substation Rochelle IL
ROCHELLE MUNICIPAL UTILITIES
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Commercial Summary

Base Price

| Item | Description | Qty | Unit Price (USD) | Extended Price (USD) |
|------|--|-----|------------------|----------------------|
| 1 | 20,000 / 22,400 / 26,667 / 29,867 / 33,333 / 37,333 kVA 34.5 - 13.8 kV | 1 | \$1,520,500 | \$1,520,500 |

Tax Certificates Requirement

Upon acceptance of our proposal, the purchaser is required to submit a sales tax exemption certificate with the Purchase order, otherwise VTC will charge appropriate state taxes based on the destination.

TERMS AND CONDITIONS: Unless other terms or MSA is agreed between Customer and VTC/GTC, the Proposal will be governed by VTC/GTC Standard Terms & Conditions, attached towards the end of technical Proposal or provide as Separate Document.

Price Policy

Quoted Price is Firm for the Proposed Lead time.
 In the event of customer delay on a job quoted with a firm price and shipment date, VTC/GTC will apply the BLS Transformer Index to adjust price. The agreed firm price will be escalated with the base period being the quoted shipment date and the Settlement date being the month of shipment. Only increases in the BLS index will be considered for this calculation. Any advance payments will be credited to the final invoice. No adjustment will be applied if the transformer is completed and shipped prior to the quoted shipment date.

Validity of Quote

02/03/2024

Estimated Freight Cost

| Item | Ship To | Qty | Freight Cost (USD) | Extended Freight Cost (USD) |
|------|---|-----|--------------------|-----------------------------|
| 1 | Rochelle, IL (Freight charges included in base price) | 1 | \$15,836 | \$15,836 |

Indicated Prices are Estimate Only, VTC will quote freight at the time of shipment, Actual Amount incurred will be Invoiced along with 15% Handling Charges.

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ROCHELLE MUNICIPAL UTILITIES
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ITEM #1

Suggested Spare Parts

| Particulars | Price (USD/Per Unit) |
|--------------------|----------------------|
| FAN - Qty 1 | \$1,500 |
| GASKET SET - Qty 1 | \$1,000 |
| HV BUSHING - Qty 1 | \$4,100 |
| LV BUSHING - Qty 1 | \$2,900 |

Shipping

| | |
|-----------------------------------|--|
| Unit Shipment By | 55-60 Weeks from Order Acknowledgement date.VTC reserves the right to ship unit up to 3 months earlier than the contractual ship date. |
| Freight | PREPAID & ADD |
| Estimated Freight Cost (Per Unit) | \$15,836 |
| INCO Terms | FOB - FREE ON BOARD(Rochelle, IL) |
| Proposed Manufacturing Location | ROANOKE, VA USA |
| Impact Recorder | Impact Recorder to be provided on Returnable Basis, \$ 7,500 to be invoiced if not returned in 30 days after Delivery. |

VTC cannot guarantee multiple units to arrive at the same time unless more than one unit can be loaded on the same truck. VTC cannot guarantee arrival dates and times at the job site. Final Lead time will be confirmed at the time of order acknowledgements

Proposed Payment Terms

| |
|---|
| 30% Advance with Purchase Order |
| 30% upon drawing submittal, net 30 days |
| 40% invoiced at the time of Shipment or upon moving to storage, Net 30 days |

Field Service

| | |
|---|----------|
| Field Service Assembly & Testing (Make-up Oil Only) | Included |
| Field Service Offloading | Included |
| Field Service SFRA Testing | Included |

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1. Field Service Prices indicated are Estimates only and will be Adjusted at the time of Actual Service.
2. For any units that are placed in storage Field service charges will be increased by 10% every 6 months, or part thereof.
3. On the Transformers that go into storage. Freight, Offloading, and Field Dress Out prices will be quoted at the time of shipment.
4. VTC/GTC will not Store Transformers. Storage of the transformer may be for a limited period of time based on space availability, if explicitly agreed upon by VTC/GTC. If Quoted, Space storage charges will be Provided. Any unit placed in storage must be paid in full within 30 days of completion of the transformer, acceptance will be deemed to have occurred upon placement in storage and transfer of title will take along with all associated milestone payments. Any additional testing requested at the time of shipment will be charged separately. We will require at least 60-days notice prior to requested shipment date, to remove a transformer from storage.
5. Please note that the included price for Field Service Offloading with Free and Clear Access is based on following
 - a) Usage of Crane rated up to 250-ton, 28-foot radius.
 - b) No Jack & Slide Equipment requirement to place transformer on the pad.
 - c) Demurrage for delays based on customer or site condition will incur price adders.
 If site conditions have access constraints for Offload - that require larger than a 250-ton, 28-foot Crane and / or Jack & Slide equipment, a price adder will be charged by VTC.

Warranty

| | |
|--|--|
| 60/60 Months Extended Warranty With In/Out | Includes Core and Coil only after first 12 Months. |
|--|--|

To ensure validity of Warranty coverage, Virginia - Georgia Transformer requires Dissolved Gas Analysis (DGA) reports of the supplied unit to be provided every year for the period of Warranty coverage. The annual DGA's should be emailed to: FieldService@vatransformer.com

Testing - As Per IEEE ANSI 57.12.90

| | |
|---|----------|
| Megger Test | Included |
| Routine | Included |
| Test Report of Thermally Duplicate Design | Included |

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All tests are as per ANSI/IEEE standard guideline. For Witness testing, cost for travel, transportation, lodging and meals are not included in the quoted price. If customer requires additional time beyond the scheduled witness test period, an additional charge of \$10,000/day will apply.

Drawings

Drawings are typically supplied 18-20 Weeks after Order Acknowledgement. Actual Drawing lead time will be confirmed at the time of order Acknowledgement Only. Customer approvals of drawings are required within one week from date of submittal unless otherwise agreed to in writing by VTC-authorized representative.

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Technical Summary

This proposal is Virginia Transformer's complete understanding of the specification requirements provided, and is the basis for acceptance of any resulting orders.

ITEM #1

Transformer Ratings

| ITEM :1 | | | QUANTITY #1 |
|---------------------|---|-------------------------|----------------------------|
| kVA | 20,000 / 22,400 / 26,667 / 29,867 / 33,333 / 37,333 | Application | POWER DIST. |
| Cooling Class | ONAN/ONAF/ONAF | Winding Temp Rise (Avg) | 55/65 °C |
| # Phase | 3 | Dielectric Fluid | TYPE II MINERAL |
| Frequency (Hertz) | 60 | Winding Material | COPPER |
| HV Rating (V) | 34,500 Y/19,919 | LV Rating (V) | 13,800 Y/7,967 |
| HV BIL (kV) | 200 | LV BIL (kV) | 150 |
| TV kVA | Not Applicable | TV Voltage | 5,116 |
| TV Winding | UNLOADED | TV BIL (kV) | 75 |
| HV Tap Changer | DETC | LV Tap Changer | LTC |
| HV Taps | 2 FCAN,2 FCBN @2.5 % | LV Taps | 16 ABOVE,16 BELOW @0.625 % |
| Nom. Impedance | 7.50 % +/- 7.50 % @ 20,000 kVA | Noise (dBA) | Standard NEMA TR-1 |
| HV Bushing Mtng | Segment IV, Side Mounted | LV Bushing Mtng | Segment II, Side Mounted |
| HV Terminal Chamber | FULL ATC | LV Terminal Chamber | FULL ATC |
| HV Coil Type | CIRCULAR | LV Coil Type | CIRCULAR |
| Paint Color - ANSI | 70 | Paint Type | III URETHANE OVER EPOXY |
| Losses | Guaranteed with IEEE Tolerance | | |
| No Load Losses | 15.50 kW at 100% volts | Load Losses | 70.00 kW @ 20,000 kVA |

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Mechanical Features

| |
|---|
| De-energized Manual No Load Tap Changer |
| Diagrammatic Name Plate |
| Gasketed Manhole in Cover |
| Nitrogen System with Regulator |
| Panel Type Radiators |
| Two Stainless Steel Ground Pads welded to Base on Diagonally Opposite Corners |
| Welded Top Cover |

Radiators

| | | | |
|-------------------------------|-----------------------------------|----------------------|---------------------|
| Environment Protection | Hot Dipped Galvanized & Unpainted | Radiator Type | Demount Type |
|-------------------------------|-----------------------------------|----------------------|---------------------|

VTC standard radiators are Hot Dipped Galvanized and Unpainted which do not require painting. These radiators are suitable for all climatic conditions that include chemical, petro-chemical and marine conditions. Unless specified differently below, these standard, galvanized radiators will be provided.

Standard Gauges and Accessories

| Gauges Details | Make |
|--|-----------------|
| Electronic Temp Monitor | SCHWEITZER |
| Liquid Level Gauge W/Contact | QUALITROL CORP. |
| Liquid Temp Gauge W/Contact | QUALITROL CORP. |
| Pressure Relief Device W/Contact | QUALITROL CORP. |
| Pressure Vacuum Gauge | QUALITROL CORP. |
| Sudden Pressure Relay (GAS) With Seal in Relay | QUALITROL CORP. |
| Simulated Winding Temp Gauge W/Contact | QUALITROL CORP. |

Bushings

| Bushing | kV BIL | Location | Qty / Phase | Make |
|---------|--------|------------|-------------|---------------------|
| HV | 200 | Segment IV | 1 | HITACHI (ABB)/PCORE |
| LV | 150 | Segment II | 1 | HITACHI (ABB)/PCORE |

Current Transformers

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| Location | Qty / Phase | CT Ratio | Ratio | Class / Accuracy |
|------------|-------------|----------|-------------|------------------|
| HV | 2 | 1200:5 | Multi Ratio | C400 |
| LV | 2 | 1200:5 | Multi Ratio | C400 |
| LV Neutral | 1 | 1200:5 | Multi Ratio | C400 |

Lightning Arresters

| Location | Type | kV Class | MCOV | Manufacturer | Material |
|----------|---------------|----------|------|---------------|----------|
| HV | Station Class | 36 | 29 | HITACHI (ABB) | POLYMER |
| LV | Station Class | 12 | 10.2 | HITACHI (ABB) | POLYMER |

Load Tap Changer

| | |
|------------------------|----------------|
| Liquid Level Guage | Included |
| Location | On LV Winding |
| LTC Type | RMV II |
| Make | REINHAUSEN MFG |
| Pressure Relief Device | Included |

NOTE: The actual voltages at various taps of the LTC shall correspond to the nearest turn in accordance with IEEE Std C57.12.00 2010 clause 9.1. This can lead to different step voltage between steps.

Included Spare Parts

| Item | Remarks |
|--------------------|----------|
| GASKET SET - Qty 1 | Included |
| HV BUSHING - Qty 1 | Included |
| LV BUSHING - Qty 1 | Included |

Ambient Conditions

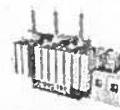
| | |
|-------------------------|-----------------------------|
| Ambient Temperature(°C) | Min. -20 / Av. 30 / Max. 40 |
| Seismic Zone | LOW |
| Altitude(Feet) | < 3,300 |

Unit shall be designed per the latest ANSI standards for Seismic per IEEE 693 – 2018

Dimensions and Weights

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VIRGINIA - GEORGIA TRANSFORMER
 ONE SOURCE-ONE COMMITMENT

| Overall & Shipping Estimated Dimensions: | | |
|---|------------------------------------|-------------------------------------|
| Dimension | Overall Dimensions (Inches) | Shipping Dimensions (Inches) |
| Width | 235 | 235 |
| Depth | 171 | 122 |
| Height | 167 | 162 |
| Overall & Shipping Estimated Weights: | | |
| Weight of the Unit (Lbs) | | Shipping Weight (Lbs) |
| 122,200 | | 110,550 |
| Parts Shipped Separately: | | |
| Fans and Mounting | | |
| HV Bushings | | |
| Radiator Oil | | |
| Radiators | | |

Assembly of any ship separate parts is not in VTC scope unless, VTC field service assembly option is purchased or included in the base price.

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Clarifications/Deviations to Specifications and Technical Notes

**TECHNICAL
CLARIFICATIONS**

1. We have quoted our offer as per ANSI standards.
2. Values of Test like Induced Voltage, SFRA, Corona and Partial Discharge shall be as applicable in ANSI standard.
3. Please note Dynamic Short Circuit test is not considered in our proposal. However, if required test reports for Similar/higher rating can be submitted for your reference only at the event of order.
4. LV arrestors MCOV rating taken as per LV voltage.

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General Terms and Conditions of Sale

Virginia Transformer Corp's General Terms and Conditions of Sale

Virginia Transformer Corp, hereinafter referred to as Seller, hereby offers to supply the items and/or services identified in the quotation, proposal, or acknowledgment expressly conditional upon the Buyer's acceptance of the following terms. Seller, by its commencement of performance, shall not prejudice its rights to enforcement of these conditions. Any confirmatory action by the Buyer hereunder, or any acceptance of such equipment or services, installation, energization, or utilization shall constitute assent to said terms or conditions. Stenographic and clerical errors on this quotation, proposal, or acknowledgment are subject to correction.

1. **ACCEPTANCE OF ORDER:** None of Buyer's Terms and Conditions contained the Purchase Order or other submittal by Buyer shall alter Seller's Terms and Conditions in any respect and shall not apply to this transaction unless specifically agreed to in writing by the Seller.
2. **EXPIRATION OF OFFER:** All offers of sale by Seller are valid for thirty (30) days from the date of the offer based on product delivery within 6 months unless otherwise specifically stated in the Seller's offer or as otherwise may be expressly agreed to in writing by the Seller. All such offers of Seller are subject to change without notice after this period unless earlier withdrawn by the Seller.
3. **MINIMUM ORDER VALUE:** The minimum acceptable value of any order is \$500.00. Buyer's accumulation of several items into one purchase is authorized to reach the minimum order value.
4. **F.O.B. POINT AND SHIPMENTS ACCEPTANCE OF ORDER:** Title to the goods and risk of loss shall pass to Buyer at the FOB point. All supplies and services are sold FOB origin and the point of origin shall be that of Seller's factories or locations identified in its proposal or sales contract form unless as otherwise specifically agreed to in writing on the face of Seller's sales contract. Seller assumes no responsibility for delay, breakage, damage, or loss after delivery to the carrier as evidenced by **in good order** receipts from the carrier. All claims for loss, damage and delay in transit are to be handled by Buyer directly with the carrier. Seller shall select method of transportation and route on behalf of Buyer unless Buyer specifies the method and route and is to pay freight costs in addition to price. Seller reserves the right to make partial shipments at its discretion. Claims for shortages or incorrect items must be made in writing to Seller within seven days after receipt of shipment. Failure to give such notice shall constitute an unqualified acceptance of equipment and waiver by Buyer of all claims for such shortages or incorrect items.

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When terms are F.O.B. destination or freight allowed to destination, **destination** means common carrier delivery point nearest the destination the continental United States, excluding Alaska, Hawaii, Puerto Rico, etc.). When terms are F.O.B. job site or pad, Buyer guarantees all access roads are suitable for normal unimpeded access to site with free and clear access to area directly adjacent to the placement point of the unit with no physical obstructions and clear of stored materials.

Shipping schedules and delivery arrangements are made in best effort and good faith. Seller cannot, however, accept liability for penalty or damages resulting from shipping delays caused by Force Majeure including but not limited to strikes, fires, truck availability, labor or material shortages, Acts of God, or any other cause beyond VTC's reasonable control. Ship Separate Parts may not arrive concurrently with the transformer and some assembly may be required. Shipment may be made earlier after due notice to Buyer.

5. **BUYER'S OBLIGATION OF ASSISTANCE:** Except to the extent Seller has otherwise assumed such responsibility for itself under express provisions of the attachment hereto entitled **Proposal**, Buyer shall:

- (a) place at Seller's disposal all information necessary for performance of the work including any plans, plant layout, wiring instructions and operational information that may reasonably be expected to affect the performance of the work. This includes to the extent reasonable previous studies or reports and other data relative to the design, installation, and selection of equipment for the work to be performed by Seller.
- (b) guarantee access to and to make all reasonable provisions for Seller to enter on its property and other public and private lands as is required for performance of the work including safe storage of equipment, materials, and tools during the process of any such off-site work.
- (c) agree to cooperate in all reasonable ways necessary to Seller's performance of the work.
- (d) covenant that it has disclosed fully and accurately to Seller all general and local conditions which can affect performance of the work prescribed hereunder or the price thereof. Buyer acknowledges that Seller is entitled to rely on information furnished by Buyer in developing its specifications, equipment selection, price, and other terms of this order.

6. **PAYMENT TERMS:** Terms are 30% with the initial order, 30% upon Drawing Submission, net 30 days, and 40% at shipment, net 30 days, calculated from the date of invoice if credit arrangements have been approved, in advance by Seller, and these terms are included on the Seller's proposal. **Otherwise, payment is required before shipment or delivery in a form and arrangement acceptable to Seller.** In addition to any other rights or remedies available to Seller, failure to pay the amount(s) due within the time specified will result in a late charge of one and one half (1-1/2%) percent per month to Buyer's account until final payment. Payments shall not be contingent on end-user payment to Buyer and Seller reserves the right to refuse to fulfill all obligations (including field service and voiding of warranty) if payment is not received as due. In instances involving orders for more than one unit, the foregoing

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amounts will be billed and due for each unit. In instances where items are quoted by line item in the proposal, those will be billed, and payment will be due upon rendering of each item.

Purchaser grants Seller a security in the goods to secure payment of all outstanding balances. Purchaser authorizes Seller to file financing statements, fixture filings, and to execute and file any other documents and take all other steps to perfect its security interest.

Except to the extent otherwise specified by Seller in its quotation or proposal, payments shall become due without setoff. If Seller consents to delay shipments after completion of any product, the goods may be placed in storage by Seller for Buyer's account and risk, and Buyer shall pay all charges for storage, cranes, trucking and other incidental expenses incurred by Seller and the provisions in the **Storage** paragraph below shall further apply.

Any order for products by Buyer shall constitute a representation that Buyer is solvent. In addition, upon Seller's request, Buyer will furnish a written representation concerning its solvency and provide adequate assurances of its ability to satisfy its financial obligations under its contract with Seller, including but not limited to current financial statements, at any time prior to shipment. If Buyer's financial condition at any time does not justify continuance of the work to be performed by Seller hereunder on the agreed terms of payment, Seller may require full or partial payment in advance. In the event of Buyer's bankruptcy or insolvency; or in the event any proceeding is brought against Buyer, voluntarily or involuntarily, under the bankruptcy or any insolvency laws; Seller shall be entitled to cancel any order then outstanding at any time during the period allowed for filing claims against the estate and shall receive reimbursement for its proper cancellation charges. Seller's rights under this article are in addition to all rights available to it at law or in equity.

Any delay in payment as due, will impact all deliverables from Seller including the achievement of deliverables through the guaranteed delivery date. Any extended delay in payment can be the basis for the order to be held and any applicable liquidated damages in favor of Buyer shall be deemed waived.

7. **CHARGEBACKS, SET-OFF, OFFSETS OR WITHHOLDING:** Seller will not accept any back charges, set-off, offsets, or withholding for material or services without the prior written consent of Seller.

8. **DELIVERY:** The prices quoted are for the shipment dates provided on the Seller's proposal. While the Seller shall have no obligation to comply with unilateral directives to change schedules or temporarily cease work, Seller may accommodate Buyer's reasonable written requests for acceleration or deceleration made at least ninety/sixty (90/60) days respectively prior to scheduled delivery. Such changes may or may not be accepted by Seller at its sole discretion. In the event Seller accepts such changes, Seller shall be under no

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obligation to comply therewith until a price adjustment acceptable to Seller is negotiated between the parties and evidenced by an amendment to the order. Any agreement to delay delivery shall not exceed 6 months from original acknowledgement ship date; goods not released for shipment within such revised time frame shall be automatically deemed canceled and subject to Seller's Cancellation terms listed below.

9. **Storage:** In the event goods are placed in storage at the request of the Purchaser, it is agreed that title will pass to the Purchaser upon placement into storage. Irrespective of anything herein to the contrary, Purchaser will be invoiced for the balance of the purchase price of the goods when they are placed in storage and payment will be due net 30 days. Risk of loss shall pass to Purchaser who shall be responsible for insuring the goods and Seller shall have no liability for loss or damage when the goods remain in its possession in storage. Purchaser further agrees that for any goods placed in storage, Seller will be provided a minimum of three weeks advanced notice before requested delivery out of storage and delivery will then be made subject to availability of carrier and transportation services. Payment of storage fees will be due prior to shipment from storage.

10. **EXPORT REGULATIONS:** Buyer acknowledges that if the items purchased hereunder are to be exported, they are subject to the U.S. Commerce and/or State Department Export Regulations. Buyer accepts full responsibility for and agrees to comply fully with such regulations, including obtaining export licenses and re-export permission unless otherwise agreed that Seller is to be exporter of record.

11. **CANCELLATION & TERMINATION:** Seller, in addition to all other rights and remedies under this order or at law, shall have the right to cancel and terminate Buyer's order for breach by Buyer including, but not limited to, if Buyer fails to make payment as due or if Buyer is adjudicated bankrupt, files a petition in bankruptcy, makes an assignment for the benefit of creditors or if action under any law for the relief of debtors is taken. In the event of cancellation and termination of this order for breach of the provisions hereof by Buyer, Seller shall have no further liability to Buyer and Seller shall not be liable for any costs of cancellation, special, incidental, or consequential damages (including punitive or exemplary damages) for any cause or of any nature whatsoever and such cancellation and termination. All cancellations or terminations by Seller for Buyer's breach shall be subject to the following cancellation or termination charges:

- 30% of order amount after order entry by Seller.
- Additional 15% of order amount after outline drawing completion / submission.
- If manufacturing has begun, charges will be based upon commitments for materials and percent completion in addition to the 45% for engineering and order entry.

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In the event Buyer cancels its order, Buyer shall be responsible to Seller for cancellation charges in the amounts set forth above in Cancellation & Termination paragraph 11 which Buyer shall pay Seller upon such cancellation.

12. **RESCHEDULING FEE:** Any extended delays by the customer/Purchaser which result in the loss of the scheduled production slot will be subject to a re-scheduling fee of 30% of the specific order value.

13. **PATENT INFRINGEMENT:** To the extent that the items ordered are manufactured to designs, drawings, specifications, or instructions furnished by Buyer, Buyer guarantees that the manufacture and sale or use of such items will not infringe upon any U.S., or foreign patents. Buyer further agrees to indemnify and hold harmless the Seller from any expense, loss, cost, damage, or liability of any kind which may be incurred because of any such infringement or alleged infringement of patent rights with respect to such items and to defend, at its own cost and expense, any action or claim in which such infringement is alleged. Buyer shall promptly notify Seller of any such action and shall provide Seller an opportunity, at Seller's option, to participate in any defense of such action or claim at Seller's own expense.

Seller shall hold Buyer harmless from costs actually incurred arising directly from the defense of any suit for infringement of any domestic or foreign patent by a Seller-manufactured item, provided Seller shall be given timely written notice of such suit and the option to replace the same, obtain a license, make other arrangements to avoid litigation or to defend the suit. No indemnification is offered or applicable for alleged infringement arising from the use of Seller's items in combination with other items supplied by Buyer or from compliance with drawings, specifications or instructions furnished by Buyer as described in the paragraph above. Further, no indemnification by Seller applies if this order is accepted under a U.S. government contract containing an Authorization and Consent Clause applicable hereto as prescribed by U.S. federal procurement laws and regulations.

14. **DISCLOSURE OF INFORMATION / PROPERTY OF SELLER:** Any information, suggestions or ideas transmitted by either Buyer or Seller in connection with performance hereunder are not to be regarded as secret or submitted in confidence unless it is stamped or marked **Confidential** prior to delivery by the disclosing party. Neither party shall use or disclose such property to any third party or any one not having a need to know, including employees, without the prior written consent from the disclosing party. Title to all tools, test equipment and facilities not furnished by Buyer or specifically paid for by Buyer as a separate line item under any order, shall remain with Seller. Further, Seller does not agree to submit to Buyer because of the Consideration paid under this order, any information, technical data, or drawings which are proprietary to Seller; nor does Seller agree to grant to Buyer any patent rights, title, or license without Seller's expressed prior written consent.

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15. **TAXES:** The purchase price of the Goods and Services does not include transportation taxes and sales, use, excise, value added, import or any similar tax or other governmental charge arising pursuant to or in connection with the sale, purchase, processing, delivery, storage, use, consumption, performance or transportation of the Goods and Services. Buyer is responsible for payment of any transportation taxes, and any present or future sales, use, excise, value added, import or any similar tax or other governmental charge applicable to the Agreement and to the sale and/or furnishing of the Goods and Services if a Sales Tax exemption form is not received by Seller from Buyer.

16. **EQUIPMENT WARRANTIES AND REMEDY:**

(A) For the period set forth below in this paragraph, Seller warrants that each newly manufactured item sold hereunder, and such portion of a repaired/refurbished item as has been repaired or replaced by Seller under this warranty, shall be free from defects in material, workmanship, or title at the time of shipment and shall perform during the warranty period in accordance with the specifications incorporated herein. Should any failure to conform to these warranties (excluding any defects in title) be discovered and brought to Seller's attention during the warranty period and be substantiated by examination at Seller's factory or by authorized field personnel, then (i) Seller shall correct such failure by, at Seller's exclusive option, repair or replacement of the nonconforming item or portion thereof with Buyer promptly making product available to be worked by Seller's personnel or agents without interference with no additional cost to the Seller; or (ii) Buyer making available product F.O.B. Seller's plant with Seller's written return authorization, at Seller's exclusive option, for repair or replacement of the nonconforming item or portion thereof. Buyer agrees that this remedy shall be its sole and exclusive remedy against Seller and that no other remedy shall be available or pursued by Buyer against Seller. In no event shall the Seller be liable for any costs or expenses in excess of those described in this paragraph and expressly excluding any liability or damages for special, incidental, or consequential damages.

The warranty period for newly manufactured items shall extend 12 months from the date of first energization or 18 months from the date of shipment whichever occurs first or unless a different warranty period is agreed to by Seller. The warranty period for repaired/refurbished articles shall extend for the unexpired warranty period of the item repaired or replaced or for 90 days, whichever is longer. This warranty shall be voided and not extend to any item that upon examination by Seller is found to have been subject to:

- (a) mishandling, misuse, negligence, or accident.
- (b) storage, installation, operation, testing, or maintenance that either was not in accordance with Seller's specifications, instructions, manuals, or otherwise improper, or contrary to industry standards.
- (c) tampering as evidenced for example by broken seals, damaged packaging containers, etc.

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- (d) testing of equipment above normally accepted field tests.
- (e) repair or alteration by anyone other than Seller without Seller's express advance written approval.
- (f) payment(s) not received per terms of sale.

Failure to promptly notify Seller in writing upon discovery of any non-conforming items during the warranty period shall void the warranty as to such items. Buyer shall describe any such non-conformity in detail, expressing its position as to return of any article under the remedy provided herein. No returns shall be accepted without prior approval by Seller. No back charges shall be accepted without the prior written consent of Seller's authorized representative. Where a failure cannot be corrected by Seller's reasonable efforts, the parties shall mutually agree upon an equitable adjustment in price. The preceding sets forth the exclusive remedies for claims (except as to title) based on defect whether in contract or tort (including negligence or strict liability) and however instituted. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SELLER DISCLAIMS IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

(B) SELLER'S INSTALLATION WARRANTY: Seller warrants that all work hereunder shall be performed in accordance with the standards employed by Seller in performing the same or similar services for itself. Seller disclaims any and all other representations or warranties expressed or implied including without limitation any representation or warranty that a) any unauthorized entry, burglary, theft, embezzlement, or any other crimes will be prevented by the equipment and/or installation thereof or that b) any particular purpose or standard of care intended or desired or any particular results to be achieved by Buyer through the installation and operation of the items to be delivered hereunder. Seller's installation services and installation warranty does not include or imply any assistance for system field troubleshooting and no back charges for such services shall be accepted without the prior written consent of Seller's authorized representative.

(C) EXTENDED WARRANTY PERIOD OPTION FOR CORE AND COIL: When purchased, the warranty period may be extended by the period specified in such purchase covering core and coils only against failure occurring with respect to normal operation and within the parameters for which the transformer was designed. For extended Warranty period, to ensure validity of Extended Warranty period coverage, Virginia Transformer requires Dissolved Gas Analysis (DGA) reports of the supplied unit to be provided every year for the period of extended warranty period coverage. The annual DGAs should be emailed to: FieldService@vatransformer.com. Failure to conduct annual DGAs and provide the reports to Seller may void the purchased extended warranty. Except for the extended time period all other provisions, terms, conditions, and limitations set forth above shall apply to the extended warranty period. In case of any disturbance in the system that causes the transformer to trip off-line, following information shall be forwarded to Virginia Transformer Corp within 48

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hours: Event summary with relevant data, Protection system data, Overvoltage conditions (If any), Fault data (if any) and offset timing with peak current value, Loading, Environmental and atmospheric conditions. Failure to timely provide this information may void the warranty.

(D) EXTENDED BUMPER TO BUMPER WARRANTY PERIOD OPTION: When purchased, the warranty for the extended period specified will cover the entire Transformer including core and coils and all associated transformer accessories against failure occurring with respect to normal operation and within the parameters for which the transformer was designed. Bumper to Bumper Warranty does not cover normal wear and tear including paint and gaskets beyond five years. For extended Warranty period, to ensure validity of Extended Warranty period coverage, Virginia Transformer requires Dissolved Gas Analysis (DGA) reports of the supplied unit to be provided every year for the period of extended warranty coverage, and the additional data as stated in Section 15(A) The annual DGA's should be emailed to: FieldService@vatransformer.com. Failure to conduct annual DGAs and provide the reports to Seller may void the purchased extended warranty. Except for the extended time period all other provisions, terms, conditions, and limitations set forth above shall apply to the extended warranty period.

(E) IN/OUT COVERAGE OPTION: When purchased, Seller will cover only the expenses to transport the transformer to a repair facility and back to site for warranty failures occurring within the period defined. Buyer will make transformer ready for shipment in the condition it was originally received per the Outline Drawing with clear and free access by Carrier. Craning, civil work, disconnection, and reconnection of the transformer, etc. is the responsibility of the Buyer.

17. **CONFIGURATION STATUS AND SUBSTITUTION OF MATERIALS:** Seller reserves the right to make substitution of materials without degrading the quality of product. Customer approval will be solicited when changes affect form, fit or function. Seller further reserves the right to discontinue any items without notice and to change or modify specifications at any time without incurring any obligation to incorporate new or modified features in components or products previously sold or shipped.

18. **LIMITATION OF LIABILITY:** Neither party shall be liable to the other for any incidental, indirect, special, punitive, or consequential damages regardless of whether liability would arise under contract or tort (including negligence and strict liability), warranty, indemnity, or otherwise. Neither party's liability on any claim for loss or damage arising out of this contract or from the performance or breach thereof shall exceed the price of the item giving rise to the claims for loss or damage in the event more than one item is included in this contract/order with distinct pricing being allocated to each item in arriving at the total contract/order price.

19. **HAZARDOUS BUSINESS:** Unless otherwise agreed in writing by an authorized representative of the Seller, goods sold hereunder are not intended for use in connection with any nuclear facility or any other hazardous activity such as commercial or military aircraft,

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missile installation, space exploration or other critical applications where failure of a single component could cause substantial harm to persons or property. If so used, Seller disclaims all liability for any nuclear damage contamination or other injury and Buyer shall indemnify and hold Seller harmless from such liability whether as a result of breach of contract, warranty, tort (including negligence) or other grounds. Neither Seller nor its suppliers shall have any liability to the Buyer or its insurers whether based on contract, warranty, tort (including negligence or strict liability) or other grounds for on-site damage to any property located at a nuclear facility.

