

PERFORMANCE WORK STATEMENT (PWS)

TEST, TEARDOWN, AND EVALUATION (TT&E) AND REPAIR OF PIN
TESTER (PT) SYSTEM / RF M880 AMPLIFIER

Prepared by

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1.0 SCOPE

1.1 Scope of Work:

The Contractor shall perform a comprehensive Test, Teardown, and Evaluation (TT&E) on an inoperable Radio Frequency (RF) M880 amplifier within the Tinker Pin Tester (PT) system to determine its repairability. This amplifier is a critical asset directly required to test the electromagnetic pulse (EMP/EMF) nuclear hardness resistance of Line-Replaceable Units (LRUs) for the B-2 aircraft. The unit became inoperable at the end of 2023 following an audible "popping" event, and previous diagnostic attempts have failed to identify the root cause of the failure.

1.2 Conditional Repair Process:

Under this scope, the Contractor shall perform a diagnostic evaluation (TT&E) of the amplifier and deliver a detailed TT&E Repairability Report and firm-fixed-price repair quote in accordance with CDRL A001 (DI-MISC-80508B) to the Procuring Contracting Officer (PCO) and Government Point of Contact (GPOC).

- If the amplifier is determined to be repairable, contingent on technical feasibility and explicit written authorization from the PCO, the Contractor shall proceed with approved repairs to restore the Pin Tester system to full operational capability.
- If the amplifier is deemed non-repairable, or if repairs are not authorized by the PCO, the Contractor shall halt all work, and the Government will determine the final disposition and return of the Pin Tester system.

2.0 CONTRACTOR REQUIREMENTS & SPECIFIC TASKS

2.1 General Requirements:

The Contractor will furnish all labor, materials, facilities, and specialized packaging necessary to securely pack, transport, evaluate, and (if authorized) repair the complete Pin Tester system. The Contractor will maintain chain of custody from initial pick-up at Tinker AFB, OK, through diagnostic evaluation and repair at the Contractor's facility, until final return delivery to Tinker AFB.

2.2 Specific Tasks:

- **Task 1: On-Site Preparation, Custom Packaging, and System Pickup**
 - **Custom Crate Fabrication:** The Contractor will design, fabricate, and deliver a custom-built shipping crate to Tinker AFB, OK, specifically engineered for the RF M880 amplifier to protect against mechanical shock and electrostatic discharge (ESD). The Pin Wire Tester (PT) main rack and the Adapter Plate cabinets do not require wooden crates and will be prepared for transport using standard commercial protective wrap.
 - **On-Site Technical Assistance:** The Contractor will provide a qualified test engineer to travel to Tinker AFB to assist Government personnel in preparing, disassembling (if required), and packaging the complete PT system.

- **System Consolidation & Pickup:** The Contractor will package, secure, and ship the entire Pin Tester system—including the RF M880 amplifier, the main PT rack, and all associated Adapter Plates and cabinets—from its operational location in Building 3708 at Tinker AFB.
- **Task 2: Commercial Transportation**
 - **Logistics Management:** The Contractor will arrange, secure, and manage all commercial freight and transport logistics to safely transfer the complete Pin Tester system from Tinker AFB, OK, to the Contractor's designated repair facility in San Diego, CA.
 - **Chain of Custody:** The Contractor will maintain custody and transit tracking of all system assets until they are successfully received and inventoried at the San Diego facility.
- **Task 3: Diagnostic Evaluation (TT&E)**
 - **Repairability Assessment:** Upon receipt at the repair facility, the Contractor will perform a comprehensive TT&E on the RF M880 amplifier to diagnose the root cause of failure (specifically evaluating the late 2023 "popping" event) and determine repair feasibility.
 - **Deliverable (TT&E Quote & Repairability Report):** The Contractor will deliver a detailed TT&E Repairability Report and firm-fixed-price repair quote in accordance with CDRL A001 (DI-MISC-80508B / Technical Report – Study/Services) to both the GPOC and the PCO. The report will detail the failure analysis, state whether the unit is repairable, list required parts/modifications, and provide a firm-fixed-price quote with an estimated delivery schedule for the proposed repairs.
- **Task 4: Repair and Performance Verification (Conditional upon PCO Authorization)**
 - **Execution of Repairs:** Only upon receipt of explicit written direction and authorization from the PCO, the Contractor will execute the approved repairs, part replacements, and system calibration.
 - **Performance Verification:** The Contractor will conduct functional testing to verify that the repaired M880 amplifier and consolidated Pin Tester system meet Original Equipment Manufacturer (OEM) baseline performance specifications prior to scheduling return shipment.
 - **Corrective Action:** The Contractor will provide a plan for corrective action in accordance with CDRL A002 (DI-QCIC-80553A / Corrective Action Plan) if the system fails to pass acceptance testing within 72 business hours of repair completion.

