

GREENEVILLE ENERGY AUTHORITY

INVITATION TO BID BEAD FIBER OPTIC ENCLOSURES - GREENE PAU 1-3

BEAD Project No. CM61-BEAD-TN-0062

1. Invitation to Bid

Greeneville Energy Authority (GEA) is requesting sealed electronic competitive bids for the furnishing and delivery of fiber optic splice closures and network access point (NAP) enclosures for GEA's Broadband Equity, Access, and Deployment (BEAD) projects, including Greene PAU 1. Combined estimated quantities for Greene PAU 1, Greene PAU 2, and Greene PAU 3 are included in the Bid Schedule.

The procurement is expected to exceed \$100,000 and is therefore subject to GEA's competitive procurement procedures and Board approval. GEA intends to seek a minimum of three competitive bids and advertise the solicitation in appropriate media.

Bid Advertisement Date	September 30, 2026
Deadline for Questions	October 15, 2026
Bid Due Date and Time	October 21, 2026 2:00pm Eastern
Bid Opening	October 22, 2026
GEA Contact	Chris Gass, Senior Network Engineer – cgass@mygea.net
Delivery Location(s)	GEA Warehouse
Bid Submission Email	purchasing@mygea.net

Electronic Sealed-Bid Procedure. SEALED ELECTRONIC BID SUBMISSION: Bids must be submitted by email as a password-encrypted electronic file to the email address identified in this solicitation no later than the stated bid deadline. The password must NOT be included in the bid-submission email. After the bid deadline, when GEA begins processing and opening the bids, GEA will contact the bidder and request the password. The bidder shall promptly provide the password only upon GEA's request. Bids that cannot be opened when requested may be deemed non-responsive. Bid contents must remain inaccessible to GEA until the formal bid-opening process.

2. Scope of Supply

The successful bidder shall manufacture, furnish, and deliver new fiber optic splice closures and NAP enclosures, together with the associated splice trays, meeting all requirements of this Invitation to Bid. Enclosures shall be suitable for installation on GEA's electric distribution system and shall comply with the mandatory requirements below.

GEA is currently deploying AFL APEX X1, X2, and X3 enclosures, which are the basis of design. Requirements are organized below as Set A (small), Set B (mid-size), and Set C (large). Estimated quantities are shown in the Bid Schedule.

3. Mandatory Technical Requirements

Set A - Small closure (NAP / drop terminal class)

- **Closure Type:** Re-enterable, gel-sealed butt-style dome suitable for direct bury, handhole, aerial, and pole/wall mounting, rated -40°C to 65°C and tested to a minimum 20-foot water head.
- **Sealing:** Per-port and individually actuated. Each port shall open by a tool-less press-to-release mechanism and close by a single screw, so that adding or re-entering one cable does not disturb the seal on any other port.
- **Cable Entry:** Base shall provide a minimum of four (4) cable entry ports accepting cables 0.40" to 1.10" (10 to 28 mm), with strain relief and cable attachment hardware orderable factory-installed for zero to four cables and field-addable thereafter.
- **Drop Expansion:** Ports shall be expandable for drop cable via entry kits allowing up to four flat or 0.20" to 0.39" round drops per port, supporting a minimum of eight (8) drops against an expressed distribution cable.
- **Splice Capacity:** Closure shall accept a minimum of three (3) hinged splice trays that lock in the raised position for access to slack storage below, with a minimum usable capacity of 144 single-fusion splices.
- **Splice Modules:** Modules shall hold a minimum of 24 single-fusion splices and shall also accept mechanical splices, PLC splitters, and OADM devices in the same tray, eliminating application-specific tray SKUs.
- **Slack and Seal:** Closure shall have a molded slack basket with multiple tie-down points for hook-and-loop straps or tie wraps, and a captive, field-replaceable dome-to-base O-ring, with field kits available for wedges, inner base gel, ring clamp, and dome.
- **Footprint:** Shall not exceed 19" x 9" at 10 lbs unloaded.