20. **COMPLIANCE WITH LAW:** Buyer shall comply with all applicable Federal, State, municipal and local laws including but not limited to: laws concerning procurement integrity (particularly subsections 27(a), (d) and (f) of the Office of Federal Procurement Policy Act, as amended, 41 U.S.C. §423 and FAR 3.104-3; the Byrd Amendment (31 U.S.C. §1352); laws governing lobbying activities (2 U.S.C. §261 et seq., particularly § 267); laws prohibiting the giving of bribes (18 U.S.C. §201(b) or gratuities (18 U.S.C. §201 (c); the Foreign Corrupt Practices Act of 1977, as amended, (15 U.S.C. §78m, 78dd-1, 78dd-2, and 78ff). Buyer acknowledges that if items purchased are to be exported, Buyer has the complete responsibility and agrees to comply with all export laws and regulations of the U.S. Department of Commerce and of the U.S. State Department, or other governmental body. Seller hereby certifies that all goods sold hereunder which are produced or manufactured in the United States of America are products in compliance with the Fair Labor Standards Act of 1938 which shall be considered as satisfied by this certification.

21. **INSURANCE:** Buyer shall maintain its usual and customary insurance coverage for automobile, workmen's compensation and third-party liability claims during performance of this order and, if requested by Seller, name Seller an insured under its third-party liability coverage.

22. **NON-WAIVER:** The failure of Seller to enforce at any time any of the provisions of this order shall not constitute a waiver of such provisions or a waiver of the right of Seller to enforce any or all provisions. If any term or provisions of this order is held invalid or unenforceable by any court of competent jurisdiction, the remainder of this order shall continue to be valid and binding upon the parties unless performance thereof is rendered legally impractical and no longer fulfills the intention of the parties under this order.

23. **APPLICABLE LAW AND FORUM FOR RESOLUTION OF DISPUTES:** This contract shall be deemed to have been made and performed in, and shall be construed, interpreted and the rights and obligations of the parties determined by the law of the Commonwealth of Virginia excluding choice of law rules. Any dispute, controversy or claim arising out of or related to this contract, or any breach thereof, shall be resolved by binding arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules and judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. Such arbitration shall take place in Roanoke, Va. In case of non- performance by Buyer

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requiring arbitration or other legal action, Seller's costs, and reasonable attorney's fees of arbitration or other legal action shall be the responsibility of the Buyer

24. **PRICE SURCHARGE:** In the event any components such as, core steel, mineral oil, electricity, labor etc. are subject to abnormal price increases, and VTC/GTC is not able to otherwise mitigate these increases, during the period between the proposal date and the settlement date, VTC/GTC may pass along those specific incremental cost increases.

25. **ASSIGNMENT:** Except as otherwise expressly provided herein, no assignment of this order or Buyer's rights under this order shall be made by Buyer without the prior written agreement of the Seller. All amounts due to the Seller, including the assignment fee of \$10,000, must be paid to the Seller before any assignments will be granted. In addition, Buyer must provide financial and other information as requested by the Seller to support the ability of the assignee to pay future amounts that may become due. Seller reserves the right to deny any request for assignment.

26. **FORCE MAJEURE:** In addition to other liability limitation herein contained, seller shall not be responsible to the Buyer for any loss or damage due to failure or delay in performance or delivery of any of the items or services required under this order when such delay or failure is due to causes beyond the Seller's reasonable control. Such causes shall include without limitation fires, floods, epidemics, pandemics, quarantines, unusually severe weather, strikes, embargoes, wars, political strife, riots, delays in transportation, compliance with any regulation or directives of any national, state, or local municipal government or authority and unforeseeable shortages in fuel, power, materials, or labor. Seller shall not be liable for delays in delivery or performance, or for failure to manufacture, deliver or perform, due to an inability on account of a cause beyond the reasonable control of Seller to obtain necessary materials, components, services, or facilities. Seller will notify Buyer of any material delay excused by this clause and will specify the revised delivery date as soon as practicable. In the event of any such delay, there will be no termination and the date of delivery or of performance shall be extended for a period equal to the time lost by reason of the delay.

27. **ORDER TERMS EXCLUSIVE:** These Terms and Conditions together with Seller's Proposal and Order Acknowledgement constitute the entire and sole agreement between the parties concerning the subject matter of this order and the parties acknowledge and agree that none of them has made any representation with respect to the subject matter of this order or any representations including the execution and delivery hereof except as specifically set forth herein. Captions as used herein are for convenience or reference only and shall not be deemed or construed as in any way limiting or extending the meaning of any terms and conditions contained herein.

28. **CUSTOMER CONTRACTS:** Buyer will include in its contracts with its purchaser customers the warranty conditions and limitations Section 15 (Equipment Warranties and Remedy), and the limitations of liability provisions set out in Section 17 (Limitation of Liability). Buyer shall

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indemnify and hold harmless Seller from any liability to any customer or third parties as a result of the failure to include such conditions and limitations in its contracts with its purchaser customers.

29. **MODIFICATION:** This order may not be modified except by written instrument executed by the following authorized representatives; Director of Contracts, Director of Finance, Senior VP of Materials / MIS, Corporate Controller, President, and CEO.

30. **SECTION TITLES:** Section titles appearing in the General Terms and Conditions of Sale are for convenience only and shall not be construed as interpretations of text.

31. **APPENDICIES:** Any appendix or other terms and conditions of the Seller as may be attached hereto and/or identified herewith are hereby incorporated and made a part of these Terms and Conditions and all orders or contracts shall be subject to such additional terms and conditions which shall control over any inconsistency with the Terms and Conditions stated herein.

32. "Intellectual Property Rights" means all registered and unregistered intellectual property rights throughout the world, including rights in patents, copyrights, trademarks, trade secrets, designs, databases, and domain names and moral rights.

33. **Grant of License by VTC Upon** receipt of full payment for the Transformer and conditioned upon Customer not defaulting on its obligations under this Agreement, VTC hereby grants to Customer a perpetual, royalty-free license to use the Intellectual Property Rights of VTC which are incorporated in the Transformer. Such license is limited solely to the use of the Transformer by Customer for the purposes and at the location described in VTC's Proposal. Customer may only transfer this license to a third party upon first providing VTC with a written acknowledgment by such transferee of VTC's ownership of its Intellectual Property Rights contained in the Transformer.

34. If any purchase order submitted by the owner/purchaser contains or invokes terms or conditions other than this Contract or the Terms and Conditions agreed to between VTC and the owner/purchaser, then Seller/VTC may, without penalty, reject said terms and conditions on the purchase order by striking them out.



SMITHERS

QUALITY ASSESSMENTS

CERTIFICATE OF APPROVAL

This is to Certify that the Quality Management System of:

Virginia Transformer Corporation
220 Glade View Drive
Roanoke, VA 24012

(Page 1 of 2; see Appendix)

has been assessed and approved by Smithers Quality Assessments, Inc., to the following quality management system standards and requirements:

ISO 9001:2015 with Design

The Quality Management System is Applicable to:

Design, Manufacture and Commercialization of Transformers and Associated Equipment and Services for Electrical Power Systems.

Approval Certificate Number: 21.204.1

Original Approval: July 25, 2021

Current Certificate: July 25, 2021

Certificate Expires: July 24, 2024



The use of the accreditation mark indicates accreditation in respect of those activities covered by the above certificate number.

on behalf of SQA - J. Michael Hochschwender, CEO

The approval is subject to the company maintaining its system to the required standards which will be monitored by Smithers Quality Assessments, Inc., 121 S. Main St., Akron, Ohio 44308, USA



APPENDIX A
TO THE CERTIFICATE
OF REGISTRATION NO.: 21.204.1



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SMITHERS QUALITY ASSESSMENTS, INC.

Site:

Virginia Transformer Corporation
220 Glade View Drive
Roanoke, VA 24012

Scope of activities: Design, Manufacture and Commercialization of Transformers and Associated Equipment and Services for Electrical Power Systems.

The above site is certified by Smithers Quality Assessments, Inc. with regard to ISO 9001:2015 with Design. The following locations are included utilizing a Multi-site (with no Sampling) approach.

Location(s):

Virginia Transformer-Troutville
100 Smorgon Way
Troutville, VA 24175

Scope of activities: Manufacture and Commercialization of Transformers and Associated Equipment and Services for Electrical Power Systems. Includes Tank Fabrication.

Caravels, LLC dba Georgia Transformer Corp.
2769 Highway 21 South
Rincon, GA 31326

Scope of activities: Manufacture and Commercialization of Transformers and Associated Equipment and Services for Electrical Power Systems.

VTC West S.A. de C.V.
Ave. Homero #3307

Complejo Industrial Chihuahua
Chihuahua, Chihuahua 31136 Mexico

Scope of activities: Manufacture and Commercialization of Transformers and Associated Equipment.

VTCU Corp (a subsidiary of Virginia Transformer Corp.)
3770 Pole Line Road # 37
Pocatello, ID 83201

Scope of activities: Manufacture, Sale Service and Repair of Transformers.

Applicable Standard: ISO 9001:2015 with Design

This appendix applies only to those sites listed above. As other sites are assessed and approved, or as sites already approved are removed from active services, this appendix will be amended to show the current status. Sites not listed on this appendix shall not be viewed as approved.



Customer History Report

| QUOTE# | ITEM | QTEDATE | CUST NAME | CITY | ST | KVA | KV | LTC | QTY | APPLICATION |
|----------|------|-----------|--------------------------------|------------------|----|--------|--------|-----|-----|----------------------|
| M223604A | 1 | 9/9/2022 | ROUGH RIDER ELECTRIC COOP | DICKINSON | ND | 12000 | 115000 | N | 1 | POWER DIST. |
| M223605A | 1 | 9/9/2022 | NORTH ITASCA ELECTRIC COOP | BIGFORK | MN | 7500 | 69000 | N | 1 | POWER DIST. |
| M223606A | 1 | 9/9/2022 | POLK COUNTY RURAL PUBLIC POWER | STROMSBURG | NE | 10000 | 69000 | N | 1 | POWER DIST. |
| M223603A | 1 | 9/8/2022 | HOWARD GREELEY RURAL PUB PWR | COLUMBUS | NE | 5000 | 34500 | N | 1 | POWER DIST. |
| M223603A | 2 | 9/8/2022 | HOWARD GREELEY RURAL PUB PWR | COLUMBUS | NE | 7500 | 34500 | N | 1 | POWER DIST. |
| M223602A | 1 | 9/7/2022 | CITY UTILITIES | SPRINGFIELD | MO | 16800 | 67000 | N | 3 | POWER DIST. |
| G223504A | 1 | 9/2/2022 | AIKEN ELECTRIC COOPERATIVE, IN | AIKEN | SC | 20000 | 115000 | N | 1 | POWER DIST. |
| G223303A | 1 | 8/19/2022 | CITY OF ROCKY MOUNT, NC | ROCKY MOUNT | NC | 90000 | 230000 | Y | 1 | AUTOTRANSFORMER |
| M223303A | 1 | 8/19/2022 | HUNTSVILLE UTILITIES | HUNTSVILLE | AL | 15000 | 43800 | N | 6 | POWER DIST. |
| B223304A | 1 | 8/18/2022 | MAQUOKETA VALLEY ELEC CO-OP | ANAMOSA | IA | 5000 | 69000 | N | 2 | POWER DIST. |
| B223301A | 1 | 8/15/2022 | STEARNS ELECTRIC ASSOC | NEAR SAUK CENTER | MN | 10000 | 115000 | N | 1 | POWER DIST. |
| M223301A | 1 | 8/15/2022 | BRISTOL TENNESSEE ESSENTIAL SE | BRISTOL | TN | 150000 | 161700 | Y | 2 | AUTOTRANSFORMER |
| O223201A | 1 | 8/8/2022 | MORGAN COUNTY REA | FORT MORGAN | CO | 24000 | 69000 | N | 1 | POWER DIST. |
| B223103A | 1 | 8/3/2022 | PEOPLE'S COOPERATIVE SERVICES | ORONOCO | MN | 5000 | 69000 | Y | 1 | POWER DIST. |
| B223104A | 1 | 8/3/2022 | RUNESTONE ELECTRIC ASSN. | ALEXANDRIA | MN | 7500 | 115000 | N | 1 | POWER DIST. |
| M223001A | 1 | 7/28/2022 | CITY OF TUSKEGEE | TUSKEGEE | AL | 12000 | 110000 | N | 2 | POWER DIST. |
| G223003A | 1 | 7/26/2022 | CITY OF CONCORD | CONCORD | NH | 15000 | 101250 | N | 2 | POWER DIST. |
| B223001A | 1 | 7/25/2022 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 100000 | 230000 | N | 1 | POWER DIST. |
| B223003A | 1 | 7/25/2022 | GUTHRIE COUNTY REC | GUTHRIE COUNTY | IA | 5000 | 69000 | N | 1 | POWER DIST. |
| B223004A | 1 | 7/25/2022 | NORTHWEST IOWA POWER COOP | LE MARS | IA | 5600 | 67000 | N | 4 | POWER DIST. |
| G223001A | 1 | 7/25/2022 | STEBUEN REC | BATH | NY | 10000 | 34400 | N | 1 | POWER DIST. |
| G223002A | 1 | 7/25/2022 | STEBUEN REC | BATH | NY | 5000 | 34400 | N | 1 | POWER DIST. |
| O222801A | 1 | 7/14/2022 | OKLAHOMA MUNICIPAL POWER | EDMOND | OK | 7500 | 24940 | N | 1 | POWER DIST. |
| G222801A | 1 | 7/11/2022 | TOWN OF FRONT ROYAL | FRONT ROYAL | VA | 10000 | 34400 | N | 1 | POWER DIST. |
| B222702A | 1 | 7/8/2022 | ELKHORN RURAL PPD | BATTLE CREEK | NE | 10000 | 69000 | N | 1 | POWER DIST. |
| B222703A | 1 | 7/8/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| B222703B | 1 | 7/8/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| B222703C | 1 | 7/8/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| B222705A | 1 | 7/8/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 5600 | 69000 | N | 1 | POWER DIST. |
| B222701A | 1 | 7/7/2022 | SUN PRAIRIE WATER & LIGHT | SUN PRAIRIE | WI | 15000 | 67000 | N | 1 | POWER DIST. |
| G222701A | 1 | 7/7/2022 | MECKLENBURG ELECTRIC CO-OP | CHEASE CITY | VA | 20000 | 115000 | N | 2 | POWER DIST. |
| G222605A | 1 | 7/1/2022 | CEE-US | WEST COLUMBIA | SC | 20000 | 115000 | N | 1 | POWER DIST. |
| M222604A | 1 | 7/1/2022 | ARAB ELECTRIC COOPERATIVE, INC | ARAB | AL | 30000 | 161700 | N | 2 | POWER DIST. |
| G222603A | 1 | 6/29/2022 | BOROUGH OF PARK RIDGE PUBLIC | PARK RIDGE | NJ | 10000 | 26400 | N | 1 | POWER DIST. |
| B222601A | 1 | 6/28/2022 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 10000 | 115000 | N | 1 | POWER DIST. |
| G222602A | 1 | 6/28/2022 | NORTH GEORGIA EMC | DALTON | GA | 25000 | 115000 | N | 2 | POWER DIST. |
| O222601A | 1 | 6/28/2022 | PLATTE RIVER POWER AUTHORITY | FORT COLLINS | CO | 100000 | 230000 | Y | 2 | AUTOTRANSFORMER |
| M222601A | 1 | 6/27/2022 | CITY OF FLORENCE | FLORENCE | AL | 20000 | 43800 | N | 1 | POWER DIST. |
| M222602A | 1 | 6/27/2022 | CITY OF LINDSBORG | LINDSBORG | KS | 7000 | 34400 | N | 1 | POWER DIST. |
| M222603A | 1 | 6/27/2022 | NORTH ALABAMA ELECTRIC COOPERA | STEVENSON | AL | 18000 | 161700 | N | 2 | POWER DIST. |
| B222501A | 1 | 6/21/2022 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 10000 | 69000 | N | 1 | POWER DIST. |
| O222501A | 1 | 6/21/2022 | TECHLINE AUSTIN | AUSTIN | TX | 15000 | 138000 | N | 1 | POWER DIST. |
| G222502A | 1 | 6/20/2022 | COMMISSION OF PUBLIC WORKS | LAURENS | SC | 20000 | 100000 | N | 2 | POWER DIST. |
| O222403A | 1 | 6/17/2022 | CALPINE CORPORATION | SACRAMENTO | CA | 3750 | 13800 | N | 1 | POWER DIST. |
| O222403C | 1 | 6/17/2022 | CALPINE CORPORATION | SACRAMENTO | CA | 15800 | 138000 | N | 1 | POWER DIST. |
| O222403D | 1 | 6/17/2022 | CALPINE CORPORATION | SACRAMENTO | CA | 12000 | 18000 | N | 1 | UNIT AUXILIARY TRANS |
| O222403E | 1 | 6/17/2022 | CALPINE CORPORATION | SACRAMENTO | CA | 2500 | 13800 | N | 1 | POWER DIST. |
| M222401A | 1 | 6/15/2022 | CITY OF ATHENS UTILITIES | ATHENS | TN | 15000 | 46000 | N | 1 | POWER DIST. |
| M222402A | 1 | 6/15/2022 | CITY OF HUNTSVILLE, SWDA | HUNTSVILLE | AL | 12000 | 46000 | N | 1 | GENERATOR STEP UP |
| M222403A | 1 | 6/15/2022 | HUNTSVILLE UTILITIES | HUNTSVILLE | AL | 15000 | 43800 | N | 2 | STEP UP |
| O222401A | 2 | 6/15/2022 | LOWER COLORADO RIVER AUTHORITY | BASTROP | TX | 1000 | 69000 | N | 4 | POWER DIST. |
| M222304A | 1 | 6/10/2022 | ORRVILLE UTILITIES | ORRVILLE | OH | 50000 | 138000 | N | 2 | POWER DIST. |
| M222304B | 1 | 6/10/2022 | ORRVILLE UTILITIES | ORRVILLE | OH | 30000 | 138000 | N | 1 | POWER DIST. |
| M222305A | 1 | 6/10/2022 | WEST MEMPHIS UTILITIES | MEMPHIS | AZ | 30000 | 161000 | Y | 1 | POWER DIST. |
| M222302A | 1 | 6/9/2022 | DUCK RIVER ELECTRIC MEMBERSHIP | SHELBYVILLE | TN | 25000 | 161700 | N | 1 | POWER DIST. |
| B222302A | 1 | 6/7/2022 | ELKHORN RURAL PPD | BATTLE CREEK | NE | 10000 | 34500 | N | 1 | POWER DIST. |
| B222301A | 1 | 6/6/2022 | MINNESOTA VALLEY COOPERATIVE | MONTEVIDEO | MN | 10000 | 69000 | N | 1 | POWER DIST. |
| G222202A | 1 | 6/3/2022 | CEE-US | WEST COLUMBIA | SC | 15000 | 67000 | N | 1 | POWER DIST. |
| G222202B | 1 | 6/3/2022 | CEE-US | WEST COLUMBIA | SC | 15000 | 67000 | N | 1 | POWER DIST. |

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| G222202C | 1 | 6/3/2022 | CEE-US | WEST COLUMBIA | SC | 15000 | 67000 | N | 1 | POWER DIST. |
| B222201A | 1 | 6/1/2022 | GRAYS HARBOR PUD NO. 1 | ABERDEEN | WA | 15000 | 115000 | N | 1 | POWER DIST. |
| G222201A | 1 | 6/1/2022 | NEW HAMPSHIRE ELECTRIC CO-OP | PLYMOUTH | NH | 12000 | 34500 | N | 1 | POWER DIST. |
| G222102A | 1 | 5/27/2022 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 20000 | 230000 | N | 2 | POWER DIST. |
| M222101A | 1 | 5/27/2022 | SWEETWATER UTILITIES BOARD | SWEETWATER | TN | 25000 | 161700 | N | 2 | POWER DIST. |
| M222102A | 1 | 5/27/2022 | KNOXVILLE UTILITY BOARD | KNOXVILLE | TN | 15000 | 66000 | N | 2 | POWER DIST. |
| M222103A | 1 | 5/27/2022 | COLUMBIA POWER & WATER SYSTEMS | COLUMBIA | TN | 30000 | 161700 | N | 2 | POWER DIST. |
| G222101A | 1 | 5/25/2022 | GEORGIA TRANSMISSION CORP | TUCKER | GA | 8000 | 115000 | N | 1 | POWER DIST. |
| B222101A | 1 | 5/24/2022 | COPPER VALLEY ELE. ASSN. | GLENN ALLEN | AK | 5000 | 24940 | N | 1 | POWER DIST. |
| O221602A | 1 | 5/18/2022 | YAMPA VALLEY | STEAMBOAT SPRINGS | CO | 15000 | 67000 | N | 1 | POWER DIST. |
| B221904A | 1 | 5/12/2022 | FLATHEAD ELECTRIC CO-OP INC | KALISPELL | MT | 10000 | 34500 | N | 1 | POWER DIST. |
| M221902A | 1 | 5/10/2022 | VICTORY ELECTRIC COOP ASSOCIAT | DODGE CITY | KS | 18000 | 115000 | N | 1 | AUTOTRANSFORMER |
| B221901A | 1 | 5/9/2022 | ROCK ENERGY COOPERATIVE | JANESVILLE | WI | 12000 | 69000 | N | 1 | POWER DIST. |
| M221803A | 1 | 5/4/2022 | MUSCLE SHOALS ELECTRIC BOARD | MUSCLE SHOALS | AL | 22500 | 161000 | N | 1 | POWER DIST. |
| M221804A | 1 | 5/4/2022 | MIDWEST ENERGY COOPERATIVE | CASSOPOLIS | MI | 10000 | 67000 | N | 1 | POWER DIST. |
| B221801A | 1 | 5/3/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| G221802A | 1 | 5/2/2022 | CEE-US | WEST COLUMBIA | SC | 15000 | 115000 | N | 1 | POWER DIST. |
| G221803A | 1 | 5/2/2022 | MECKLENBURG ELECTRIC CO-OP | CHASE CITY | VA | 15000 | 115000 | N | 1 | POWER DIST. |
| B221703A | 1 | 4/27/2022 | MADELIA MUNICIPAL LIGHT&POWER | MADELIA | MN | 15000 | 67000 | N | 1 | POWER DIST. |
| B221703A | 2 | 4/27/2022 | MADELIA MUNICIPAL LIGHT&POWER | MADELIA | MN | 10000 | 12470 | N | 1 | POWER DIST. |
| B221701A | 1 | 4/26/2022 | COLUMBIA RIVER PUD | DEER ISLAND | OR | 15000 | 115000 | N | 1 | POWER DIST. |
| B221702A | 1 | 4/26/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 115000 | N | 1 | POWER DIST. |
| G221702A | 1 | 4/26/2022 | BOROUGH OF LEHIGHTON | LEHIGHTON | PA | 12000 | 67000 | N | 1 | POWER DIST. |
| M221701A | 1 | 4/26/2022 | NORTHEAST MISSOURI ELECTRIC | PALMYRA | MO | 15000 | 67000 | Y | 1 | POWER DIST. |
| M221702A | 1 | 4/26/2022 | GREENVILLE LIGHT & POWER SYSTE | GREENVILLE | TN | 12000 | 68800 | N | 1 | POWER DIST. |
| B221602A | 1 | 4/20/2022 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| B221602B | 1 | 4/20/2022 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| G221604A | 1 | 4/20/2022 | GEORGIA TRANSMISSION CORP | TUCKER | GA | 15000 | 115500 | N | 1 | POWER DIST. |
| G221604A | 2 | 4/20/2022 | GEORGIA TRANSMISSION CORP | TUCKER | GA | 15000 | 115500 | N | 1 | POWER DIST. |
| G221603A | 1 | 4/19/2022 | GREAT RIVER HYDRO | PORTSMOUTH | NH | 7500 | 69000 | N | 1 | GENERATOR STEP UP |
| M221602A | 1 | 4/18/2022 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 10000 | 69000 | N | 2 | POWER DIST. |
| M221602B | 1 | 4/18/2022 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 12000 | 69000 | N | 1 | POWER DIST. |
| M221602C | 1 | 4/18/2022 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 5000 | 138000 | N | 1 | POWER DIST. |
| M221603A | 1 | 4/18/2022 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 7000 | 34500 | N | 1 | GENERATOR STEP UP |
| M221603B | 1 | 4/18/2022 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 7000 | 34500 | N | 1 | GENERATOR STEP UP |
| O221601A | 1 | 4/18/2022 | PETRELLI ELECTRIC | AQUA DULCE | CA | 33600 | 66000 | N | 2 | POWER DIST. |
| O213201A | 1 | 4/15/2022 | GILA RIVER INDIAN AUTHORITY | CHANDLER | AZ | 15000 | 69000 | N | 1 | POWER DIST. |
| G221501A | 1 | 4/14/2022 | NORTHERN NECK ELECTRIC COOPERA | WARSAW | VA | 10000 | 34500 | N | 1 | POWER DIST. |
| G221501B | 1 | 4/14/2022 | NORTHERN NECK ELECTRIC COOPERA | WARSAW | VA | 25000 | 230000 | N | 1 | POWER DIST. |
| G221401A | 1 | 4/8/2022 | RAPPAHANNOCK ELEC COOPERATIVE | FREDERICKSBURG | VA | 10000 | 34500 | N | 1 | POWER DIST. |
| G221401B | 1 | 4/8/2022 | RAPPAHANNOCK ELEC COOPERATIVE | FREDERICKSBURG | VA | 15000 | 34500 | N | 1 | POWER DIST. |
| G221401C | 1 | 4/8/2022 | RAPPAHANNOCK ELEC COOPERATIVE | FREDERICKSBURG | VA | 15000 | 34500 | N | 1 | POWER DIST. |
| O221405A | 1 | 4/8/2022 | RITA BLANCA ELECTRIC CO-OP | DALHART | TX | 15000 | 115000 | N | 1 | POWER DIST. |
| G221302A | 1 | 4/1/2022 | CITY OF DANVILLE - PURCH. DEPT | DANVILLE | VA | 15000 | 67000 | Y | 1 | POWER DIST. |
| G221302B | 1 | 4/1/2022 | CITY OF DANVILLE - PURCH. DEPT | DANVILLE | VA | 15000 | 67000 | Y | 1 | POWER DIST. |
| B221303A | 1 | 3/31/2022 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| B221303B | 1 | 3/31/2022 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| B221304A | 1 | 3/31/2022 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| B221305A | 1 | 3/31/2022 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 30000 | 115000 | N | 1 | POWER DIST. |
| B221301A | 1 | 3/29/2022 | HIGH WEST ENERGY | PINE BLUFFS | WY | 10000 | 34500 | N | 1 | POWER DIST. |
| M221301A | 1 | 3/29/2022 | GUERNSEY-MUSKINGUM ELEC. COOP | NEW CONCORD | OH | 12000 | 69000 | N | 1 | POWER DIST. |
| B221207A | 1 | 3/25/2022 | PAYSON CITY LTC POWER TRANS. | PAYSON | UT | 12000 | 46000 | N | 1 | POWER DIST. |
| B221206A | 1 | 3/24/2022 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| B221206B | 1 | 3/24/2022 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| G221201A | 1 | 3/23/2022 | CRISP COUNTY POWER COMMISSION | CORDELE | GA | 12000 | 43800 | N | 1 | POWER DIST. |
| B221202A | 1 | 3/22/2022 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 1000 | 68800 | N | 1 | POWER DIST. |
| B221203A | 1 | 3/22/2022 | POWDER RIVER ENERGY CORP | GILLETTE | WY | 15000 | 69000 | N | 1 | POWER DIST. |
| B221204A | 1 | 3/22/2022 | LAKE REGION ELECTRIC CO-OP | PELICAN RAPIDS | MN | 5000 | 43800 | N | 1 | POWER DIST. |
| B221205A | 1 | 3/22/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 16800 | 115000 | N | 1 | POWER DIST. |
| O221201A | 1 | 3/22/2022 | BLUEBONNET ELECTRIC COOP., INC | GIDDINGS | TX | 18000 | 138000 | N | 1 | POWER DIST. |
| M221101A | 1 | 3/18/2022 | HANCOCK-WOOD ELECTRIC CO-OP | FINDLAY | OH | 12000 | 69000 | N | 1 | POWER DIST. |

