DEPARTMENT OF THE AIR FORCE
OGDEN AIR LOGISTICS CENTER (AFLC)
HILL AFB, UTAH 84056-5609

PR NO: FD2020-26-52496 **Date: 23 APR 2026**

ESSENTIAL REMANUFACTURE B-52 Rotary Actuator
Statement of Work (SOW)
Appendix A
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SECTION I
DESCRIPTION OF REMANUFACTURING

1.1 SCOPE:

Work performed shall be accomplished IAW Technical Order (T.O.'s) or Original Equipment Manufacturer (OEM) procedures listed in Section 4.3. In the event a situation develops where instructions conflict, this SOW will take precedence. The work encompasses the disassembly, cleaning, inspection, maintenance, reassembly, testing and finishing actions required to return the Government Furnished Property (GFP) item(s) to serviceable condition. Additional TOs, directives and other publications listed in Section V will be used as guidance to support the remanufacture stipulated in this SOW.

The remanufacture to be performed is not considered to be mission essential during a crisis.

1.2 TERMS EXPLAINED:

1.2.1 *"Acceptance Test":* The functional and operational tests performed on the end-item to ensure that all performance standards are satisfactorily met to restore the end-item to a serviceable condition. The Acceptance Test shall conform to the requirements for acceptance testing as stated in the applicable drawings listed in Section IV. Authorization to use contractor acceptance test procedure(s) (i.e. ATP) shall be obtained through the PCO from the PMS.

1.2.2 *"ACO":* The Administrative Contracting Officer.

1.2.3 *"Calibration":* A comparison between two instruments, one of which is a standard of higher accuracy, to detect and correlate or adjust any variation in the accuracy of the instrument or equipment item being compared or tested. Calibration shall be accomplished using Government approved contractor technical data.

1.2.4 *"PCO":* The Procurement Contracting Officer.

1.2.5 "Diagnose": To ascertain what is causing the end-item to be unserviceable.

1.2.6 "Disassemble": To remove the components that make up the end-item in accordance with disassembly instructions in the technical data specified in Section IV and Government approved contractor technical data.

1.2.7 *"End-Item":* The item furnished to the contractor for maintenance.

1.2.8 *"Essential Remanufacture":* The minimal parts, labor, and processes required to restore an item to a serviceable condition.

1.2.9 *"Government Approved Contractor Technical Data":* Contractor technical data that has been used in the manufacture/production for initial procurement of Government end-items or any subsequent update/modification and can be used for the remanufacture of such items.

1.2.10 *"IAW":* In Accordance With.

1.2.11 *"Inspection":* A thorough examination of an item to determine its identity and condition.

1.2.12 *"Modification (MOD)":* A change in the physical or functional characteristics of a system, equipment or end-item that affects form, fit, or function.

1.2.13 *"N/A":* Not Applicable.

1.2.14 ***"Production Management Specialist (PMS)":*** That individual who develops and prepares the Contract Maintenance Purchase Request (PR) package, and is the program manager for the duration of the contract. PMS, as used in this document, refers to the production manager, office, and phone indicated on the title page of the Appendix A.

1.2.15 ***"Reassemble":*** To reinstall all the serviceable components that make up an end-item in accordance with the assembly instructions.

1.2.16 ***"Remanufactureable":*** An unserviceable item that can have maintenance performed to restore it to a serviceable condition.

1.2.17 ***"Repairable":*** An unserviceable recoverable end-item that may or may not be remanufactureable and refers more to its logistics status.

1.2.18 ***"Serviceable":*** Capable of meeting the requirements and performing the function for which designed or modified and meets all test requirements established by this work specification and the technical data cited in Section IV.

1.2.19 ***"Technical Data":*** All Government and contractor drawings, specifications, standards, Technical Orders (T.O.s), technical manuals, and all other technical publications necessary to restore an item to a serviceable condition.

1.2.20 ***"Update":*** To bring an end-item up to the latest acceptable Government approved configuration without changing its original form, fit or functional capability.

1.2.21 ***"QAR":*** Quality Assurance Report.

SECTION II
REMANUFACTURE DESCRIPTION SUMMARY

2.1 Deliverable Objectives

2.1.1 The contractor shall receive, disassemble, inspect, remanufacture and test the supplied Remanufacture Rotary Actuator (Government Furnished Property – GFP).

2.1.2 The contractor shall ensure, through tests & inspections that the remanufactured items meet or exceed the performance requirements of the original items when the remanufacturing, inspections & testing activities are completed.

2.1.3 LOT ACCEPTANCE TEST (LAT): In the event of an end item failure, the contractor shall notify the PCO/ACO within **1** work day and responsible Air Force Engineering Organization AFLCMC/EBHJ within **1** working days. Email: devin.swanson@us.af.mil

2.2 Deliverable Threshold

2.2.1 100% of the parts and materials used in the remanufacture of the Rotary Actuator shall be equal to or exceed to original requirements of the component.

2.2.2 100% of any desired deviations from the technical data and /or substitute parts or materials, including the reasons for the requested changes, shall be submitted through the PCO, in letterform, or by RFV or ECP as applicable for Government approval prior to use in the end item.

2.2.3 100% of the remanufactured items shall be evaluated and approved by the contractor's quality assurance personnel.