Set B - Mid-size closure (primary loose-tube splice point)

- **Closure Type:** Re-enterable, gel-sealed butt-style dome for direct bury, handhole, aerial, and pole/wall use, tested to and passing GR-771-CORE including a 20-foot water head, rated -40°C to 65°C.
- **Sealing:** Per-port and individually actuated, tool-less release and single-screw compression, such that later cable additions require no disturbance of existing sealed ports.
- **Cable Entry:** Base shall provide a minimum of six (6) cable entry ports accepting cables 0.40" to 1.10" (10 to 28 mm), each independently pairable with its own grounding lug, with strain relief for zero to six cables available from the factory and field-addable kits thereafter.
- **Drop Expansion:** Ports shall be expandable for drop cable via multi-drop entry kits (four flat or 0.20" to 0.39" round drops per port), supporting up to sixteen (16) drops against an expressed distribution cable for NAP configurations.
- **Splice Capacity:** Closure shall accept a minimum of six (6) hinged, lockable splice trays off a central organizer, with a minimum usable capacity of 576 single-fusion splices.
- **Splice Modules:** Modules shall hold a minimum of 24 single-fusion splices and shall also accept mechanical splices, PLC splitters, and OADM devices in the same tray. No separate tray types for splitter versus splice applications.
- **Fiber Retention:** Loose-tube fiber retention shall be supported by a manufacturer-supplied retention system (V-clips and retention pads or equivalent) for securing buffer tubes into the tray array. An optional segmented basket shall be available to separate expressed from spliced slack.
- **Seal and Field Kits:** Dome-to-base seal shall be a captive, field-replaceable O-ring, with field kits offered for wedges, inner base gel, locking ring clamp, dome, and basket assemblies.
- **Footprint:** Shall not exceed 25" x 12" at 25 lbs unloaded. Domestic-preference (BABA/BEAD) part numbers shall be available.

Set C - Large closure (high-count loose-tube splice point, 288ct and above FDH splicing)

- **Closure Type:** Re-enterable, gel-sealed butt-style dome for direct bury, handhole, aerial, and pole/wall use, designed in accordance with Telcordia GR-771 to a minimum 15-foot water head, with per-port individual sealing as described above.
- **Cable Entry:** Base shall provide a minimum of six (6) cable entry ports accepting cables up to 1.38" (35 mm) in diameter, sized for large-count ADSS loose-tube feeders, each pairable with its own grounding lug.
- **Cable Attachment:** Cable attachment units shall be factory-configurable for zero to six cables and field-addable via separately purchased kits, with tool-less release and single-screw gel compression at each port.
- **Drop Expansion:** Ports shall be expandable for drop cable via multi-drop entry kits (four flat or 0.20" to 0.39" round drops per port), supporting up to sixteen (16) drops against an expressed distribution cable.
- **Splice Capacity:** Closure shall accept a minimum of six (6) hinged splice trays that lock open at a fixed working angle (nominally 72 degrees) for hands-free access to trays and slack storage below, with a minimum usable capacity of 864 single-fusion splices.
- **Splice Modules:** Modules shall hold a minimum of 24 single-fusion splices per module, six modules per tray, and shall accept mechanical splices and PLC splitters in the same tray on a mix-and-match basis.
- **Splitter and Test Access:** Closure shall accept factory-installed splitter trays in 1x2 through 1x32 ratios and optional SC/APC or SC/UPC bulkhead test ports mounted within the tray, for NAP builds requiring in-closure splitting or test access.
- **Seal and Field Kits:** Dome-to-base seal shall be a captive, field-replaceable O-ring, with field kits offered for wedges, inner base gel, ring clamp, dome, and inner basket.
- **Footprint:** Shall not exceed 32" x 14" at 30 lbs unloaded. Domestic-preference (BABA/BEAD) part numbers shall be available.

Submittals and Material

- **Technical Submittals:** Manufacturer technical data sheets and applicable Telcordia test/qualification documentation for each proposed closure and tray must be submitted with the bid.
- **New Material:** All enclosures and trays must be new, current-production material and free from defects.

4. Basis-of-Design Requirements

GEA's existing enclosures and NAPs are the basis of design. Alternate manufacturers may be considered only when the bidder demonstrates, through manufacturer data submitted with the bid, that the proposed enclosure meets all mandatory requirements and provides mechanical performance acceptable to GEA for the intended installation.

Set	Application	Reference Product	Min. Splice Capacity	Max. Footprint / Weight
Set A	NAP / drop terminal	AFL APEX X1	144 single-fusion	19" x 9" / 10 lbs
Set B	Primary loose-tube splice point	AFL APEX X2	576 single-fusion	25" x 12" / 25 lbs
Set C	288ct and above FDH splicing	AFL APEX X3	864 single-fusion	32" x 14" / 30 lbs

Reference values above identify the basis of design and do not, by themselves, authorize a deviation from the mandatory requirements.

5. Build America, Buy America (BABA) / BEAD Compliance

All equipment furnished for incorporation into the BEAD-funded project must comply with all applicable Build America, Buy America requirements and applicable U.S. Department of Commerce BEAD requirements, unless a valid federal waiver applies.