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| B221104A | 1 | 3/16/2022 | NORTHWEST IOWA POWER COOP | LE MARS | IA | 12000 | 67000 | N | 1 | POWER DIST. |
| B221003A | 1 | 3/11/2022 | MISSOULA ELECTRIC COOP | SEELY LAKE | MT | 15000 | 100000 | N | 1 | POWER DIST. |
| B221004A | 1 | 3/11/2022 | YELLOWSTONE VALLEY ELECTRIC | HUNTLEY | MT | 10000 | 69000 | N | 1 | POWER DIST. |
| G221003A | 1 | 3/11/2022 | GLADES ELECTRIC COOPERATIVE | MOORE HAVEN | FL | 15000 | 69000 | N | 1 | POWER DIST. |
| M221002A | 1 | 3/11/2022 | CARROLL-WHITE REMC | MONTICELLO | IN | 12000 | 69000 | N | 1 | POWER DIST. |
| B221001A | 1 | 3/7/2022 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 100000 | 230000 | N | 1 | POWER DIST. |
| G221001A | 1 | 3/7/2022 | CITY OF HIGH POINT | HIGH POINT | NC | 22400 | 100000 | N | 1 | POWER DIST. |
| M221001A | 1 | 3/7/2022 | CITY OF SOUTH HAVEN | SOUTH HAVEN | MI | 15000 | 67000 | N | 1 | POWER DIST. |
| B220901A | 1 | 2/28/2022 | CITY OF RICHLAND | RICHLAND | WA | 15000 | 115000 | N | 2 | POWER DIST. |
| G220901A | 1 | 2/28/2022 | RAPPAHANNOCK ELEC COOPERATIVE | FREDERICKSBURG | VA | 20000 | 115000 | N | 2 | POWER DIST. |
| G220901B | 1 | 2/28/2022 | RAPPAHANNOCK ELEC COOPERATIVE | FREDERICKSBURG | VA | 30000 | 115000 | N | 3 | POWER DIST. |
| B220802A | 1 | 2/24/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| B220802B | 1 | 2/24/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| M220802A | 1 | 2/24/2022 | FORKED DEER ELECTRIC COOPERATIVE | HALLS | TN | 12000 | 68800 | N | 4 | POWER DIST. |
| B220801A | 1 | 2/22/2022 | CITY OF SEWARD | SEWAARD | AK | 4620 | 115000 | N | 1 | POWER DIST. |
| B220702A | 1 | 2/18/2022 | NORTHWEST IOWA POWER COOP | LE MARS | IA | 5600 | 67000 | N | 2 | POWER DIST. |
| B220702B | 1 | 2/18/2022 | NORTHWEST IOWA POWER COOP | LE MARS | IA | 5600 | 67000 | N | 1 | POWER DIST. |
| O220702A | 1 | 2/18/2022 | BIG COUNTRY ELECTRIC COOP | ROBY | TX | 12000 | 138000 | N | 1 | POWER DIST. |
| O220702B | 1 | 2/18/2022 | BIG COUNTRY ELECTRIC COOP | ROBY | TX | 12000 | 138000 | N | 1 | POWER DIST. |
| O220702C | 1 | 2/18/2022 | BIG COUNTRY ELECTRIC COOP | ROBY | TX | 12000 | 138000 | N | 1 | POWER DIST. |
| M220701A | 1 | 2/17/2022 | SLEMCO | LAFAYETT | LA | 20000 | 134000 | Y | 1 | POWER DIST. |
| G220701A | 1 | 2/16/2022 | NEW HAMPSHIRE ELECTRIC CO-OP | PLYMOUTH | NH | 11200 | 34500 | N | 1 | POWER DIST. |
| O220701A | 1 | 2/14/2022 | CITY OF TONKAWA OKLAHOMA | TONKAWA | OK | 12000 | 138000 | N | 1 | POWER DIST. |
| B220604A | 1 | 2/11/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| B220601A | 1 | 2/9/2022 | CEDAR KNOX PUBLIC PWR DISTRICT | HARTINGTON | NE | 5000 | 69000 | N | 1 | POWER DIST. |
| B220603A | 1 | 2/9/2022 | CITY OF SEWARD | SEWAARD | AK | 15000 | 69000 | N | 2 | POWER DIST. |
| O220602B | 1 | 2/9/2022 | TEXAS ELECTRIC COOPERATIVES | AUSTIN | TX | 10000 | 138000 | N | 1 | POWER DIST. |
| G220602A | 1 | 2/8/2022 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 12000 | 34500 | N | 1 | POWER DIST. |
| M220602A | 1 | 2/8/2022 | NORTHEAST MISSOURI ELECTRIC | PALMYRA | MO | 5000 | 69000 | N | 2 | POWER DIST. |
| M220603A | 1 | 2/8/2022 | MID-OHIO ENERGY COOP. | KENTON | OH | 4000 | 69000 | N | 1 | POWER DIST. |
| M220504A | 1 | 2/2/2022 | CENTRAL ALABAMA ELECTRIC CO-OP | PRATTVILLE | AL | 15000 | 112750 | N | 1 | POWER DIST. |
| M220505A | 1 | 2/2/2022 | CENTRAL ALABAMA ELECTRIC CO-OP | PRATTVILLE | AL | 15000 | 112750 | N | 1 | POWER DIST. |
| M220502A | 1 | 1/31/2022 | THE ENERGY COOPERATIVE, OH | UTICA | OH | 12000 | 138000 | N | 1 | POWER DIST. |
| M220503A | 1 | 1/31/2022 | VINTON PUBLIC POWER AUTHORITY | VINTON | LA | 10000 | 138000 | N | 1 | POWER DIST. |
| B220407A | 1 | 1/28/2022 | CITY OF GERING | GERING | NE | 10000 | 34500 | N | 1 | POWER DIST. |
| G220401A | 1 | 1/28/2022 | GEORGIA TRANSMISSION CORP | TUCKER | GA | 12000 | 43800 | N | 1 | POWER DIST. |
| B220406A | 1 | 1/27/2022 | CITY OF ST. GEORGE | ST. GEORGE | UT | 15000 | 67000 | N | 2 | POWER DIST. |
| B220404A | 1 | 1/25/2022 | SOUTHERN PUBLIC POWER DISTRICT | GRAND ISLAND | NE | 7500 | 67000 | N | 8 | POWER DIST. |
| M220402A | 1 | 1/25/2022 | VILLAGE OF PIONEER | PIONEER | OH | 15000 | 67000 | N | 2 | POWER DIST. |
| B220401A | 1 | 1/24/2022 | COOPERATIVE LIGHT & POWER ASSO | ALEXANDRIA | MN | 10000 | 115000 | N | 1 | POWER DIST. |
| B220402A | 1 | 1/24/2022 | MAQUOKETA VALLEY ELEC CO-OP | ANAMOSA | IA | 10000 | 69000 | N | 1 | POWER DIST. |
| B220403A | 1 | 1/24/2022 | ROUGH RIDER ELECTRIC COOP | DICKINSON | ND | 12000 | 115000 | N | 1 | POWER DIST. |
| M220401A | 1 | 1/24/2022 | CITIZENS ELECTRIC CORP | PERRYVILLE | MO | 10000 | 67000 | N | 2 | POWER DIST. |
| O220401A | 1 | 1/24/2022 | LYNTEGAR ELECTRIC COOP | TAHOKA | TX | 10000 | 138000 | N | 1 | POWER DIST. |
| B220301A | 1 | 1/20/2022 | BENTON PUD | KENNEWICK | WA | 12000 | 115000 | N | 1 | POWER DIST. |
| B220301A | 2 | 1/20/2022 | BENTON PUD | KENNEWICK | WA | 10000 | 115000 | N | 1 | POWER DIST. |
| M220301A | 1 | 1/18/2022 | CITY OF JACKSON | JACKSON | OH | 20000 | 34500 | N | 1 | POWER DIST. |
| G221804A | 1 | 1/14/2022 | OGLETHORPE POWER CORP | ROME | GA | 835 | 18000 | N | 1 | DRIVE DUTY |
| G220201A | 1 | 1/13/2022 | CENTRAL VIRGINIA ELECTRIC COOP | ARRINGTON | VA | 5000 | 24940 | N | 2 | POWER DIST. |
| M220201A | 1 | 1/11/2022 | CITY OF CALIFORNIA | CALIFORNIA | MO | 5000 | 34500 | N | 2 | POWER DIST. |
| O220201A | 1 | 1/11/2022 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 21000 | 69000 | N | 1 | POWER DIST. |
| M181402F | 1 | 1/5/2022 | CITY OF EDMOND | EDMOND | OK | 15000 | 138000 | Y | 1 | POWER DIST. |
| B220101A | 1 | 1/4/2022 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| M215103A | 1 | 12/22/2021 | JACKSON PURCHASE ENERGY CORP. | PADUCAH | KY | 15000 | 69000 | N | 1 | POWER DIST. |
| M215101A | 1 | 12/21/2021 | LENOIR CITY UTILITIES BOARD | LENOIR CITY | TN | 18000 | 69000 | N | 2 | POWER DIST. |
| M215101A | 2 | 12/21/2021 | LENOIR CITY UTILITIES BOARD | LENOIR CITY | TN | 18000 | 161700 | N | 1 | POWER DIST. |
| M215101A | 3 | 12/21/2021 | LENOIR CITY UTILITIES BOARD | LENOIR CITY | TN | 25000 | 161700 | N | 1 | POWER DIST. |
| M215102A | 1 | 12/21/2021 | CITY OF HOLLAND BOARD OF PUBLI | HOLLAND | MI | 25000 | 138000 | N | 3 | POWER DIST. |
| G215101A | 1 | 12/20/2021 | AIKEN ELECTRIC COOPERATIVE, IN | AIKEN | SC | 20000 | 115000 | N | 2 | POWER DIST. |
| G215101B | 1 | 12/20/2021 | AIKEN ELECTRIC COOPERATIVE, IN | AIKEN | SC | 20000 | 115000 | N | 1 | POWER DIST. |
| O215101A | 1 | 12/20/2021 | TEXAS ELECTRIC COOPERATIVES | AUSTIN | TX | 20000 | 115000 | N | 2 | POWER DIST. |

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| B215003A | 1 | 12/15/2021 | COPPER VALLEY ELE. ASSN. | GLENN ALLEN | AK | 12000 | 24940 | N | 2 | GENERATOR STEP UP |
| B215001A | 1 | 12/14/2021 | CITY OF ELLENSBURG | ELLENSBURG | WA | 20000 | 115000 | N | 1 | POWER DIST. |
| B215002A | 1 | 12/14/2021 | BENTON PUD | KENNEWICK | WA | 2000 | 12470 | Y | 2 | VOLTAGE REGULATOR |
| M214802A | 1 | 12/2/2021 | MOUNTAIN ELEC. COOP | MOUNTAIN CITY | TN | 15000 | 161000 | N | 2 | POWER DIST. |
| M214802A | 2 | 12/2/2021 | MOUNTAIN ELEC. COOP | MOUNTAIN CITY | TN | 20000 | 161000 | N | 2 | POWER DIST. |
| B214801A | 1 | 11/30/2021 | SHAKOPEE PUBLIC UTILITIES COMM | SHAKOPEE | MN | 15000 | 115000 | Y | 1 | POWER DIST. |
| B214802A | 1 | 11/30/2021 | BARRON ELECTRIC COOPERATIVE | BARRON | WI | 10000 | 67000 | N | 1 | POWER DIST. |
| M214801A | 1 | 11/29/2021 | CITY OF MARSHALL | MARSHALL | MI | 20000 | 138000 | N | 2 | POWER DIST. |
| M214701A | 1 | 11/24/2021 | BLACK WARRIOR ELECTRIC | DEMOPOLIS | AL | 10000 | 43784 | N | 1 | POWER DIST. |
| M214602A | 1 | 11/19/2021 | HOOSIER ENERGY REC,INC | BLOOMINGTON | IN | 12000 | 69000 | N | 3 | POWER DIST. |
| O214601A | 1 | 11/19/2021 | CITY OF COLLEGE STATION | COLLEGE STATION | TX | 25000 | 134000 | N | 1 | POWER DIST. |
| B214602A | 1 | 11/17/2021 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 10000 | 43800 | N | 1 | POWER DIST. |
| B214603A | 1 | 11/17/2021 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 5000 | 43800 | N | 3 | POWER DIST. |
| G214601B | 1 | 11/17/2021 | JOE WHEELER EMC | TRINITY | AL | 15000 | 46000 | N | 2 | POWER DIST. |
| B214506A | 1 | 11/11/2021 | NORTHWEST IOWA POWER COOP | LE MARS | IA | 5600 | 67000 | N | 4 | POWER DIST. |
| G214503A | 1 | 11/11/2021 | BOROUGH OF SCHUYLKILL HAVEN | SCHUYLKILL HAVEN | PA | 12000 | 67000 | N | 1 | POWER DIST. |
| G214504A | 1 | 11/11/2021 | JACKSON ENERGY AUTHORITY | JACKSON | TN | 20000 | 46000 | N | 2 | POWER DIST. |
| B214505A | 1 | 11/10/2021 | MOUNT HOREB UTILITIES | MOUNT HOREB | WI | 10000 | 67000 | N | 1 | POWER DIST. |
| B214501A | 1 | 11/9/2021 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| B214502A | 1 | 11/9/2021 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 100000 | 230000 | N | 2 | POWER DIST. |
| B214503A | 1 | 11/9/2021 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 5000 | 43800 | N | 2 | POWER DIST. |
| B214504A | 1 | 11/9/2021 | CORN BELT POWER COOPERATIVE | HUMBOLDT | IA | 1667 | 67000 | N | 9 | POWER DIST. |
| G214402A | 1 | 11/5/2021 | CITY OF HOMESTEAD | HOMESTEAD | FL | 24000 | 138000 | Y | 2 | POWER DIST. |
| B214402A | 1 | 11/3/2021 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 5000 | 68800 | N | 4 | POWER DIST. |
| M214402A | 1 | 11/3/2021 | BLUEBONNET ELECTRIC COOP., INC | GIDDINGS | TX | 30000 | 138000 | N | 1 | POWER DIST. |
| B214304A | 1 | 10/29/2021 | GARKANE ENERGY COOPERATIVE | LOA | UT | 10000 | 67000 | N | 1 | POWER DIST. |
| B214301A | 1 | 10/25/2021 | NOBLES COOPERATIVE ELECTRIC | WORTHINGTON | MN | 7500 | 69000 | N | 1 | POWER DIST. |
| B214302A | 1 | 10/25/2021 | FEDERATED RURAL ELECTRIC ASSC | JACKSON | MN | 7500 | 69000 | N | 1 | POWER DIST. |
| M214204A | 1 | 10/21/2021 | MIDWEST ENERGY COOPERATIVE | CASSOPOLIS | MI | 10000 | 138000 | N | 1 | POWER DIST. |
| M214202A | 1 | 10/20/2021 | VILLAGE OF CLINTON | CLINTON | MI | 10000 | 39490 | N | 1 | POWER DIST. |
| O214202B | 1 | 10/20/2021 | CITY OF FORT MORGAN | FORT MORGAN | CO | 20000 | 115000 | N | 1 | POWER DIST. |
| O214201A | 1 | 10/18/2021 | GOLDEN VALLEY ELECTRIC ASSOC | FAIRBANKS | AK | 2500 | 24940 | N | 1 | AUTOTRANSFORMER |
| O214102A | 1 | 10/12/2021 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 8200 | 69000 | N | 1 | POWER DIST. |
| O214002A | 1 | 10/5/2021 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 20000 | 69000 | N | 1 | POWER DIST. |
| B213901A | 1 | 10/1/2021 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 10000 | 68800 | N | 1 | POWER DIST. |
| G213902A | 1 | 9/30/2021 | CITY OF CONCORD, NC | CONCORD | NC | 22400 | 101250 | N | 2 | POWER DIST. |
| M213902A | 1 | 9/28/2021 | CITY OF MADISONVILLE ELEC DEPT | MADISONVILLE | KY | 12000 | 67000 | N | 1 | POWER DIST. |
| O213901A | 1 | 9/27/2021 | MODERN ELECTRIC WATER COMPANY | SPAKANE VALLEY | WA | 15000 | 115000 | N | 1 | POWER DIST. |
| B213805A | 1 | 9/24/2021 | VIRGINIA PUBLIC UTILITIES | VIRGINIA | MN | 15000 | 22860 | N | 1 | POWER DIST. |
| B213803A | 1 | 9/22/2021 | OCONTO ELECTRIC COOPERATIVE | OCONTO FALLS | WI | 10000 | 34500 | N | 1 | POWER DIST. |
| B213802A | 1 | 9/21/2021 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 7500 | 34500 | N | 2 | POWER DIST. |
| B213802B | 1 | 9/21/2021 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 7500 | 34500 | N | 2 | POWER DIST. |
| B213801A | 1 | 9/20/2021 | VALLEY CITY PUBLIC WORKS | VALLEY CITY | ND | 15000 | 67000 | N | 1 | POWER DIST. |
| G213801A | 1 | 9/20/2021 | TOWN OF HUNTERSVILLE | HUNTERSVILLE | NC | 30000 | 100000 | N | 1 | POWER DIST. |
| G213801A | 2 | 9/20/2021 | TOWN OF HUNTERSVILLE | HUNTERSVILLE | NC | 30000 | 100000 | N | 1 | POWER DIST. |
| G213701A | 1 | 9/16/2021 | DELAWARE ELECTRIC CO-OP INC | GREENWOOD | DE | 20000 | 69000 | N | 1 | POWER DIST. |
| O213701A | 1 | 9/13/2021 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 10000 | 115000 | N | 1 | POWER DIST. |
| O213701A | 2 | 9/13/2021 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 10000 | 115000 | N | 1 | POWER DIST. |
| O213701A | 3 | 9/13/2021 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 10000 | 24940 | N | 1 | STEP UP |
| O213601A | 1 | 9/10/2021 | EUGENE WATER & ELECTRIC BOARD | EUGENE | OR | 1500 | 12470 | Y | 2 | VOLTAGE REGULATOR |
| G213601A | 1 | 9/8/2021 | SMECO | BOSTON | MD | 22400 | 67000 | N | 3 | POWER DIST. |
| M213601A | 1 | 9/7/2021 | CITIZENS ELECTRIC CORP | PERRYVILLE | MO | 5000 | 67000 | N | 1 | POWER DIST. |
| M213601B | 1 | 9/7/2021 | CITIZENS ELECTRIC CORP | PERRYVILLE | MO | 5000 | 67000 | N | 1 | POWER DIST. |
| G213501A | 1 | 9/3/2021 | DELAWARE MUNI ELE CORP | SMYRNA | DE | 60000 | 138000 | Y | 1 | POWER DIST. |
| B213402A | 1 | 8/24/2021 | DURANT MUNICIPAL ELECT UTILITY | DURANT | IA | 5000 | 69000 | N | 1 | POWER DIST. |
| O213401A | 1 | 8/23/2021 | YAMPA VALLEY | STEAMBOAT SPRINGS | CO | 15000 | 67000 | N | 1 | POWER DIST. |
| G213301A | 1 | 8/20/2021 | HUNTSVILLE UTILITIES | HUNTSVILLE | AL | 15000 | 43800 | N | 2 | POWER DIST. |
| B213301A | 1 | 8/18/2021 | NOBLES COOPERATIVE ELECTRIC | WORTHINGTON | MN | 3750 | 69000 | N | 1 | POWER DIST. |
| B213301A | 2 | 8/18/2021 | NOBLES COOPERATIVE ELECTRIC | WORTHINGTON | MN | 5000 | 69000 | N | 1 | POWER DIST. |
| B213205A | 1 | 8/13/2021 | NEW GLARUS LIGHT & WATER | NEW GLARUS | WI | 12000 | 138000 | N | 1 | POWER DIST. |
| G213203A | 1 | 8/12/2021 | MECKLENBURG ELECTRIC CO-OP | CHASE CITY | VA | 15000 | 115000 | N | 1 | POWER DIST. |

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| M213201A | 1 | 8/12/2021 | TAMMANY ELECTRIC CO-OP,INC. | FRANKLINTON | LA | 20000 | 67000 | N | 1 | POWER DIST. |
| B213201A | 1 | 8/11/2021 | GUTHRIE COUNTY REC | GUTHRIE COUNTY | IA | 5000 | 69000 | N | 1 | POWER DIST. |
| B213202A | 1 | 8/11/2021 | MILLE LACS ENERGY | AITKIN | MN | 10000 | 69000 | N | 1 | POWER DIST. |
| B213203B | 1 | 8/11/2021 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 24940 | N | 1 | POWER DIST. |
| G213201A | 1 | 8/10/2021 | NORTHWESTERN RURAL ELECTRIC | CAMBRIDGE SPRINGS | PA | 10000 | 34500 | N | 1 | POWER DIST. |
| G213202A | 1 | 8/10/2021 | CENTRAL VIRGINIA ELECTRIC COOP | ARRINGTON | VA | 15000 | 138000 | N | 4 | POWER DIST. |
| B213101A | 1 | 8/3/2021 | IDAHO COUNTY LIGHT & POWER | GRANGEVILLE | ID | 10000 | 115000 | N | 1 | POWER DIST. |
| B213101A | 2 | 8/3/2021 | IDAHO COUNTY LIGHT & POWER | GRANGEVILLE | ID | 12000 | 115000 | N | 1 | POWER DIST. |
| G213101A | 1 | 8/3/2021 | NEW HAMPSHIRE ELECTRIC CO-OP | PLYMOUTH | NH | 11200 | 34500 | N | 1 | POWER DIST. |
| M213101A | 1 | 8/2/2021 | TEXAS ELECTRIC COOPERATIVES | AUSTIN | TX | 10000 | 69000 | N | 1 | POWER DIST. |
| G212403A | 1 | 7/27/2021 | BOROUGH OF LEHIGHTON | LEHIGHTON | PA | 12000 | 67000 | N | 1 | POWER DIST. |
| M213001A | 1 | 7/26/2021 | BIG COUNTRY ELECTRIC COOP | ROBY | TX | 12000 | 138000 | N | 1 | POWER DIST. |
| G212901A | 1 | 7/20/2021 | RAPPAHANNOCK ELEC COOPERATIVE | FREDERICKSBURG | VA | 20000 | 138000 | N | 1 | POWER DIST. |
| B212801A | 1 | 7/14/2021 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 115000 | N | 1 | POWER DIST. |
| O212701B | 1 | 7/6/2021 | AMERICAN ELECTRICAL TESTING | FOXBORO | MA | 10000 | 117800 | N | 1 | POWER DIST. |
| M212301A | 1 | 7/2/2021 | TEXAS ELECTRIC COOPERATIVES | AUSTIN | TX | 10000 | 138000 | N | 2 | POWER DIST. |
| G212202A | 1 | 7/1/2021 | CITY OF LEXINGTON | LEXINGTON | NC | 60000 | 101250 | N | 1 | POWER DIST. |
| M212601A | 1 | 6/30/2021 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 5000 | 69000 | N | 1 | POWER DIST. |
| M212601A | 2 | 6/30/2021 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 12000 | 69000 | N | 1 | POWER DIST. |
| M212601B | 1 | 6/30/2021 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 12000 | 69000 | N | 1 | POWER DIST. |
| M212601C | 1 | 6/30/2021 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 12000 | 69000 | N | 1 | POWER DIST. |
| B212502A | 1 | 6/25/2021 | MOREAU-GRAND ELECTRIC COOP INC | TIMBER LAKE | SD | 5000 | 69000 | N | 1 | POWER DIST. |
| G212502A | 1 | 6/25/2021 | MOUNT PLEASANT POWER SYSTEM | MOUNT PLEASANT | TN | 40000 | 161700 | N | 2 | POWER DIST. |
| G212503A | 1 | 6/25/2021 | CITY OF CONCORD, NC | CONCORD | NC | 20000 | 43800 | N | 1 | POWER DIST. |
| G212503A | 2 | 6/25/2021 | CITY OF CONCORD, NC | CONCORD | NC | 22400 | 101250 | N | 1 | POWER DIST. |
| G212302A | 1 | 6/21/2021 | PARIS BOARD OF PUBLIC UTILITIE | PARIS | TN | 15000 | 69000 | N | 1 | POWER DIST. |
| M212501A | 1 | 6/21/2021 | BORDER STATES | PHOENIX | AZ | 3750 | 34500 | N | 1 | POWER DIST. |
| G212402A | 1 | 6/18/2021 | ALBERTVILLE UTILITY BOARD | ALBERTVILLE | AL | 30000 | 46000 | N | 2 | POWER DIST. |
| B212401A | 1 | 6/17/2021 | OMAHA PUBLIC POWER DISTRICT | ELKHORN | NE | 30000 | 161000 | N | 1 | POWER DIST. |
| B212401B | 1 | 6/17/2021 | OMAHA PUBLIC POWER DISTRICT | ELKHORN | NE | 30000 | 161000 | N | 1 | POWER DIST. |
| B212402A | 1 | 6/17/2021 | OMAHA PUBLIC POWER DISTRICT | ELKHORN | NE | 40000 | 161000 | N | 1 | POWER DIST. |
| M212401A | 1 | 6/14/2021 | CITIZENS ELECTRIC CORP | PERRYVILLE | MO | 10000 | 67000 | N | 1 | POWER DIST. |
| B212301A | 1 | 6/9/2021 | EAST RIVER ELECT PWR COOP | MADISON | SD | 4200 | 69000 | N | 1 | POWER DIST. |
| B212302A | 1 | 6/9/2021 | EAST RIVER ELECT PWR COOP | MADISON | SD | 5600 | 69000 | N | 2 | POWER DIST. |
| B212302B | 1 | 6/9/2021 | EAST RIVER ELECT PWR COOP | MADISON | SD | 5600 | 69000 | N | 1 | POWER DIST. |
| O212102A | 1 | 5/28/2021 | TEXAS ELECTRIC COOPERATIVES | AUSTIN | TX | 60000 | 115000 | N | 2 | AUTOTRANSFORMER |
| O212101A | 1 | 5/27/2021 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 7500 | 69000 | N | 1 | POWER DIST. |
| B212101A | 1 | 5/26/2021 | KEM ELECTRIC | LINTON | ND | 5000 | 41600 | N | 1 | POWER DIST. |
| G212101A | 1 | 5/25/2021 | KNOXVILLE UTILITY BOARD | KNOXVILLE | TN | 15000 | 66000 | N | 1 | POWER DIST. |
| M212102A | 1 | 5/25/2021 | HOOSIER ENERGY REC,INC | BLOOMINGTON | IN | 10000 | 34500 | N | 1 | POWER DIST. |
| B212003A | 1 | 5/21/2021 | SOUTH CENTRAL ELEC ASSOC (MN) | SAINT JAMES | MN | 7500 | 69000 | N | 1 | POWER DIST. |
| B212001A | 1 | 5/17/2021 | MORGAN CITY CORPORATION | MORGAN | UT | 7500 | 43800 | N | 1 | POWER DIST. |
| G211801A | 1 | 5/5/2021 | BLACKRIVER ELECTRIC COOP | WEST SUMTER | SC | 15000 | 67000 | N | 1 | POWER DIST. |
| M211801A | 1 | 5/4/2021 | BIG RIVERS ELECTRIC CORPORATIO | HENDERSON | KY | 12000 | 6900 | N | 2 | POWER DIST. |
| M211801B | 1 | 5/4/2021 | BIG RIVERS ELECTRIC CORPORATIO | HENDERSON | KY | 1500 | 4160 | N | 2 | POWER DIST. |
| G211402A | 1 | 5/3/2021 | BVU AUTHORITY | BRISTOL | VA | 18000 | 69000 | N | 3 | POWER DIST. |
| B211701A | 1 | 4/28/2021 | FALL RIVER ELECTRIC | ASHTON | ID | 7500 | 115000 | N | 1 | POWER DIST. |
| B211701A | 2 | 4/28/2021 | FALL RIVER ELECTRIC | ASHTON | ID | 5000 | 115000 | N | 2 | POWER DIST. |
| G211301A | 1 | 4/27/2021 | CITY OF DANVILLE - PURCH. DEPT | DANVILLE | VA | 15000 | 67000 | N | 4 | POWER DIST. |
| M211701A | 1 | 4/26/2021 | FRANKFORT MUNICIPAL UTILITIES | FRANKFORT | IN | 25000 | 67000 | N | 2 | POWER DIST. |
| B211601A | 1 | 4/23/2021 | ROSEBUD ELECTRIC CO-OP | GREGORY | SD | 10000 | 115000 | N | 1 | POWER DIST. |
| G211601A | 1 | 4/22/2021 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 20000 | 230000 | N | 1 | POWER DIST. |
| G211201A | 1 | 4/20/2021 | BOLIVAR ENERGY AUTHORITY | BOLIVAR | TN | 15000 | 46000 | N | 1 | POWER DIST. |
| M211601A | 1 | 4/19/2021 | HOOSIER ENERGY REC,INC | BLOOMINGTON | IN | 12000 | 69000 | N | 5 | POWER DIST. |
| G211502A | 1 | 4/16/2021 | PLATEAU ELECTRIC COOPERATIVE | ONEIDA | TN | 12000 | 69000 | N | 1 | POWER DIST. |
| G211401A | 1 | 4/5/2021 | DUCK RIVER ELECTRIC MEMBERSHIP | SHELBYVILLE | TN | 25000 | 161700 | N | 1 | POWER DIST. |
| M211401A | 1 | 4/5/2021 | SIKESTON BOARD OF MUNICIPAL UT | SIKESTON | MO | 15000 | 67000 | N | 1 | POWER DIST. |
| M211401B | 1 | 4/5/2021 | SIKESTON BOARD OF MUNICIPAL UT | SIKESTON | MO | 20000 | 67000 | N | 1 | POWER DIST. |
| O211201A | 1 | 3/25/2021 | PETRELLI ELECTRIC | AQUA DULCE | CA | 33600 | 66000 | N | 1 | POWER DIST. |
| G211102A | 1 | 3/18/2021 | CITY OF CONCORD, NC | CONCORD | NC | 22400 | 101250 | N | 2 | POWER DIST. |
| O211101A | 1 | 3/18/2021 | BYRON BETHANY IRRIGATION | BYRON | CA | 3000 | 69000 | N | 1 | POWER DIST. |

