

ELECTRONIC CIRCUIT RECLOSER PROCUREMENT



Project Location: Hopkinsville, KY

Prepared by:

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REVISION HISTORY

Rev. No.	Date	Description
00	09/16/2026	Issued for bid

SECTION 1 – INVITATION TO BID

1.01 PARTIES TO CONTRACT

- A. Buyer: Hopkinsville Electric System
1820 E 9th St, Hopkinsville, KY 42240
Attention: Dustin Love
Phone: (270) 887-4207 Email: dlove@hop-electric.com
- B. Engineer: Patterson & Dewar Engineers, Inc.
1531 Hunt Club Blvd, Suite 200, Gallatin, TN 37066
Attention: Blake Dicus, PE
Phone: (615) 527-7084 Email: bdicus@pdengineers.com

1.02 BID ITEMS

- A. Buyer invites Bidder (Seller) to submit quotation for furnishing the following equipment (Goods):
1. **Bid Item A:** Nine [9] 15kV class, 1200 A, 12.5 kA pole-mounted automatic circuit reclosers with SEL-651R or SEL-651RA controls, complete with control cabinet, factory control cable, pole mounting hardware, communications provisions, surge arresters, spare parts, and freight
 2. **Bid Item B:** Auxiliary power supply, Option 1, dedicated distribution transformer (add per unit)
 3. **Bid Item C:** Auxiliary power supply, Option 2, manufacturer integral sensor-derived supply (add per unit)
 4. **Bid Item D:** Auxiliary power supply, Option 3, line-post CVT supply (add per unit)
 5. **Bid Item E:** Auxiliary power supply, Option 4, solar and battery supply (add per unit)
 6. Optional Services
 - a. **Bid Item F:** Recloser Service Engineer, commissioning support
 - 1) Furnish an optional price for an engineer to supervise check-out of the Goods and provide commissioning support. The quotation for this service shall include two days of a service engineer's time for installation supervision, start-up, and check-out of the Goods. Service engineer will be responsible for directing Owner's labor in proper installation techniques. Provide resume of proposed engineer.
 - b. **Bid Item G:** Training, classroom and field
 - 1) Furnish an optional price for personnel to provide Buyer's team with classroom and/or field training for the Goods. Provide details of the proposed training.
- B. The base contract generally consists of furnishing and delivering Goods to the Point of Destination. Seller shall design, manufacture, assemble, and test Goods in accordance with attached technical specifications and current industry standards.

1.03 POINT OF DESTINATION

Buyer's warehouse: 1820 E 9th St, Hopkinsville, KY 42240

1.04 BID SUBMITTAL

- A. Buyer shall accept bids via email until 12:00pm local time on October 17, 2026.
- B. Seller shall submit bid to dlove@hop-electric.com.
- C. Seller shall note "**Bid for HES Reclosers**" in the email's subject line and attach the bid to the email as one single PDF document.

1.05 DELIVERY & PRICING

- A. Deliver Goods to Point of Destination within the shortest possible lead time.
- B. Quoted prices shall be FOB Destination. 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 Point of Destination.
- C. Buyer is tax-exempt and will provide certificate after award upon request.

1.06 EVALUATION & AWARD

- A. Buyer will issue a purchase order to Seller upon award.
- B. Buyer will first review each bid for compliance with the requirements of this specification. Bids that do not comply may be rejected. Buyer will then evaluate complying bids on the following, in Buyer's judgment of best overall value:
 - 1. Total bid price and delivered cost per unit
 - 2. Estimated cost of ownership over a twenty-year period, including battery replacement, scheduled maintenance, and consumables
 - 3. Quoted delivery against Buyer's required dates
 - 4. Degree of exception taken to the specification
 - 5. Adequacy and flexibility of the auxiliary power supply options offered for field application
 - 6. Documented reliability history and availability of regional technical support
 - 7. Warranty terms, spare parts availability, and field serviceability
- C. 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 Seller, as determined by the Buyer and Engineer.

1.07 FEDERAL FUNDING

- A. Project Funding
 - 1. Buyer is purchasing Goods with grant funding from the Federal Emergency Management Agency (FEMA) and said funding arrangement affects how Buyer evaluates proposals and what Seller need to submit, as described below.
 - 2. Buyer will evaluate proposals on the factors listed in Paragraph 1.06, not on price alone. Award will go to the Seller whose proposal is the best overall value to Buyer, considering price along with the other factors.
 - 3. Seller shall break out pricing and complete all required fields on the Bid Form. Buyer needs itemized pricing to compare proposals and to document the purchase for the grant. A proposal quoting only a lump sum may be rejected.
- B. Federal Contract Provisions
 - 1. The resulting purchase order will be subject to the following FEMA-required contract provisions:
 - a. **REMEDIES FOR BREACH OF CONTRACT:** This contract is subject to contractual, legal, or administrative remedies in instances where Seller violates or breaches the terms of this contract. Where Seller's violation or breach is found to have occurred, Buyer shall have

available all remedies permitted under applicable federal, state, and local laws, regulations, and ordinances. Such sanctions and penalties shall be applied as appropriate based on the nature, severity, and duration of the breach.

