# PUBLIC NOTICE INVITATION TO BID #1212

The Springfield Electric Department is requesting sealed bids for the following:

# Three (3) - Single phase 667/889 KVA substation class regulators for the Sleepy Hollow Substation.

Specifications and bidding documents may be downloaded at <a href="www.springfieldtn.gov">www.springfieldtn.gov</a>. Technical questions may be addressed to <a href="jwallace@pdengineers.com">jwallace@pdengineers.com</a>. Sealed bids must be received in the office of the City Recorder, 405 North Main Street, Springfield, TN 37172 by 2:00 pm on September 8, 2022. No electronic copies will be accepted. Bids received after the above date and time will be rejected. The City of Springfield reserves the right to reject any and all bids.

Lisa H. Crockett City Recorder

Contract No: 7228-P2 Date: July 18, 2022 **Sleepy Hollow Substation** Rev.:

## SINGLE-PHASE REGULATORS PROCUREMENT

## **SLEEPY HOLLOW SUBSTATION**



## SPRINGFIELD ELECTRIC DEPARTMENT Springfield, TN

Bid #1212 Opening September 8, 2022 at 2:00 PM, CST

> Presented by: Patterson & Dewar Engineers, Inc. Jack C. Wallace, III, PE TN PE License # 116746

Single-Phase Regulators ProcurementContract No: 7228-P2Springfield Electric DepartmentDate: July 18, 2022Sleepy Hollow SubstationRev.: 00

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#### **REVISION HISTORY**

Rev. No.	Date	Description
00	07/18/2022	Issued for bid

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#### **SECTION 1 – INVITATION TO BID**

#### 1.01 PARTIES TO CONTRACT

A. Buyer: City of Springfield

405 North Main Street, Springfield, TN 37172

Attention: Steve Sax

Phone: (615) 384-6770 Email: Steve.Sax@springfieldtn.gov

B. Engineer: Patterson & Dewar Engineers, Inc.

1531 Hunt Club Blvd, Suite 200, Gallatin, TN 37066

Attention: Jack Wallace, PE

Phone: (615) 527-7078 Email: <a href="mailto:jwallace@pdengineers.com">jwallace@pdengineers.com</a>

#### **1.02 BID ITEM**

A. Buyer invites Bidder (Seller) to submit quotation for furnishing and delivering three 667/889 KVA single-phase regulators for Sleepy Hollow Substation (Goods).

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B. Design, manufacture, assemble, and factory test Goods in accordance with attached technical specifications and current industry standards. Deliver Goods F.O.B. to Point of Destination. Buyer will furnish a construction contractor under a separate contract to perform foundation and site work construction for which the Goods under this Contract are being furnished.

#### 1.03 POINT OF DESTINATION

Sleepy Hollow Substation: 2400 S Main St, Springfield, TN 37172.

#### 1.04 BID SUBMITTAL

A. Bids will be accepted until **2:00 pm on September 8, 2022.** Electronic submittal of proposals is prohibited. Submit one hard copy of bid to:

City of Springfield

405 North Main Street, Springfield, TN 37172

Attention: City Recorder

- B. Seller's proposal shall be clearly marked as "Bid #1212 for Sleepy Hollow Substation Regulators" on the exterior of the mailing package.
- C. Seller shall submit proposal that will remain valid for a period of sixty (60) days after the date set for opening of bids.
- D. No bid security will be required to accompany bids.

#### 1.05 DELIVERY AND PRICING

- A. Deliver Goods to Point of Destination within 310 CALENDAR DAYS of award of purchase order.
  - Bids should include Seller's best delivery date that is as close as possible to the requested delivery date.
- B. Quoted prices shall be FOB Destination at the substation site. Freight shall be allowed and pre-paid. Seller has the responsibility of Goods during shipment. Title to the Goods and risk of loss or damage shall remain with Seller until the Goods are delivered in acceptable condition at the substation site.
- C. Buyer will issue a purchase order to Seller upon award.

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#### 1.06 INSTRUCTIONS TO BIDDERS

A. Engineer will answer all matters pertaining to the project, including but not limited to, answering technical questions of prospective bidders, bid evaluation and recommendation, review and approval of fabrication drawings and similar documents, and approval of invoices prior to payment by Buyer.

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B. Seller shall provide all information requested in this RFP. Seller shall take care to complete all portions of the Bid documents and to provide all required submittals. Failure to comply may result in the rejection of the bid.