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| G211001A | 1 | 3/10/2021 | NEWBERRY ELECTRIC COOPERATIVE | NEWBERRY | SC | 12000 | 69000 | N | 2 | POWER DIST. |
| B210901A | 1 | 3/4/2021 | EAST RIVER ELECT PWR COOP | MADISON | SD | 36000 | 230000 | N | 1 | AUTOTRANSFORMER |
| G210901A | 1 | 3/1/2021 | BOROUGH OF SCHUYLKILL HAVEN | SCHUYLKILL HAVEN | PA | 12000 | 67000 | N | 1 | POWER DIST. |
| G210801A | 1 | 2/24/2021 | WESTFIELD GAS & ELECTRIC | WESTFIELD | MA | 28000 | 110000 | N | 1 | POWER DIST. |
| G210702A | 1 | 2/17/2021 | NEW RIVER LIGHT & POWER | BOONE | NC | 15000 | 95000 | N | 1 | POWER DIST. |
| G210703A | 1 | 2/17/2021 | STUEBEN REC | BATH | NY | 5000 | 34400 | N | 1 | POWER DIST. |
| G210701A | 1 | 2/15/2021 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 25000 | 34500 | N | 1 | POWER DIST. |
| G210605A | 1 | 2/12/2021 | HOLDEN MUNICIPAL LIGHTING DEPT | HOLDEN | MA | 24000 | 69000 | Y | 2 | POWER DIST. |
| M210604A | 1 | 2/10/2021 | OKLAHOMA MUNICIPAL POWER | EDMOND | OK | 7500 | 24900 | N | 1 | POWER DIST. |
| G210604A | 1 | 2/5/2021 | SHEFFIELD UTILITIES, AL | SHEFFIELD | AL | 10000 | 43800 | N | 1 | POWER DIST. |
| B210602A | 1 | 2/3/2021 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 5000 | 68800 | N | 2 | POWER DIST. |
| G210602A | 1 | 2/2/2021 | SANTEE COOPER | MONCK'S CORNER | SC | 18000 | 115000 | N | 1 | GENERATOR STEP UP |
| O210301A | 1 | 2/2/2021 | CITY OF GUNNISON | GUNNISON | CO | 12000 | 115000 | N | 2 | POWER DIST. |
| O210301B | 1 | 2/2/2021 | CITY OF GUNNISON | GUNNISON | CO | 12000 | 115000 | N | 2 | POWER DIST. |
| M210602A | 1 | 2/1/2021 | VILLAGE OF GRAFTON | GRAFTON | OH | 10000 | 67000 | N | 1 | POWER DIST. |
| B210501A | 1 | 1/27/2021 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 2 | POWER DIST. |
| B210501B | 1 | 1/27/2021 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| G210401A | 1 | 1/20/2021 | NEW HAMPSHIRE ELECTRIC CO-OP | PLYMOUTH | NH | 5600 | 34500 | N | 1 | POWER DIST. |
| M210402A | 1 | 1/20/2021 | PEOPLES ELECT COOPERATIVE | ADA | OK | 12000 | 138000 | N | 1 | POWER DIST. |
| M210401A | 1 | 1/19/2021 | COAST ELECTRIC PWR ASSOCIATION | KILN | MS | 15000 | 115000 | N | 1 | POWER DIST. |
| M210304A | 1 | 1/15/2021 | 4 RIVERS ELECTRIC COOPERATIVE | LEBO | KS | 3750 | 67000 | N | 1 | POWER DIST. |
| B210301A | 1 | 1/13/2021 | NORTHEAST POWER | WAYNE | NE | 7500 | 69000 | N | 1 | POWER DIST. |
| M210303A | 1 | 1/13/2021 | UNION RURAL ELECTRIC COOP, INC | MARYSVILLE | OH | 15000 | 138000 | N | 1 | POWER DIST. |
| M210302A | 1 | 1/12/2021 | FRANKFORT PLANT BOARD | FRANKFORT | KY | 12000 | 69000 | N | 1 | POWER DIST. |
| B210203A | 1 | 1/8/2021 | MAQUOKETA VALLEY ELEC CO-OP | ANAMOSA | IA | 7500 | 69000 | N | 1 | POWER DIST. |
| B210201A | 1 | 1/6/2021 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 2 | POWER DIST. |
| B210201B | 1 | 1/6/2021 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| G205301A | 1 | 12/31/2020 | CITY OF ROCKY MOUNT, NC | ROCKY MOUNT | NC | 90000 | 230000 | N | 1 | AUTOTRANSFORMER |
| G205201A | 1 | 12/24/2020 | CITY OF MORGANTON ELECTRIC DEP | MORGANTON | NC | 30000 | 108000 | N | 1 | POWER DIST. |
| G205101A | 1 | 12/14/2020 | CENTRAL ALABAMA ELECTRIC CO-OP | PRATTVILLE | AL | 12000 | 112750 | N | 2 | POWER DIST. |
| O205003A | 1 | 12/11/2020 | LATHROP IRRIGATION DISTRICT | LATHROP | CA | 12000 | 115000 | N | 1 | POWER DIST. |
| B205001A | 1 | 12/9/2020 | YELLOWSTONE VALLEY ELECTRIC | HUNTLEY | MT | 10000 | 100000 | N | 1 | POWER DIST. |
| M205001A | 1 | 12/7/2020 | TRI - COUNTY ELECTRIC CO-OP | MOUNT VERNON | IL | 10000 | 138000 | N | 2 | POWER DIST. |
| M205002A | 1 | 12/7/2020 | BRYAN MUNICIPAL UTILITIES | BRYAN | OH | 5000 | 69000 | N | 2 | POWER DIST. |
| O205001A | 1 | 12/7/2020 | ELECTRICAL DISTRICT #3 | MARICOPA | AZ | 18000 | 69000 | Y | 1 | POWER DIST. |
| M204801A | 1 | 11/25/2020 | ALPENA POWER COMPANY | ALPENA | MI | 5000 | 34500 | N | 2 | POWER DIST. |
| G204702A | 1 | 11/20/2020 | SMECO | BOSTON | MD | 11200 | 67000 | N | 2 | POWER DIST. |
| O204701A | 1 | 11/17/2020 | GRAYS HARBOR PUD NO. 1 | ABERDEEN | WA | 15000 | 115000 | N | 1 | POWER DIST. |
| M204701A | 1 | 11/16/2020 | BURNS & MCDONNELL | KANSAS CITY | MO | 12000 | 115000 | N | 1 | POWER DIST. |
| O204603A | 1 | 11/13/2020 | PUD NO 1 OKANOGAN COUNTY | OKANOGAN | WA | 12000 | 115000 | N | 6 | POWER DIST. |
| M204501A | 1 | 11/3/2020 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 1500 | 69000 | N | 1 | POWER DIST. |
| M204501A | 2 | 11/3/2020 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 5000 | 69000 | N | 1 | POWER DIST. |
| M204501A | 3 | 11/3/2020 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 10000 | 69000 | N | 1 | POWER DIST. |
| M204501A | 4 | 11/3/2020 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 12000 | 69000 | N | 1 | POWER DIST. |
| M204501A | 5 | 11/3/2020 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 5000 | 138000 | N | 1 | POWER DIST. |
| M204501A | 6 | 11/3/2020 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 10000 | 138000 | N | 1 | POWER DIST. |
| M204501A | 7 | 11/3/2020 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 12000 | 138000 | N | 1 | POWER DIST. |
| M204501B | 1 | 11/3/2020 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 5000 | 69000 | N | 1 | POWER DIST. |
| M204501C | 1 | 11/3/2020 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 5000 | 69000 | N | 1 | POWER DIST. |
| B204301A | 1 | 10/21/2020 | GRAND ELECTRIC CO-OP | BISON | SD | 7500 | 115000 | N | 1 | POWER DIST. |
| M204301A | 1 | 10/19/2020 | RITA BLANCA ELECTRIC CO-OP | DALHART | TX | 15000 | 115000 | N | 2 | POWER DIST. |
| M204201A | 1 | 10/16/2020 | NORRIS ELECTRIC COOP | NEWTON | IL | 5000 | 69000 | N | 2 | POWER DIST. |
| M204101A | 1 | 10/7/2020 | WASHINGTON ELECTRIC COOP. | MARIETTA | OH | 10000 | 138000 | N | 1 | POWER DIST. |
| G203901A | 1 | 9/25/2020 | GREENVILLE UTILITIES | GREENVILLE | NC | 20000 | 115000 | N | 2 | POWER DIST. |
| M203902A | 1 | 9/24/2020 | NORTHEAST MISSOURI ELECTRIC | PALMYRA | MO | 5000 | 69000 | N | 3 | POWER DIST. |
| B203901A | 1 | 9/22/2020 | STEARNS ELECTRIC ASSOC | NEAR SAUK CENTER | MN | 10000 | 69000 | N | 1 | POWER DIST. |
| B203601A | 1 | 9/3/2020 | MEEKER COOPERATIVE LIGHT & PWR | LITCHFIELD | MN | 10000 | 69000 | N | 1 | POWER DIST. |
| B203501A | 1 | 8/27/2020 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 10000 | 115000 | N | 1 | POWER DIST. |
| B203502A | 1 | 8/27/2020 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 5000 | 43000 | N | 1 | POWER DIST. |
| B203503A | 1 | 8/27/2020 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 10000 | 43800 | N | 1 | POWER DIST. |
| G203501A | 1 | 8/27/2020 | HUNTSVILLE UTILITIES | HUNTSVILLE | AL | 15000 | 43800 | N | 2 | POWER DIST. |

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| M203503A | 1 | 8/27/2020 | NORRIS ELECTRIC COOP | NEWTON | IL | 1250 | 67000 | N | 1 | POWER DIST. |
| M203501A | 1 | 8/25/2020 | CORN BELT POWER COOPERATIVE | HUMBOLDT | IA | 1667 | 67000 | N | 6 | POWER DIST. |
| M203502A | 1 | 8/25/2020 | GEUS ELECTRIC | GREENVILLE | TX | 30000 | 138000 | N | 1 | POWER DIST. |
| B203401A | 1 | 8/19/2020 | BENCO ELECTRIC COOPERATIVE | MANKATO | MN | 7500 | 69000 | N | 1 | POWER DIST. |
| M203401A | 1 | 8/19/2020 | CITY OF COLUMBIA, MO | COLUMBIA | MO | 12000 | 69000 | N | 1 | POWER DIST. |
| G203401A | 1 | 8/17/2020 | FAYETTEVILLE PUBLIC UTILITIES | FAYETTEVILLE | TN | 12000 | 45000 | N | 1 | POWER DIST. |
| O203301A | 1 | 8/12/2020 | IMPERIAL IRRIGATION DISTRICT | IMPERIAL CA | CA | 8333 | 90200 | N | 7 | POWER DIST. |
| O203201B | 1 | 8/7/2020 | VALLEY ELECTRIC ASSOCIATION | PAHRUMP | NV | 85715 | 230000 | Y | 1 | AUTOTRANSFORMER |
| B203201A | 1 | 8/6/2020 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 7500 | 24940 | N | 1 | POWER DIST. |
| B203201A | 2 | 8/6/2020 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 10000 | 24940 | N | 1 | POWER DIST. |
| G203203A | 1 | 8/4/2020 | PWC/PUBLIC WORKS COMMISSION | FAYETTEVILLE | NC | 24000 | 67000 | N | 2 | POWER DIST. |
| M203202A | 1 | 8/4/2020 | ALPENA POWER COMPANY | ALPENA | MI | 24000 | 138000 | N | 1 | POWER DIST. |
| G203201A | 1 | 8/3/2020 | TOWN OF FRONT ROYAL | FRONT ROYAL | VA | 10000 | 34400 | N | 1 | POWER DIST. |
| G203002A | 1 | 7/24/2020 | CITY OF CONCORD, NC | CONCORD | NC | 20000 | 43800 | N | 1 | POWER DIST. |
| B203001A | 1 | 7/21/2020 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| M202901A | 1 | 7/13/2020 | BORDER STATES | WAUKESHA | WI | 5000 | 69000 | N | 1 | POWER DIST. |
| M202801A | 1 | 7/9/2020 | CMS ELECTRIC COOPERATIVE | MEADE | KS | 8400 | 34500 | N | 1 | POWER DIST. |
| M202802A | 1 | 7/9/2020 | BLUEBONNET ELECTRIC COOP., INC | GIDDINGS | TX | 18000 | 138000 | N | 1 | POWER DIST. |
| B202702A | 1 | 6/29/2020 | SOUTH CENTRAL ELEC ASSOC (MN) | SAINT JAMES | MN | 7500 | 69000 | N | 1 | POWER DIST. |
| M202603A | 1 | 6/24/2020 | BRODHEAD WATER & LIGHT | BRODHEAD | WI | 10000 | 69000 | N | 1 | POWER DIST. |
| M202604A | 1 | 6/24/2020 | WATERLOO WATER & LIGHT | WATERLOO | WI | 12000 | 138000 | N | 2 | POWER DIST. |
| M202602A | 1 | 6/23/2020 | BROWNSVILLE PUBLIC UTL. | BROWNSVILLE | TX | 15000 | 138000 | N | 3 | POWER DIST. |
| G202601A | 1 | 6/22/2020 | MOUNTAIN ELEC. COOP | MOUNTAIN CITY | TN | 15000 | 69000 | N | 2 | POWER DIST. |
| G202502A | 1 | 6/19/2020 | EAST KENTUCKY POWER COOP | WINCHESTER | KY | 780 | 1800 | N | 1 | EXCITER DUTY |
| G202503A | 1 | 6/19/2020 | DUCK RIVER ELECTRIC MEMBERSHIP | SHELBYVILLE | TN | 25000 | 161700 | Y | 1 | POWER DIST. |
| M202503A | 1 | 6/19/2020 | MID-STATES ENERGY WORKS | SALINA | KS | 5000 | 34500 | N | 1 | POWER DIST. |
| M202502A | 1 | 6/18/2020 | FRONTIER POWER CO | COSHOCTON | OH | 5000 | 69000 | N | 1 | POWER DIST. |
| B202501A | 1 | 6/16/2020 | LAKE REGION ELECTRIC CO-OP | PELICAN RAPIDS | MN | 10000 | 115000 | N | 1 | POWER DIST. |
| B202403A | 1 | 6/14/2020 | EAST RIVER ELECT PWR COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| O202501A | 1 | 6/12/2020 | CITY OF RICHLAND | RICHLAND | WA | 15000 | 115000 | Y | 1 | POWER DIST. |
| B202401A | 1 | 6/11/2020 | CITY OF ST. GEORGE | ST. GEORGE | UT | 15000 | 67000 | N | 1 | POWER DIST. |
| G202301A | 1 | 6/5/2020 | MUSCLE SHOALS ELECTRIC BOARD | MUSCLE SHOALS | AL | 30000 | 161000 | N | 1 | POWER DIST. |
| M202302A | 1 | 6/4/2020 | CITIZENS ELECTRIC CORP | PERRYVILLE | MO | 10000 | 67000 | N | 1 | POWER DIST. |
| M202301A | 1 | 6/3/2020 | ALPENA POWER COMPANY | ALPENA | MI | 5000 | 34500 | N | 1 | POWER DIST. |
| M202201A | 1 | 5/29/2020 | KBS ELECTRICAL DIST, INC | AUSTIN | TX | 1447 | 24940 | N | 1 | POWER DIST. |
| G202101A | 1 | 5/18/2020 | BIG RIVERS ELECTRIC CORPORATIO | HENDERSON | KY | 10000 | 69000 | N | 1 | POWER DIST. |
| G202001A | 1 | 5/14/2020 | CITY OF DANVILLE - PURCH. DEPT | DANVILLE | VA | 15000 | 67000 | N | 2 | POWER DIST. |
| M202001A | 1 | 5/13/2020 | FREESTATE ELECTRIC COOPERATIVE | TOPEKA | KS | 12000 | 115000 | N | 1 | POWER DIST. |
| G201901A | 1 | 5/4/2020 | FISHER & ARNOLD, INC. | MEMPHIS | TN | 90000 | 161700 | Y | 1 | AUTOTRANSFORMER |
| B201803A | 1 | 4/30/2020 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| M201801A | 1 | 4/29/2020 | JO-CARROLL ELECTRIC | ELIZABETH | IL | 10000 | 69000 | N | 1 | POWER DIST. |
| M201801A | 2 | 4/29/2020 | JO-CARROLL ELECTRIC | ELIZABETH | IL | 12000 | 69000 | N | 1 | POWER DIST. |
| B201801A | 1 | 4/27/2020 | MINNESOTA VALLEY COOPERATIVE | MONTEVIDEO | MN | 10000 | 69000 | N | 1 | POWER DIST. |
| M201701A | 1 | 4/22/2020 | TEXAS ELECTRIC COOPERATIVES | AUSTIN | TX | 12000 | 138000 | N | 1 | POWER DIST. |
| M201601A | 1 | 4/17/2020 | REEDSBURG UTLITY COMMISSION | REEDSBURG | WI | 15000 | 67000 | N | 1 | POWER DIST. |
| G201601A | 1 | 4/13/2020 | AIKEN ELECTRIC COOPERATIVE, IN | AIKEN | SC | 20000 | 115000 | N | 1 | POWER DIST. |
| B201501A | 1 | 4/6/2020 | STEARNS ELECTRIC ASSOCIATION | MELROSE | MN | 10000 | 115000 | N | 1 | POWER DIST. |
| M201501A | 1 | 4/6/2020 | CITY OF COLLEGE STATION | COLLEGE STATION | TX | 25000 | 134000 | Y | 1 | POWER DIST. |
| M201502A | 1 | 4/6/2020 | TIPMONT RURAL ELECTRIC | LINDEN | IN | 10000 | 67000 | N | 1 | POWER DIST. |
| B201401A | 1 | 3/30/2020 | FARMERS ELECTRIC COOPERATIVE | CLOVIS | NM | 12000 | 115000 | N | 1 | POWER DIST. |
| B201401A | 2 | 3/30/2020 | FARMERS ELECTRIC COOPERATIVE | CLOVIS | NM | 12000 | 69000 | N | 1 | POWER DIST. |
| M201303A | 1 | 3/26/2020 | BLUEBONNET ELECTRIC COOP., INC | GIDDINGS | TX | 18000 | 138000 | N | 1 | POWER DIST. |
| M201302A | 1 | 3/25/2020 | BLUEBONNET ELECTRIC COOP., INC | GIDDINGS | TX | 18000 | 138000 | N | 1 | POWER DIST. |
| M201301A | 1 | 3/24/2020 | LYNTEGAR ELECTRIC COOP | TAHOKA | TX | 10000 | 115000 | N | 1 | POWER DIST. |
| B201203A | 1 | 3/18/2020 | POWDER RIVER ELECTRIC | SUNDANCE | WY | 7500 | 69000 | N | 2 | POWER DIST. |
| B201201B | 1 | 3/17/2020 | HUTCHINSON UTILITIES COMMISSIO | HUTCHINSON | MN | 25000 | 69000 | Y | 1 | POWER DIST. |
| B201202B | 1 | 3/17/2020 | HUTCHINSON UTILITIES COMMISSIO | HUTCHINSON | MN | 4025 | 69000 | N | 1 | GROUNDING TRANSFORME |
| G201201A | 1 | 3/16/2020 | FISHER & ARNOLD, INC. | MEMPHIS | TN | 15000 | 69000 | N | 1 | POWER DIST. |
| M201102A | 1 | 3/13/2020 | JEFFERSON DAVIS ELECTRIC COOP | JENNINGS | LA | 10000 | 67000 | N | 1 | POWER DIST. |
| G201101A | 1 | 3/11/2020 | CITY OF CONCORD | CONCORD | NH | 20000 | 43800 | N | 2 | POWER DIST. |
| M201101A | 1 | 3/10/2020 | DEAF SMITH ELEC COOP INC | HEREFORD | TX | 12000 | 115000 | N | 1 | POWER DIST. |

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| M201002A | 1 | 3/3/2020 | MAQUOKETA VALLEY ELEC CO-OP | ANAMOSA | IA | 5000 | 69000 | N | 1 | POWER DIST. |
| G201001A | 1 | 3/2/2020 | ARAB ELECTRIC COOPERATIVE, INC | ARAB | AL | 30000 | 16700 | N | 2 | POWER DIST. |
| M201001A | 1 | 3/2/2020 | CITY OF WESTERVILLE, OH | WESTERVILLE | OH | 18000 | 67000 | N | 2 | POWER DIST. |
| B200902A | 1 | 2/28/2020 | BURKE-DIVIDE ELECTRIC COOP | COLUMBUS | ND | 5000 | 57000 | N | 1 | POWER DIST. |
| B200901A | 1 | 2/27/2020 | NORTH PLATTE MUNICIPAL LIGHT A | NORTH PLATE | NE | 10000 | 34500 | Y | 1 | POWER DIST. |
| G200801A | 1 | 2/18/2020 | CITY OF OCALA | OCALA | FL | 25000 | 67000 | Y | 3 | POWER DIST. |
| O200801A | 1 | 2/18/2020 | LEA COUNTY ELECTRIC CO-OP INC. | LOVINGTON | NM | 15000 | 67000 | Y | 1 | POWER DIST. |
| G200702A | 1 | 2/14/2020 | RAPPAHANNOCK ELEC COOPERATIVE | FREDERICKSBURG | VA | 12000 | 34500 | Y | 1 | POWER DIST. |
| G200703A | 1 | 2/14/2020 | SANTEE COOPER | MONCK'S CORNER | SC | 150000 | 230000 | Y | 1 | AUTOTRANSFORMER |
| G200701A | 1 | 2/12/2020 | CITY OF TALLAHASSEE | TALLAHASSEE | FL | 10000 | 13200 | N | 1 | UNIT AUXILIARY TRANS |
| M200601A | 1 | 2/6/2020 | HANCOCK-WOOD ELECTRIC CO-OP | FINDLAY | OH | 12000 | 69000 | N | 1 | POWER DIST. |
| O200603A | 1 | 2/6/2020 | NEW BRAUNFELS UTILITIES | NEW BRAUNFELS | TX | 20000 | 138000 | Y | 2 | POWER DIST. |
| B200602A | 1 | 2/5/2020 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 5000 | 24940 | N | 1 | POWER DIST. |
| B200501A | 1 | 1/27/2020 | EAST RIVER ELECT PWR COOP | MADISON | SD | 10000 | 115000 | N | 1 | SUBSTATION |
| M200401A | 1 | 1/23/2020 | KANSAS POWER POOL - KPP | WICHITA | KS | 16800 | 115000 | Y | 1 | AUTOTRANSFORMER |
| G200402A | 1 | 1/21/2020 | GEORGIA TRANSMISSION CORP | BAINBRIDGE | GA | 12000 | 26180 | N | 1 | AUTOTRANSFORMER |
| B200401A | 1 | 1/20/2020 | FAIRFAX MUNICIPAL UTILITIES-MN | FAIRFAX | MN | 3750 | 69000 | Y | 1 | POWER DIST. |
| G200401A | 1 | 1/20/2020 | PEE DEE ELECTRIC COOPERATION, | DARLINGTON | SC | 7500 | 67000 | N | 1 | POWER DIST. |
| O200201B | 1 | 1/7/2020 | IMPERIAL IRRIGATION DISTRICT | IMPERIAL CA | CA | 11000 | 92000 | N | 3 | GENERATOR STEP UP |
| M195201A | 1 | 12/24/2019 | CITY OF MOUNDRIDGE | MOUNDRIDGE | KS | 11200 | 115000 | Y | 1 | POWER DIST. |
| B195201A | 1 | 12/23/2019 | ROUGH RIDER ELECTRIC COOP | DICKINSON | ND | 10000 | 69000 | N | 1 | POWER DIST. |
| M195101A | 1 | 12/20/2019 | CITY OF ANTHONY, KS | ANTHONY | KS | 11200 | 138000 | Y | 1 | POWER DIST. |
| B195101A | 1 | 12/18/2019 | EAST RIVER ELEC POWER COOP | MADISON | SD | 8400 | 69000 | N | 4 | POWER DIST. |
| B195101A | 2 | 12/18/2019 | EAST RIVER ELEC POWER COOP | MADISON | SD | 8400 | 115000 | N | 1 | POWER DIST. |
| B195101B | 1 | 12/18/2019 | EAST RIVER ELEC POWER COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| B195101C | 1 | 12/18/2019 | EAST RIVER ELEC POWER COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| B195101D | 1 | 12/18/2019 | EAST RIVER ELEC POWER COOP | MADISON | SD | 8400 | 69000 | N | 1 | POWER DIST. |
| B195101E | 1 | 12/18/2019 | EAST RIVER ELEC POWER COOP | MADISON | SD | 8400 | 115000 | N | 1 | POWER DIST. |
| B195102A | 1 | 12/18/2019 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 12000 | 69000 | Y | 1 | POWER DIST. |
| G195102A | 1 | 12/18/2019 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 15000 | 115000 | N | 3 | POWER DIST. |
| G195102B | 1 | 12/18/2019 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 15000 | 115000 | N | 1 | POWER DIST. |
| G195102C | 1 | 12/18/2019 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 15000 | 115000 | N | 1 | POWER DIST. |
| M190501A | 1 | 12/18/2019 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 5000 | 69000 | N | 1 | POWER DIST. |
| B195003A | 1 | 12/12/2019 | SOUTHEAST ELECTRIC COOP | EKALAKA | MT | 7500 | 57000 | N | 1 | POWER DIST. |
| B195001A | 1 | 12/9/2019 | BENTON PUD | KENNEWICK | WA | 15000 | 115000 | Y | 1 | POWER DIST. |
| B194901A | 1 | 12/5/2019 | NOBLES COOPERATIVE ELECTRIC | WORTHINGTON | MN | 7500 | 115000 | N | 1 | POWER DIST. |
| B194701A | 1 | 11/21/2019 | ROUGH RIDER ELECTRIC COOP | DICKINSON | ND | 12000 | 115000 | N | 2 | POWER DIST. |
| B194702B | 1 | 11/21/2019 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 10000 | 69000 | N | 2 | POWER DIST. |
| B194702C | 1 | 11/21/2019 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 10000 | 69000 | N | 2 | POWER DIST. |
| M194703A | 1 | 11/20/2019 | CITY OF CUYAHOGA FALLS | AKRON | OH | 5000 | 12470 | N | 2 | GENERATOR STEP UP |
| M194701A | 1 | 11/18/2019 | CITY OF GARDEN CITY | GARDEN CITY | KS | 40000 | 115000 | N | 1 | AUTOTRANSFORMER |
| M194701A | 2 | 11/18/2019 | CITY OF GARDEN CITY | GARDEN CITY | KS | 40000 | 115000 | N | 1 | AUTOTRANSFORMER |
| M194702A | 1 | 11/18/2019 | BUCKEYE RURAL ELECTRIC COOPERA | RIO GRANDE | OH | 10000 | 69000 | N | 1 | POWER DIST. |
| G194602A | 1 | 11/15/2019 | SMECO | BOSTON | MD | 20000 | 67000 | N | 2 | POWER DIST. |
| B194401A | 1 | 11/1/2019 | HIGH WEST ENERGY | PINE BLUFFS | WY | 10000 | 34500 | N | 1 | POWER DIST. |
| O194401A | 1 | 10/31/2019 | MUNICIPALITY OF ANCHORAGE | ANCHORAGE | AK | 16800 | 115000 | Y | 1 | POWER DIST. |
| M194301A | 1 | 10/25/2019 | M&A ELECTRIC POWER COOPERATIVE | POPLAR BLUFF | MO | 5000 | 34500 | Y | 1 | POWER DIST. |
| M194301A | 2 | 10/25/2019 | M&A ELECTRIC POWER COOPERATIVE | POPLAR BLUFF | MO | 5000 | 34500 | N | 1 | POWER DIST. |
| M194301A | 3 | 10/25/2019 | M&A ELECTRIC POWER COOPERATIVE | POPLAR BLUFF | MO | 7500 | 69000 | N | 1 | POWER DIST. |
| M194301A | 4 | 10/25/2019 | M&A ELECTRIC POWER COOPERATIVE | POPLAR BLUFF | MO | 10000 | 69000 | N | 1 | POWER DIST. |
| G194202A | 1 | 10/15/2019 | CITY OF LEESBURG | LEESBURG | FL | 18000 | 67000 | Y | 4 | POWER DIST. |
| G194201A | 1 | 10/14/2019 | MASSENA ELECTRIC DEPT. | MASSENA | NY | 27000 | 110000 | N | 1 | POWER DIST. |
| G194201B | 1 | 10/14/2019 | MASSENA ELECTRIC DEPT. | MASSENA | NY | 27000 | 110000 | N | 1 | POWER DIST. |
| B194001A | 1 | 10/2/2019 | STEELE-WASECA COOP.ELECTRIC | OWATONNA | MN | 15000 | 115000 | N | 1 | POWER DIST. |
| B194001A | 2 | 10/2/2019 | STEELE-WASECA COOP.ELECTRIC | OWATONNA | MN | 10000 | 115000 | N | 1 | POWER DIST. |
| B194002A | 1 | 10/2/2019 | GLENWOOD SPRINGS ELECTRIC SYST | GLENWOOD SPRINGS | CO | 10000 | 115000 | Y | 1 | POWER DIST. |
| G194001A | 1 | 10/2/2019 | CITY OF SYLACAUGA | SYLACAUGA | AL | 12000 | 44000 | N | 2 | POWER DIST. |
| B193901A | 1 | 9/27/2019 | SOUTH UTAH VALLEY ELECTRIC SER | PAYSON | UT | 12000 | 46000 | N | 1 | POWER DIST. |
| B193801A | 1 | 9/19/2019 | SOUTHEAST ELECTRIC COOP | EKALAKA | MT | 15000 | 115000 | N | 1 | POWER DIST. |
| G193701A | 1 | 9/10/2019 | PWC/PUBLIC WORKS COMMISSION | FAYETTEVILLE | NC | 24000 | 67000 | N | 1 | POWER DIST. |
| M193601A | 1 | 9/5/2019 | SIouxLAND ENERGY COOPERATIVE | SIoux CENTER | IA | 12000 | 67000 | N | 1 | GENERATOR STEP UP |

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| B193601A | 1 | 9/4/2019 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 115000 | N | 2 | POWER DIST. |
| B193601B | 1 | 9/4/2019 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 115000 | N | 2 | POWER DIST. |
| G193601A | 1 | 9/4/2019 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 15000 | 115000 | N | 1 | POWER DIST. |
| B193501A | 1 | 8/28/2019 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 1000 | 68800 | N | 1 | POWER DIST. |
| B193301A | 1 | 8/16/2019 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 30000 | 115000 | Y | 2 | POWER DIST. |
| O193301A | 1 | 8/16/2019 | CITY OF MESA | MESA | AZ | 15000 | 69000 | Y | 1 | POWER DIST. |
| G193301A | 1 | 8/13/2019 | CITY OF MARTINSVILLE | MARTINSVILLE | VA | 20000 | 34500 | Y | 1 | POWER DIST. |
| M193301A | 1 | 8/13/2019 | CLAY COUNTY ELECTRIC COOP.CORP | CORNING | AZ | 18000 | 161000 | N | 1 | POWER DIST. |
| B193201A | 1 | 8/7/2019 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 24940 | N | 3 | POWER DIST. |
| B193201B | 1 | 8/7/2019 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 24940 | N | 1 | POWER DIST. |
| B193201C | 1 | 8/7/2019 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 24940 | N | 1 | POWER DIST. |
| G193202A | 1 | 8/6/2019 | HARTSELLE ELECTRIC BOARD | HARTSELLE | AL | 10000 | 45000 | N | 1 | POWER DIST. |
| B192901A | 1 | 7/16/2019 | WASHINGTON CITY | WASHINGTON | UT | 12000 | 67000 | N | 1 | POWER DIST. |
| G192901A | 1 | 7/16/2019 | CITY OF HIGH POINT | HIGH POINT | NC | 22400 | 100000 | Y | 3 | POWER DIST. |
| G192902A | 1 | 7/16/2019 | SEMINOLE ELEC COOP | TAMPA | FL | 7400 | 23000 | N | 1 | POWER DIST. |
| O192804A | 1 | 7/11/2019 | CITY OF FRESNO | FRESNO | CA | 10000 | 70000 | Y | 1 | POWER DIST. |
| G192703A | 1 | 7/5/2019 | CITY OF ATHENS UTILITIES | ATHENS | GA | 30000 | 161000 | Y | 3 | POWER DIST. |
| G192702A | 1 | 7/3/2019 | PEE DEE ELECTRIC COOP | DARLINGTON | SC | 15000 | 230000 | N | 2 | POWER DIST. |
| M192602A | 1 | 6/25/2019 | NORTHEAST MISSOURI ELECTRIC | PALMYRA | MO | 5000 | 67000 | N | 2 | POWER DIST. |
| M192602A | 2 | 6/25/2019 | NORTHEAST MISSOURI ELECTRIC | PALMYRA | MO | 12000 | 67000 | N | 1 | POWER DIST. |
| G192401A | 1 | 6/14/2019 | A & N ELECTRIC COOP | TASLEY | VA | 18000 | 69000 | Y | 2 | POWER DIST. |
| M192201A | 1 | 5/29/2019 | TIPPAH ELECTRIC POWER ASSOC | RIPLEY | MS | 10000 | 46000 | N | 1 | POWER DIST. |
| B192101B | 1 | 5/23/2019 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 10000 | 69000 | Y | 1 | POWER DIST. |
| M192101A | 1 | 5/22/2019 | NORRIS ELECTRIC COOP | NEWTON | IL | 5000 | 69000 | N | 1 | POWER DIST. |
| B192001A | 1 | 5/16/2019 | EAST RIVER ELECT PWR COOP | MADISON | SD | 25000 | 115000 | Y | 1 | AUTOTRANSFORMER |
| B192002A | 1 | 5/16/2019 | EAST RIVER ELECT PWR COOP | MADISON | SD | 36000 | 115000 | Y | 1 | AUTOTRANSFORMER |
| B192002B | 1 | 5/16/2019 | EAST RIVER ELECT PWR COOP | MADISON | SD | 36000 | 115000 | Y | 1 | AUTOTRANSFORMER |
| B192003A | 1 | 5/16/2019 | EAST RIVER ELECT PWR COOP | MADISON | SD | 30000 | 115000 | Y | 2 | AUTOTRANSFORMER |
| G192001A | 1 | 5/13/2019 | KNOXVILLE UTILITY BOARD | KNOXVILLE | TN | 15000 | 66000 | Y | 1 | POWER DIST. |
| O191802A | 1 | 5/2/2019 | TRINITY PUBLIC UTILITIES | WEAVERVILLE | CA | 7000 | 69000 | Y | 1 | POWER DIST. |
| B191801B | 1 | 4/29/2019 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 10000 | 69000 | N | 1 | POWER DIST. |
| M191701A | 1 | 4/22/2019 | MT. PLEASANT MUNICIPAL UTILITI | MT. PLEASANT | IA | 15000 | 69000 | Y | 1 | POWER DIST. |
| M191602A | 1 | 4/18/2019 | HOOSIER ENERGY REC, INC. | BLOOMINGTON | IN | 10000 | 34500 | N | 3 | POWER DIST. |
| M191601A | 1 | 4/16/2019 | EAGLE RIVER LIGHT & POWER | EAGLE RIVER | WI | 12000 | 115000 | N | 1 | POWER DIST. |
| M191601A | 2 | 4/16/2019 | EAGLE RIVER LIGHT & POWER | EAGLE RIVER | WI | 10000 | 115000 | N | 1 | POWER DIST. |
| B191601A | 1 | 4/15/2019 | CITY OF GOTHENBURG | GOTHENBURG | NE | 7500 | 34500 | Y | 1 | POWER DIST. |
| B191602A | 1 | 4/15/2019 | TODD-WADENA ELEC. CO-OP | WADENA | MN | 3750 | 34500 | N | 1 | POWER DIST. |
| B191602A | 2 | 4/15/2019 | TODD-WADENA ELEC. CO-OP | WADENA | MN | 3750 | 34500 | N | 1 | POWER DIST. |
| B191602A | 3 | 4/15/2019 | TODD-WADENA ELEC. CO-OP | WADENA | MN | 5000 | 34500 | N | 1 | POWER DIST. |
| G191601A | 1 | 4/15/2019 | CENTRAL ALABAMA ELECTRIC CO-OP | PRATTVILLE | AL | 12000 | 112750 | N | 1 | POWER DIST. |
| O191502A | 1 | 4/12/2019 | ELECTRICAL DISTRICT NO. TWO, P | CASA GRANDE | AZ | 18000 | 115000 | Y | 2 | POWER DIST. |
| B191302A | 1 | 3/29/2019 | NORRIS PUBLIC POWER DISTRICT | BEATRICE | NE | 20000 | 115000 | Y | 1 | POWER DIST. |
| O191302A | 1 | 3/29/2019 | JEFFERSON PUD | PORT HADLOCK | WA | 12000 | 115000 | N | 1 | POWER DIST. |
| B191301B | 1 | 3/27/2019 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 10000 | 68800 | N | 1 | POWER DIST. |
| B191301C | 1 | 3/27/2019 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 10000 | 115000 | N | 1 | POWER DIST. |
| M191204A | 1 | 3/21/2019 | CITY UTILITIES | SPRINGFIELD | MO | 16800 | 161000 | Y | 1 | POWER DIST. |
| B191102A | 1 | 3/15/2019 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 5000 | 43800 | N | 3 | POWER DIST. |
| B191102B | 1 | 3/15/2019 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 10000 | 43800 | N | 1 | POWER DIST. |
| B191102C | 1 | 3/15/2019 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 5000 | 69000 | N | 1 | POWER DIST. |
| B191102D | 1 | 3/15/2019 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 10000 | 115000 | N | 1 | POWER DIST. |
| B191103A | 1 | 3/15/2019 | CITY OF ST. GEORGE | ST. GEORGE | UT | 5000 | 67000 | N | 1 | POWER DIST. |
| G191103A | 1 | 3/15/2019 | BOROUGH OF CHAMBERSBURG | CHAMBERSBURG | PA | 15000 | 68800 | N | 2 | POWER DIST. |
| G191101A | 1 | 3/12/2019 | RIVIERA UTILITIES | FOLEY | AL | 15000 | 115500 | N | 1 | POWER DIST. |
| M191004A | 1 | 3/8/2019 | KAUKAUNA UTILITITES | KAUKAUNA | WI | 15000 | 34500 | Y | 1 | POWER DIST. |
| M191004B | 1 | 3/8/2019 | KAUKAUNA UTILITITES | KAUKAUNA | WI | 45000 | 138000 | Y | 1 | POWER DIST. |
| B185003C | 1 | 3/6/2019 | KANDIYOHI POWER COOPERERATIVE | SPENCER | MN | 7500 | 69000 | N | 1 | POWER DIST. |
| G190903A | 1 | 3/1/2019 | GEORGIA TRANSMISSION CORP | TUCKER | GA | 8000 | 43800 | N | 2 | POWER DIST. |
| M190903A | 1 | 3/1/2019 | MAQUOKETA VALLEY ELEC CO-OP | ANAMOSA | IA | 5000 | 69000 | N | 1 | POWER DIST. |
| M190902A | 1 | 2/27/2019 | GUTHRIE COUNTY REC | GUTHRIE COUNTY | IA | 5000 | 69000 | N | 1 | POWER DIST. |
| M190901A | 1 | 2/26/2019 | SIKESTON BOARD OF MUNICIPAL UT | SIKESTON | MO | 15000 | 67000 | Y | 1 | POWER DIST. |
| O190801A | 1 | 2/19/2019 | PLUMAS-SIERRA RURAL ELEC. COOP | PORTOLA | CA | 7000 | 69000 | N | 1 | POWER DIST. |