b. **TERMINATION FOR CAUSE:**

1) Buyer may terminate this contract for cause if Seller:

- i) Fails to deliver the equipment or any component thereof by the required delivery date(s);
- ii) Delivers non-conforming equipment that fails to meet the specifications set forth in this contract;
- iii) Fails to perform installation or commissioning services as required;
- iv) Fails to cure a material breach within the applicable cure period;
- v) Misrepresents any material fact in connection with the bid, contract, or performance thereunder;
- vi) Becomes insolvent, is adjudicated bankrupt, or makes a general assignment for the benefit of creditors; or
- vii) Violates any applicable federal, state, or local law, regulation, or executive order in connection with the performance of this contract.

2) Upon termination for cause, Buyer shall have the right to procure substitute goods and services from other sources.

- c. **TERMINATION FOR CONVENIENCE:** Buyer may terminate this contract in whole or in part for Buyer's convenience upon 3] days' prior written notice to Seller. In the event of termination for convenience, Seller shall be entitled to payment only for work and deliverables satisfactorily completed and accepted prior to the effective date of termination, plus reasonable, allowable, and allocable costs for reasonable closeout activities. Seller shall not be entitled to anticipated profits on unperformed work.
- d. **DEBARMENT AND SUSPENSION (2 C.F.R. Part 180):** Seller certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in federal assistance programs by any federal department or agency in accordance with 2 C.F.R. Parts 180 and 3000. Seller shall include this certification requirement in all subcontracts exceeding \$25,000.
- e. **BYRD ANTI-LOBBYING AMENDMENT (31 U.S.C. § 1352):** Seller that applies or bids for a contract exceeding \$100,000 must file a certification that they have not and will not use Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, or an employee of a Member of Congress in connection with obtaining any federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall disclose any lobbying conducted with non-Federal funds. Disclosures shall be forwarded from tier to tier up to the Entity, which shall forward them to FEMA.
- f. **CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT:** Seller agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 U.S.C. §§ 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. §§ 1251–1387). Violations shall be reported to FEMA and to the Regional Office of the Environmental Protection Agency (EPA). Seller shall include this requirement in all subcontracts exceeding \$150,000.

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- g. DOMESTIC PREFERENCES: To the greatest extent practicable under this contract, Seller shall provide preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States.
 - h. COMPLIANCE WITH FEDERAL LAWS, REGULATIONS, AND EXECUTIVE ORDERS: This contract is subject to all applicable federal laws, regulations, executive orders, and FEMA policies. Seller shall comply with all such requirements as they relate to performance under this contract. This includes, but is not limited to, laws pertaining to equal employment opportunity, occupational safety and health, immigration, environmental protection, and anti-corruption.
 - i. NO OBLIGATION BY THE FEDERAL GOVERNMENT: The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to Seller or any other party pertaining to any matter resulting from the contract. Seller acknowledges that 2 C.F.R. § 200.327 requires that this clause be included in contracts under FEMA awards.
 - j. PROHIBITION ON CERTAIN TELECOMMUNICATION AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (2 C.F.R. § 200.216): Seller shall certify that no covered telecommunications or video surveillance equipment or services, as defined in 2 C.F.R. § 200.216, are furnished with the Goods, including any components within the recloser control, communications interfaces, or auxiliary power supply. The full prohibition clause will be incorporated into the resulting purchase order.
- C. Information To Be Submitted With Bid
- 1. Furnish the following with the proposal. Missing items may cause a proposal to be rejected.
 - a. SAM.gov Unique Entity Identifier if applicable.
 - b. Non-Collusion Bidding Certification Form (signed)
 - c. Non-Suspension or Debarment Certification Form (signed)
 - d. Byrd Anti-Lobbying Certification Form (signed)
 - e. Statement that no covered telecommunications or video surveillance equipment is furnished with the Goods.
- D. Records
- 1. Seller shall keep records related to this purchase for three years after Buyer submits its final grant report, and shall make them available to Buyer, FEMA, or their auditors on request.

1.08 ADDITIONAL INSTRUCTIONS TO BIDDERS

- A. No bid security is required.
- B. Seller's proposal shall remain valid for sixty (60) days after the date set for opening of bids.
- C. Seller shall provide all information requested in this RFQ. 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.

D. 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 may consider 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.

SECTION 2 – GENERAL REQUIREMENTS

2.01 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.

2.02 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 two weeks 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.