#### C. Exceptions and Deviations

- 1. Seller shall clearly state all exceptions to this specification. Unless specifically stated otherwise, Seller shall furnish equipment, material and services in exact accordance with this specification, and any modifications to equipment, material and services necessary to comply with this specification shall be made by the Seller at no additional cost to Buyer.
- 2. If Seller recommends any changes or deviations from the documents, Seller shall describe the change fully and furnish complete information so that Buyer can make a decision based upon the alternative information provided. If these specifications call for material, equipment or manufacturing procedures different from the manufacturer's standard, Seller shall clearly identify all deviations or substitutions in this bid. When possible, Seller should bid according to the specifications with the manufacturer's standard as an option.
- 3. Buyer invites cost saving and schedule improving alternatives. Seller shall first complete the Bid as issued by Buyer; Seller may then submit the alternatives referenced to the base proposal.
- D. This project shall be subject to a liquidated-damages clause.
- E. Seller shall provide Certificate of Insurance that lists Buyer and Engineer as additional insureds.
- F. Equal shall mean a satisfactory equivalent as approved solely by Buyer.
- G. Buyer does not obligate itself to accept the lowest or any other bid and specifically reserves the right to reject any and all bids and to waive any informality in bids. Buyer reserves the right to award the contract to the best Bidder, as determined by the Buyer and Engineer.

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#### **SECTION 2 – GENERAL REQUIREMENTS**

#### 1.01 ACCEPTABLE MATERIAL AND EQUIPMENT

Seller's proposal shall be based on new equipment and materials only. No used equipment or materials are permitted. Identify any alternate item by trade name and number to enable Buyer to determine whether such alternate item is acceptable. Alternates must be approved in writing by Buyer prior to contract placement.

#### 1.02 TESTS AND INSPECTION

- A. Goods are to be tested in accordance with latest edition or revision of ANSI, IEEE, ASCE, ASTM, NFPA, and NEMA standards.
- B. Prior to testing, Seller shall notify Buyer at least one week in advance so Buyer may have personnel at Seller's factory during testing. Seller shall furnish the results of the tests to Buyer. Inspection of material by Buyer's representative will not relieve Seller from responsibility for furnishing material to conform to the Specifications.
- C. Factory testing activities are limited to Tuesdays, Wednesdays, or Thursdays excluding observed holidays. Testing on any other day of the week is prohibited.

#### 1.03 SHOP DRAWINGS AND SAMPLES SUBMITTAL PROCEDURES

- A. **Transmit submittals** <u>via email</u> **to Engineer with copy to Buyer.** Schedule submittals to expedite furnishing the Goods and coordinate submission of related items. Send to:
  - 1. Engineer's Representative: Valerie Crawford (vcrawford@pdengineers.com)
  - 2. Buyer's Representative: Steve Sax (steve.sax@springfieldtn.gov)
- B. Seller shall submit Shop Drawings and Samples for Engineer's review and approval as soon as possible after receipt of order.
- C. Submit the following quantities:
  - 1. Shop drawings One electronic copy (in PDF format) including manufacturers' data, brochures, suppliers' information, testing reports, certifications, and manufacturer's installation and testing instructions
  - 2. Samples Two of each item required for evaluation
- D. Identify variations from Contract Specification.
- E. Provide space on all drawings for Seller and Engineer review stamps.
- F. Revise and resubmit items as required. Identify changes made since previous submittal. Distribute copies of reviewed submittal items to concerned parties. Instruct parties to promptly report any inability to comply with provisions.



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G. Engineer will complete review in a timely manner and will return reviewed items to Seller with the following provided for each item submitted:

SUBMITTAL REVIEW BY ENGINEER				
PROJECT				
SUBMITTAL NO.				
Review of this shop drawing/submittal by Engineer is for general conformance with the requirements specified and compatibility with the design concept of the completed project. This review does not extend to means, methods, sequences, or procedures of construction (except where specifically called for in the specified requirements) or to issues of safety incident thereto. This review shall not relieve the contractor from its responsibility for full compliance with the requirements specified and to determine and verify the information contained therein. Provide final disposition of the comments made prior to issuance for fabrication or construction.				
ACTION:				
Approved				
Approved, but make corrections noted (no resubmittal required)				
Revise and Resubmit (see comments)				
None  □ Not Required - □ Information Only				
REVIEWED BY: Date:				

#### Where:

- "Approved" indicates submittal has been reviewed and appears to be in conformance with requirements of the Contract Documents. Proceed as shown on the submittal.
- "Approved, <u>but make corrections noted</u>" indicates submittal appears to be in conformance with requirements of the Contract Documents. Incorporate the corrections noted and proceed as shown on the submittal. No resubmittal is required.
- "Revise and Resubmit" indicates submittal does not appear to be in conformance with the Contract Documents. Engineer's comments will be noted on the submittal or in a separate, cross-referenced document. Re-check, make necessary revisions and resubmit.
- "None Not Required or Information Only" indicates that the submittal is not called for by the Contract Documents and that Engineer has not reviewed the material.