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| B190603A | 1 | 2/6/2019 | AGRALITE ELECTRIC CO-OP | BENSON | MN | 7500 | 115000 | N | 1 | POWER DIST. |
| M190601A | 1 | 2/4/2019 | BROOKLYN MUNICIPAL UTILITIES | BROOKLYN | IA | 3750 | 69000 | N | 1 | POWER DIST. |
| M190602A | 1 | 2/4/2019 | THE ENERGY COOPERATIVE, OH | UTICA | OH | 10000 | 34500 | N | 2 | POWER DIST. |
| B190503A | 1 | 1/31/2019 | MCCONE ELECTRICAL COOP | CIRCLE | MT | 20000 | 115000 | Y | 1 | POWER DIST. |
| B190504A | 1 | 1/31/2019 | YELLOWSTONE VALLEY ELECTRIC | HUNTLEY | MT | 10000 | 100000 | N | 1 | POWER DIST. |
| O190501A | 1 | 1/31/2019 | CLALLAM PUD | PORT ANGELES | WA | 12000 | 69000 | N | 1 | POWER DIST. |
| O190502A | 1 | 1/31/2019 | NORTHERN WASCO COUNTY PUD | THE DALLES | OR | 5000 | 69000 | N | 1 | POWER DIST. |
| G190501A | 1 | 1/30/2019 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 18000 | 101750 | N | 2 | POWER DIST. |
| B190501A | 1 | 1/28/2019 | BEARTOOTH ELECTRIC COOPERATIVE | RED LODGE | MT | 5000 | 100000 | N | 1 | POWER DIST. |
| G184302A | 1 | 1/24/2019 | CITY OF JACKSONVILLE BEACH | JACKSONVILLE BEACH | FL | 150000 | 230000 | Y | 1 | AUTOTRANSFORMER |
| M190401A | 1 | 1/24/2019 | HANCOCK-WOOD ELECTRIC CO-OP | FINDLAY | OH | 12000 | 69000 | N | 2 | POWER DIST. |
| M190401B | 1 | 1/24/2019 | HANCOCK-WOOD ELECTRIC CO-OP | FINDLAY | OH | 12000 | 69000 | N | 2 | POWER DIST. |
| O190302A | 1 | 1/18/2019 | CLARK PUBLIC UTILITIES RIVER R | VANCOUVER | WA | 24000 | 69000 | Y | 2 | SUBSTATION |
| O190303A | 1 | 1/18/2019 | NAVOPACHE ELECTRIC COOP, INC | LAKESIDE | AZ | 7500 | 69000 | N | 1 | SUBSTATION |
| O190303B | 1 | 1/18/2019 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 7500 | 69000 | N | 1 | SUBSTATION |
| G190301A | 1 | 1/15/2019 | STEBEN REC | BATH | NY | 5000 | 34400 | N | 1 | POWER DIST. |
| O190301B | 1 | 1/14/2019 | KBS ELECTRICAL DIST. INC. | BRYAN | TX | 12500 | 24940 | N | 2 | POWER DIST. |
| B190201A | 1 | 1/9/2019 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 5000 | 68800 | N | 2 | POWER DIST. |
| G190101A | 1 | 1/4/2019 | BLACK WARRIOR ELECTRIC | DEMOPOLIS | AL | 12000 | 44000 | N | 1 | POWER DIST. |
| M190101A | 1 | 1/4/2019 | VILLAGE OF BREWSTER | BREWSTER | OH | 15000 | 67000 | N | 1 | POWER DIST. |
| B185103A | 1 | 12/21/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | Y | 2 | POWER DIST. |
| B185103B | 1 | 12/21/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | Y | 2 | POWER DIST. |
| B185103B | 2 | 12/21/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 24940 | N | 2 | POWER DIST. |
| B185103B | 3 | 12/21/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 2 | POWER DIST. |
| B185103C | 1 | 12/21/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| B185103D | 1 | 12/21/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| B185103E | 1 | 12/21/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 24940 | N | 1 | POWER DIST. |
| B185103F | 1 | 12/21/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| B185103G | 1 | 12/21/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| G185101A | 1 | 12/20/2018 | GEORGIA TRANSMISSION CORP | TUCKER | GA | 8000 | 43800 | N | 1 | POWER DIST. |
| G185101B | 1 | 12/20/2018 | GEORGIA TRANSMISSION CORP | TUCKER | GA | 8000 | 43800 | N | 2 | POWER DIST. |
| M185101A | 1 | 12/18/2018 | GRAND RIVER DAM AUTHORITY | VINITA | OK | 10000 | 69000 | Y | 1 | POWER DIST. |
| B185003B | 1 | 12/12/2018 | WRIGHT HENNEPIN COOPERATIVE EL | ROCKFORD | MN | 10000 | 115000 | N | 1 | POWER DIST. |
| B185001A | 1 | 12/11/2018 | TONGUE RIVER ELECTRIC COOP | ASHLAND | MT | 20000 | 115000 | Y | 1 | POWER DIST. |
| M185001A | 1 | 12/11/2018 | ROCK ENERGY COOPERATIVE | JANESVILLE | WI | 5000 | 69000 | N | 1 | POWER DIST. |
| M184901A | 1 | 12/5/2018 | WASHINGTON ELECTRIC COOP. | MARIETTA | OH | 10000 | 138000 | N | 2 | POWER DIST. |
| M184901B | 1 | 12/5/2018 | WASHINGTON ELECTRIC COOP. | MARIETTA | OH | 10000 | 138000 | N | 1 | POWER DIST. |
| G184803A | 1 | 11/27/2018 | GEORGIA TRANSMISSION CORP | TUCKER | GA | 15000 | 67000 | N | 1 | POWER DIST. |
| O184701A | 1 | 11/20/2018 | EMERALD PEOPLES UTILITY DIST. | EUGENE | OR | 15000 | 116000 | Y | 1 | POWER DIST. |
| B184602A | 1 | 11/16/2018 | LOWER VALLEY EC | JACKSON | WY | 15000 | 115000 | N | 1 | POWER DIST. |
| G184601A | 1 | 11/14/2018 | SMECO | BOSTON | MD | 20000 | 67000 | Y | 1 | POWER DIST. |
| G184601A | 2 | 11/14/2018 | SMECO | BOSTON | MD | 10000 | 67000 | N | 2 | POWER DIST. |
| B184405A | 1 | 11/2/2018 | GARKANE ENERGY COOPERATIVE | LOA | UT | 3000 | 69000 | N | 1 | GENERATOR STEP UP |
| B184403A | 1 | 11/1/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| M184303A | 1 | 10/26/2018 | CITY OF JACKSON | JACKSON | OH | 25000 | 138000 | N | 2 | POWER DIST. |
| O184302A | 1 | 10/26/2018 | CITY OF MESA | MESA | AZ | 15000 | 69000 | Y | 1 | POWER DIST. |
| M184302A | 1 | 10/25/2018 | MIDWEST ENERGY COOPERATIVE | CASSOPOLIS | MI | 5000 | 44000 | N | 1 | POWER DIST. |
| O184201A | 1 | 10/17/2018 | BENTON PUD | KENNEWICK | WA | 15000 | 115000 | Y | 1 | POWER DIST. |
| O184201A | 2 | 10/17/2018 | BENTON PUD | KENNEWICK | WA | 20000 | 115000 | N | 1 | POWER DIST. |
| B184101A | 1 | 10/12/2018 | EAST RIVER ELECT PWR COOP | MADISON | SD | 7500 | 69000 | N | 5 | POWER DIST. |
| B184101B | 1 | 10/12/2018 | EAST RIVER ELECT PWR COOP | MADISON | SD | 7500 | 69000 | N | 1 | POWER DIST. |
| B184101B | 2 | 10/12/2018 | EAST RIVER ELECT PWR COOP | MADISON | SD | 5000 | 41600 | N | 1 | POWER DIST. |
| B184101B | 3 | 10/12/2018 | EAST RIVER ELECT PWR COOP | MADISON | SD | 15000 | 115000 | N | 1 | POWER DIST. |
| G184101A | 1 | 10/11/2018 | CITY OF FAIRHOPE PUBLIC UTILIT | FAIRHOPE | AL | 15000 | 43800 | N | 2 | POWER DIST. |
| G184101B | 1 | 10/11/2018 | CITY OF FAIRHOPE PUBLIC UTILIT | FAIRHOPE | AL | 15000 | 43800 | N | 1 | POWER DIST. |
| G184101C | 1 | 10/11/2018 | CITY OF FAIRHOPE PUBLIC UTILIT | FAIRHOPE | AL | 10000 | 43800 | N | 1 | POWER DIST. |
| O184103A | 1 | 10/11/2018 | CITY OF FALLON | FALLON | NV | 8000 | 63000 | N | 1 | POWER DIST. |
| M184101A | 1 | 10/9/2018 | NEW LONDON UTILITIES, WI | NEW LONDON | WI | 7500 | 34500 | N | 1 | POWER DIST. |
| O184102A | 1 | 10/9/2018 | MUNICIPALITY OF ANCHORAGE | ANCHORAGE | AK | 16800 | 115000 | Y | 1 | POWER DIST. |
| O184101A | 1 | 10/8/2018 | CITY & BOROUGH OF SITKA | SITKA | AK | 15000 | 69000 | Y | 1 | POWER DIST. |
| O184003A | 1 | 10/2/2018 | NTUA | FORT DEFIANCE | AZ | 2500 | 69000 | N | 1 | POWER DIST. |

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| G184001A | 1 | 10/1/2018 | ELECTRIC BOARD OF GUNTERSVILLE | GUNTERSVILLE | AL | 12000 | 45000 | N | 3 | POWER DIST. |
| G184002A | 1 | 10/1/2018 | CRAIG-BOTETOURT ELECTRIC CO-OP | NEW CASTLE | VA | 7500 | 138000 | N | 1 | POWER DIST. |
| O184002A | 1 | 10/1/2018 | NORA ELEC COOP | CHAMA | NM | 5000 | 69000 | N | 1 | POWER DIST. |
| O183901A | 1 | 9/26/2018 | IMPERIAL IRRIGATION DISTRICT | IMPERIAL CA | CA | 8000 | 92000 | N | 1 | POWER DIST. |
| B183701A | 1 | 9/12/2018 | ANIXTER POWER SOLUTIONS | BILLINGS | MT | 7500 | 69000 | N | 1 | POWER DIST. |
| B183702A | 1 | 9/12/2018 | MINNKOTA POWER COOP., INC | GRAND FORKS | ND | 1000 | 68800 | N | 2 | POWER DIST. |
| M183701A | 1 | 9/10/2018 | SEDGWICK CO ELECTRIC COOP | CHENEY | KS | 7500 | 67000 | N | 1 | POWER DIST. |
| B183402B | 1 | 8/21/2018 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 10000 | 69000 | Y | 1 | POWER DIST. |
| B183302A | 1 | 8/16/2018 | PAYSON CITY LTC POWER TRANS. | PAYSON | UT | 12000 | 46000 | Y | 1 | POWER DIST. |
| M183301A | 1 | 8/15/2018 | PRAIRIE POWER COOP | JACKSONVILLE | IL | 166 | 12470 | N | 1 | GROUNDING TRANSFORME |
| M183301A | 2 | 8/15/2018 | PRAIRIE POWER COOP | JACKSONVILLE | IL | 166 | 12470 | N | 1 | GROUNDING TRANSFORME |
| M183301A | 3 | 8/15/2018 | PRAIRIE POWER COOP | JACKSONVILLE | IL | 166 | 12470 | N | 1 | GROUNDING TRANSFORME |
| B183301A | 1 | 8/13/2018 | ST. GEORGE CITY ENERGY | ST. GEORGE | UT | 15000 | 67000 | N | 2 | POWER DIST. |
| G183202A | 1 | 8/10/2018 | ALBERTVILLE UTILITY BOARD | ALBERTVILLE | AL | 30000 | 46000 | N | 1 | POWER DIST. |
| M183201A | 1 | 8/10/2018 | LANE-SCOTT ELECTRICAL COOP | DIGHTON | KS | 7500 | 115000 | N | 1 | POWER DIST. |
| M183201A | 2 | 8/10/2018 | LANE-SCOTT ELECTRICAL COOP | DIGHTON | KS | 7500 | 115000 | N | 1 | POWER DIST. |
| O183103A | 1 | 8/3/2018 | SPRINGFIELD UTILITY BOARD | SPRINGFIELD | OR | 15000 | 116000 | Y | 1 | POWER DIST. |
| O183102A | 1 | 7/31/2018 | LIGHTHOUSE ELE. COOP | FLOYDADA | TX | 10000 | 67000 | N | 2 | POWER DIST. |
| O183102B | 1 | 7/31/2018 | LIGHTHOUSE ELE. COOP | FLOYDADA | TX | 10000 | 67000 | N | 1 | POWER DIST. |
| M183101A | 1 | 7/30/2018 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 5000 | 34500 | N | 1 | POWER DIST. |
| O183101A | 1 | 7/30/2018 | LYNTEGAR ELECTRIC COOP | TAHOKA | TX | 10000 | 115000 | N | 1 | POWER DIST. |
| B183001B | 1 | 7/27/2018 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 7500 | 34500 | N | 1 | POWER DIST. |
| G183001A | 1 | 7/25/2018 | TARHEEL ELE. MEM. ASSOC. | RALEIGH | NC | 18000 | 101750 | N | 2 | POWER DIST. |
| G182801A | 1 | 7/10/2018 | MOUNTAIN ELEC. COOP | MOUNTAIN CITY | TN | 20000 | 161000 | Y | 1 | POWER DIST. |
| O182603A | 1 | 6/27/2018 | CITY OF VERNON | VERNON | CA | 33600 | 66000 | Y | 1 | POWER DIST. |
| O182601A | 1 | 6/25/2018 | RITA BLANCA ELECTRIC CO-OP | DALHART | TX | 12000 | 115000 | N | 1 | POWER DIST. |
| G182501A | 1 | 6/21/2018 | LENOIR CITY UTILITIES BOARD | LENOIR CITY | TN | 12000 | 69000 | N | 1 | POWER DIST. |
| G182502A | 1 | 6/21/2018 | JOHNSON CITY POWER BOARD | JOHNSON CITY | TN | 30000 | 68800 | Y | 2 | POWER DIST. |
| G182403A | 1 | 6/15/2018 | HUNTSVILLE UTILITIES | HUNTSVILLE | AL | 7500 | 43800 | Y | 1 | POWER DIST. |
| B182403A | 1 | 6/14/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 24940 | N | 1 | POWER DIST. |
| O182402A | 1 | 6/12/2018 | GREENVILLE ELECTRIC ULTY SYSTE | GREENVILLE | TX | 30000 | 69000 | Y | 1 | POWER DIST. |
| O182403A | 1 | 6/12/2018 | GRAYS HARBOR PUD NO. 1 | ABERDEEN | WA | 15000 | 115000 | Y | 1 | POWER DIST. |
| B182401A | 1 | 6/11/2018 | FERGUS ELECTRIC COOPERATIVE | LEWISTOWN | MT | 2500 | 50000 | N | 2 | POWER DIST. |
| B182402A | 1 | 6/11/2018 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 30000 | 115000 | Y | 2 | POWER DIST. |
| G182401A | 1 | 6/11/2018 | SANTEE COOPER | MONCK'S CORNER | SC | 12000 | 115000 | N | 1 | POWER DIST. |
| G182401B | 1 | 6/11/2018 | SANTEE COOPER | MONCK'S CORNER | SC | 12000 | 115000 | N | 1 | POWER DIST. |
| G182401C | 1 | 6/11/2018 | SANTEE COOPER | MONCK'S CORNER | SC | 12000 | 115000 | N | 1 | POWER DIST. |
| O182401B | 1 | 6/11/2018 | TEXAS ELECTRIC COOPERATIVES | AUSTIN | TX | 12000 | 138000 | Y | 1 | POWER DIST. |
| O182401B | 2 | 6/11/2018 | TEXAS ELECTRIC COOPERATIVES | AUSTIN | TX | 12000 | 138000 | Y | 1 | POWER DIST. |
| M182202A | 1 | 5/30/2018 | M&A ELECTRIC POWER COOPERATIVE | POPLAR BLUFF | MO | 7500 | 34500 | N | 1 | POWER DIST. |
| B182201A | 1 | 5/29/2018 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 24940 | N | 1 | POWER DIST. |
| M182201A | 1 | 5/29/2018 | REEDSBURG UTILITY COMMISSION | REEDSBURG | WI | 12000 | 67000 | N | 1 | POWER DIST. |
| AA182001A | 1 | 5/14/2018 | CITY OF JAMESTOWN BOARD OF PUB | JAMESTOWN | NY | 7500 | 13800 | Y | 1 | POWER DIST. |
| O181902A | 1 | 5/11/2018 | CITY OF MESA | MESA | AZ | 15000 | 69000 | Y | 1 | POWER DIST. |
| O181903A | 1 | 5/11/2018 | CITY OF RIVERSIDE PUBLIC UTILI | RIVERSIDE | CA | 1000 | 12470 | N | 1 | DOE SUBSTATION |
| G181901A | 1 | 5/8/2018 | SHEFFIELD UTILITIES, AL | SHEFFIELD | AL | 20000 | 44000 | Y | 2 | POWER DIST. |
| O181901A | 1 | 5/8/2018 | DOUGLAS CO. PUD | EAST WNATCHEE | WA | 1500 | 14400 | N | 2 | POWER DIST. |
| M181803A | 1 | 5/4/2018 | ADAMS COLUMBIA ELECTRIC COOP | FRIENDSHIP | WI | 12000 | 69000 | N | 1 | POWER DIST. |
| M181803B | 1 | 5/4/2018 | ADAMS COLUMBIA ELECTRIC COOP | FRIENDSHIP | WI | 12000 | 69000 | N | 1 | POWER DIST. |
| O181802A | 1 | 5/4/2018 | INLAND POWER & LIGHT | SPOKANE | WA | 7500 | 115000 | N | 2 | POWER DIST. |
| G181803A | 1 | 5/3/2018 | HUMBOLDT UTILITIES | HUMBOLDT | TN | 25000 | 68800 | Y | 2 | POWER DIST. |
| M181802A | 1 | 5/2/2018 | SUPERIOR EQUIPMENT & SUPPLY CO | IRON MOUNTAIN | MI | 5000 | 34500 | N | 1 | GENERATOR STEP UP |
| B181801A | 1 | 5/1/2018 | EAST RIVER ELECT PWR COOP | MADISON | SD | 10000 | 69000 | N | 2 | POWER DIST. |
| B181801A | 2 | 5/1/2018 | EAST RIVER ELECT PWR COOP | MADISON | SD | 10000 | 115000 | N | 1 | POWER DIST. |
| M181801A | 1 | 5/1/2018 | GRAND RIVER DAM AUTHORITY | VINITA | OK | 1500 | 69000 | N | 1 | POWER DIST. |
| O181801A | 1 | 5/1/2018 | RIO GRANDE ELECTRIC COOP | BRACKETTVILLE | TX | 37500 | 138000 | Y | 1 | POWER DIST. |
| O181701A | 1 | 4/27/2018 | ELECTRICAL DISTRICT #3 | MARICOPA | AZ | 18000 | 69000 | Y | 2 | POWER DIST. |
| B181701B | 1 | 4/23/2018 | MOUNTRAIL-WILLIAMS ELECTRIC | WILLISTON | ND | 15000 | 115000 | N | 1 | POWER DIST. |
| G181501A | 1 | 4/11/2018 | JOE WHEELER EMC | TRINITY | AL | 15000 | 46000 | Y | 1 | POWER DIST. |
| B181501A | 1 | 4/9/2018 | PROVO CITY | PROVO | UT | 12000 | 46000 | Y | 2 | POWER DIST. |
| M181402B | 1 | 4/5/2018 | CITY OF EDMOND | EDMOND | OK | 15000 | 138000 | Y | 1 | POWER DIST. |

Virginia Transformer Corp
PPU - 5yr Orders

| | | | | | | | | | | |
|----------|---|-----------|--------------------------------|------------------|----|-------|--------|---|---|-----------------|
| M181402C | 1 | 4/5/2018 | CITY OF EDMOND | EDMOND | OK | 15000 | 138000 | Y | 1 | POWER DIST. |
| M181402D | 1 | 4/5/2018 | CITY OF EDMOND | EDMOND | OK | 15000 | 138000 | Y | 1 | POWER DIST. |
| M181402E | 1 | 4/5/2018 | CITY OF EDMOND | EDMOND | OK | 15000 | 138000 | Y | 1 | POWER DIST. |
| B181301A | 1 | 3/29/2018 | MARIAS RIVER COOP | SELBY | MT | 15000 | 115000 | Y | 1 | AUTOTRANSFORMER |
| M181301A | 1 | 3/26/2018 | CLAY ELECTRIC COOP, IL | LOUISVILLE | IL | 5000 | 69000 | N | 1 | POWER DIST. |
| G181201A | 1 | 3/20/2018 | GEORGIA TRANSMISSION CORP | TUCKER | GA | 8000 | 43800 | N | 1 | POWER DIST. |
| M181101A | 1 | 3/13/2018 | GUTHRIE COUNTY REC | GUTHRIE COUNTY | IA | 5000 | 69000 | N | 1 | POWER DIST. |
| O181002A | 1 | 3/8/2018 | RITA BLANCA ELECTRIC CO-OP | DALHART | TX | 15000 | 115000 | Y | 2 | POWER DIST. |
| M181002A | 1 | 3/7/2018 | CITY OF CELINA | CELINA | OH | 10000 | 67000 | N | 1 | POWER DIST. |
| M181001A | 1 | 3/5/2018 | PEOPLES ELECT COOPERATIVE | ADA | OK | 25000 | 138000 | Y | 1 | POWER DIST. |
| G180901A | 1 | 3/1/2018 | RIVIERA UTILITIES | FOLEY | AL | 18000 | 115500 | N | 1 | POWER DIST. |
| O180804A | 1 | 2/20/2018 | MERCED IRRIGATION DISTRICT | MERCED | CA | 12500 | 20780 | N | 2 | AUTOTRANSFORMER |
| G180801A | 1 | 2/19/2018 | CITY OF HOMESTEAD | HOMESTEAD | FL | 24000 | 138000 | Y | 1 | POWER DIST. |
| O180802A | 1 | 2/19/2018 | CITY OF REDDING | REDDING | CA | 19200 | 115000 | Y | 1 | POWER DIST. |
| M180701A | 1 | 2/16/2018 | STORY CITY MUNICIPAL ELECTRIC | STORY CITY | IA | 12000 | 68800 | Y | 1 | POWER DIST. |
| M180702A | 1 | 2/16/2018 | WISCONSIN RAPIDS | WISCONSIN RAPIDS | WI | 10000 | 43800 | Y | 1 | POWER DIST. |
| G180601A | 1 | 2/5/2018 | BLACK WARRIOR ELECTRIC | DEMOPOLIS | AL | 10000 | 115000 | N | 1 | POWER DIST. |
| B180501A | 1 | 1/31/2018 | NORTH CENTRAL PPD | CREIGHTON | NE | 7500 | 69000 | N | 1 | POWER DIST. |
| B180402A | 1 | 1/26/2018 | CENTRAL POWER ELEC. COOP. INC. | MINOT | ND | 5000 | 60000 | N | 2 | POWER DIST. |
| B180401A | 1 | 1/25/2018 | WESTERN UNITED ELECTRIC SUPPLY | BRIGHTON | CO | 7500 | 69000 | N | 1 | POWER DIST. |
| M180401A | 1 | 1/25/2018 | NORRIS ELECTRIC COOP | NEWTON | IL | 5000 | 69000 | N | 1 | POWER DIST. |
| G180401A | 1 | 1/22/2018 | JOE WHEELER EMC | TRINITY | AL | 12000 | 161000 | N | 1 | POWER DIST. |
| B180302A | 1 | 1/17/2018 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 20000 | 115000 | Y | 2 | POWER DIST. |
| B180302A | 2 | 1/17/2018 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 115000 | Y | 2 | POWER DIST. |
| B180302A | 3 | 1/17/2018 | MCKENZIE ELECTRIC COOP | WATFORD CITY | ND | 15000 | 115000 | Y | 2 | POWER DIST. |
| M180301A | 1 | 1/15/2018 | KENNETT CITY LIGHT GAS & POWER | KENNETT | MO | 12000 | 68800 | N | 1 | POWER DIST. |
| M180102A | 1 | 1/4/2018 | SOUTHWESTERN ELECTRIC CO-OP | GREENVILLE | IL | 10000 | 69000 | N | 1 | POWER DIST. |
| M180103A | 1 | 1/4/2018 | GUERNSEY-MUSKINGUM ELEC. COOP | NEW CONCORD | OH | 10000 | 69000 | N | 1 | POWER DIST. |
| O180101A | 1 | 1/3/2018 | PLUMAS-SIERRA RURAL ELEC. COOP | PORTOLA | CA | 12000 | 67000 | N | 1 | POWER DIST. |

VTC Utility Market References

1. Bluebonnet Electric Coop (TX)
 - Phillip Ellis – Manager of Technical Services
 - 979-219-1704 / phillip.ellis@bluebonnet.coop
2. Oklahoma Municipal Power Authority (OK)
 - Alex Dobson – Manager of Engineering Services
 - 405-359-2512
3. Grand River Dam Authority (OK)
 - Jeffery Tullis – VP T&D Engineering & Operations
 - 918-610-9717 / jeff.tullis@grda.com
4. People's Electric Cooperative (OK)
 - Matt Cooley – Director of Substation/Transmission Services
 - Office 580-559-8485
5. Sylacauga Utilities Board (AL)
 - Eric Carithers – Electrical Superintendent
 - 256-249-0372 / ecarither@sylacauga.net
6. Lyntegar Electric Coop (TX)
 - Ross Aten – Manager of Engineering
 - Office 806-561-4588 / RAten@lyntegar.coop
7. Northeast Missouri Electric Coop (MO)
 - Skyler Wiegmann – Engineering & NERC Compliance Manager
 - 573-769-2107 swiegmann@northeast-power.coop
8. City of Columbia (MO)
 - Roger Menke – City Utilities – Electric Substations
 - Roger.Menke@como.gov
9. Athens Utilities (AL)
 - Mr. Blair Davis – Electrical Department Manager
 - Office 256-232-1440 / bdavis@athens-utilities.com
10. Joe Wheeler EMC (AL)
 - Mr. Jeff Britnell – Director of Engineering
 - Office 256-552-2312 / jbritnell@jwemc.org
11. Huntsville Utilities (AL)
 - Mr. WM. KIM Hensley – Sr. Engineer
 - Office 256-535-1395 / Kim.Hensley@hsvutil.org
12. KCPL (MO)
 - Doug Lukenbill
 - Office 816-242-6432 / doug.lukenbill@evergy.com

THIS CERTIFIES THAT

Virginia Transformer Corp
dba VA Transformer



* Nationally certified by the: **CAROLINAS-VIRGINIA MINORITY SUPPLIER DEVELOPMENT COUNCIL**

*NAICS Code(s): 335311

* Description of their product/services as defined by the North American Industry Classification System (NAICS)

10/18/2021

Issued Date

CA01797

Certificate Number

10/31/2022

Expiration Date

A handwritten signature in black ink, appearing to read "Ying McGuire".

Ying McGuire
NMSDC CEO and President

A handwritten signature in black ink, appearing to read "Dominique Milton".