2.03 SHOP DRAWINGS AND SAMPLES SUBMITTAL PROCEDURES

- A. Email submittals to Engineer with copy to Buyer. Schedule submittals to expedite furnishing the Goods and coordinate submission of related items. Send to:
 - 1. Engineer: shopdrawings@pdengineers.com
 - 2. Buyer: dlove@hop-electric.com
- B. Seller shall submit Shop Drawings and Samples for Engineer's review and approval as soon as possible after receipt of order.
- C. Identify variations from Contract Specification.
- D. Provide space on all drawings for Seller and Engineer review stamps.
- E. 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.

2.04 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

C. Operation, Maintenance and Installation Manuals

1. 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:
 - a. Directory, listing names, addresses, and telephone numbers of Engineer, Seller, subcontractors, and major component suppliers.
 - b. 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.

2.05 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.

2.06 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. Assume responsibility for loss and damage including but not limited to breakage, corrosion, weather damage, and distortion until delivered to Buyer.

SECTION 3 – SPECIFICATION FOR 15kV POLE-MOUNTED AUTOMATIC CIRCUIT RECLOSERS

3.01 GENERAL

- A. This specification covers pole-mounted automatic circuit reclosers, and it details electrical, mechanical, and safety features as well as characteristics of outdoor, vacuum, 60 hertz automatic circuit reclosers with SEL controls and field auxiliary power supplies. The automatic circuit reclosers will be used to switch load current and to interrupt faults on overhead distribution feeders and will be connected to a nominal 13.2kV system. Automatic circuit reclosers used on the nominal 13.2kV system must be able to withstand operating voltages up to 15.5kV.
- B. The recloser control shall be a Schweitzer Engineering Laboratories SEL-651R or SEL-651RA. This requirement is established to maintain compatibility with Buyer's existing substation relay platform, settings practice, and engineering software, and to permit a single spare control pool across Buyer's system.

3.02 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 automatic circuit reclosers. It should be further understood that these standards represent the minimum requirements.
- B. Furnish medium voltage, alternating current, three-pole, outdoor, pole-mounted automatic circuit reclosers rated for operation on a nominal 13.2kV system with a maximum design voltage of 15.5kV. Seller shall state the interrupting medium and the insulation medium of the offered recloser.
- C. Mounting height and clearances shall satisfy the applicable requirements of the NESC and Buyer's standard pole framing details.
- D. Assemble, adjust and complete manufacturer's standard production tests in accordance with IEEE C37.60-2012.

3.03 RATINGS

- A. Provide Goods meeting the following design ratings:

Operating voltage		13.2kV
Maximum voltage		15.5kV
BIL		110kV minimum
Continuous current		1200 A, rms
Max. interrupting rating		12.5 kA minimum
Rated short-time current carrying (3 s)		12.5 kA, rms, minimum
Reclosing duty cycle		Per IEEE C37.60
Ambient operating temperature		-40 C to +55 C
Altitude		1,000 m or less
Withstand test voltage:	Low frequency, 60 second dry	50kV, rms
	Impulse, full wave	110kV, crest

- B. Seller shall certify that the design shall be such that the nameplate rating shall be maintained during the expected life of this type equipment under normal operating and maintenance conditions.

3.04 WARRANTY

Provide manufacturer's standard warranty on Goods.

3.05 SUBMITTALS

A. Submit the following:

1. Product data: Catalogs and cut sheets
2. Shop Drawings:
 - a. Outline diagram illustrating general arrangement, pole mounting arrangement, overall dimensions with location of center of gravity and lifting provisions, and total assembly weight, itemized by component and stated as a total, including recloser, control cabinet, auxiliary power supply, and all mounting hardware.
 - b. Control cabinet arrangement, showing equipment layout, terminal block locations, cable entrance, battery location, and communications equipment mounting space with usable dimensions stated
 - c. Auxiliary power supply arrangement, including mounting details and, where an external transformer or CVT is furnished, its mounting position relative to the recloser and cabinet
 - d. Auxiliary power supply data, including input voltage range, continuous VA or watt output, and whether output is maintained with the recloser open
 - e. Control interface data, including trip voltage, close voltage, maximum and minimum control voltage, tripping current, closing current, and actuator charging current
 - f. Battery data, including chemistry, nominal voltage, amp-hour capacity, charging characteristics, and expected service life at the specified ambient range
 - g. Control cable or umbilical data, including manufacturer part number, length, and pin configuration
 - h. Recloser control schematic
 - i. Secondary current schematic
 - j. Bushing data, including dimensions for bushing removal
 - k. Sensing data, including current transformer ratio and accuracy, voltage sensor configuration and accuracy, and sensor scaling factors
 - l. Nameplate data
 - m. Terminal block connections
 - n. Wiring diagrams (tabular format is not acceptable)
 - o. Notes and symbols
 - p. Bill of material
3. Test reports in written and electronic format
4. Operation, maintenance and installation manuals

3.06 INTERRUPTERS - VACUUM

- A. Each interrupter shall contain a pair of butt type contacts of a special non-welding alloy with a construction to ensure interrupter integrity for a proper dielectric level over a 40-year service life.
- B. The interrupters shall be mounted in such a way to prevent mechanical stresses from being transmitted to the seals.