#### 1.04 PROJECT RECORD DOCUMENTS

- A. Throughout the duration of the project, maintain one set of the following documents for record purposes. Record actual revisions made to the Goods.
  - 1. Drawings
  - 2. Specifications
  - 3. Changes to the Contract Documents
  - 4. Reviewed Shop Drawings and Samples
- B. Include description of actual equipment and material furnished, including the following:
  - 1. Manufacturer's name and equipment and material model and number
  - 2. Material and equipment substitutions or alternates utilized



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#### C. As-built drawings

- 1. Prior to submitting to Engineer the claim for final invoice, transmit to Engineer via email PDF copies of final drawings, as well as electronic files in AutoCAD 2019 (or earlier) format.
- Engineer requests that all final drawings be sent as soon as available (email is preferred).
   These are used for creating connection diagrams that are needed shortly after delivery of the unit(s).
- 3. After the equipment has been placed into satisfactory operation, revise drawings to reflect field changes, if any, made to the Goods and submit to Engineer copies of revised drawings for the Operations and Maintenance Manuals.
- D. Operation, Maintenance and Installation Manuals
  - Upon shipment of Goods, deliver to Buyer two printed copies and one electronic copy on USB-drive of complete Operation, Maintenance and Installation Manuals. Manuals shall identify material, equipment, and system description and include, at minimum, the following information:
    - a. Directory, listing names, addresses, and telephone numbers of Engineer, Seller, subcontractors, and major component suppliers.
    - Operation, maintenance, and installation instructions. For each category, identify names, addresses, and telephone numbers of subcontractors and suppliers. Identify the following:
      - Significant design criteria
      - List of equipment
      - Parts list for each component
      - Operating instructions
      - Maintenance instructions
      - Maintenance instructions for special finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents
      - Installation instructions
      - Material Safety Data Sheets
    - c. Project documents and certificates, including the following:
      - Certified drawings, manufacturer-prepared technical literature material, and equipment data/catalog cuts of all miscellaneous material
      - Certified factory test results
      - Photocopies of warranties for Goods
      - Duplicate copies of warranty documents which are executed and transferable from subcontractors, suppliers, and manufacturers.

#### 1.05 SHIPMENT

- A. Before shipping Goods, give 48-hrs notice via email to Buyer and Engineer. No shipments shall be accepted or received without authorization from Buyer.
- B. Seller shall be responsible for obtaining necessary permits, providing and verifying routing and, in general, making all the necessary arrangements for transporting the equipment provided to Buyer's destination.
- C. Buyer will accept shipments between 8:00a.m. and 3:00p.m. local time Monday through Thursday excluding observed holidays.



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- D. Ship Goods only after receiving written acknowledgment by Buyer of receipt of certified test reports. Accompany each shipment with a packing list of articles included in the shipment. Mark parts for ease of field assembly
- E. Accompany each shipment with a packing list of articles included in the shipment. Mark parts for ease of field assembly.

#### 1.06 TRANSPORTATION, PROTECTION, AND HANDLING

- A. Store and protect Goods in accordance with manufacturer's instructions, with seals and labels intact and legible. Store sensitive Goods in weather-tight, climate controlled enclosures.
- B. Furnish equipment and personnel to handle Goods by methods to prevent soiling, disfigurement, or damage.
- C. Transport and handle Goods in accordance with manufacturer's instructions.
- D. Cover Goods subject to deterioration with impervious sheet covering. Furnish ventilation to avoid condensation or potential degradation of Goods.
- E. Uncrate Goods and dispose of packing material properly.
- F. Assume responsibility for loss and damage including but not limited to breakage, corrosion, weather damage, and distortion until delivered to Buyer.
- G. Promptly inspect shipments to assure that Goods comply with requirements, quantities are correct, and Goods are undamaged.
- H. Arrange storage of Goods to permit access for inspection. Periodically inspect to assure Goods is undamaged and is maintained in acceptable conditions.



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#### **SECTION 3 – TERMS AND CONDITIONS**

#### 1.01 NOTIFICATION

Seller shall acknowledge in writing to the Buyer that the Buyer's Purchase Order has been received within 5 days ARO. The acknowledgement shall include the date that the Purchase Order or acceptance is received and the date that equipment delivery is expected.

#### 1.02 ACCEPTANCE; ENTIRE AGREEMENT

Acceptance of this order by acknowledgement, shipment or other performance shall be expressly limited to the terms and conditions contained in this order. Any additional or different terms or conditions proposed by Seller are objected to and are hereby rejected. Upon acceptance, the terms contained in this order shall constitute the entire agreement between Seller and Buyer with respect to the subject matter of this agreement (hereinafter referred to as the "Agreement") and may not be modified, added to, or rescinded except by a written document signed by Seller and Buyer.

#### 1.03 CHOICE OF LAW

The construction, interpretation and performance of this Agreement and all transactions under it shall be governed and resolved in accordance with the laws of the State of Tennessee.

#### 1.04 TERMINOLOGY

The terms "shall" and "will" which appear in the Bid and specifications place an absolute obligation on Seller to do that which is designated and/or specified.