- Bidder must identify the manufacturer and exact product/part number proposed for each item.
- The successful bidder must provide manufacturer documentation satisfactory to GEA demonstrating BABA compliance before material is accepted for the project.
- GEA may require documentation identifying the product, manufacturing location, quantity, applicable domestic manufacturing requirement, and certification by an authorized manufacturer representative.
- No substitution of an awarded product may be made without prior written approval from GEA and verification of continued BABA compliance.

6. Delivery Requirements

Bidders shall state proposed production lead times, earliest available delivery date, and anticipated delivery schedule. Partial deliveries may be accepted when coordinated with GEA.

Bidders shall state packaging, palletizing, and freight terms. Delivery shall be to the location identified in Section 1 unless otherwise coordinated with GEA.

7. Greene PAU 1-3 Combined Bid Schedule

Item	Est. Qty	Manufacturer	Part No.	Unit Price	Extended Price	Lead Time
NAP style enclosure (Set A)	3000					
Splicing enclosure, 144ct and below (Set B)	200					
Splicing and FDH enclosure, 288ct (Set C)	103					
Trays for NAP style enclosure (Set A)	6000					
Trays for splicing enclosure, 144ct and below (Set B)	1000					
Trays for splicing and FDH enclosure, 288ct (Set C)	420					
Freight / Delivery						
TOTAL BID						

8. Bid Submission Requirements

- Completed bid schedule with unit price for each item offered.
- Manufacturer name and exact product/part number for each enclosure and tray offered.
- Manufacturer technical data sheets and applicable Telcordia test/qualification documentation.
- Written identification of all exceptions or deviations from the bid specifications. If none are stated, the bid will be understood to comply with the specifications.
- Proposed lead times, delivery schedule, freight terms, and delivery costs.
- Completed and signed BABA Certification Letter (Exhibit A), together with supporting manufacturer compliance documentation, or a clear statement of the status and timing of manufacturer certification.
- Bidder contact information and authorized signature.
- Electronic sealed bid submitted as a password-encrypted file. The password shall not be included with the bid and shall be provided only after the bid deadline when requested by GEA.

9. Evaluation and Award

GEA intends to award to the lowest responsive and responsible bidder offering products that meet GEA's specifications, subject to GEA Board approval. GEA reserves the right to reject any or all bids, waive minor informalities when permitted, request clarification, and make an award in the best interest of GEA.

If GEA selects a bid other than the lowest competitive price meeting specifications, the basis for that selection will be documented in accordance with GEA procurement policy.

GEA may award by item, by set, by group of items, or as a total award if the final advertised solicitation and bid schedule expressly provide for that method of award.

10. Procurement and Records

This procurement is subject to GEA purchasing and procurement procedures and applicable BEAD grant requirements. Procurement, bid, evaluation, award, purchase, receiving, BABA, and supporting grant records must be maintained as required by applicable GEA policy and grant requirements.

11. Bidder Certification

By signing below, the bidder certifies that the information submitted is accurate, that the bidder has reviewed the specifications, and that the products offered comply with the requirements except for any deviations expressly identified in the bid.

Company	
Authorized Representative	
Title	
Signature	
Date	

EXHIBIT A

BUILD AMERICA, BUY AMERICA (BABA) CERTIFICATION LETTER

Greeneville Energy Authority

BEAD Fiber Optic Enclosures – CM61-BEAD-TN-0062

The undersigned manufacturer or authorized supplier certifies that the fiber optic enclosure and tray products identified below and proposed for furnishing to Greeneville Energy Authority (GEA) comply with the applicable Build America, Buy America (BABA) requirements for the Broadband Equity, Access, and Deployment (BEAD) Program, including any applicable U.S. Department of Commerce requirements and waivers.

The certifying party further certifies that the information provided in this certification and supporting manufacturer documentation is true and accurate to the best of its knowledge and that GEA may rely upon this certification for BEAD compliance, procurement, receiving, audit, and grant closeout purposes.

Item	Manufacturer	Product / Part No.	Manufacturing Location	BABA Status / Applicable Waiver
NAP style enclosure (Set A)				
Splicing enclosure 144ct and below (Set B)				
Splicing / FDH enclosure 288ct (Set C)				
Splice trays (Set A)				
Splice trays (Set B)				
Splice trays (Set C)				
Other (specify)				

Supporting documentation sufficient to demonstrate compliance shall be attached to this certification. No product substitution may be made after award without prior written approval from GEA and documentation establishing continued BABA compliance.

Company / Manufacturer	
Authorized Representative	
Title	
Signature	
Date	
Email / Phone	