- C. Test points along with a detailed test procedure to facilitate testing the integrity of the interrupter shall be provided.

3.07 CONTROL VOLTAGES

- A. Station service or station battery may not be available at the installation locations. Trip, close, control, and accessory power shall be derived from the auxiliary power supply and battery specified in Paragraph 3.15 AUXILIARY POWER SUPPLY.

3.08 MECHANISM AND CONTROLS

- A. The recloser mechanism shall provide three-phase trip with three-phase lockout as a minimum. A mechanism providing single-phase operation is not required. Where the offered mechanism is capable of independent phase operation, Seller shall so state on the Bid Form and shall list every trip and lockout mode the mechanism provides with the offered control, including any mode requiring a mechanism option or a configuration other than that quoted.
- B. Reclosers shall be equipped with a mechanically and electrically trip-free mechanism provided with an anti-pump scheme. Mechanism shall be magnetically actuated. Provisions for manual tripping/closing and other standard equipment shall be located within this housing. Control power shall be capable of connecting to 120 VAC.
- C. The mechanism and control shall further provide the following:
 - 1. The recloser shall employ a magnetic actuator requiring no routine mechanism lubrication. Stored-energy spring mechanisms are not acceptable.
 - 2. The control shall monitor actuator readiness and shall provide a "not ready to operate" alarm point reportable through SCADA.
 - 3. A mechanism position indicator, visible from outside the housing.
 - 4. Recloser shall be equipped with an external manual trip device painted red for significance.
 - 5. One multi-stage auxiliary switch, completely wired to terminal blocks in the mechanism cabinet.
 - 6. Mechanical operations counter.

3.09 BUSHINGS

- A. Bushings shall be of the NEMA standard 15kV class, 110kV BIL and equipped with external terminal and terminal connector.
- B. Stud connectors with stud-to-4-hole pad shall be supplied by Seller, similar to Anderson type HDSF.
- C. The bushing color shall be light gray ANSI No. 70.
- D. Bushing creepage shall be per IEEE standard.
- E. Type of bushing: Porcelain or composite

3.10 SENSING

- A. The recloser shall be furnished with integrated current sensing on all three phases. Seller shall state the current transformer ratio, whether dual or variable ratio is provided, and whether the stated continuous current rating is contingent on a particular ratio.
- B. The recloser shall be furnished with integrated voltage sensing on both the source side and the load side of all three phases. Seller shall state the number of voltage sensors furnished and which sides are sensed. Where source-side sensing is available only as an option, Seller shall state the price adder.
- C. Seller shall state sensing accuracy as a percentage of reading over the expected load range, not solely as a class designation.
- D. Sensor outputs shall be factory characterized, and scaling factors shall be furnished with each unit, traceable to the serial number.

3.11 CONSTRUCTION

- A. Physical characteristics:
 - 1. Type: Outdoor, 3-pole
 - 2. Type of mounting: Pole
- B. Enclosure:
 - 1. Type: Seller shall state the enclosure and insulation construction of the offered recloser.
 - 2. Design to withstand stresses generated at maximum interrupting rating
- C. Sheet metal shall be of suitable quality and thickness to provide rigid enclosures and cabinets with smooth surfaces.
- D. Bolts, cap screws, nuts, unpainted metal, etc. exposed to the weather shall be made of non-corrosive stainless steel material.
- E. Mechanism and relay cabinets shall have hinged doors with a handle operated, latch and shall be fully gasketed with non-sticking material.
- F. Enclosures and cabinets shall be waterproof and dust tight. Filters shall be removable, washable and of sufficient density to prevent dust from entering the enclosure.
- G. The high voltage compartment roof shall be sloped or have a raised center to prevent standing water.
- H. Mechanism and relay cabinets shall have at least one removable control conduit gasketed entrance area located below the terminal blocks.
- I. High voltage compartments shall be labeled as follows:

**DANGER
HIGH VOLTAGE COMPARTMENT
DO NOT OPEN UNLESS RECLOSER IS DE-ENERGIZED**

The label shall be made of etched stainless steel or anodized aluminum with a minimum life expectancy of 35 years.

- J. All parts of the recloser shall be thoroughly cleaned, primed and painted before final assembly. The color of the finish paint shall be Outdoor Light Gray, ANSI No. 70.
- K. Lifting eyes or hooks shall be provided and arranged so that slings will not damage bushings.

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- L. Permanent 3" x 3" terminal labels shall be installed on the enclosure at the base of each bushing. The labels shall be visible to personnel standing on the ground. Do not affix to the bushing.
- M. The recloser and control cabinet shall be furnished with mounting hardware, brackets, and framing adapters required for installation on a wood distribution pole per Buyer's standard framing details.
- N. Seller shall state the total assembly weight, including recloser, control cabinet, mounting hardware, and auxiliary power supply, and shall furnish an outline drawing of the complete pole-mounted arrangement.
- O. A grounding provision shall be furnished on the recloser and on the control cabinet, suitable for connection to Buyer's standard pole ground conductor. Seller shall state the conductor size accepted.