#### **1.05 TAXES**

Buyer is exempt from sales tax.

#### 1.06 TIME OF PERFORMANCE

Time is of the essence of this Agreement. If tender of conforming goods is not made by the agreed delivery date, Buyer may treat such failure as a breach hereof and will have all remedies afforded to it by law including, but not limited to, the rights to cover.

#### 1.07 ASSIGNMENT AND SETOFF

Seller shall not assign any right or interest under this Agreement nor delegate any work or other obligation to be performed or owned under this Agreement without the prior written consent of Buyer. Any attempted assignment or delegation in contravention of this provision shall be void. Buyer shall be entitled to set off any amounts owed by Seller to Buyer against any amounts payable to Seller.

#### 1.08 PAYMENT TERMS

Upon the shipment of any material hereunder, Seller shall submit to Buyer a detailed invoice of the materials shipped. Within 30 days after delivery, Buyer shall make payment of no more than **90-percent** of total purchase price to Seller. Upon completion of field assembly and certification by Seller that the materials provided are complete and ready for external connections, Seller shall invoice the Purchaser for the remaining **10-percent**. Within 30 days after receiving invoice, Buyer shall make payment thereof to Seller.

#### 1.09 REJECTED GOODS

Buyer shall give notice to Seller of any rejection of goods, and goods rejected will, at Seller's expense, be returned to Seller or otherwise disposed of as Seller may reasonably request. Payment for the goods prior to inspection and approval shall not constitute acceptance thereof. Neither Buyer's inspection nor its failure to inspect the goods delivered hereunder shall release Seller from its warranties and obligations under this Agreement.

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#### 1.10 INSURANCE

Seller shall obtain and maintain coverage from insurance companies that are duly licensed or authorized, in the state or jurisdiction in which the Project is located, to issue insurance policies for the required limits and coverages. Seller shall provide blanket contractual liability coverage, to the extent permitted by law, including but not limited to coverage of Seller's contractual indemnity obligations. The insurance and insurance limits required herein shall not be deemed as a limitation on Seller's liability under the indemnities granted to Buyer and other individuals and entities in this Agreement. The limits of liability for the insurance required shall provide coverage for not less than the following amounts (or greater where required by Laws and Regulations):

Commercial General Liability: \$1,000,000
 Professional Liability: \$1,000,000

Seller's insurance policies shall include and list as additional insureds Buyer and Engineer. Seller shall deliver to Buyer certificates of insurance establishing that Seller has obtained and is maintaining the policies, coverages, and endorsements required by this Agreement.

#### 1.11 WARRANTIES

Seller warrants that all materials, equipment, and work furnished pursuant to this contract comply in all respects with the contract; that they are free from latent and patent defects in design, materials and workmanship; that they are suitable and adequate for the purposes for which they were designed and for such other purposes, if any, as are specified in the contract; and that they will give efficient and satisfactory service under such conditions as may be specified, for a period of **five years** after its first operation or use by the Buyer, in actual service, or, if the contract provides for an acceptance test, for a period of **five years** after they have passed such test.

Seller shall, at its own expense, repair, replace, transport, and install any materials, equipment, or work or parts thereof, which prove defective or deficient during the warranty period.

This means that Seller will be responsible during the warranty period for the direct cost of (A) removing Goods or parts from service; (B) transporting said Goods or parts from substation site to manufacturer or repair facility and back to the substation site; and (C) reinstalling Goods or parts for service after completing the required acceptance testing. If, however, it is impractical for Buyer to wait for the manufacturer, Buyer may perform such work at Seller's expense.

Any materials, equipment, work, or parts thereof, which fail to meet the guarantees or other requirements of the contract may be rejected; provided, however that if correction of the defects or deficiencies can be made through minor alterations or replacements of minor parts, and Seller proceeds immediately to complete such alterations, or to furnish and install such new parts as are necessary to meet the guarantees or other requirements of the contract, then the materials, equipment, or work shall not be rejected on account of defects or deficiencies so corrected. Any correction of a defect or deficiency will be guaranteed for a period of one year after such correction is effected. The correction of defects or deficiencies shall not operate to extend the time for performance of the contract as specified thereunder or to waive any claim for damages resulting from delay in performance or from any other cause.

Buyer shall give Seller prompt notice of any breach of this warranty. Operation or use by Buyer of the materials, equipment or work, or any part thereof shall not constitute a waiver of any of Buyer's rights under this contract. Seller warrants that the materials, equipment or work furnished hereunder are free from any and all claims, demands, and encumbrances; and that Seller will defend the title thereto. The foregoing warranties or guarantees contained in this contract shall supersede any and all others.

#### 1.12 IDENTIFICATION; RISK OF LOSS

Identification of the goods ordered herein shall occur at the moment this order is accepted by Seller. Risk of loss shall pass to the Buyer at the time that conforming goods to the Agreement are confirmed received at the Point of Destination.