2.3 Quality Assurance, Calibration, and Workmanship Warranty:

- **Calibration Traceability:** All test and diagnostic equipment utilized during evaluation, repair, and acceptance testing will be calibrated in accordance with ANSI/NCSL Z540-1 or ISO 17025 with NIST-traceable standards.
- **Workmanship Warranty:** The Contractor will provide a commercial warranty on all parts, labor, and materials associated with authorized repairs for a minimum period of ninety (90) calendar days from the date of final Government acceptance at Tinker AFB.

2.4 Period of Performance / Delivery Timeframes:

- **Task 1 (On-Site Packaging & Pickup):** Completed approximately 6 weeks After Receipt of Order (ARO).
- **Task 2 (Transit to San Diego):** Approximately 1 week transit time.
- **Task 3 (TT&E Report & Quote Delivery):** Delivered within 8 weeks after hardware arrival at the Contractor's San Diego facility (Ref CDRL A001).
- **Task 4 (Repairs & Acceptance):** To Be Determined (TBD) upon formal PCO authorization of repairs.
- **Delivery DODAAC:** F3YCCA

2.5 Administrative & Security Requirements:

- The Contractor will be a U.S. registered company employing U.S. citizens to perform all work-related requirements.
- Government Points of Contact (GPOC):
 - Ryan Mitchell: 405-582-9399
 - Jiby Varughese: 312-852-1811

3.0 GOVERNMENT FURNISHED PROPERTY (GFP)

3.1 Identification of GFP:

The Government will provide the specialized Pin Tester (PT) system and associated items identified below to the Contractor for performance under this contract:

- **System Name:** Pin Tester (PT) / PINS-600 System
- **Part Number (P/N):** PINS-600
- **Serial Number (S/N):** 608
- **OEM CAGE Code:** 29813 (Maxwell Laboratories / IRT Corporation)

- **Stock Number:** Non-NSN
- **System Components:**
 - One (1) RF M880 Amplifier (Non-operational baseline condition)
 - One (1) Pin Tester (PT) Main Rack
 - Associated Adapter Plates and Cabinets
- **Current Operational Location:** Building 3708, Tinker AFB, OK

3.2 Custody and Safeguarding:

The Contractor will be responsible for safeguarding and maintaining custody of all system assets once picked up from Tinker AFB and while placed in their care. The work accomplished during service will be strictly that which is necessary to evaluate and restore the system to a serviceable status. Neither item design nor functional capabilities will be changed, modified, or altered unless authorized in writing by the 555th Software Engineering Squadron (555 SWES) and the PCO.

3.3 Damage Reporting:

If any component of the instrument or system is damaged during performance, handling, or transit under this contract, the Contractor will immediately report the incident in writing in accordance with CDRL A003 (DI-SAFT-81563 / Accident/Incident Report) to the PCO and the 555 SWES Program Office.

3.4 Transportation, Packaging, and Return Standards:

- **Custody Transfer & Shipping:** The Contractor will assume custody at Building 3708, Tinker AFB, OK, transport the equipment to their repair facility in San Diego, CA, and return the equipment to Tinker AFB upon completion, at the Contractor's expense.
- **Packaging Requirements:** Packaging, preservation, and crating will be executed in accordance with Task 1 (commercial protective wrap for the PT main rack/cabinets, and a custom-fabricated protective shipping crate for the RF M880 amplifier).

Shipping Documentation: All shipments to and from Government custody will be documented on DD Form 1149.

4.0 CONFLICTS OF INTEREST

4.1 Organizational Conflicts of Interest:

The Contractor will not assign to contract or task order performance any person, including any employee of the U.S. Government, if employing that person would create a conflict of interest under any law, regulation, or policy of the United States Government.

4.2 Department of the Air Force Personnel:

The Contractor will not assign to contract performance any active employee of the Department

of the Air Force (military, reservist, or civilian) unless such person seeks and receives formal written approval in accordance with DoD Directive 5500.7-R (Joint Ethics Regulation) and any applicable Air Force or Air Force Materiel Command (AFMC) regulations.

5.0 GENERAL INFORMATION

5.1 Inherently Governmental Functions:

- None of the functions to be performed under this requirement are inherently Governmental.
- No part of this PWS, the basic contract, or any task order issued under this contract will be construed to require the Contractor to provide personal services to the Government. The Contractor will comply with this PWS in its entirety.