3.12 RELAYING**A. Feeders:**

- 1. Manufacturer: Schweitzer Engineering Laboratories
- 2. Type: SEL-651R or SEL-651RA
- 3. Part #: Determined by Seller
- 4. Requirements:
 - a. Power Supply: 120VAC
 - b. Battery: Determined by Seller
 - c. Extra I/O: None required
 - d. Communications Interface: Ethernet, Fiber and Copper
 - e. Communications: Standard (DNP)
 - f. Enclosure: Dual Door, side mounted

3.13 CONTROL CABLE

- A. A factory-manufactured control cable or umbilical shall be furnished for each recloser, identified by manufacturer part number. Field-fabricated control cables are not acceptable.
- B. Cable length shall be 30 feet, suited to Buyer's standard pole framing and control cabinet mounting height.
- C. Connectors shall be keyed and weather-sealed, rated for the full ambient temperature range specified in Paragraph 3.03 RATINGS.
- D. Seller shall state the manufacturer part number, length, and pin configuration of the cable furnished, and shall confirm compatibility with the control specified in Paragraph 3.12 RELAYING.

3.14 AUXILIARY EQUIPMENT

- A. Each control cabinet shall be equipped with a suitably rated disconnecting means and overcurrent device for the auxiliary power supply, accessible within the cabinet.
- B. Supply recloser control with an auxiliary switch with three stages following the recloser interrupting contacts. Supply spare poles wired to terminal blocks.
- C. Mount equipment wired and ready for operation.
- D. Devices and terminal blocks shall be well labeled per the device name.
- E. Wiring shall be labeled at termination ends indicating opposite end connection point (destination). Give terminal blocks unique labels.
- F. Terminals within the mechanism housing shall be identified/labeled. Terminals for connection to circuits external to the circuit recloser shall be identified and marked as to function and voltage.
- G. Condensation control shall be provided within the control cabinet. Seller shall state the method furnished and its continuous power draw, which shall be included in the auxiliary power sizing calculation.
- H. Provide battery and auxiliary source monitoring through the control, with alarm points as specified in Paragraph 3.13 AUXILIARY POWER SUPPLY. Separate monitoring relays are not required.
- I. Properly support wiring. Glue type stick-on wiring supports are not acceptable.
- J. Control wiring shall be minimum #14 AWG SIS.

3.15 AUXILIARY POWER SUPPLY

- A. General
 - 1. The reclosers will be installed on distribution poles at locations where station service may not be available. The auxiliary power supply and control battery are therefore part of the furnished scope.
 - 2. The auxiliary power supply shall serve the recloser control, the communications equipment allowance stated below, control cabinet accessories, and battery charging, continuously and at the ambient extremes stated under Paragraph 3.03 RATINGS.
 - 3. Seller shall quote each of the four options below as a separate Bid Item. Buyer will select the option or combination of options at award and may select different options for different locations.
- B. Option 1, dedicated distribution transformer (Bid Item B)
 - 1. A single-phase, pole-mounted distribution transformer connected phase-to-ground on the source side of the recloser, furnished complete with primary fused cutout, surge arrester, secondary leads, secondary overcurrent protection, and mounting hardware. Secondary voltage shall be 120/240 V. Seller shall state the transformer kVA rating, total added weight, and mounting arrangement.
 - 2. Where Buyer elects to furnish the transformer and cutout from its own stock, Seller shall state the deduct and shall furnish the secondary leads, secondary protection, and terminations required to connect to the control cabinet.

- C. Option 2, integral sensor-derived supply (Bid Item C)
 - 1. Auxiliary power derived from the recloser's integral voltage sensors, requiring no external transformer or separate potential source. Seller shall state the continuous VA output and whether output is maintained with the recloser open.
- D. Option 3, line-post CVT supply (Bid Item D)
 - 1. Pole-mounted coupling capacitor voltage transformer supply, furnished complete with mounting hardware, secondary leads, and secondary overcurrent protection. Seller shall state the continuous VA output and the mounting arrangement.
- E. Option 4, solar and battery supply (Bid Item E)
 - 1. Photovoltaic array with charge controller and extended battery capacity, sized for the standby duty specified under Battery and standby duty, at the latitude of the Point of Destination. Seller shall state array wattage, mounting arrangement, and total added weight.
- F. Requirements Common To All Options
 - 1. Furnish an auxiliary power sizing calculation with the bid, showing the control load, the communications equipment allowance, accessory loads, and battery charging load, with the resulting margin stated.
 - 2. The communications equipment allowance shall be not less than **[300] watts** continuous, available at the control cabinet for Buyer-furnished communications equipment. Seller shall state the spare capacity available beyond that allowance.
 - 3. The supply shall be protected by a suitably rated disconnecting means and overcurrent device, accessible within the control cabinet.
 - 4. Loss of the auxiliary source shall initiate an alarm point reportable through SCADA.
 - 5. The supply shall be replaceable in the field without removing the recloser from the pole and without special tools.
 - 6. Auxiliary supply components mounted outside the control cabinet shall be suitable for continuous outdoor exposure and shall be furnished with mounting hardware compatible with Buyer's standard pole framing.
 - 7. Where an auxiliary supply option derives power from the distribution line, Seller shall state whether the supply remains available with the recloser open, and from which side the supply is taken.
- G. Battery And Standby Duty
 - 1. A rechargeable battery shall be furnished, sized to maintain full control and protection functionality, including trip and close capability, for not less than 48 hours following loss of the auxiliary source, and to perform not fewer than five complete trip-close operations during that period.
 - 2. Furnish a battery sizing calculation with the bid demonstrating compliance with the standby duty stated above.
 - 3. Seller shall state battery chemistry, amp-hour capacity, expected service life at the ambient range specified under RATINGS, and recommended replacement interval.
 - 4. Battery charging shall be temperature compensated.