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#### 1.13 LIQUIDATED DAMAGES

If Seller fails to deliver the Goods on or before the date multually agreed, Buyer may choose to invoke a liquidated-damages charge of **\$500.00** for each calendar day that the Goods are delayed. Liquidated damages will be limited to ten percent of the amount of the contract. This charge will be assessed to Seller when the delay is caused by any reason other than an act of God, purchaser, embargo or other governmental act or authority regulation or request, fire, theft, accident, strike, war, or riot. The time of delivery shall include the time for drawing approval.

#### 1.14 INFRINGEMENT

Seller shall indemnify Buyer and Buyer's customers for any and all loss, damage, expense, (including but not limited to attorney's fees) claims or liability arising out of any infringement or claim of infringement of any patent, trademark, copyright, trade secret or other proprietary interest based on the manufacture, installation, normal use, lease, or sale of any service of material furnished to Buyer under this Agreement. Buyer shall notify Seller promptly of any such claim or infringement and Seller shall, at its own cost, defend, compromise, or settle, any such action or actions to satisfy and discharge the same without any cost or expense whatsoever to the Buyer.

#### 1.15 TERMINATION

Buyer may terminate this Agreement for default upon notice to Seller if: 1) Seller fails to comply with any of the terms and conditions of this Agreement, including failure to deliver goods or perform services required within the time specified in this Agreement; 2) at any time reasonable grounds for insecurity arise with respect to Seller's expected performance and Seller fails to furnish adequate assurance of due performance within ten (10) days after a written demand by Buyer for such adequate assurance; 3) Seller shall become insolvent or make an assignment for the benefit of creditors; or 4) Seller shall file a voluntary petition in bankruptcy or insolvency or shall be involuntarily petitioned into bankruptcy or insolvency.

Buyer may terminate this Agreement, in whole or in part, for its convenience, at any time by giving written notice to Seller, and Seller shall promptly comply with the directions contained in such notice. In such event, Buyer shall make payment to Seller for all costs incurred by Seller prior to such termination reasonably allocable to this Agreement under recognized accounting practices, less any scrap or salvage value.

#### **1.16 LIENS**

Seller shall promptly pay for all materials, supplies and labor employed by it in manufacturing the ordered goods to the end that such goods may be kept free from Materialmen's, Warehousemen's and Mechanics' liens. Seller shall promptly discharge any such liens arising from the performance of this Agreement.

#### 1.17 INDEMNITY OF THE BUYER

Seller shall indemnify and hold Buyer and its officers, employees, and agents harmless from and against all suits or claims that may be based upon any alleged injury to or the death of any person or damage to property that may occur or that may be alleged to have occurred in the course of performance of this Agreement whether or not such claim is made by a third person, except when it shall be proved that the alleged injury was caused solely by a negligent act or omission of the Buyer. Seller shall, at its own cost and expense, pay all costs and expenses or such suit or claim, including attorney's fees in connection therewith, and if any judgement shall be rendered against the Buyer in any such action or actions Seller shall satisfy and discharge the same without cost or expense to Buyer.

#### 1.18 COMPLIANCE WITH LAWS

Seller and all material furnished by Seller shall fully comply with all federal, state, and local laws, ordinances, regulations, orders and codes, including identification and procurement of required permits, certificates, approvals and inspections in performance hereunder. Any provision required to be included in this Agreement by any such law, rule or regulation shall be deemed to be included herein. Seller also certifies that it does not engage in and requires that its subcontractor's (if any) employees or agents not

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engage in, any form of discrimination based on race, color, religion, sex or national origin. Seller agrees to indemnify Buyer for any loss or damage that may be sustained by reason of any failure to do so.

#### 1.19 PATENTS

Seller shall at its own expense defend any suit instituted by any party against Buyer so far as it is based on the claim that any apparatus or part thereof furnished under this contract or Buyer's use of such apparatus or part for the purpose for which it was designed or for such purposes, if any, specified in this contract constitutes infringement of any United States patent.

Buyer shall give to Seller immediate notice in writing of the institution of such suit, and shall permit Seller, through its counsel, to defend the same, and shall give all requisite authority and all needed and available information and assistance to enable Seller to do so. Seller shall pay all damages and costs finally awarded therein against Buyer by reason of such infringement, however Seller shall not be liable under any compromise made without its consent.

If in any such suit said apparatus or part or such use thereof by Buyer is held to constitute infringement and such use is enjoined, Seller shall at its own expense procure for Buyer forthwith the right to use or continue using the said apparatus or part; provided, however, that subject to Buyer's approval Seller may at its sole expense replace said apparatus or part with non-infringing apparatus or parts, or modify it so that it becomes non-infringing.