5.2 Non-Personal Services & Management:

- The Government will neither supervise Contractor employees nor control the method by which the Contractor performs the required tasks.
- Under no circumstances will the Government assign tasks to, or prepare work schedules for, individual Contractor employees.
- It is the responsibility of the Contractor to manage its employees and guard against any actions that constitute or give the perception of personal services. If the Contractor believes any action constitutes personal services, the Contractor will immediately notify the Program Manager (PM), Contracting Officer's Representative (COR), and PCO in writing.
- These services will not be used to perform work of a policy-making, decision-making, or managerial nature. All decisions relative to programs supported by the Contractor will remain the sole responsibility of the Government.

6.0 Deliverables / Contract Data Requirements List (CDRL)

6.1 General Deliverables Information:

The Contractor will prepare and submit all data deliverables specified below in accordance with the specified Data Item Descriptions (DIDs) and delivery schedules. Formal CDRL exhibits (DD Form 1423) are incorporated in Exhibit A of the contract.

6.2 CDRL Summary & Deliverable Matrix:

CDRL#	Data Item Description (DID)	Deliverable Title	PSW Reference	Delivery Frequency	Distribution
A001	DI-MISC-80508B	Technical Report – Study/Services	1.2, 2.2, (Task 3), 2.3	Delivered within 8 weeks after hardware arrival at Contractor facility	PCO, GPOC, PM
A002	DI-QCIC-80553A	Corrective Action Plan	2.2 (Task 4)	Delivered within 72 business hours of any acceptance test failure	PCO, GPOC
A003	DI-SAFT-81563	Accident/Incident Report	3.3	Immediate (within 24 hours of any damage event during transit or repair)	PCO, 555 SWES, PM

6.3 Government Review and Acceptance:

6.3.1 Government Review Period:

The Government (PCO, GPOC, or designated COR) will have fifteen (15) business days following receipt to review each technical deliverable and CDRL submission for completeness, technical accuracy, and compliance with the applicable Data Item Description (DID).

6.3.2 Approval and Notification:

The Government will provide formal written notification to the Contractor indicating deliverable acceptance or rejection. In the event of deliverable rejection, the Government will provide specific written comments detailing necessary corrections or technical deficiencies.

6.3.3 Contractor Resubmission:

If revisions are required, the Contractor will incorporate all Government comments and resubmit the corrected deliverable within ten (10) business days of receiving the rejection notification, at no additional cost to the Government.

7.0 Services Summary / Performance Requirements Summary (PRS)

7.1 Purpose & Framework:

The Services Summary / Performance Requirements Summary (PRS) establishes the critical performance objectives, Acceptable Quality Levels (AQLs), and surveillance methods utilized by the Government to evaluate Contractor performance pursuant to FAR Subpart 37.6 (Performance-Based Acquisition).

The Government will evaluate contractor performance using the metrics in Section 7.2 to determine overall contract compliance, validate deliverable acceptance, and inform Contractor

Performance Assessment Reporting System (CPARS) annual ratings.

7.2 Performance Requirements Summary (PRS) Matrix:

7.2.1 On-Site Preparation, Packaging, and Pickup (PWS Tasks 1 & 2, Section 3.4):

The Contractor will deliver custom-fabricated crating and complete system pickup within approximately six (6) weeks After Receipt of Order (ARO) with zero packaging defects or transit damage. Surveillance will be conducted via 100% Government inspection and DD Form 1149 verification upon pickup at Tinker AFB and receipt at the repair facility.

7.2.2 Diagnostic Evaluation (TT&E) and Reporting (PWS Task 3, CDRL A001):

The Contractor will complete diagnostic teardown and submit a comprehensive TT&E Repairability Report and firm-fixed-price quote within eight (8) weeks of hardware arrival at the repair facility. Performance requires 100% technical thoroughness, root-cause identification, and adherence to DI-MISC-80508B, evaluated through Government technical review by the GPOC, PM, and PCO.

7.2.3 Repair Quality and OEM Baseline Verification (PWS Task 4, Section 2.3):

Upon written PCO authorization, authorized repairs will restore the RF M880 amplifier and Pin Tester system to 100% compliance with OEM baseline performance specifications. If acceptance testing fails, the Contractor must deliver an acceptable corrective action plan (CDRL A002) within 72 business hours. Performance will be verified through 100% functional acceptance testing prior to return shipment.

7.2.4 Government Property Custody and Incident Reporting (PWS Section 3.2, 3.3, CDRL A003):

The Contractor will maintain 100% accountability and continuous chain-of-custody tracking for all Government Furnished Property (GFP). Any damage, loss, or handling incident must be reported in writing to the PCO and PM within 24 hours of occurrence, verified via shipping audit records and physical inventory verification.