5. The control shall provide automatic periodic battery test, a low-battery alarm point, and a battery-failed alarm point, each reportable through SCADA.
6. The battery shall be replaceable in the field without de-energizing the recloser and without special tools.
7. Where the communications equipment allowance materially affects battery sizing, Seller shall state the standby duty both with and without that load.

H. Loss-of-source operation

1. The recloser shall be capable of local and remote operation on battery power with the line de-energized on both sides. Seller shall state the number of complete trip-close operations available from a fully charged battery with no auxiliary source present.

3.16 COMMUNICATIONS AND SCADA

- A. The control shall support DNP3 Level 2 or later, over serial and over TCP/IP. Seller shall furnish the DNP3 point list as configured with the bid.
- B. The control shall support GPS and NTP time synchronization.
- C. The control shall provide remote open, remote close, remote lockout and reset, status indication, analog current and voltage measurements, and alarm reporting.
- D. The control cabinet shall include mounting provisions for Owner-furnished communications equipment, including a mounting shelf or DIN rail, antenna entry with weather seal, coaxial surge protection, and grounding provisions. Seller shall state the usable dimensions of the space provided.
- E. The control shall provide role-based access control, configurable enable and disable of communications ports, and firmware updates authenticated by the manufacturer.
- F. Local engineering access shall be provided at the control by USB or Ethernet, without interrupting protection functions.

3.17 NAMEPLATES

- A. Furnish for each fuse group and other devices
- B. Material: Laminated plastic with white letters on black background
- C. Attach nameplates with screws.
- D. Wording: Inscription and sizes determined by Seller and subject to review by Owner.
- E. Nameplate schedule shall be per attached Exhibit A.

3.18 SPARE PARTS

- A. The following spare parts shall be provided and included in Seller's base bid price:

QTY	ITEM
1	Control cabinet battery, of the type furnished
1	Complete set of gaskets and seals for the control cabinet
1	Control cable or umbilical, of the length and part number furnished
1	Set of surge arresters, of the type furnished
1	Auxiliary power supply module, of the option furnished

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- B. Provide original manufacturers' catalog numbers for the spare parts listed above with the bid.
- C. Provide pricing for recommended spare parts (other than those listed above) with the bid.

SECTION 4 – BID FORM

4.01 BIDDER

A. This Bid is hereby submitted by: _____ (Seller)

4.02 REQUIRED BID ITEM PRICING

A. Seller shall furnish Goods and perform Work for the following price:

Bid Item	Goods	Qty	Unit Price
A	15kV 1200A 12.5kA Pole-Mounted Automatic Circuit Reclosers with SEL-651R or SEL-651RA Control, complete with control cabinet, factory control cable, pole mounting hardware, communications provisions, surge arresters, spare parts, and freight	9	\$
B	Auxiliary Power Supply, Option 1, Dedicated Distribution Transformer (ADDER)	9	\$
C	Auxiliary Power Supply, Option 2, Manufacturer Integral Sensor-Derived Supply (ADDER)	9	\$
D	Auxiliary Power Supply, Option 3, Line-Post CVT Supply (ADDER)	9	\$
E	Auxiliary Power Supply, Option 4, Solar and Battery Supply (ADDER)	9	\$

4.03 OPTIONAL BID ITEM PRICING

Seller shall furnish optional services for the following price:

Bid Item	Goods	Price Per Day	Total Price
F	Recloser Service Engineer		
G	Recloser Training		

4.04 DELIVERY SCHEDULE

Seller shall deliver Goods according to the following schedule:

	Goods
Seller's Proposed Delivery:	

