

**Sole Source  
Written Determination - Instructions**

**Agency Identification:** Trident Technical College (TTC)

**Description of the agency need that this procurement fulfills:**

Trident Technical College's Boeing Training Program requires equipment that allows students to accurately evaluate loop resistance and joint resistance in aircraft electrical bonding systems as encountered in current Boeing aircraft platforms. The equipment must accurately evaluate bonding and shield grounding circuits when parallel electrical paths are present and isolate resistance values at individual joints or circuit segments.

The equipment must ensure effective troubleshooting, maintenance efficiency, and assurance of system integrity.

As the TTC Boeing Training Program specifically trains students to work at Boeing, Boeing requires that student training equipment must mirror what is used at the Boeing facility.

**Describe the Market Based on Research Performed:**

TTC's Boeing Project Director contacted Boeing's 787 Senior Manager to identify appropriate loop and joint testing equipment, to ensure that the equipment to be purchased aligns with Boeing's operational requirements. The market is limited to equipment approved by Boeing.

**Sole Source Vendor Name:**

MK Test Systems America, Inc.  
22102 N. Pepper Rd.  
Lake Barrington, IL 60010

Based upon the following determination, Agency proposes to acquire the supplies, construction, information technology, and/or services described herein from the vendor named above per SC Code Ann § 11-35-1560 and SC Regulation 19-445.2105, Sole Source Procurement.

**Description of supplies, construction, information technology, and/or services vendor will provide under the contract:**

3 ExLRT Automated Loop & Joint Tester Kits (P/N XLR-9703-01)

3 XLR-9801-01 Loop Adjustment Cable Kits

Each kit contains the following:

ExLRT Loop and Joint Resistance Tester (XLR-1931-02)  
52mm Loop Measurement Clamp Set (XLR-3001-03-GA)  
Joint Measurement Probe Set (XLR-4001-03-GA)  
Rechargeable Battery (XLR-2600-00)  
External Battery Fast Charger (XLR-2100-00)  
Trickle Charge Power Supply Unit (XLR-2400-00)  
Belt Clip (XLR-8202-01)  
Rugged Transport/Deployment Case (XLR-9003-01)

Equipment will be delivered calibrated with a calibration certificate and include a quick start guide and user manual

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**Explain why the described solution is the only solution that meets the agency's need and how no other identified solutions were sufficient.**

The MK Test Systems ExLRT is the only solution that meets the College's requirement to replicate Boeing-specific maintenance testing procedures for modern aircraft electrical bonding systems.

The ExLRT was developed by this vendor in collaboration with Boeing specifically to overcome known limitations of conventional bond testing equipment. Traditional testers cannot accurately evaluate bonding and grounding circuits when parallel electrical paths are present, a common condition in modern aircraft systems.

Boeing has confirmed that the functionality provided by the ExLRT is not replicated by other commercially available test equipment and that it directly supports Boeing maintenance and safety requirements.

Because the College's training program must mirror Boeing's actual equipment and procedures, the use of alternative testing devices would not provide equivalent training outcomes. No other solution meets the technical, instructional, and compatibility requirements necessary to support the Boeing training program. There are no other authorized distributors of the ExLRT. Therefore, MK Test Systems is the only source capable of filling TTC's need.

Contract Period: One-Time Purchase

Contract Amount: \$290,000

Commodity Code: 845

**Required Signatures:**

Prepared by: Sean McGowan

Date: 05/13/2026

Printed Name: Sean McGowan

Title: Procurement Manager

Approved by: \_\_\_\_\_

Approval Date: \_\_/\_\_/\_\_\_\_

Printed Name: Vicky Wood, Ph.D

Title: President

Or Designee:

Approved by: Signed by:  
Kevin Beck  
BB72D2089365401... \_\_\_\_\_

Approval Date: 5/15/2026 / /

Printed Name: Kevin Beck

Title: Vice President Finance & Business Affairs

Blanket Sole Source  Yes  No

Contract \$50,000 or greater. Drug Free Workplace Act Form Yes  No