#### 1.20 CLAIMS BY THIRD PARTIES

Seller shall, at its own expense, assure the defense of and save harmless Buyer from all claims for materials furnished or work done; shall promptly discharge the same and not suffer any mechanics or other liens to remain outstanding against any of the property. Satisfactory evidence must be presented that all persons who have done work or furnished materials have been fully paid. If Seller fails to comply with its obligations as above, Buyer may take such steps as it may deem appropriate to discharge such liens or claims and may withhold from any moneys due Seller such amount as may be necessary to satisfy and discharge the same and any expense incident thereto.

#### 1.21 LABELING

All goods and materials to be supplied by Seller under this Agreement shall be labeled in accordance with the requirements of the Federal Occupational Safety and Health Act Hazard Communication Standard and/or applicable State law or standard of similar effect. Seller shall immediately send to the Buyer, referencing this purchase order number, all required written safety information materials including without limitation, Material Safety Data Sheets, required under said standards.

#### 1.22 NON-WAIVER

No course of dealing or failure of either party to strictly enforce any term, right or condition of this Agreement shall be construed as a waiver of such term, right, or condition

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#### SECTION 4 – SPECIFICATION FOR SINGLE-PHASE REGULATORS

#### 1.01 GENERAL

This specification covers electrical, mechanical, and safety features and characteristics of outdoor, single-phase, oil-immersed, step-type voltage regulators. The voltage regulators must be completely self-contained and provide 10% regulation in thirty-two (32) steps of approximately 5/8% each. Forced air ratings are not acceptable.

#### 1.02 APPLICABLE STANDARDS

- A. Seller shall furnish equipment that will comply with all latest applicable standards and regulations of the Occupational Safety and Health Administration (OSHA), ANSI, IEEE and NEMA concerning the design of regulators. It should be further understood that these standards represent the minimum requirements.
- B. The primary standards to which this equipment shall be constructed and tested are:
  - 1. ANSI standard C57.15, "Step-Voltage and Induction-Voltage Regulators", latest revision.
  - 2. ANSI Type I, Mineral Oil per ASTM D-3487.

#### 1.03 SUBMITTALS

Submit the following:

- A. Product data: Catalogs and cut sheets
- B. Shop Drawings:
  - 1. Outline Dimension Drawings and Weights
  - 2. Schematics
  - 3. Wiring Connection Diagrams
  - Bushing Data/Drawings
  - 5. Nameplate Data
  - 6. Installation Instructions
  - 7. Operating Instructions
  - 8. Maintenance Instructions
  - 9. Bill of Material
  - 10. Foundation Information anchor bolt location plans, loadings, base dimensions.
- C. Certified test reports in written and electronic format
- D. Operation, maintenance and installation manuals

#### 1.04 WARRANTY

Seller shall provide a five-year warranty from the date of energization or 66 months from certification. Submit the warranty description with the proposal.

#### 1.05 TESTING AND CERTIFICATION

Seller shall test the units in accordance with the latest ANSI standards. Seller shall provide a list of factory tests and certify the units are ready for energization.



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#### REGULATOR DESIGN 1.06

- A. The regulator shall be sealed tank design with a 55/65°C rating. Operation at 65°C shall not increase the oxidation rate of the oil. A pressure relief device shall be supplied which vents at 4 PSIG.
- B. The regulators shall be designed such that they can be partially or completely untanked for inspection and maintenance without disconnecting any internal electrical or mechanical connections. After the unit is untanked, it shall be possible to operate the regulator mechanism and to test the control panel from an external 120 VAC source without any reconnections between the control and the regulator.
- C. The tap-changing mechanism shall be of the motor-driven, quick break type, and shall be completely oil immersed.
- D. The external parts of the tank and control enclosure shall be painted ANSI #70 over a primer of contrasting color. The inside of the tank and the bottom of the cover shall also be painted and/or primed.
- E. The regulator coil shall include thermally upgraded insulation to permit operation of the regulator up to 65° C rise without the loss of life to the insulation system.
- F. The BIL rating of the bushings shall be compatible with the BIL of the regulator and shall have a minimum creep distance of 18 inches. The bushing designations (S, L, or SL) shall be permanently marked on the regulator cover adjacent to the bushings. The S, L, or SL bushings must be interchangeable with each other.
- G. Each bushing shall include a threaded 1.125" 12 UNF-2A stud and shall be provided with NEMA 4-hole terminal pads, tinned and suitable for connection to either copper or aluminum.
- H. All regulators shall be provided with an external metal oxide varister (MOV) bypass arrester Connected across the series winding.
- I. An external oil sight gauge shall be provided which indicates oil level and color.
- J. An external position indicator shall indicate the tap changer position. The position indicator shall be mounted above the oil level and shall be slanted downward at a 45-degree angle for ease of reading from the ground.
- K. The 7620 voltage regulators shall be provided with taps for operation at 7970 V, 7620 V, and 7200 V.
- L. Mounting bases shall be provided for the addition of lightning arrestors adjacent to the source, load, and source-load bushings.
- M. All regulators shall be furnished with a I" drain valve with sampling device and a I" upper filter press connection.
- N. A handhole with cover shall be provided on top of the regulator for inspection purposes and access to terminals used for reconnection of regulators for lower voltage operation.
- O. A temperature gauge shall be provided with current temperature indication and re-settable maximum drag hand indication.