4.05 BID ITEM DETAILS

Information Required	Seller's Response
SAM.gov registration, active, with the Unique Entity Identifier	
Name of manufacturer	
Method of shipment	
Location of manufacturing facility	
Circuit Recloser type and Interrupting Medium	
Maximum number of operations at maximum rated short circuit current before maintenance is required	
Recloser opening time	
Recloser closing time	
Recommended maintenance required and recommended maintenance intervals	
Mechanism type furnished	
Trip and lockout modes the mechanism provides with the offered control (list all)	
Price adder for independent phase operating capability, if offered	
Interrupting medium and insulation medium	
Current sensing: CT ratio, and whether dual or variable ratio	
Is the stated continuous current rating contingent on a particular CT ratio?	(CIRCLE) YES / NO
Voltage sensing: number of sensors furnished, and which sides sensed	
Price adder for source-side voltage sensing, if offered as an option	
Published sensing accuracy, percent of reading, over the expected load range	
Control model designation and catalog number	
Control cable or umbilical part number, length, and pin count	
Auxiliary power supply option offered, and continuous VA or watt output	

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Information Required	Seller's Response
Is auxiliary supply output maintained with the recloser open?	(CIRCLE) YES / NO
Battery chemistry, amp-hour capacity, and expected service life	
Standby time at the duty stated in the specification	
Number of trip-close operations available on battery with no auxiliary source	
Available auxiliary power for Owner-furnished communications equipment, watts continuous	
Usable space provided in the control cabinet for Owner-furnished communications equipment	
Warranty period offered	
Net weight of Recloser	
Total assembly weight, including recloser, control cabinet, mounting hardware, and auxiliary power supply	
Confirm spare parts required Paragraph 3.17 are included in base bid?	(CIRCLE) YES / NO
List spare parts that are NOT included in the total bid price, but are recommended by manufacturer, with net prices shown FOB site (attach list if necessary)	

4.06 BID VALIDITY

Seller's bid will remain valid for _____ days after the bid due date or until _____ (date).

4.07 LIST OF EXCEPTIONS AND CLARIFICATIONS

(Attach additional sheets as necessary)

4.08 FORMS REQUIRED WITH BID SUBMISSION

- A. To accompany this Bid Form and any of Seller's own supporting documentation, Seller is required to submit with its bid the following forms:
1. Non-Collusion Bidding Certification (signed and notarized)
 2. Non-Suspension or Debarment Certification (signed and notarized)
 3. Byrd Anti-Lobbying Certification (signed and notarized)

4.09 BIDDER (SELLER) INFORMATION

Provide the contact information and details of where a purchase order should be issued:

Company	
Contact	
Address	
Phone/Email	
Issue PO to <i>(if different than above)</i>	
Date Submitted	

NON-COLLUSION BIDDING CERTIFICATION

A. By submission of this bid, Bidder, and each person signing on behalf of Bidder certifies, and in the case of joint bid each party hereto certifies, as to its own organization, under penalty of perjury, that to the best of his or her knowledge and belief:

1. The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition as to any matter relating to such prices with any other Bidder or with any competitor.
2. Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to the opening, directly, to any other Bidder or to any competitor.
3. No attempt has been made or will be made by the Bidder to induce any other person, partnership, or corporation to submit or not submit a bid for the purpose of restricting competition.
4. Neither I nor any representative of the Bidder to my knowledge is a party to, or participated in, any agreement or collusion in restraint of competition with respect to the project bid herein.

Bidder's Company Name

Signature of Authorized Representative

Printed Name of Authorized Representative

Date Signed

I, _____, the person who subscribed the above certification, do affirm under penalties of perjury that the statements hereinabove set forth are true in every respect. If I am not the Bidder, I was at the time of said subscription the agent, officer, or employee of the Bidder authorized to execute said affidavit in the name of the Bidder.

Signature

Date Signed

Print Name

STATE OF _____

COUNTY OF _____

Sworn to and subscribed before me this _____ day of _____, 2026.

NOTARY SEAL:

NOTARY PUBLIC SIGNATURE

COMM EXP: _____

NOTARY ID: _____

All persons or firms, including subcontractors, must complete this certification.

NON-SUSPENSION OR DEBARMENT CERTIFICATION

- A. The undersigned certifies, to the best of his or her knowledge and belief, and under penalty of perjury, that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, or manager:
1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or agency;
 2. Have not, within the three (3) year period preceding this certification, been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction, violation of Federal or State antitrust statutes, or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;
 3. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses listed above of this certification; and
 4. Have not, within the three (3) year period preceding this certification, had one or more public transactions (Federal, State, or local) terminated for cause and default.
- B. If such persons or firms later become aware of any information contradicting the statements above, they will promptly notify Buyer.
- C. State any exceptions to this certification in the following space:

(Attach additional pages as needed)

- D. Buyer's Note: Exceptions will not necessarily result in a denial of award but will be considered in determining bidder responsibility.