Dominique Milton, President & CEO

By using your password (NMSDC issued only), authorized users may log into NMSDC Central to view the entire profile: <http://nmsdc.org>

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Transformer design and construction

Virginia Transformer Corporation has 3 manufacturing facilities, each specializing in specific sizes of transformers. This delineation of manufacturing allows VTC to achieve maximum efficiency and short lead time for production, yet maintain technical and commercial continuity among the 3 locations. Our plant in Chihuahua, Mexico manufactures dry transformers and smaller oil-filled units. Our Roanoke, Virginia facility is our company headquarters, and manufactures the mid sized oil transformers, and large dry units. Large power transformers are manufactured in our Pocatello, Idaho plant, which also has repair and remanufacturing facilities.

Design practices: Transformer design at VTC utilizes a software program that was developed more than 18 years ago with Virginia Tech in Blacksburg, VA. Today's version of the program includes updates and modifications that reflect the latest developments in manufacturing techniques. This Visual Basic program also incorporates actual performance data which has been acquired by VTC over these many years.

Short circuit withstand: Every VTC facility designs transformers to the same exacting standards with respect to short circuit capability. Each unit is designed to tolerate the currents that occur during an imposed short circuit condition, and the blocking methods used to strengthen the coil have been repeatedly tested in certified testing laboratories (see list of transformers tested).

Transformer base: Virginia Transformer has two base designs, both of which have proven to have superior rigidity and flexibility to adapt to any foundation design. Our structural base uses strengthened members to carry the weight of the transformer at critical locations. Our solid, flat base is sized to distribute weight over the complete base assembly, while providing the same skidding, rolling and pulling capabilities as our structural base.

Core: The core is made from cold-rolled, grain-oriented silicon steel with a Carlite 3 coating to accommodate maximum volts-per-turn applications. These special steels are purchased from AK Steel, and are made to AISI and ASTM standards. Core segments are cut on our precision core-cutting line at the Roanoke, VA facility, where burr limit has been established at less than 5 ten thousandths of an inch (0.0005). The majority of our transformers use a 'Step-Lap', mitre-cut core design, which provides minimum core loss and reduced flux density.

Horizontal core members (yokes) are clamped using core brackets instead of thru bolts. The brackets are made from mild steel, and are tightened against the core yokes by a VTC-designed, pre-stressed tension bar. The tension bar is attached to the bracket, and as the tensioning bolts on the bracket are tightened, the bracket works as a bow to apply equalized surface pressure to the yokes.

1



Vertical members of the core (legs) are clamped using tie plates (sometime called flitch plates). The tie-plates are supported at either end by the brackets that brace the core yokes. As the yoke brackets are tightened, these tie plates snug against the core legs to maintain tension on the core's vertical members. Core laminations are insulated from the brackets and clamps by sheets of Nomex insulation. A single core ground is established by inserting a copper strip into the top yoke of the core. An insulated electrical cable is terminated on this copper strip, with the other end of the cable being connected to a feed-thru bushing. This design provides core ground access on the outside of the tank.

Coils: Electrical grade coil wire is purchased from Algonquin Wire and Cable, where the conductors have been insulated with wraps of Kraft paper. The kraft insulating paper is applied in multiple layers using half-lapping or over-lapping for thorough insulation. Coil winding takes place in an environmentally controlled winding room. This room is isolated from the other manufacturing processes to avoid contamination of the windings. Technicians wind the coils according to a design package from the engineering staff. Coil winding practices and procedures are described in the VTC winding manual, which details each step of the winding process.

HV and LV windings are wound on individual core tubes of Wiedmann insulation. The coils are sized using a hydraulic press to achieve appropriate electrical height. Windings are manufactured as circular disc for the high voltage winding and helical disc for the low voltage winding. Ducts between the high voltage and low voltage windings give the required electrical isolation and provides a channel for cooling. These ducts are formed with insulating wraps, adhesive kraft paper and dog-bone type spacers.

Coils are supported on the bottom yoke with a clamping ring. Blocks located above the clamping ring then support the coil in line with the key spacers. Additional clamping rings are used at the top of the coil. Coils are braced to 600 lbs per square inch (4.14 newtons per square mm).

Coil and core drying: Core and coil assemblies are placed inside a gas-fired drying oven. The drying process is continuously monitored to lower power factor levels to below 0.5%. When appropriately dried, assemblies are re-tightened and promptly tanked. Electrical connections are made and the tank is filled with insulating oil. Power factor levels are again measured during testing and at shipment to verify the power factor is below 0.5%. Our units are guaranteed to have a power factor below 0.5%, and regularly are below 0.3%.

Windings: The most popular winding design is the circular disc. Disc windings consist of a number of individual discs, wound from either a single conductor or with multiple conductors wound in parallel. The conductive turns are wound radially over each other, and the conductors pass uninterrupted from one disc segment to the next. Disc turns are isolated from the insulating cylinder by insulating strips that traverse the entire width of the coil. Wiedmann spacers, which are keyed to the vertical strips, separate the individual discs one from the other. These vertical



and horizontal spacers provide a system of ducts which are critical in providing unrestricted circulation of cooling oil. With disc windings, the cooling oil is in contact with each turn of the winding. Keyed coil spacers prevent dislodging after winding, and provide a rigid assembly with sufficient strength to withstand short-circuit stresses.

Tank Fabrication: Virginia Transformer has tank fabrication or tank repair capabilities at each of its facilities. In addition, each facility has a support fabricator, approved by VTC to insure meeting urgent schedule requirements. Each tank is leak tested prior to delivery, and is shot-blasted and primed to prevent rust. All tanks are cycled thru pressure and vacuum phases throughout the manufacturing process. Tank seams are continuously monitored after filling with oil to insure that no leaks are present.

Quality Assurance: Virginia Transformer has a rigid and well established quality assurance program, as attested by the ISO-9001 certification we have held since 1998. Virginia Transformer has one Quality Assurance Manager, with responsibility for the quality programs at all of our sites. The quality system incorporates inspections, measurements, and manufacturing-hold criteria to insure that manufacturing objectives are met. Non-conformities to acceptable practice are documented and sent to appropriate departments, where an analysis is made to determine the cause and prevention of recurring events. Emphasis on quality is also attested by our RUS listing for 5mva thru 30mva units to 138kv. All three of our facilities presently hold ISO certification, and have been successfully updated to the latest ISO-9001:2008 certification.

TESTS AND THEIR SIGNIFICANCE

Ratio and Phase Relationship Test

The function of a transformer is to transform power from one voltage level to another. The ratio test ensures that the transformer windings have the proper turns to produce the voltages required. The ratio is a measure of the RMS voltage applied to the primary terminals' to the RMS voltage measured at the secondary terminals.

The Standards state that when rated voltage is applied to one winding of the transformer, all other rated voltage(s) at no load shall be correct within 0.5% of the nameplate readings. It also states that all tap voltages shall be correct to the nearest turn if the volts per turn exceed the 0.5% of the desired voltage. The ratio test verifies that these conditions are met.

The primary and secondary windings in a three-phase transformer may be connected in a delta, wye or other configuration, and depending upon which of the individual windings are connected to each other the angular displacement between them. The phase relationship test verifies the delta, wye or other configuration and the angular displacement between the vectors.

Single phase transformers may have subtractive or additive polarity.

The polarity and phase relation tests are important when two or more transformers are to be paralleled. Paralleled transformers must have the same polarity and phase relation to avoid partial or complete short circuits.

Resistance Measurement

This is a measure of the resistance of the conductors in the transformer windings. The resistance measurements have two important functions:

- (a) For calculation of the temperature of the windings during the temperature test.
- (b) For calculation of the I^2R component of the winding losses.

The resistance measurement is corrected to either 75° C or 85°C depending on the average winding temperature rise of the transformer. The Standards have established 55°C and 65°C as standard temperature rises for liquid-filled transformers. Therefore, the corrected temperature is the winding's average temperature rise plus 20°C ambient temperature.

Insulation Resistance Test

The insulation-resistance test, which is commonly referred to as the megger test is used as an indication of the dryness of the insulation. This test although not classified as a routine test is done on a routine basis by many manufacturers to determine the condition of the insulation prior to testing.

In measuring insulation resistance it is the recommended practice to always be sure that the tank and the core iron are grounded, Short circuit each winding of the transformer at the terminals, Resistance measurements are then made between each winding and all other windings grounded, Windings are never left floating for insulation resistance measurements,

The insulation resistance varies with moisture content, cleanliness and temperature of the insulation parts, since the values vary with temperature, all measurements are corrected to 20° C for comparison purposes.

Insulation Power Factor

The insulation power factor test is another test that can be performed to determine the condition of the transformer insulation. The measurement is made with a capacitance bridge, measuring the capacitance between windings and between windings and ground, together with the power factor or loss angle of these capacitances.

This test is optional. The factory insulation power factor measurement can be of value for comparison purposes with field power factor tests. At this time there are no set standard for the acceptable power factor readings. Acceptable power factor readings are a matter of judgment and experience. Therefore by comparing the factory and field readings, changes in the insulation can possibly be detected.

No Load Loss and Exciting Current Test

The exciting current and the no-load losses are a function of the frequency, voltage and the wave shape of the voltage.

The exciting current and no-load losses are determined from the same test set-up. In which the transformer is energized open circuit. Any of the transformer winding is subjected to the rated voltage. Low Voltage side is preferred to be excited from power source, since that is easy from practical point of view. No Load Loss can be read directly from wattmeter

The no-load or excitation loss actually consists of mainly the iron loss of the core. The iron loss can be controlled to some degree by the quality of the core steel, the point on the performance curve where it is to be operated and the type of core used. Generally, a lower iron loss design will cost more initially, but the long range energy savings will usually more than offset that initial cost differential.

The exciting current test is one of the means used to verify that the core design and its satisfactory performance. The exciting current can be read directly from the ammeter.

The exciting current consists of a magnetizing and a loss component. The magnitude of the magnetizing component is determined by the shape of the performance curve of the core steel, its operating flux density and the number of turns in the primary winding. The loss component is determined by the losses in the core.

Load Loss and Impedance Measurement

The load loss and impedance are determined from what is sometimes referred to as the "short-circuit" test. The secondary of the transformer is shorted and sufficient voltage is applied to the primary terminal to circulate rated current through the primary winding.

The impedance is normally expressed in terms of percent of rated voltage. The impedance voltage is that voltage required to circulate the rated current through the primary winding with the secondary shorted.

The impedance test is made to verify the design impedance. The impedance, due to manufacturing tolerance, tends to vary from design values. For this reason, the Standards have established impedance tolerances as follows:

1. For two winding transformers 7.5%
2. For three or more windings or Zig-Zag windings. 10%

The user and the designer are interested in the measured impedance primarily because it determines the amount of current which will flow in the windings during short circuit.

The magnitude of the short circuit current is important to the designer because it establishes

design criteria for the mechanical strength of the internal assemblies, and to the user in determining breaker capacities and selecting correct fuses and properly coordinating relaying schemes.

The impedance is also important when paralleling two or more transformers. The impedance of the paralleled transformers must be within the specified test tolerances. A transformer whose tested impedance is higher will cause the other transformers to carry more than its share of the load.

Dielectric Tests

The insulation in a transformer is probably the most important of its constructional materials. A transformer can function if the efficiency and regulation are poor, temperature rise is too high or if the mechanical strength is marginal. But if the insulation is inadequate and fails, the transformer is unusable. The effectiveness of the insulation in a transformer can be measured by its dielectric strength.

The purpose of the dielectric tests is to verify the dielectric strength of the insulation or in the case of the manufactured transformer to demonstrate the suitability of the insulation to withstand the test levels defined in the Standards. There are two dielectric withstand routine tests that can be performed on a transformer: (1) applied potential test, and (2) induced potential test. Each of these tests, as will be shown, has a specific purpose in verifying the major and minor insulation system of the transformer. The major insulation consists of the phase-to-phase and phase-to-ground insulation and the insulation separating the primary and secondary windings. The layer-to-layer, turn-to-turn and section-to-section insulation make up the minor insulation.

Applied Potential Test

This test is sometimes referred to as the "hypot" or the low-frequency test. The purpose of this test is to check the adequacy of the major insulation to ground and to all other windings being tested.

In this test all windings are short circuited and all windings except the one being tested and the tank are grounded. The voltage to be applied to the ungrounded winding has been established by ANSI C57.12.00. This test is made at 60 hertz and has duration of one minute.

Induced Potential Test

The purpose of this test is to check the minor insulation of the transformer. This test is accomplished by applying to one set of line terminals of the transformer with the other set open circuited. For Class I transformers, this test is conducted at double the rated voltage for 7200 cycles. Generally the source used for this test has frequency of 120 Hz or more.

Partial Discharge Test

Corona is the generic name for electrical discharges that occur in electrical insulation as a result of high velocity ionization under the influence of an electric field that exceeds the dielectric strength of the insulation.

Corona and the term partial discharge are used interchangeably when referring to this phenomenon in transformers. The partial discharge terminology is preferred since it most accurately describes the occurrence.

Much has been written concerning the cause of partial discharges. Some of the conditions that can initiate partial discharges are:

1. Improper processing or drying of the insulation.

2. Over stressed insulation due to a lack of proper recognition of the voltage limitation of the insulation.
3. High stress areas on conducting parts, which can be caused by sharp edges on either the conducting part or ground plane.

The effects of partial discharge in a transformer are twofold. One effect is that the ion and electron bombardment can be damaging to the insulation and shortens the life of the transformer. The other effect is that the transient currents produced due to partial discharges, may interfere with electrical communications,

Transformer manufacturers have been aware of the consequences of partial discharges in transformers for many years and have developed drying and processing procedures as well as insulation systems that virtually eliminate the presence of damaging partial discharges. For this reason the partial discharge test has been classified as optional. The test is performed periodically for quality control reasons, prototype testing or when specified by the user,

Several techniques have been developed to measure the intensity of partial discharges. The most generally used is the Radio Influence Voltage (RIV) technique. The radio frequency voltage produced by the partial discharges can be measured at the transformer terminals with a coupled radio

VIRGINIA TRANSFORMER CORPORATION
LIST OF SHORT CIRCUIT TESTED TRANSFORMERS

As of 7/15/2004

| PDF Filename | TEST REPORT# | DATE | PLACE OF TEST | SERIAL NO | DRY OR LIQUID | KVA | PRIMARY VOLTAGE | PRI BIL | SECONDARY VOLTAGE | SEC BIL |
|--------------|--------------|------------|-----------------------------|--|---------------|---------------------|-----------------|---------|--------------------------|---------|
| SC01 | SCT2113 | 6/9/1983 | GE PITTSFIELD,MA | 340835B001-3034.2 | DRY | 835 | 12470 | 95KV | 648 delta & wye | 10KV |
| SC02 | LTR8410482 | 6/11/1984 | GE PITTSFIELD,MA | 442000A002-3389 | LIQUID | 2000 | 13800 | 95KV | 480y/277 | 30KV |
| SC03 | J90093C | 5/7/1990 | KEMA CHALFONT,PA | 342233B502-5744B | DRY | 2233 | 13800 Y | 110KV | 550 delta | 10KV |
| SC04 | J92001-C | 1/7/1992 | KEMA CHALFONT,PA | 343257B501-6085 | DRY | 3257 | 13800 | 110KV | 468 delta & wye | 45KV |
| SC05 | VIRG021892 | 2/27/1992 | WESTINGHOUSE BELMONT,NC | 342245A501-6560A | DRY | 2245 | 13800 | 110KV | 556 delta | 10KV |
| SC06 | VIRG021892 | 2/27/1992 | WESTINGHOUSE BELMONT,NC | 342245A502-6561A | DRY | 2245 | 13800 Y | 110KV | 556 delta | 10KV |
| SC07 | T022121A | 4/18/1992 | PSM LAB PITTSBURGH,PA | 447500A001-6520E | LIQUID | 7500 | 12470 | 110KV | 4160 Y | 95KV |
| SC08 | T022121B | 5/22/1992 | PSM LAB PITTSBURGH,PA | 362245A504-6563C | DRY | 2245 | 34500Y | 150KV | 556 DELTA | 10KV |
| SC09 | T022121B | 5/22/1992 | PSM LAB PITTSBURGH,PA | 362245A5046562C | DRY | 2245 | 34500 | 150KV | 556 DELTA | 10KV |
| SC10 | T100921 | 11/20/1992 | PSM LAB PITTSBURGH,PA | 425000A006-6577B | LIQUID | 5000 | 4160 | 60KV | 2080 Delta & wye | 45KV |
| SC11 | T061823 | 7/28/1993 | PSM LAB PITTSBURGH,PA | 343292U501-6494C | DRY | 3293 | 13200 | 95KV | 490 Delta & wye | 10KV |
| SC12 | T011932 | 3/4/1993 | PSM LAB PITTSBURGH,PA | 354366U501-6494H | DRY | 4366 | 26400 | 150KV | 490 Delta & wye | 10KV |
| SC13 | VIRG051393 | 5/13/1993 | WESTINGHOUSE BELMONT,NC | 341110A501-6990 | DRY | 1110 | 13200 | 95KV | 644 Delta & wye | 20KV |
| SC14 | VIRG100295 | 10/10/1995 | CUTLER HAMMER BELMONT,NC | 340835A001-8027A | DRY | 835 | 13200 | 95KV | 590 Delta & wye | 45KV |
| SC15 | VIRG 072798 | 7/27/1998 | CUTLER HAMMER BELMONT,NC | M43476Q501-8944A Transformer Models 341738U001-8944A#A 341738U002-8944A#B | DRY | 1738x2 | 13200 | 95KV | 490 | 20KV |
| SC16 | 99067-B | 4/19/1999 | KEMA CHALFONT,PA | M43476Q502-9017B Transformer Models 341738U001-9017B#A 341738U002-9017B#B | DRY | 1738x2 | 13200 | 95KV | 490 | 20KV |
| SC17 | 00017-B | 1/28/2000 | KEMA CHALFONT,PA | M53476Q501-9343A Transformer Models 351813U501-9343A#A 351663U503-9343A#B | DRY | 1813X1 1663X1 | 26400 | 150KV | 490 | 20KV |
| SC18 | 00120-B | 7/10/2000 | KEMA CHALFONT,PA | 47015MA012-9617A | LIQUID | 15/20MVA | 69000 | 350 KV | 13800 | 110KV |
| SC19 | 0169-B | 9/21/2000 | KEMA | 342130B04-9629G Transformer connected to Rectifier | DRY | 2130 | 12500 | 95KV | 466 delta & wye CKT31 | 10KV |
| SC20 | 01014-B | 3/1/2001 | KEMA CHALFONT,PA | 44017MA002-9823 | LIQUID | 16.5/22/27.5 MVA | 13800Y | 110KV | 13200 | 110KV |
| SC21 | 02107-B | 8/22/2002 | KEMA CHALFONT,PA | 361087B502-A037N | DRY | 1087 | 34500 | 150KV | 587 Delta & wye CKT31 | 10KV |
| SC22 | 02205-B | 11/5/2002 | KEMA CHALFONT,PA | 351663U001-A139B | DRY | 1663 | 21000 | 125KV | 627 Delta & wye CKT31 | 30KV |



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Standard Warranty Statement

Virginia Transformer provides a standard warranty, as described in our Standard Terms and Conditions of Sale, dated October, 2002. This warranty is for (twelve) 12 months from date of equipment installation or (eighteen) 18 months from date of shipment, whichever occurs first. VTC warrants to repair or replace (FOB factory) any equipment we manufacture due to defective material or workmanship when failure occurs under normal and proper use. Buyer shall make the equipment available to VTC to perform work at the job site without interference or duress. No guarantee, warranty or liability for damage exists other than stated herein. VTC's warranty on purchased components is limited to the warranty provided by the component manufacturer. VTC will not assume any liability of expense for repairs or modifications to equipment unless previously authorized in writing by VTC. VTC will not accept consequential damages under any circumstances.

Warranty Options

Virginia Transformer offers Extended Warranties on the coils and core for time periods beyond the 12/18 months in the Standard Warranty. VTC also offers In/Out coverage on the transformer. The following paragraphs describe both of these added warranties.

Extended Warranty (Optional)

Virginia Transformer Corporation offers extension(s) to the standard warranty. The extended warranty covers only the coils and core against failure that occurs with respect to normal operation of the transformer, and within the parameters for which the transformer was designed. Extended Warranty is valid only if a technical representative of Virginia Transformer Corp. performs, as a minimum, supervision of field assembly and testing of the Transformer. This coverage excludes bolted electrical and mechanical connections, which are to be periodically checked and retightened, as necessary, by the Owner as part of their normal maintenance programs. Available (extended) warranty periods are as follows (equipment installation/shipment):

24/30 months; 36/36 months; 48/48 months; 60/60 months

Extended warranty _____
option

In/Out Coverage (Optional)

In/Out coverage is a warranty enhancement available during the Standard Warranty and Extended Warranty period. For failures occurring within the stated warranty period, VTC will cover only the expenses to transport the transformer to a repair facility and return the transformer to customer's site. Buyer will make the transformer ready for shipment in the condition it was originally received from VTC (as per outline drawing), with clear and free access by our selected courier. Civil work, disconnect/reconnect, and crane cost are the responsibility of the buyer.

In/Out coverage _____



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C57.12 ANSI Standards

IMPEDANCES

| HV BIL (kV) | LV Below 2400V | LV 2400V and above | LTC | Dry Type |
|-------------|----------------|--------------------|-------|----------|
| 10-60 | 5.75 | 5.75 | -- | 5.75 |
| 60-110 | 5.75* | 5.50* | -- | ** |
| 150 | 6.75 | 6.50 | 7.00 | ** |
| 200 | 7.25 | 7.00 | 7.50 | -- |
| 250 | 7.25 | 7.50 | 8.00 | -- |
| 350 | -- | 8.00 | 8.50 | -- |
| 450 | -- | 8.50 | 9.00 | -- |
| 550 | -- | 9.00 | 9.50 | -- |
| 650 | -- | 9.50 | 10.00 | -- |
| 750 | -- | 10.00 | 10.50 | -- |
| 900 | -- | 10.50 | 11.00 | -- |

* For transformers above 5000 KVA these values shall be the same as shown for 150 kV BIL.

** ANSI standards do not specify impedances for these ratings but industry is presently using the impedance values shown for the respective liquid/dry values as shown.

VOLTAGE BIL

| kV | Liquid | Dry (VPI) | Encapsulated |
|-----|----------------|--------------|--------------|
| 1.2 | 30 (45) | 10 (20, 30) | 10 (30) |
| 2.5 | 45 (60, 75) | 20 (30, 45) | 45 (60) |
| 5.0 | 60 (75) | 30 (45, 60) | 60 (75) |
| 8.7 | 75 (95) | 45 (60, 95) | 75 (95) |
| 15 | 95 (110*) | 60 (95, 110) | 95 (110) |
| 25 | 150 (200) | 110 (125) | 125 (150) |
| 35 | 200 | 150 (200) | 150 |
| 46 | 250 | -- | -- |
| 69 | 350 (250) | -- | -- |
| 115 | 450 (550, 350) | -- | -- |
| 138 | 550 (650, 450) | -- | -- |
| 161 | 650 (750, 550) | -- | -- |
| 230 | 750 (900, 650) | -- | -- |

(BIL) in parenthesis is an optional BIL.

* Transformers 5000KVA and above should use this as standard BIL.



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FAN COOLING

| Base KVA | Stage 1 Fans | Stage 2 Fans |
|-----------------------|---------------|-----------------|
| <2500 | 115% capacity | -- |
| 2500 to <12MVA | 125% capacity | -- |
| 12MVA and above | 133% capacity | 125% additional |
| Dry Type Transformers | 133% capacity | -- |

TEMPERATURE RISE

Liquid Type Transformers with 55/65°C Temperature Rise:

Base KVA @55°C → 112% capacity @ 65°C

STANDARD RATINGS Liquid Filled Transformers

| 55°C ONAN | 65°C ONAN | 55°C ONAF | 65°C ONAF | 55°C ONAF2 | 65°C ONAF2 |
|-----------|-----------|-----------|-----------|------------|------------|
| 300KVA | 336KVA | 345KVA | 386KVA | -- | -- |
| 500KVA | 560KVA | 575KVA | 644KVA | -- | -- |
| 750KVA | 840KVA | 863KVA | 966KVA | -- | -- |
| 1000KVA | 1120KVA | 1150KVA | 1288KVA | -- | -- |
| 1500KVA | 1680KVA | 1725KVA | 1932KVA | -- | -- |
| 2000KVA | 2240KVA | 2300KVA | 2576KVA | -- | -- |
| 2500KVA | 2800KVA | 3125KVA | 3500KVA | -- | -- |
| 3000KVA | 3360KVA | 3750KVA | 4200KVA | -- | -- |
| 3750KVA | 4200KVA | 4688KVA | 5250KVA | -- | -- |
| 5000KVA | 5600KVA | 6250KVA | 7000KVA | -- | -- |
| 7500KVA | 8400KVA | 9375KVA | 10.5MVA | -- | -- |
| 10MVA | 11.2MVA | 12.5MVA | 14MVA | -- | -- |
| 12MVA | 13.44MVA | 16MVA | 17.92MVA | 20MVA | 22.4MVA |
| 15MVA | 16.8MVA | 20MVA | 22.4MVA | 25MVA | 28MVA |
| 20MVA | 22.4MVA | 26.67MVA | 29.86MVA | 33.33MVA | 37.33MVA |
| 25MVA | 28MVA | 33.33MVA | 37.33MVA | 41.67MVA | 46.67MVA |
| 30MVA | 33.6MVA | 40MVA | 44.8MVA | 50MVA | 56MVA |
| 40MVA | 44.8MVA | 53.32MVA | 59.72MVA | 66.66MVA | 74.65MVA |
| 50MVA | 56MVA | 66.66MVA | 74.65MVA | 83.33MVA | 93.33MVA |

Note – VTC is a custom manufacturer; therefore, custom ratings can be chosen to suite your project needs.

Note on Temperature Rise – If specified transformer is single temperature rise only (55°C rise only or 65°C rise only): disregard the 65°C column and utilize the 55°C column as whichever single rise you are in need of.



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TRANSFORMER INSTALLATION DESCRIPTIONS

Described below are brief descriptions of VTC Field Service Installation Options; please consult your VTC Sales person for additional details and pricing.

Supervision only

VTC supplies an on-site field technician to supervise the assembly of the transformer by others and to verify the work is performed correctly. Others supply all crane, assembly and test equipment. Technician to be at site up to three days.

Installation (make-up oil for radiators only)

VTC supplies an installation crew to install bushings, radiators, arresters, etc. The unit will be shipped filled with oil so the only oil handling will be the oil required to fill the radiators after they are mounted. The oil is shipped from the plant with other detail parts. This operation will require the use of an oil pump and filter. Included in the cost is a small crane to handle the components to install plus the oil handling equipment. The following test will be performed TTR, DCR, DGA, CT Ratio, Core Ground Megger, and Transformer Megger. We will perform Power Factor on units above 69KV.

Installation (complete oil fill)

VTC supplies installation crew to install bushings, radiators, arresters, etc. The unit is shipped drained of oil so will require a complete filling in the field. The oil is usually delivered to the site in a tanker truck and filled from the truck. This operation will normally require the use of a vacuum pump, oil pump and filter, and if required oil heating capability for larger voltage class units. Included in the cost is a small crane to handle the components to install and the oil handling equipment. The following test will be performed TTR, DCR, DGA, CT Ratio, Core Ground Megger, and Transformer Megger. We will perform Power Factor on units above 69KV.

Crane Service

The crane cost is required if the scope of the work requires a crane to offload the transformer from the truck to the pad. This crane is seldom used to install the components on the job.

Transformer units with Conservator having Air Bladder

VTC supplies installation crew to install conservator, conservator, bracing, etc. If the unit is shipped drained of oil we will require a complete filling in the field. The oil is usually delivered to the site in a tanker truck and filled from the truck. This operation will normally require the use of a vacuum pump, oil pump and filter, and if required oil heating capability for larger voltage class units. Included in the cost are a small crane to handle the components to be install and the oil handling equipment.

Hot Oil & Vacuum Processing

VTC offers hot oil processing. Our hot oil processing consists of heating the oil going to the transformer. We offer this on new installs. During vacuum processing VTC will apply a vacuum to the transformer. This is on transformers designed for full vacuum only. The vacuum level will be approximately 1 torr. This vacuum will be for 24hrs prior to oil filling.

Notes:

1. Pricing assumes clear and unobstructed ingress and egress around the work location. VTC will not be responsible for additional costs incurred for delays caused by unimproved sites that are unable to support vehicles and cranes on the scheduled days. VTC will not be responsible for relocating any obstructions to the work site nor for any improvements to allow access to the work site.
2. Crane costs assume unobstructed access to placement area without interference from walls, dykes, fences or substation structures. If obstructions exist, additional cost will possibly be incurred that will be passed along.
3. The customer is responsible for all transformer grounding and connections to bushings and external alarm and control wiring entering junction box.
4. Pricing is based on performing the work with VTC technicians or contracted services at VTC's choice. VTC's on site personnel are to have full and complete access to work on the equipment regardless of union contract rules.



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FIELD SERVICE INSTALLATION AND SERVICE ENGINEERING

DOMESTIC (US, CANADA & MEXICO)

| Service Type | Straight-Time | Overtime & Saturdays | Sundays & Holidays | 1-4 hours | 5-8hours |
|---------------------------------|---------------|----------------------|--------------------|-----------------|-----------------|
| Field Service Tech Hourly Rate | \$175 | \$250 | \$300 | 4 hours Minimum | 8 hours Minimum |
| Engineering Service Hourly Rate | \$275 | \$415 | \$550 | 4 Hours Minimum | 8 Hours Minimum |

TRAVEL, LIVING AND INCIDENTAL EXPENSES are not included in any of the hourly rates and shall be billed at cost plus a handling charge of 15%. Rates exclude special tools and equipment.

TERMS OF PAYMENT are on an estimated basis: 100% in advance. Adjustments will be made upon presentation of invoice (within 10 days of invoice date). Interest is payable for late payment.

CALCULATION OF TIME RATES

STRAIGHT-TIME is defined as time worked on a regular schedule 8 hours between 7:00 am and 6:00 pm, Monday through Friday; or for time worked on any other agreed to schedule of 8 hours per day, Monday through Friday. Each hour of straight-time shall be paid for at the straight-time rate.

OVERTIME is defined as time worked in excess of or at times other than the regular straight-time schedule. Each hour of overtime shall be paid for at one and one-half times the straight-time rate, except that hours worked in excess of 16 per day, Monday through Friday, or in excess of 8 hours on Saturday, and hours worked on Sunday and Holidays shall be paid at two times the straight-time rate. A Holiday is any day observed by the purchaser as a Holiday in the place where the work is being performed.

STANDBY TIME is defined as time, up to 8 hours per day, Monday through Friday, during which the SERVICE TECHNICIAN, during the course of this agreement, is available for work but is not working due to circumstances beyond the control of Virginia Transformer Corp. Each hour of Standby Time shall be paid at the Straight-Time rate.

TRAVEL TIME is defined as the time spent by the SERVICE TECHNICIAN in traveling to the job site and returning, including travel occurring on Saturday, Sunday or Holidays. Time is calculated portal to portal. The rate charged for Travel Time is the same as the work rate.

TIME WORKED, TRAVEL TIME AND STANDBY TIME occurring on the same day will each be charged at the rates and within the limitations as foresaid.



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VTC contracts with carriers to transport products from our factory to the customer's site. Transformers are delivered by truck to final destination. When customer acknowledges our delivery plan, we begin acquiring a vehicle for the load requirement. Height and shipping weight of the transformer determine the truck capacity.