#### 1.07 **REGULATOR SPECIFICS**

- A. Single phase substation regulators shall be provided with a rating of 875/1167A, 7.62 kV +/-10%, 667/889 kVA, 55°C/65°C, 60 Hz, 95 kV BIL. Unit shall also include 65°C ratings.
- B. Provide and guarantee loss data for one raise and neutral positions at 875 amperes, 55°C rise over 30°C ambient.
- C. The regulators shall be Siemens' JFR or Eaton's model CooperPower™ series VR-32, +/- 10% regulation in (32) 5/8% steps, or approved equal. Submit alternative with proposal for approval by Buyer/Engineer.



### Single-Phase Regulators Procurement **Springfield Electric Department**

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- D. Furnish a base for each unit that will provide 9' live part to ground clearance within a substation yard. The base shall have pre-drilled holes suitable for bolting the regulator to the sub base. Holes shall also be provided for anchor bolting the sub base to the pad.
- E. Two ground pads, NEMA 2-hole, suitable for connection to copper material, shall be provided in diagonally opposite positions on the tank.
- F. Provide necessary design and material such that the top of the control enclosure shall not be mounted at the height exceeding 4'-0" from the bottom of the sub base stand.
- G. The units will be operated at 13.2/7.62 kV. The factory shall pre-set the internal tap, PT ratio, and RCT ratio such that an overall potential ratio of 63.5:1 is achieved with a test terminal voltage of 120V.

#### 1.08 LOSSES

- A. Losses shall be evaluated in the appraisal of the bids on self-cooled basis as follows:
  - 1. Evaluated Cost= Purchase Price of unit+ (\$NL Value X No Load Losses (Watts))+ (\$LL Value X Full Load Losses (Watts)). After comparing the I raise and neutral loss cost, the higher of the two will be added to the unit price to determine the final evaluated cost of the unit.
  - 2. Units delivered with no load or total losses higher than quoted may be rejected at the discretion of Buyer. If Buyer chooses to keep the unit, failure to meet guaranteed losses (no load or total) will result in application of a deduction on the invoice in accordance with the following:
    - a. \$250 per unit which fails to meet manufacturer's guarantee.
- B. No load loss Value: \$NL Value = \$6.00
- C. Load Loss Value: \$LL Value = \$2.00
  - 1. The loss data required is the guaranteed value of each individual regulator. Certified test report data and compliance with guaranteed value will not be based on the average of the three units.

#### 1.09 CONTROLS

- A. Type: Automatic, microprocessor-based, SEL controller #24310111X1246XXXXXXX with DNP and communications protocols.
  - 1. Features:
    - Adjustable voltage bandwidth from 1.5 to 3.0 V
    - b. Adjustable voltage setting from 108 to 132 V
    - Time delay range adjustable from 15 to 90 seconds
    - d. High limit/low limit blocking
    - e. Line drop compensation
    - f. Proper operation when operated isolated or in parallel
    - include required mounting equipment and wiring harness
    - Control will have internal, off, external 3 position switch for voltage selection
    - Control will have momentary raise-lower toggle switch



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- j. Control will have remote-local selection via front panel
- k. Serial interface on front of control and fiber optic interface on back of control

#### 2. Equipment

- a. One copy of software for settings and communications included
- b. Provisions for testing control mechanism
- c. Provisions for manual operation
- d. Current transformer for line drop compensation
- e. Position indicator with upper and lower drag hands to indicate maximum travel and electrical reset button mounted in the control cabinet
- f. Limit switches and stops to prevent travel beyond extreme tap position
- g. Positioning devices and OFF-position contacts
- h. Operations counter
- i. Control circuit protective devices
- j. OFF-position contact: Wired to indicating light in main cabinet
- 3. Mounting: In easily accessible control cabinet



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Sleepy Hollow Substation	Rev.:	00

#### **SECTION 5 – BID FORM**

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This Bid is hereby submitted by: \_\_\_\_\_\_(Seller)

#### 1.02 BID PRICE

Seller shall perform Work for the following price(s):

Description	Quantity	Unit Price	Total Price
667/889 KVA single- phase regulator	3	\$	\$

Quoted prices shall be FOB Point of Destination. Seller has the responsibility of Goods during shipment. Freight shall be allowed and pre-paid.