Bidder's Company Name

Signature of Authorized Representative

Printed Name of Authorized Representative

Date Signed

NON-SUSPENSION OR DEBARMENT CERTIFICATION

I, _____, the person who subscribed the above certification, do affirm under penalties of perjury that the statements hereinabove set forth are true in every respect. If I am not the Bidder, I was at the time of said subscription the agent, officer, or employee of the Bidder authorized to execute said affidavit in the name of the Bidder.

Signature

Date Signed

Print Name

STATE OF _____

COUNTY OF _____

Sworn to and subscribed before me this _____ day of _____, 2026.

NOTARY SEAL:

NOTARY PUBLIC SIGNATURE

COMM EXP: _____

NOTARY ID: _____

BYRD ANTI-LOBBYING CERTIFICATION

- A. The undersigned certifies, to the best of his or her knowledge and belief, that:
1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
 2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- B. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Bidder, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Bidder understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

Bidder's Company Name

Signature of Authorized Representative

Printed Name of Authorized Representative

Date Signed

BYRD ANTI-LOBBYING CERTIFICATION

I, _____, the person who subscribed the above certification, do affirm under penalties of perjury that the statements hereinabove set forth are true in every respect. If I am not the Bidder, I was at the time of said subscription the agent, officer, or employee of the Bidder authorized to execute said affidavit in the name of the Bidder.

Signature

Date Signed

Print Name

STATE OF _____

COUNTY OF _____

Sworn to and subscribed before me this _____ day of _____, 2026.

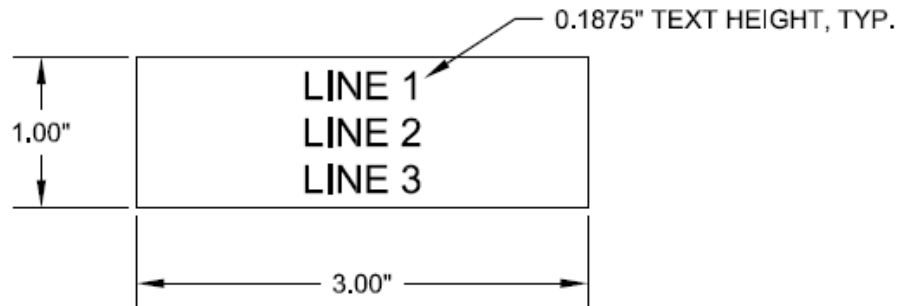
NOTARY SEAL:

NOTARY PUBLIC SIGNATURE

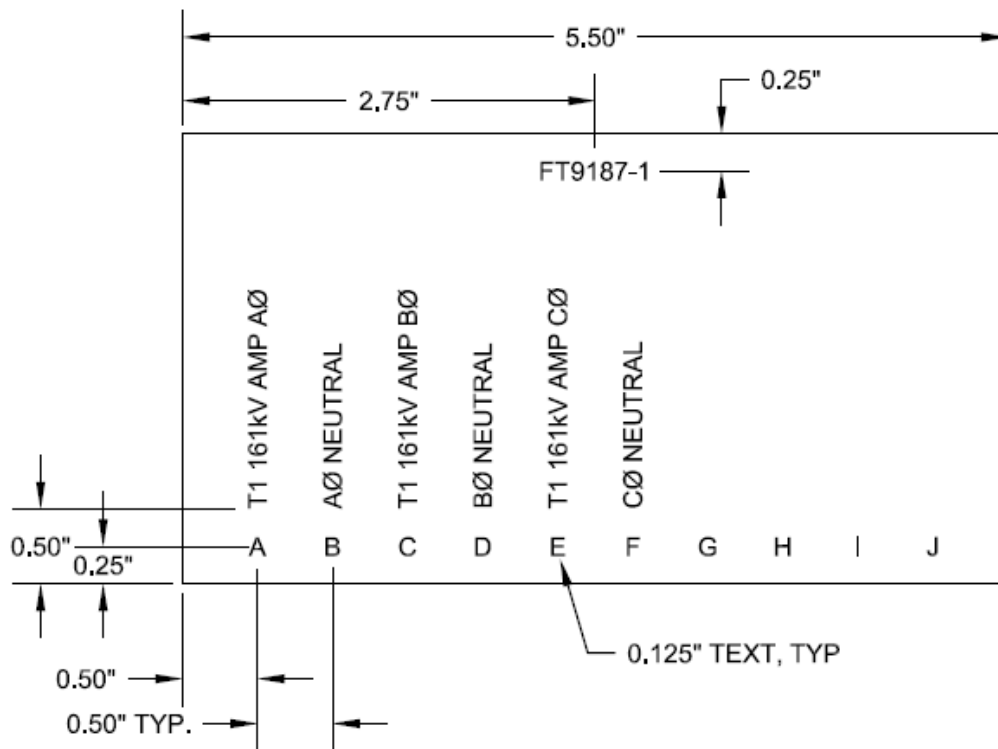
COMM EXP: _____

NOTARY ID: _____

EXHIBIT A – STANDARD NAMEPLATE



DEVICE NAMEPLATE



FT SWITCH NAMEPLATE