Three types of truck-bed configurations are available:

- **Standard flat-bed trucks** have bed heights approximately 5 feet from truck bed to the ground
- **Single-drop trucks**, have bed heights 3 to 4 feet from truck bed to ground and carry taller units.
- **Double-drop trucks**, have bed heights 1.5 to 2 feet from truck bed to ground and carry tallest units.
 - Cannot travel certain roads due to low clearance.

Transformer weight can require a truck to have more wheels and axles than the standard 18 wheel configuration. The ICC determines maximum weight that can be legally transmitted to a truck's axle. An additional axle or two is often required to distribute the weight.

Trucking companies or their regulating agencies determine when a product can leave our factory:

- Availability of low-profile trucks may delay shipment. Delays of 2 or 3 days are common for double-drop bed.
- ICC regulations govern when a heavy or tall load can be transported over the highways. Weight and height may restrict driving hours, and holiday weekends impose additional restrictions on heavy loads.
- States limit load size during wet periods that soften highway lanes. Construction can detour large loads, adding to transport time. State permits for heavy loads may take several days to clear licensing bureaus.

Parts trucks will not commit to direct delivery. These vehicles maximize loading by making accessory pickups and deliveries along their routes. Tarpaulin covers can be provided as a price adder for salt-laden winter highways.

Scheduling truck delivery

Transformers and components will be carried to all designated ship-to address. After scheduling, VTC will advise customer of expected delivery date. VTC instructs carrier to call customer as unit approaches delivery site (cell lines recommended).

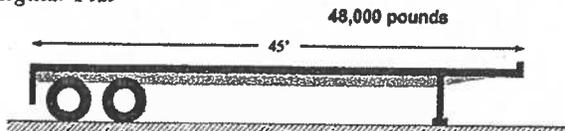
Placing transformer at site

Site conditions must be such that an effective delivery can occur. Truck must have negotiable path to transformer offload site, path must be close proximity to delivery site. The off-load area must accommodate simultaneous presence of the truck and a large crane, allowing crane access to both the transformer and the pad. Sufficient overhead clearance must allow the crane to lift the transformer, convey it to the site, and set it in place without hesitation or risk of harm. VTC is neither responsible for costs at inadequately prepared sites, nor re-location of obstructions or site improvements to facilitate offloading. Obstructions to the delivery process will incur additional costs to the customer.

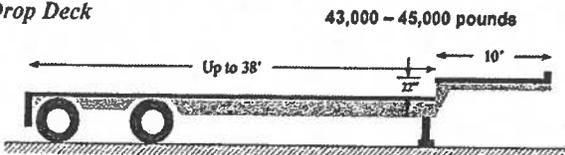
Dress out at site

VTC can provide an installation crew to install bushings, radiators, arrestors and other ship-separate accessories, and oil filling for units shipped without oil (vacuum pump, oil pump, oil filter, and small crane). Oil will be delivered to site by tanker, and filling of the transformer will be made directly from the tank truck.

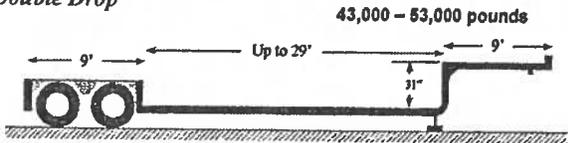
Regular Flat



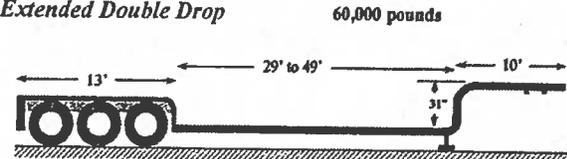
Drop Deck



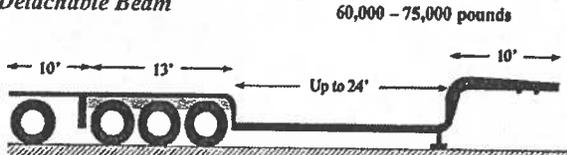
Double Drop



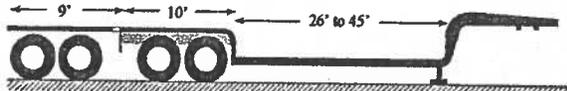
Extended Double Drop



Detachable Beam



Each additional axle increases maximum load 20,000 pounds.





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HISTORY

Virginia Transformer Corp was established and incorporated in the Commonwealth of Virginia in 1971 to supply Power Transformers to the underground mining industry in the nearby Appalachian Mountains. Low profile construction, tough environmental conditions, and other non-standard specifications required for both Dry-type and Liquid-filled Power Transformers in this application started VTC down the road of custom transformer designs and manufacturing excellence.

During the 70's, our customer base and product scope became more diversified, adding rectifier duty transformers and reactors for adjustable frequency drive and NEMA R19 extra heavy duty traction applications. Most major urban transit systems today employ transformers built by Virginia Transformer Corp. Later in this decade, VTC also established a predominate reputation for retrofitting the PCB market.

Beginning in the 80's, our current President took the helm at Virginia Transformer Corp. Our product range was further expanded to include Industrial and Commercial Power Transformers for distribution applications, including those with automatic load tap changing requirements, and our trademarked fully encapsulated coil UNICLAD® transformer. This decade saw the beginnings of the truly phenomenal 10% - 30% annual growth of VTC, which has been further exceeded in recent years with a continuation of product line expansion into the larger voltage class II sizes of Power Transformers.

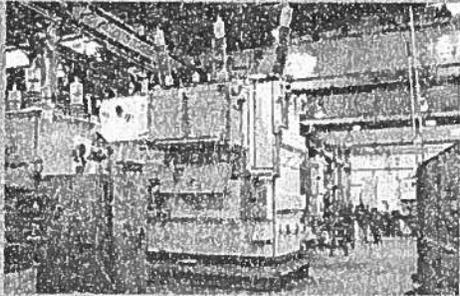
The 90's witnessed entry into the demanding Utility market, as customers sought to find additional suppliers for their requirements of high quality and lower cost units. During this decade VTC moved to a new facility and its current corporate headquarters – a 120,000 square foot custom designed facility for modern transformer manufacturing. Virginia Transformer Corp further expanded by adding a second custom manufacturing facility in Chihuahua, Mexico. This modern state-of-the-art 60,000 square foot operation, designed from the ground up as a transformer plant, has been ISO certified from the beginning. Visiting customers have proclaimed it to be one of the finest facilities for manufacturing transformers in North America.

During the 21st century, Virginia Transformer Corp continued to grow, acquiring the U S Transformer West facility in Pocatello, Idaho – providing yet another step toward world-class recognition. In addition to this facility building new Medium Voltage class Power Transformers, currently up to 100MVA top rated at 161kV, they also provide world-class reconditioning and repair services to both Utility and Industrial clients. Today, VTC stands at the top as a worldwide presence in the Power Transformer industry providing individualized solutions and custom designs with Dry-type and Liquid-filled transformers from its three manufacturing facilities in North America. All major components, core and coil assemblies, tanks, etc. are produced on-site with complete testing capabilities up to 950BIL for the complete range of Power Transformers – 300KVA to 300MVA, 230kV class for Utility, Industrial, Commercial, and Export markets. You won't find a more capable, full service company than Virginia Transformer Corp to meet your needs.

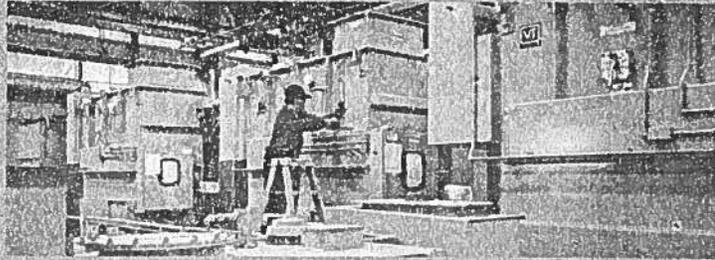
As we look forward to the next century, our focus on high quality, affordable, and best delivery of Power Transformers to meet the ever growing demand of our expanding client base drives and challenges Virginia Transformer Corp daily to provide the highest level of customer service and satisfaction. Although we, like everyone else, occasionally may have an issue with a transformer, VTC's commitment to respond rapidly and take responsibility will remain at the forefront of our obligations to clients.

OUR FACILITIES

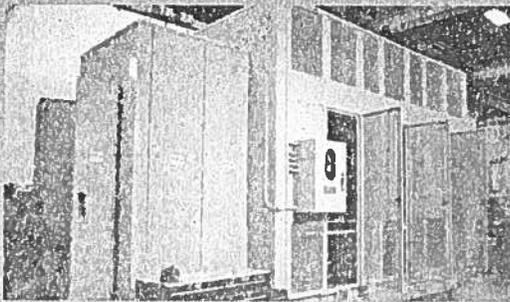
ROANOKE, VA



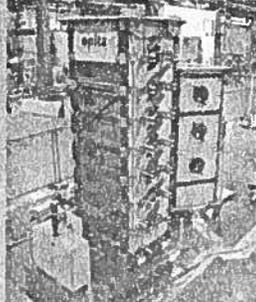
Roanoke VA shop floor



Worker in the Finishing department in Roanoke



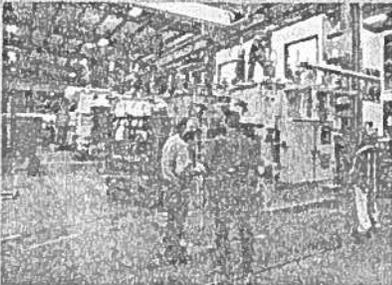
UNClad transformer in Roanoke



Roanoke test area



Sween core-cutting machine in VTCR

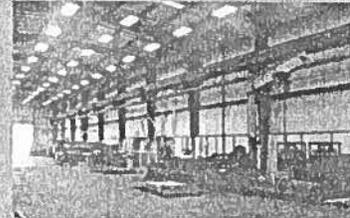


Stack table in Roanoke

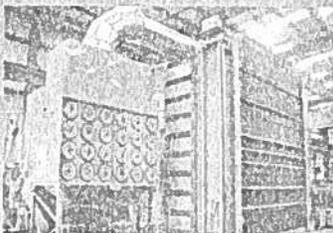
TROUTVILLE, VA



Troutville, VA



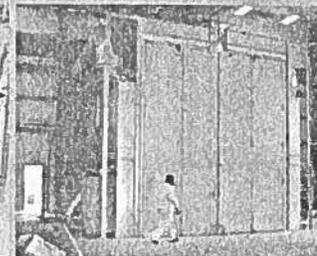
Metal fab



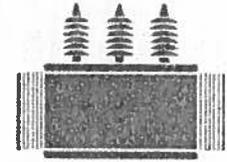
Sandblasting booth



Welding



Paint booth



ROANOKE, VA - HEADQUARTERS

The headquarters for our corporation is located a few miles away from the picturesque Blue Ridge Parkway. Designed and constructed specifically to produce power transformers, this 145,000-square-foot manufacturing facility is absolutely state-of-the-art.

- A vapor-phase drying (VPD) system executes optimum insulation dryness to achieve a 60-year life. The automated VPD system is computer controlled; technicians can download the process parameters to their cell phones and two transformers can be processed simultaneously. The chamber maintains a vacuum level of 125 torr.
- A second core-cutting machine was also installed to increase capacity and eliminate a critical single point of failure. The machine cuts a 26-inch-wide core. The edge burr level on this Soenen core-cutting machine is measured with a laser and is typically less than 20 microns. The burr-free edges deliver the lowest losses and the transformer sound level is reduced by 2dB.
- Our instrumented, fully equipped test room with complete diagnostic capabilities has the ability to produce test reports automatically.
- All floors of the plant are sealed to eliminate floor dust.
- Four winding machines were added to increase the capacity to build larger coils. The plant is equipped to manufacture 60MVA, 138kV, 650kV BIL as well as manufacturing dry type to 10MVA, 35kV, 150kV BIL.
- The flow of data to our Soenen core-cutting machine is seamless; it reduces human intervention and works virtually error-free. The Soenen software generates a file with cutting data that uploads the file onto a server. When the operators are ready to cut a particular job, they simply pull up the file with the assigned job number using the machine interface; no modifications needed.

TROUTVILLE, VA

In December 2013, an extension of the Roanoke facility was developed 11 miles from the main plant; tank fabrication, sand blasting and the paint process were relocated there. We strive for the highest quality and efficiency in production through increased computer-aided automation, our automatic paint system, robotic welder, and the barcoding of materials.

The tank fabrication facility is equipped with a welding robot that delivers leak-free welds, a downdraft sandblasting booth for personnel safety, and an SP-10 finish per SSPC standards for premium paint adhesion.

The paint system is an epoxy primer on an activated surface and a top coat of polyurethane baked to a hard finish to prevent rusting.

The plasma table has been fitted with an etching gun to mark the location of all accessories thus eliminating missed parts.

Machines and work stations are laid out in close proximity to material storage that feeds particular machines and workstations. This process-influenced layout reduces material movement, forklift traffic, and efficiently utilizes overhead cranes.



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Transformer design and construction

Virginia Transformer Corporation has 5 manufacturing facilities, each specializing in specific sizes of transformers. This delineation of manufacturing allows VTC to achieve maximum efficiency and short lead time for production, yet maintain technical and commercial continuity among the 5 locations. Our plant in Chihuahua, Mexico manufactures dry transformers and smaller oil filled units. Our Roanoke, Virginia facility is our company headquarters, and manufactures the mid-sized oil transformers, and large dry units. Large power transformers are manufactured in our Pocatello, Idaho plant, which also has repair and remanufacturing facilities.

Design practices: Transformer design at VTC utilizes a software program that was developed more than 18 years ago with Virginia Tech in Blacksburg, VA. Today's version of the program includes updates and modifications that reflect the latest developments in manufacturing techniques. This Visual Basic program also incorporates actual performance data which has been acquired by VTC over these many years.

Short circuit withstand: Every VTC facility designs transformers to the same exacting standards with respect to short circuit capability. Each unit is designed to tolerate the currents that occur during an imposed short circuit condition, and the blocking methods used to strengthen the coil have been repeatedly tested in certified testing laboratories (see list of transformers tested).
Transformer base: Virginia Transformer has two base designs, both of which have proven to have superior rigidity and flexibility to adapt to any foundation design. Our structural base uses strengthened members to carry the weight of the transformer at critical locations. Our solid, flat base is sized to distribute weight over the complete base assembly, while providing the same skidding, rolling and pulling capabilities as our structural base.

Core: The core is made from cold-rolled, grain-oriented silicon steel with a Carlite 3 coating to accommodate maximum volts-per-turn applications. These special steels are purchased from AK Steel, and are made to AISI and ASTM standards. Core segments are cut on our precision core cutting line at the Roanoke, VA facility, where burr limit has been established at less than 5 ten thousandths of an inch (0.0005). The majority of our transformers use a 'Step-Lap', miter-cut core design, which provides minimum core loss and reduced flux density.

Horizontal core members (yokes) are clamped using core brackets instead of thru bolts. The brackets are made from mild steel, and are tightened against the core yokes by a VTC-designed, pre-stressed tension bar. The tension bar is attached to the bracket, and as the tensioning bolts on the bracket are tightened, the bracket works as a bow to apply equalized surface pressure to the yokes.



Vertical members of the core (legs) are clamped using tie plates (sometime called fitch plates). The tie-plates are supported at either end by the brackets that brace the core yokes. As the yoke brackets are tightened, these tie plates snug against the core legs to maintain tension on the core's vertical members. Core laminations are insulated from the brackets and clamps by sheets of Nomex insulation. A single core ground is established by inserting a copper strip into the top yoke of the core. An insulated electrical cable is terminated on this copper strip, with the other end of the cable being connected to a feed-thru bushing. This design provides core ground access on the outside of the tank.

Coils: Electrical grade coil wire is purchased from Algonquin Wire and Cable, where the conductors have been insulated with wraps of Kraft paper. The kraft insulating paper is applied in multiple layers using half-lapping or over-lapping for thorough insulation. Coil winding takes place in an environmentally controlled winding room. This room is isolated from the other manufacturing processes to avoid contamination of the windings. Technicians wind the coils according to a design package from the engineering staff. Coil winding practices and procedures are described in the VTC winding manual, which details each step of the winding process. HV and LV windings are wound on individual core tubes of Wiedmann insulation. The coils are sized using a hydraulic press to achieve appropriate electrical height. Windings are manufactured as circular disc for the high voltage winding and helical disc for the low voltage winding. Ducts between the high voltage and low voltage windings give the required electrical isolation and provides a channel for cooling. These ducts are formed with insulating wraps, adhesive kraft paper and dog-bone type spacers. Coils are supported on the bottom yoke with a clamping ring. Blocks located above the clamping ring then support the coil in line with the key spacers. Additional clamping rings are used at the top of the coil. Coils are braced to 600 lbs. per square inch (4.14 newtons per square mm).

Coil and core drying: Core and coil assemblies are placed inside a gas-fired drying oven. The drying process is continuously monitored to lower power factor levels to below 0.5%. When appropriately dried, assemblies are re-tightened and promptly tanked. Electrical connections are made and the tank is filled with insulating oil. Power factor levels are again measured during testing and at shipment to verify the power factor is below 0.5%. Our units are guaranteed to have a power factor below 0.5%, and regularly are below 0.3%.

Windings: The most popular winding design is the circular disc. Disc windings consist of a number of individual discs, wound from either a single conductor or with multiple conductors wound in parallel. The conductive turns are wound radially over each other, and the conductors pass uninterrupted from one disc segment to the next. Disc turns are isolated from the insulating cylinder by insulating strips that traverse the entire width of the coil. Wiedmann spacers, which are keyed to the vertical strips, separate the individual discs one from the other. These vertical and horizontal spacers provide a system of ducts which are critical in providing unrestricted circulation of cooling oil. With disc windings, the cooling oil is in contact with each turn of the winding. Keyed coil spacers prevent dislodging after winding, and provide a rigid assembly with sufficient strength to withstand short-circuit stresses.



Tank Fabrication: Virginia Transformer has tank fabrication or tank repair capabilities at each of its facilities. In addition, each facility has a support fabricator, approved by VTC to insure meeting urgent schedule requirements. Each tank is leak tested prior to delivery and is shotblasted and primed to prevent rust. All tanks are cycled thru pressure and vacuum phases throughout the manufacturing process. Tank seams are continuously monitored after filling with oil to ensure that no leaks are present.

Quality Assurance: Virginia Transformer has a rigid and well-established quality assurance program, as attested by the ISO-9001 certification we have held since 1998. Virginia Transformer has one Quality Assurance Manager, with responsibility for the quality programs at all of our sites. The quality system incorporates inspections, measurements, and manufacturing hold criteria to ensure that manufacturing objectives are met. Non-conformities to acceptable practice are documented and sent to appropriate departments, where an analysis is made to determine the cause and prevention of recurring events. Emphasis on quality is also attested by our RUS listing for 5mva thru 30mva units to 138kv. All three of our facilities presently hold ISO certification and have been successfully updated to the latest ISO-9001:2008 certification.

TESTS AND THEIR SIGNIFICANCE

Ratio and Phase Relationship Test

The function of a transformer is to transform power from one voltage level to another. The ratio test ensures that the transformer windings have the proper turns to produce the voltages required. The ratio is a measure of the RMS voltage applied to the primary terminals' to the RMS voltage measured at the secondary terminals.

The Standards state that when rated voltage is applied to one winding of the transformer, all other rated voltage(s) at no load shall be correct within 0.5% of the nameplate readings. It also states that all tap voltages shall be correct to the nearest turn if the volts per turn exceed the 0.5% of the desired voltage. The ratio test verifies that these conditions are met.

The primary and secondary windings in a three-phase transformer may be connected in a delta, wye or other configuration, and depending upon which of the individual windings are connected to each other the angular displacement between them. The phase relationship test verifies the delta, wye or other configuration and the angular displacement between the vectors.

Single phase transformers may have subtractive or additive polarity.

The polarity and phase relation tests are important when two or more transformers are to be paralleled. Paralleled transformers must have the same polarity and phase relation to avoid partial or complete short circuits.

Resistance Measurement

This is a measure of the resistance of the conductors in the transformer windings. The resistance measurements have two important functions:

- (a) For calculation of the temperature of the windings during the temperature test.
- (b) For calculation of the I²R component of the winding losses.

The resistance measurement is corrected to either 75° C or 85°C depending on the average winding temperature rise of the transformer. The Standards have established 55°C and 65°C as standard temperature rises for liquid-filled transformers. Therefore, the corrected temperature is the winding's average temperature rise plus 20°C ambient temperature.

Insulation Resistance Test

The insulation-resistance test, which is commonly referred to as the megger test is used as an indication of the dryness of the insulation. This test although not classified as a routine test is done on a routine basis by many manufacturers to determine the condition of the insulation prior to testing.

In measuring insulation resistance it is the recommended practice to always be sure that the tank and the core iron are grounded, Short circuit each winding of the transformer at the terminals, Resistance measurements are then made between each winding and all other windings grounded, Windings are never left floating for insulation resistance measurements,

The insulation resistance varies with moisture content, cleanliness and temperature of the insulation parts, since the values vary with temperature, all measurements are corrected to 20° C for comparison purposes.

Insulation Power Factor

The insulation power factor test is another test that can be performed to determine the condition of the transformer insulation. The measurement is made with a capacitance bridge, measuring the capacitance between windings and between windings and ground, together with the power factor or loss angle of these capacitances.

This test is optional. The factory insulation power factor measurement can be of value for comparison purposes with field power factor tests. At this time there are no set standard for the acceptable power factor readings. Acceptable power factor readings are a matter of judgment and experience. Therefore by comparing the factory and field readings, changes in the insulation can possibly be detected.

No Load Loss and Exciting Current Test

The exciting current and the no-load losses are a function of the frequency, voltage and the wave shape of the voltage.

The exciting current and no-load losses are determined from the same test set-up. In which the transformer is energized open circuit. Any of the transformer winding is subjected to the rated voltage. Low Voltage side is preferred to be excited from power source, since that is easy from practical point of view. No Load Loss can be read directly from wattmeter

The no-load or excitation loss actually consists of mainly the iron loss of the core. The iron loss can be controlled to some degree by the quality of the core steel, the point on the performance curve where it is to be operated and the type of core used. Generally, a lower iron loss design will cost more initially, but the long range energy savings will usually more than offset that initial cost differential.

The exciting current test is one of the means used to verify that the core design and its satisfactory performance. The exciting current can be read directly from the ammeter.

The exciting current consists of a magnetizing and a loss component. The magnitude of the magnetizing component is determined by the shape of the performance curve of the core steel, its operating flux density and the number of turns in the primary winding. The loss component is determined by the losses in the core.

Load Loss and Impedance Measurement

The load loss and impedance are determined from what is sometimes referred to as the "short-circuit" test. The secondary of the transformer is shorted and sufficient voltage is applied to the primary terminal to circulate rated current through the primary winding.

The impedance is normally expressed in terms of percent of rated voltage. The impedance voltage is that voltage required to circulate the rated current through the primary winding with the secondary shorted.

The impedance test is made to verify the design impedance. The impedance, due to manufacturing tolerance, tends to vary from design values. For this reason, the Standards have established impedance tolerances as follows:

1. For two winding transformers7.5%
2. For three or more windings or Zig-Zag windings. 10%

The user and the designer are interested in the measured impedance primarily because it determines the amount of current which will flow in the windings during short circuit.

The magnitude of the short circuit current is important to the designer because it establishes design criteria for the mechanical strength of the internal assemblies, and to the user in determining breaker capacities and selecting correct fuses and properly coordinating relaying schemes.

The impedance is also important when paralleling two or more transformers. The impedance of the paralleled transformers must be within the specified test tolerances. A transformer whose tested impedance is higher will cause the other transformers to carry more than its share of the load.

Dielectric Tests

The insulation in a transformer is probably the most important of its constructional materials. A transformer can function if the efficiency and regulation are poor, temperature rise is too high or if the mechanical strength is marginal. But if the insulation is inadequate and fails, the transformer is unusable. The effectiveness of the insulation in a transformer can be measured by its dielectric strength.

The purpose of the dielectric tests is to verify the dielectric strength of the insulation or in the case of the manufactured transformer to demonstrate the suitability of the insulation to withstand the test levels defined in the Standards. There are two dielectric withstand routine tests that can be performed on a transformer: (1) applied potential test, and (2) induced potential test. Each of these tests, as will be shown, has a specific purpose in verifying the major and minor insulation system of the transformer. The major insulation consists of the phase-to-phase and phase-to-ground insulation and the insulation separating the primary and secondary windings. The layer-to-layer, turn-to-turn and section-to-section insulation make up the minor insulation.

Applied Potential Test

This test is sometimes referred to as the "hypot" or the low-frequency test. The purpose of this test is to check the adequacy of the major insulation to ground and to all other windings being tested.

In this test all windings are short circuited and all windings except the one being tested and the tank are grounded. The voltage to be applied to the ungrounded winding has been established by ANSI C57.12.00. This test is made at 60 hertz and has duration of one minute.

Induced Potential Test

The purpose of this test is to check the minor insulation of the transformer. This test is accomplished by applying to one set of line terminals of the transformer with the other set open circuited. For Class I transformers, this test is conducted at double the rated voltage for 7200 cycles. Generally the source used for this test has frequency of 120 Hz or more.

Partial Discharge Test

Corona is the generic name for electrical discharges that occur in electrical insulation as a result of high velocity ionization under the influence of an electric field that exceeds the dielectric strength of the insulation.

Corona and the term partial discharge are used interchangeably when referring to this phenomenon in transformers. The partial discharge terminology is preferred since it most accurately describes the occurrence.

Much has been written concerning the cause of partial discharges. Some of the conditions that can initiate partial discharges are:

1. Improper processing or drying of the insulation.
2. Over stressed insulation due to a lack of proper recognition of the voltage limitation of the insulation.
3. High stress areas on conducting parts, which can be caused by sharp edges on either the conducting part or ground plane.

The effects of partial discharge in a transformer are twofold. One effect is that the ion and electron bombardment can be damaging to the insulation and shortens the life of the transformer. The other effect is that the transient currents produced due to partial discharges, may interfere with electrical communications,

Transformer manufacturers have been aware of the consequences of partial discharges in transformers for many years and have developed drying and processing procedures as well as insulation systems that virtually eliminate the presence of damaging partial discharges. For this reason the partial discharge test has been classified as optional. The test is performed periodically for quality control reasons, prototype testing or when specified by the user,

Several techniques have been developed to measure the intensity of partial discharges. The most generally used is the Radio Influence Voltage (RIV) technique. The radio frequency voltage produced by the partial discharges can be measured at the transformer terminals with a coupled radio.

VTC Short Circuit Tested Jobs

| TEST NUMBER | TEST REPORT # | DATE | PLACE OF TEST | SERIAL NO | DRY OR LIQUID | KVA | PRIMARY VOLTAGE | PRI BIL | SECONDARY VOLTAGE | SEC BIL |
|-------------|---------------|------------|------------------------------|---|----------------|---------------------|-------------------------|---------|--------------------------|---------|
| SC01 | SCT2113 | 6/9/1983 | GE PITTSFIELD, MA | 340835B001-3034.2 | DRY | 835 | 12470 | 95KV | 648 delta & wye | 10KV |
| SC02 | LTR84 10482 | 6/11/1984 | GE PITTSFIELD, MA | 442000A002-3389 | LIQUID | 2000 | 13800 | 95KV | 480y/277 | 30KV |
| SC03 | J90093C | 5/7/1990 | KEMA CHALFONT, PA | 342233B502-5744B | DRY | 2233 | 13800 Y | 110KV | 550 delta | 10KV |
| SC04 | J92001-C | 1/7/1992 | KEMA CHALFONT, PA | 343257B501-6085 | DRY | 3257 | 13800 | 110KV | 468 delta & wye | 45KV |
| SC05 | VIRG021892 | 2/27/1992 | WESTINGHOUSE BELMONT, NC | 342245A501-6560A | DRY | 2245 | 13800 | 110KV | 556 delta | 10KV |
| SC06 | VIRG021892 | 2/27/1992 | WESTINGHOUSE BELMONT, NC | 342245A502-6561A | DRY | 2245 | 13800 Y | 110KV | 556 delta | 10KV |
| SC07 | T022121A | 4/16/1992 | PSM LAB PITTSBURGH, PA | 447500A001-6520E | LIQUID | 7500 | 12470 | 110KV | 4160 Y | 95KV |
| SC08 | T022121B | 5/22/1992 | PSM LAB PITTSBURGH, PA | 36224A504-6563C | DRY | 2245 | 34500Y | 150KV | 556 delta | 10KV |
| SC09 | T022121B | 5/22/1992 | PSM LAB PITTSBURGH, PA | 362245A504-6562C | DRY | 2245 | 34500 | 150KV | 556 delta | 10KV |
| SC10 | T100921 | 11/20/1992 | PSM LAB PITTSBURGH, PA | 425000A006-6577B | LIQUID | 5000 | 4160 | 60KV | 2080 Delta & wye | 45KV |
| SC11 | T061823 | 7/28/1993 | PSM LAB PITTSBURGH, PA | 343292U501-6494C | DRY | 3293 | 13200 | 95KV | 490 Delta & wye | 10KV |
| SC12 | T011932 | 3/4/1993 | PSM LAB PITTSBURGH, PA | 354366U501-6494H | DRY | 4366 | 26400 | 150KV | 490 Delta & wye | 10KV |
| SC13 | VIRG051393 | 5/13/1993 | WESTINGHOUSE BELMONT, NC | 341110A501-6990 | DRY | 1110 | 13200 | 95KV | 644 Delta & wye | 20KV |
| SC14 | VIRG100295 | 10/10/1995 | CUTLER HAMMER BELMONT, NC | 340835A001-8027A | DRY | 835 | 13200 | 95KV | 590 Delta & wye | 45KV |
| SC15 | VIRG072798 | 7/27/1998 | CUTLER HAMMER BELMONT, NC | M43476Q501-8944A Transformer Models 341738U001-8944A#A 341738U002-8944A#B | DRY | 1738x2 | 13200 | 95KV | 490 | 20KV |
| SC16 | 99067-B | 4/19/1999 | KEMA CHALFONT, PA | M43476Q502-9017B Transformer Models 341738U001-9017B#A 341738U002-9017B#B | DRY | 1738x2 | 13200 | 95KV | 490 | 20KV |
| SC17 | 00017-B | 1/28/2000 | KEMA CHALFONT, PA | M53476Q501-9343A Transformer Models 351813U501-9343A#A 351663U503-9343A#B | DRY | 1813X1 1663X1 | 26400 | 150KV | 490 | 20KV |
| SC18 | 00120-B | 7/10/2000 | KEMA CHALFONT, PA | 47015MA012-9617A | LIQUID | 15/20MVA | 69000 | 350KV | 13800 | 110KV |
| SC19 | 0169-B | 9/21/2000 | KEMA | 342130B04-9629G Transformer connected to rectifier | DRY | 2130 | 12500 | 95KV | 466 delta & wye CKT31 | 10KV |
| SC20 | 01014-B | 3/1/2001 | KEMA CHALFONT, PA | 44017MA002-9823 | LIQUID | 16.5/22/27.5 MVA | 13800Y | 110KV | 13200 | 110KV |
| SC21 | 02107-B | 8/22/2002 | KEMA CHALFONT, PA | 361087B502-A037N | DRY | 1087 | 34500 | 150KV | 587 Delta & wye CKT31 | 10KV |
| SC22 | 02205-B | 11/5/2002 | KEMA CHALFONT, PA | 351663U001-A139B | DRY | 1663 | 21000 | 125KV | 627 Delta & wye CKT31 | 30KV |
| SC23 | 20109-26 | 7/23/2010 | POWERTECH VANCOUVER, BC | 463230A001 - B307B | LIQUID | 3300 | 34.5kv | 200KV | 549 Delta & Wye CKT31 | 30kv |
| SC24 | 10175-B | 8/2/2010 | KEMA CHALFONT, PA | 453196A001 - B377B | LIQUID BETA | 3196 | 23kv | 200KV | 507 Delta & Wye CKT31 | 30KV |
| SC25 | 10254-B | 11/9/2010 | KEMA CHALFONT, PA | 464274A001 - B451A | LIQUID FR3 | 4274 | 34.5 kV | 200 kV | 785 Delta & Wye CKT31 | 45 kV |
| SC26 | 10261-B | 12/13/2010 | KEMA CHALFONT, PA | 361638B001 - B450A | DRY | 1638 | 34.5 kV | 170 kV | 617 Delta & Wye CKT31 | 45 kV |
| SC27 | 15019-B | 1/27/2015 | KEMA CHALFONT, PA | 463220A001 - C252A | LIQUID FR3 | 3220 | 34.5 kV | 200 kV | 785 Delta & Wye CKT31 | 45 kV |
| SC28 | 15110 - B | 5/27/2015 | KEMA CHALFONT, PA | 341000U529W - WB247B | DRY | 1000 | 13.2 kV | 95 kV | 480 Wye Dyn1 | 10 kV |
| SC29 | 15143-B | 7/9/2015 | KEMA CHALFONT, PA | M53476Q001-C326A Two C&C in one Tank 451813A001-C326A#A 451663A001-C326A#B | LIQUID FR3 | 1813X1 1663X1 | 26400 Delta & Wye | 150KV | 490 Delta & Delta | 30KV |
| SC30 | 15175-B | 8/25/2015 | KEMA CHALFONT, PA | 443450A001 - C336A | LIQUID FR3 | 3450 | 13.2 kV | 110 kV | 490 Delta & Wye CKT31 | 30 kV |

Standard Warranty Statement

Virginia Transformer provides a standard warranty, as described in our Standard Terms and Conditions of Sale, dated March, 2023. This warranty is for twelve (12) months from date of equipment installation or eighteen (18) months from date of shipment, whichever occurs first. The warranty period for repaired/refurbished articles shall extend for the unexpired warranty period of the item repaired or replaced or for 90 days, whichever is longer. VTC warrants to, at Seller's exclusive option, repair or replace a failure or warranty nonconformance, substantiated by Seller's authorized personnel, or with Seller's return authorization and Buyer making available product (FOB factory) Seller's plant, for any equipment we manufacture during this period which has become defective exclusively due to defective material or workmanship, when failure occurs under normal and proper use. Buyer shall make the equipment available to VTC to perform work at the job site without interference or duress. No guarantee, warranty or liability for damage exists other than stated herein. VTC's warranty on purchased components is limited to the warranty provided by the component manufacturer. VTC will not assume any liability of expense for repairs or modifications to equipment unless previously authorized in writing by VTC. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SELLER DISCLAIMS IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

VTC will not accept consequential damages under any circumstances. Before replacement or repairs take place, VTC shall first perform an examination upon the equipment in question to confirm that the warranty remains valid and has not been voided. Please note conditions which may void your warranty, present and detailed in VTC's proposal, under Section 16 of Virginia Transformer Corporation's Standard Terms and Conditions.