#### 1.03 DELIVERY

Buyer requests drawings be submitted for approval within **8 weeks** and delivery of Goods within **310 Calendar Days** of receipt of purchase order. Seller proposes to the following delivery schedule:

Delivery		
	Drawings (ARO)	Goods

#### 1.04 WARRANTY

Buyer requests 5-year warranty on Goods, which shall be included in the Total Price. If Seller includes <u>alternate</u> warranty period in Total Price, Seller shall state here the additional cost to provide a 5-year warranty. Seller proposes to the following warranty:

Seller's Proposed Warranty Period	Adder for 5-Year Warranty
	\$

#### 1.05 GUARANTEES: REGULATOR GUARANTEED PERFORMANCE

#### A. Single-Phase Regulators

1. Maximum losses when each regulator is operated at rated voltage and frequency and at 20° C ambient temperature. Losses shall be identical for each single-phase regulator:

_	No load losses:	(kW)
•	INO IOAU IOSSES.	(KVV)

- Load losses (at base MVA rating) \_\_\_\_\_(kW)
  - o Rated average winding temperature rise by resistance, plus 20° C

BID FORM Page 1 of 2



# 1.06 PAYMENT TERMS FOR EVALUATION PURPOSES

Buyer requests payment terms of 90/10, Net 30 days, per Section 3 – Terms and Conditions. Seller's proposal shall state whether these terms are accepted or whether the proposal is based on alternate payment terms. For bid evaluation purposes, if Seller proposes alternate payment terms, the time value of money (3%) calculation will be factored into the evaluated cost of Goods.

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mone	y (3 %) Calculatio	if will be factored lifto the evaluated cost of Goods.					
Α	. Does Seller ad	Does Seller accept the terms as stated Section 3? (circle answer) YES NO					
В	. Seller's propos	Seller's proposed payment terms:					
1.07	LIST OF EX	LIST OF EXCEPTIONS AND CLARIFICATIONS					
		(Attach additional sheets as necessary,					
1.08	ACKNOWL	EDGEMENTS					
А	. By submitting	By submitting this proposal, Seller:					
	1. Acknowled	dges receipt of addenda as follows:					
	2. Acknowled	dges terms of liquidated damages.					
1.09	SELLER'S	ATTACHMENTS TO BID					
А	. Provide outline	e drawing of circuit breaker.					
В	. Provide certific	cation of insurance with proposed limits.					
1.10	BIDDER (S	ELLER) INFORMATION					
	Company						
-	Contact						
-	Address						
	Phone/Email						
	Issue PO to						

THE CITY OF SPRINGFIELD RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.

BID FORM Page 2 of 2

# IRAN DIVESTMENT ACT NOTICE

Tenn. Code Ann. § 12-12-106 requires the chief procurement officer to publish, using credible information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105.

For these purposes, the State intends to use the attached list of "Entities determined to be non-responsive bidders/offerers pursuant to the New York State Iran Divestment Act of 2012."

While inclusion on this list would make a person ineligible to contract with the state of Tennessee, if a person ceases its engagement in investment activities in Iran, it may be removed from the list.

If you feel as though you have been erroneously included on this list please contact the Central Procurement Office at <a href="mailto:CPO.Website@tn.gov">CPO.Website@tn.gov</a>.

List Date: August 24, 2021

Source: https://www.ogs.ny.gov/iran-divestment-act-2012

- 1. Ak Makina, Ltd.
- 2. Amona
- 3. Bank Markazi Iran (Central Bank of Iran)
- 4. Bank Mellat
- 5. Bank Melli Iran
- 6. Bank Saderat Iran
- 7. Bank Sepah
- 8. Bank Tejarat
- China Precision Machinery Import- Export Corporation (CPMIEC)
- 10. ChinaOil (China National United Oil Corporation)
- 11. China National Offshore Oil Corporation (CNOOC)
- 12. China National Petroleum Corporation (CNPC)
- 13. Indian Oil Corporation
- 14. Kingdream PLC
- 15. Naftiran Intertrade Co. (NICO)
- National Iranian Tanker Co. (NITC)
- 17. Oil and Natural Gas Corporation (ONGC)
- 18. Oil India, Ltd.
- 19. Persia International Bank
- 20. Petroleos de Venezuela (PDVSA Petróleo, SA)
- 21. PetroChina Co., Ltd.
- 22. Petronet LNG, Ltd.
- 23. Sameh Afzar Tajak Co. (SATCO)
- 24. Shandong FIN CNC Machine Co., Ltd.

- 25. Sinohydro Co., Ltd.
- 26. Sinopec Corp. (China Petroleum & Chemical Corporation)
- 27. SKS Ventures
- 28. SK Energy Co., Ltd.
- 29. Som Petrol AS
- 30. Unipec (China International United Petroleum & Chemicals Co., Ltd.)
- 31. Zhuhai Zhenrong Co.

# **IRAN DIVESTMENT ACT**

"By the submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not a person included within the list created pursuant to § 12-12-106."

Signature:		
Date:		
Title:		