Warranty Options

Virginia Transformer offers Extended Warranties for time periods beyond the 12/18 months in the Standard Warranty. VTC also offers In/Out coverage on the transformer. The following paragraphs describe all of these added warranties.

Extended Warranty for Core and Coil (Optional)

Virginia Transformer Corporation offers extension(s) to the standard warranty. The extended warranty covers only the coils and core against failure that occurs with respect to normal operation of the transformer, and within the parameters for which the transformer was designed. Extended Warranty is valid only if a technical representative of Virginia Transformer Corp. performs, as a minimum, supervision of field assembly and testing of the Transformer. This coverage excludes bolted electrical and mechanical connections, which are to be periodically checked and retightened, as necessary, by the Owner as part of their normal

maintenance programs. Please consult with your VTC representative for quotes of extended warranty coverage. Available (extended) warranty periods are as follows (equipment installation/shipment):

24/30 months; 36/36 months; 48/48 months; 60/60 months

Extended warranty _____
option

Extended Bumper to Bumper Warranty (Optional)

Virginia Transformer Corporation offers extension(s) to the standard warranty. The bumper-to-bumper extended warranty will cover the entire Transformer including the core and coils and all associated transformer accessories against failure occurring with respect to normal operation and within the parameters for which the transformer was designed. Bumper to Bumper Warranty does not cover normal wear and tear including paint and gaskets beyond five years. For extended Warranty period, to ensure validity of Extended Warranty period coverage, Virginia Transformer requires Dissolved Gas Analysis (DGA) reports of the supplied unit to be provided every year for the period of extended warranty coverage, and the additional data as stated in Section 16(A) The annual DGA's should be emailed to:

FieldService@vatransformer.com. Failure to conduct annual DGAs and provide the reports to Seller may void the purchased extended warranty. Except for the extended time all other provisions, terms, conditions, and limitations set forth above shall apply to the extended warranty period. Please consult with your VTC representative for quotes of extended warranty coverage.

Extended warranty _____

In/Out Coverage (Optional)

In/Out coverage is a warranty enhancement available during the Standard Warranty and Extended Warranty period. For failures occurring within the stated warranty period, if In/Out coverage is purchased, VTC will cover only the expenses to transport the transformer to a repair facility and return the transformer to customer's site for warranty failures within the period defined. Buyer will make the transformer ready for shipment in the condition it was originally received from VTC (as per outline drawing), with clear and free access by our selected courier. Civil work, disconnection, and reconnection, etc. are the responsibility of the Buyer. Please consult with your VTC representative for quotes of in/out coverage

In/Out coverage _____

C57.12 ANSI Standards

IMPEDANCES

| HV BIL (kV) | LV Below 2400V | LV 2400 and above | LTC | Dry Type |
|-------------|----------------|-------------------|-------|----------|
| 10-60 | 5.75 | 5.75 | -- | 5.75 |
| 60-110 | 5.75* | 5.50* | -- | ** |
| 150 | 6.75 | 6.50 | 7.00 | ** |
| 200 | 7.25 | 7.00 | 7.50 | -- |
| 250 | 7.25 | 7.50 | 8.00 | -- |
| 350 | -- | 8.00 | 8.50 | -- |
| 450 | -- | 8.50 | 9.00 | -- |
| 550 | -- | 9.00 | 9.50 | -- |
| 650 | -- | 9.50 | 10.00 | -- |
| 750 | -- | 10.00 | 10.50 | -- |
| 900 | -- | 10.50 | 11.00 | -- |

* For transformers above 5000 KVA these values shall be the same as shown for 150 kV BIL.

** ANSI standards do not specify impedances for these ratings but industry is presently using the impedance values shown for the respective liquid/dry values as shown.

VOLTAGE BIL

| kV | Liquid | Dry (VPI) | Encapsulated |
|-----|----------------|--------------|--------------|
| 1.2 | 30 (45) | 10 (20, 30) | 10 (30) |
| 2.5 | 45 (60, 75) | 20 (30, 45) | 45 (60) |
| 5.0 | 60 (75) | 30 (45, 60) | 60 (75) |
| 8.7 | 75 (95) | 45 (60, 95) | 75 (95) |
| 15 | 95 (110*) | 60 (95, 110) | 95 (110) |
| 25 | 150 (200) | 110 (125) | 125 (150) |
| 35 | 200 | 150 (200) | 150 |
| 46 | 250 | -- | -- |
| 69 | 350 (250) | -- | -- |
| 115 | 450 (550, 350) | -- | -- |
| 138 | 550 (650, 450) | -- | -- |
| 161 | 650 (750, 550) | -- | -- |
| 230 | 750 (900, 650) | -- | -- |

(BIL) in parenthesis is an optional BIL.

* Transformers 5000KVA and above should use this as standard BIL

C57.12 ANSI Standards

FAN COOLING

| Base KVA | Stage 1 Fans | Stage 2 Fans |
|-----------------------|---------------|-----------------|
| <2500 | 115% capacity | -- |
| 2500 to <12 MVA | 125% capacity | -- |
| 12 MVA and above | 133% capacity | 125% additional |
| Dry Type Transformers | 133% capacity | -- |

TEMPERATURE RISE

Liquid Type Transformers with 55/65°C Temperature Rise:

Base KVA @55°C → 112% capacity @ 65°C

STANDARD RATINGS Liquid Filled Transformers

| 55°C ONAN | 65°C ONAN | 55°C ONAF | 65°C ONAF | 55°C ONAF2 | 65°C ONAF2 |
|-----------|-----------|-----------|-----------|------------|------------|
| 300KVA | 336KVA | 345KVA | 386KVA | -- | -- |
| 500KVA | 560KVA | 575KVA | 644KVA | -- | -- |
| 750KVA | 840KVA | 863KVA | 966KVA | -- | -- |
| 1000KVA | 1120KVA | 1150KVA | 1288KVA | -- | -- |
| 1500KVA | 1680KVA | 1725KVA | 1932KVA | -- | -- |
| 2000KVA | 2240KVA | 2300KVA | 2576KVA | -- | -- |
| 2500KVA | 2800KVA | 3125KVA | 3500KVA | -- | -- |
| 3000KVA | 3360KVA | 3750KVA | 4200KVA | -- | -- |
| 3750KVA | 4200KVA | 4688KVA | 5250KVA | -- | -- |
| 5000KVA | 5600KVA | 6250KVA | 7000KVA | -- | -- |
| 7500KVA | 8400KVA | 9375KVA | 10.5MVA | -- | -- |
| 10MVA | 11.2MVA | 12.5MVA | 14MVA | -- | -- |
| 12MVA | 13.44MVA | 16MVA | 17.92MVA | 20MVA | 22.4MVA |
| 15MVA | 16.8MVA | 20MVA | 22.4MVA | 25MVA | 28MVA |
| 20MVA | 22.4MVA | 26.67MVA | 29.86MVA | 33.33MVA | 37.33MVA |
| 25MVA | 28MVA | 33.33MVA | 37.33MVA | 41.67MVA | 46.67MVA |
| 30MVA | 33.6MVA | 40MVA | 44.8MVA | 50MVA | 56MVA |
| 40MVA | 44.8MVA | 53.32MVA | 59.72MVA | 66.66MVA | 74.65MVA |
| 50MVA | 56MVA | 66.66MVA | 74.65MVA | 83.33MVA | 93.33MVA |

Note – VTC is a custom manufacturer; therefore, custom ratings can be chosen to suit your project needs.

Note on Temperature Rise – If specified transformer is single temperature rise only (55°C rise only or 65°C rise only): disregard the 65°C column and use the 55°C column as whichever single rise you are in need of.



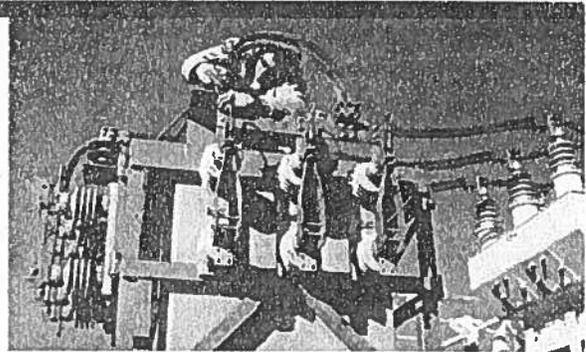
Transformer Service Solutions

ONE SOURCE - ONE COMMITMENT

Virginia Transformer Corp (VTC) has the capabilities for complete transformer support. From installations, replacements or scheduled maintenance VTC has the trained personnel and equipment for all of your transformer service needs.

VTC maintains a fleet of mobile vacuum dehydrator/oil processing trucks designed to be anywhere in the US, Canada and Mexico with minimum notice.

These trucks are equipped with a full set of tools, safety equipment and generators allowing self-sufficiency in remote areas where site power may not be available.



Transformer Experience up to 500 kV

- Assembly (New or Used)
- Oil Dehydration/Degassing
- Removal/Relocation
- Vacuum/Oil Filling
- Testing - Acceptance
- Transformer Dry Out
- Repairs - Leaks, Gaskets, Bushings
- New and Used Equipment
- Inspection/Maintenance
- Training
- Regasket Complete Transformer



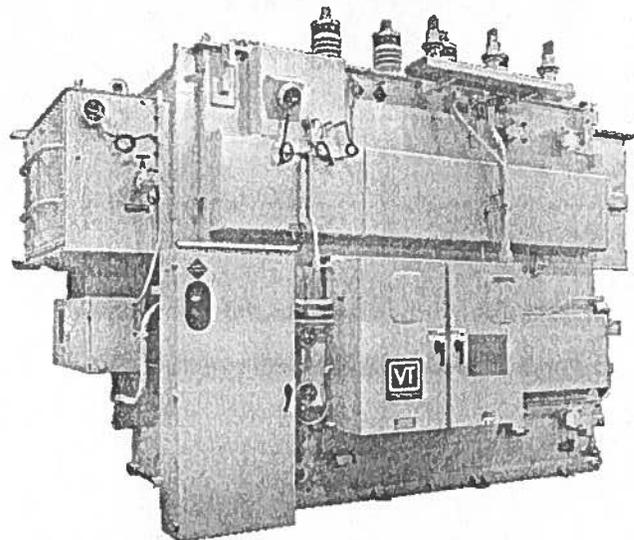
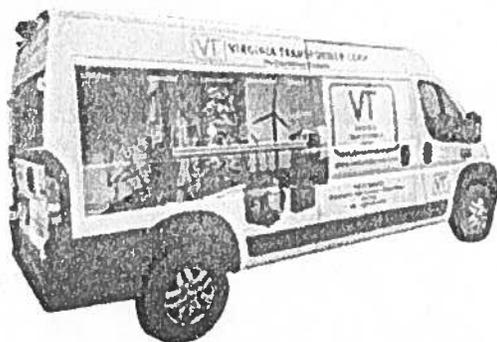
Electrical Testing & Services

- Insulation Power Factor
- SFRA
- Excitation Current
- Transformer Turns Ratio (TTR)
- Winding Resistance
- CT (Ratio, Polarity, Saturation)
- Capacitance Measurement
- Insulation Resistance (Megger)
- Infrared Inspection Analysis
- Controls Troubleshooting

Emergency Service Available

24/7/365

1-800-882-3994



For more information or to request a quote for your transformer requirements, please contact VTC Field Services at 1.800.882.3994 or email: Field_Service@vatransformer.com

TRANSFORMER INSTALLATION DESCRIPTIONS

Described below are brief descriptions of VTC Field Service Installation Options; please consult your VTC Salesperson for additional details and pricing.

Supervision only

VTC supplies an on-site field technician to supervise the assembly of the transformer by others and to verify the work is performed correctly. Others supply all crane, assembly and test equipment. Technician to be at site up to three days.

Installation (make-up oil for radiators only)

VTC supplies an installation crew to install bushings, radiators, arresters, etc. The unit will be shipped filled with oil so the only oil handling will be the oil required to fill the radiators after they are mounted. The oil is shipped from the plant with other detail parts. This operation will require the use of an oil pump and filter. Included in the cost is a small crane to handle the components to install plus the oil handling equipment. The following test will be performed TTR, DCR, DGA, CT Ratio, Core Ground Megger, and Transformer Megger. We will perform Power Factor on units above 69KV.

Installation (complete oil fill)

VTC supplies installation crew to install bushings, radiators, arresters, etc. The unit is shipped drained of oil so will require a complete filling in the field. The oil is usually delivered to the site in a tanker truck and filled from the truck. This operation will normally require the use of a vacuum pump, oil pump and filter, and if required oil heating capability for larger voltage class units. Included in the cost is a small crane to handle the components to install and the oil handling equipment. The following test will be performed TTR, DCR, DGA, CT Ratio, Core Ground Megger, and Transformer Megger. We will perform Power Factor on units above 69KV.

Crane Service

The crane cost is required if the scope of the work requires a crane to offload the transformer from the truck to the pad. This crane is seldom used to install the components on the job.

Transformer units with Conservator having Air Bladder

VTC supplies installation crew to install conservator, conservator, bracing, etc. If the unit is shipped drained of oil we will require a complete filling in the field. The oil is usually delivered to the site in a tanker truck and filled from the truck. This operation will normally require the use of a vacuum pump, oil pump and filter, and if required oil heating capability for larger voltage class units. Included in the cost are a small crane to handle the components to be install and the oil handling equipment.

Hot Oil & Vacuum Processing

VTC offers hot oil processing. Our hot oil processing consists of heating the oil going to the transformer. We offer this on new installs. During vacuum processing VTC will apply a vacuum to the transformer.

This is on transformers designed for full vacuum only. The vacuum level will be approximately 1 torr. This vacuum will be for 24hrs prior to oil filling.

Notes:

1. Pricing assumes clear and unobstructed ingress and egress around the work location. VTC will not be responsible for additional costs incurred for delays caused by unimproved sites that are unable to support vehicles and cranes on the scheduled days. VTC will not be responsible for relocating any obstructions to the work site nor for any improvements to allow access to the work site.
2. Crane costs assume unobstructed access to placement area without interference from walls, dykes, fences or substation structures. If obstructions exist, additional cost will possibly be incurred that will be passed along.
3. The customer is responsible for all transformer grounding and connections to bushings and external alarm and control wiring entering junction box.
4. Pricing is based on performing the work with VTC technicians or contracted services at VTC's choice. VTC's on site personnel are to have full and complete access to work on the equipment regardless of union contract rules.



The Commitment Company
ISO 9001

VIRGINIA TRANSFORMER CORP.

220 GLADE VIEW DRIVE • ROANOKE, VA 24012

PHONE 540-345-9892 • FAX 540-342-7694

www.vatransformer.com

VTC contracts with carriers to transport products from our factory to our customer's site. Transformers are delivered by truck to their final destination. Once the customer acknowledges our delivery plan, we begin acquiring a vehicle for the load requirement. Height and shipping weight of the transformer determine the truck capacity.

Three types of truck-bed configurations are available:

- **Standard flat-bed** trucks have bed heights approximately 5 feet from the truck bed to the ground.
- **Single-drop** trucks have bed heights 3 to 4 feet from the truck bed to the ground and carry taller units.
- **Double-drop** trucks have bed heights 1.5 to 2 feet from the ground and carry our tallest units.
 - These trucks cannot travel certain roads due to clearance.

Transformer weight can require a truck to have more wheels and axles than the standard 18 wheel configuration. The ICC determines the maximum weight that can be legally transmitted to a truck's axle. An additional axle or two is often required to distribute the weight.

Trucking companies or their regulating agencies determine when a product can leave our factory:

- Availability of low-profile trucks may delay shipment. Delays of 2 or 3 days are common for a double-drop bed.
- ICC regulations govern when a heavy or tall load can be transported over the highways. Weight and height may restrict driving hours, and holiday weekends impose additional restrictions on heavy loads.
- States limit load size during wet periods that soften highway lanes. Construction can detour large loads, adding to transport time. State permits for heavy loads may take several days to clear licensing bureaus.

Parts trucks will not commit to direct delivery. These vehicles maximize loading by making accessory pickups and deliveries along their routes. Tarpaulin covers can be provided as a price adder for salt-laden winter highways.

Scheduling truck delivery

Transformers and their components will be carried to all designated ship-to address. After scheduling, VTC will advise customer of expected delivery date. VTC instructs carriers to call the customer as the unit approaches the delivery site (cell lines recommended)

Placing transformer at site

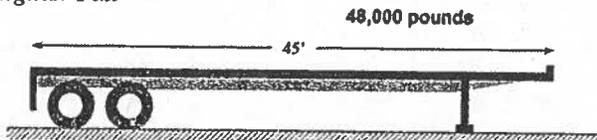
Site conditions must be such that an effective delivery can occur. Trucks must have a negotiable path to the transformer offload site, and the path must be in close proximity to the delivery site. The off-load area must accommodate the simultaneous presence of the truck and a large crane, allowing the crane access to both the transformer and the pad. Sufficient overhead clearance must allow the crane to lift

the transformer, convey it to the site, and set it in place without hesitation or risk of harm. VTC is neither responsible for costs at inadequately prepared sites, nor re-location of obstructions or site improvements to facilitate offloading. Obstructions to the delivery process will incur additional costs to the customer.

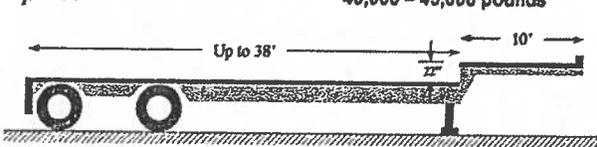
Dress out at site

VTC can provide an installation crew to install bushings, radiators, arrestors, and other ship-separate accessories, and oil filling for units shipped without oil (vacuum pump, oil pump, oil filter, and small crane). Oil will be delivered to site by tanker, and filling of the transformer will be made directly from the tank truck.

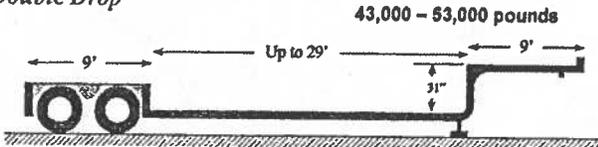
Regular Flat



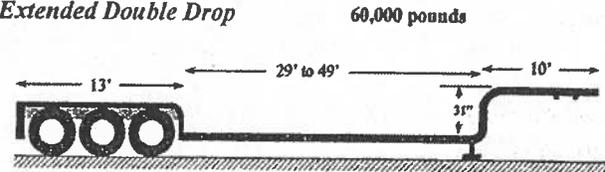
Drop Deck



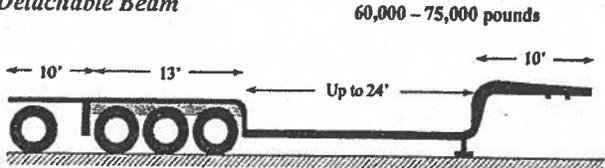
Double Drop



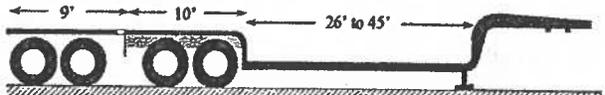
Extended Double Drop



Detachable Beam



Each additional axle increases maximum load 20,000 pounds.





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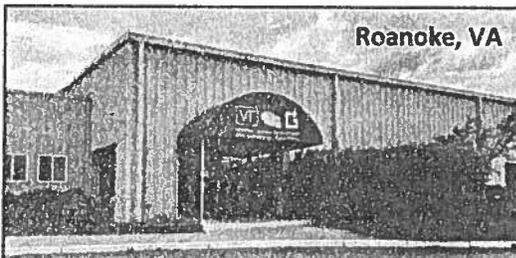
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HISTORY

Virginia Transformer Corp was established and incorporated in the Commonwealth of Virginia in 1971 to supply Power Transformers to the underground mining industry in the nearby Appalachian Mountains. Low profile construction, tough environmental conditions, and other non-standard specifications required for both Dry-type and Liquid-filled Power Transformers in this application started VTC down the road of custom transformer designs and manufacturing excellence.



During the 70's, our customer base and product scope became more diversified, adding rectifier duty transformers and reactors for adjustable frequency drive and NEMA R19 extra heavy-duty traction applications. Most major urban transit systems today employ transformers built by Virginia Transformer Corp. Later in this decade, VTC also established a predominate reputation for retrofitting the PCB market.

Beginning in the 80's, our current President took the helm at Virginia Transformer Corp. Our product range was further expanded to include Industrial and Commercial Power Transformers for distribution applications, including those with automatic load tap changing requirements, and our trademarked fully encapsulated coil UNICLAD® transformer. This decade saw the beginnings of the truly phenomenal 10% - 30% annual growth of VTC, which has been further exceeded in recent years with a continuation of product line expansion into the larger voltage class II sizes of Power Transformers.

The 90's witnessed entry into the demanding Utility market, as customers sought to find additional suppliers for their requirements of high quality and lower cost units. During this decade VTC moved to a new facility and its current corporate headquarters – a custom designed facility for modern transformer manufacturing. Virginia Transformer Corp further expanded in 1995 by adding a second custom manufacturing facility in Chihuahua, Mexico. This modern state-of-the-art operation, designed from the ground up as a transformer plant, has been ISO certified from the beginning. Visiting customers have proclaimed it to be one of the finest facilities for manufacturing transformers in North America.

During the 21st century, Virginia Transformer Corp continued to grow, acquiring the U S Transformer West facility in Pocatello, Idaho in 2003 – providing yet another step toward world-class recognition. In addition to this facility building new Medium Voltage class Power Transformers, currently up to 100 MVA top rated at 161 kV, they also provide world-class reconditioning and repair services to both



P2 - Chihuahua, Mexico

Utility and Industrial clients. Virginia Transformer Corp further expanded in 2013, adding a separate metal fabrication facility in Troutville, Virginia, 11 miles from its Roanoke location. This state of the art



facility handles tank fabrication, sand blasting, and paint process for the Roanoke plant. Additionally, the facility is equipped with a welding robot that delivers leak free welds. In 2014 VTC purchased a plant in Rincon, Georgia. This facility greatly boosted production and allowed for the creation of Large

Voltage class Power Transformers, currently up to 500 MVA and 525 kV with a total capacity of 24,000 MVA. These transformers have a 60-year service life. Finally, Virginia Transformer Corp opened its fifth facility in Chihuahua, Mexico in late 2022. This facility is near the original Chihuahua plant and manufactures pad-mounted transformers, integrated power modules (IPM's), and other transformers under the E2X brand for the company's end markets.

Today, VTC stands at the top as a worldwide presence in the Power Transformer industry providing individualized solutions and custom designs with Dry-type and Liquid-filled transformers from its five manufacturing facilities in North America. All major components, core and coil assemblies, tanks, etc. are produced on-site with complete testing capabilities up to 950BIL for the complete range of Power Transformers – 300KVA to 300MVA, 230kV class for Utility, Industrial, Commercial, and Export markets. You won't find a more capable, full service company than Virginia Transformer Corp to meet your needs.

As we look forward to the next century, our focus on high quality, affordable, and best delivery of Power Transformers to meet the ever growing demand of our expanding client base drives and challenges Virginia Transformer Corp daily to provide the highest level of customer service and satisfaction. Although we, like everyone else, occasionally may have an issue with a transformer, VTC's commitment to respond rapidly and take responsibility will remain at the forefront of our obligations to clients.





SMITHERS
QUALITY ASSESSMENTS

CERTIFICATE OF APPROVAL

This is to Certify that the Quality Management System of:

Virginia Transformer Corporation
220 Glade View Drive
Roanoke, VA 24012

(Page 1 of 2; see Appendix)

has been assessed and approved by Smithers Quality Assessments, Inc., to the following quality management system standards and requirements:

ISO 9001:2015 with Design

The Quality Management System is Applicable to:

Design, Manufacture and Commercialization of Transformers and Associated Equipment and Services for Electrical Power Systems.

Approval Certificate Number: 21.204.1

Original Approval: July 25, 2021

Current Certificate: July 25, 2021

Certificate Expires: July 24, 2024



The use of the accreditation mark indicates accreditation in respect of those activities covered by the above certificate number.

on behalf of SQA - J. Michael Hochschwender, CEO

The approval is subject to the company maintaining its system to the required standards which will be monitored by Smithers Quality Assessments, Inc., 121 S. Main St., Akron, Ohio 44308, USA



**APPENDIX A
TO THE CERTIFICATE
OF REGISTRATION NO.: 21.204.1**



Page 2 of 2

SMITHERS QUALITY ASSESSMENTS, INC.

Site:

Virginia Transformer Corporation
220 Glade View Drive
Roanoke, VA 24012

Scope of activities: Design, Manufacture and Commercialization of Transformers and Associated Equipment and Services for Electrical Power Systems.

The above site is certified by Smithers Quality Assessments, Inc. with regard to ISO 9001:2015 with Design. The following locations are included utilizing a Multi-site (with no Sampling) approach.

Location(s):

Virginia Transformer-Troutville
100 Smorgon Way
Troutville, VA 24175

Scope of activities: Manufacture and Commercialization of Transformers and Associated Equipment and Services for Electrical Power Systems. Includes Tank Fabrication.

Caravels, LLC dba Georgia Transformer Corp.
2769 Highway 21 South
Rincon, GA 31326

Scope of activities: Manufacture and Commercialization of Transformers and Associated Equipment and Services for Electrical Power Systems.

VTC West S.A. de C.V.
Ave. Homero #3307
Complejo Industrial Chihuahua
Chihuahua, Chihuahua 31136 Mexico

Scope of activities: Manufacture and Commercialization of Transformers and Associated Equipment.

VTCU Corp (a subsidiary of Virginia Transformer Corp.)
3770 Pole Line Road # 37
Pocatello, ID 83201

Scope of activities: Manufacture, Sale Service and Repair of Transformers.

Applicable Standard: ISO 9001:2015 with Design

This appendix applies only to those sites listed above. As other sites are assessed and approved, or as sites already approved are removed from active services, this appendix will be amended to show the current status. Sites not listed on this appendix shall not be viewed as approved.





THIS CERTIFIES THAT

Virginia Transformer Corp
dba VA Transformer

* Nationally certified by the: **CAROLINAS-VIRGINIA MINORITY SUPPLIER DEVELOPMENT COUNCIL**

*NAICS Code(s): **335311**

* Description of their product/services as defined by the North American Industry Classification System (NAICS)

10/17/2022

Issued Date

CA01797

Certificate Number

Ying McGuire
NMSDC CEO and President

Dominique Milton, President & CEO

10/31/2023

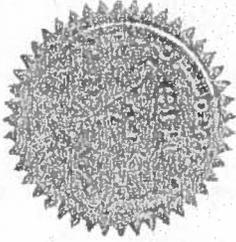
Expiration Date

By using your password (NMSDC issued only), authorized users may log into NMSDC Central to view the entire profile: <http://nmsdc.org>

Certify, Develop, Connect, Advocate.

* MBEs certified by an Affiliate of the National Minority Supplier Development Council, Inc.®

**SUPPLIER CLEARINGHOUSE
CERTIFICATE OF ELIGIBILITY**



CERTIFICATION EXPIRATION DATE: October 31, 2023

The Supplier Clearinghouse for the Utility Supplier Diversity Program of the California Public Utilities Commission hereby certifies that it has audited and verified the eligibility of:

*Virginia Transformer Corporation
Minority Business Enterprise (MBE)*

pursuant to Commission General Order 156, and the terms and conditions stipulated in the Verification Application Package. This Certificate shall be valid only with the Clearinghouse seal affixed hereto.

Eligibility must be maintained at all times, and renewed within 30 days of any changes in ownership or control. Failure to comply may result in a denial of eligibility. The Clearinghouse may reconsider certification if it is determined that such status was obtained by false, misleading or incorrect information. Decertification may occur if any verification criterion under which eligibility was awarded later becomes invalid due to Commission ruling. The Clearinghouse may request additional information or conduct on-site visits during the term of verification to verify eligibility.

This certification is valid only for the period that the above firm remains eligible as determined by the Clearinghouse. Utility companies may direct inquiries concerning this Certificate to the Clearinghouse at (800) 359-7998.

VON: 14020124

DETERMINATION DATE: October 20, 2022