2.2.4 100% of the remanufactured items shall meet the established LAT requirements for the component.

SECTION III
GOVERNMENT FURNISHED PROPERTY (GFP), GOVERNMENT FURNISHED MATERIALS (GFM) AND SERVICES

3.1 The remanufacturing program will be conducted on the B-52 Rotary Actuator MST NSN 1377-00-891-6310ES, P/N 1000-34 to be supplied as GFP. Remanufactureable assets will be shipped to the contractor by the Government Item Manager no later than 60 days after contract award/notification.

3.1.1 GFM: **NOT REQUIRED.**

3.1 Foreign Disclosure & ITAR Restrictions do not apply.

SECTION IV
GENERAL INFORMATION

4.1 GENERAL WORK REQUIREMENT

This item is an explosive-actuated component of the B-52 emergency egress system. Due to the degrading effects of aging on the explosive compounds they need to be remanufactured on a periodic basis.

4.1.1 DATA: The Air Force does not have access to technical drawings and procedures for remanufacturing. The contractor shall use their technical data, remanufacturing procedures, equipment, facilities, and personnel to evaluate, remanufacture, and test the malfunctioning items sent to them by the Government Item Manager.

4.1.1.1 At the completion of the remanufacturing, the contractor shall package and ship the remanufactured items to the location(s) provided by the Government Item Manager.

4.1.2 REPORTING REQUIREMENTS: The contractor shall furnish a Test/Inspection Report.

4.1.2.1 Lot Acceptance in the following system(s): WAWF. **CDRL: (DI-NDTI-80809B)**.

4.1.2.2 In the event of test failure(s), a Failure Analysis and Corrective Action Report with proposed corrective actions/recommendations is required. **CDRL: (DI-SESS-80255B)**. In the event of an end item failure, the contractor shall notify the PCO/ACO and Air Force Engineering Organization within 1 business day.
Air Force Engineering Organization: AFLCMC/EBHJ.
Organization Fax/Email: (801)777-6106/devin.swanson@us.af.mil.

4.1.3 QUALITY – (N/A)

4.1.4 SAFETY/HAZARD CLASSIFICATION

NSN **CARCASSES**	1377-00-891-6310
P/N	1000-34
Hazard Class	1.4
New Explosive Weight	0.0154 LBS
Hazard Class/Div	1.4
Storage Compatibility Group	C
DOT Class Code	1.4
DOT Marking	CARTRIDGES, POWER DEVICE
DOT Label	EXPLOSIVE 1.4C
UN Serial Number	UN0276
UN Proper Shipping Name	CARTRIDGES, POWER DEVICE
DOT Reference Number	EX1988080106

For all assets containing explosive materials or which have a hazard classification and/or storage compatibility group, the following clause applies:

4.1.4.1 DFARS Title 48 Part 252.223-7002, Safety Precautions for Ammunition and Explosives

4.1.4.2 DFARS Title 48 Part 252.223-7003, Change in Place of Performance – Ammunition and Explosives

4.1.4.3 Additionally, if the scope of work includes air shipment of explosives, the saftey specification should require contractor compliance with: - AFMAN 24-604, Preparing Hazardous Materials for Military Air Shipments.

4.1.4.4 The contractor shall provide an advanced Report of Shipment (REPSHIP) to the consignee no later than 24 hours prior to the shipment arrival, and for ammunition shipments no later than two hours after shipment departure. A (REPSHIP) shall include all the following data in accordance with Attached REPSHIP.

4.1.5 ROUTED REMANUFACTURE REPLACEMENT QUANTITIES (RRRQ): These are serviceable recoverable assets determined to be available and in long supply. RRRQ items shall not be remanufactured if available from the Government these items will be included on the rotatable spares attachment to an appendix B if applicable and will be identified by an asterisk. The contractor shall contact the AFLCMC/EBHJ program manager for support of RRRQ items.

4.1.6 ACCESSORY AND COMPONENT REUSE, MAINTENANCE AND REPLACEMENT:
Maintenance, remanufacturing and replacement of accessory and component parts will be IAW specific work requirements listed in Section IV of this work specification, the technical data cited in Section IV, and the appropriate Government-approved contractor technical data.

4.1.6.1 The age of the energetic materials and components (i.e. ALL explosives, propellants, pyrotechnics, cartridges, and/or initiators) used in the manufacture of these items or sub-components shall not exceed 24 months based on the original manufacturing date. All energetic materials and components must be traceable to the original DoD qualified manufacturer and compliant with the ITAR part 120 and 121. (http://www.pmddtc.state.gov/regulations_laws/itar.html).

4.1.6.2 Raw (non-blended) ingredients & materials are used in blended/mixed energetic materials such as, but not limited to: fuels, oxidizers, binders, curatives, sensitizers, plasticizers, stabilizers etc., shall not exceed 24 months since date of manufacture and comply with original manufacture's Specification or MIL-STD. The Government may waive the energetic and constituent material requirements listed above or portions thereof, on a case-by-case basis (when acceptable to the Government) provided the contractor furnishes all details of the reason for the variance and the age, lot numbers, traceability, and other pertinent information/test data and Certificate of Analysis/Conformance (COA/COC) of the subject materials or components. The variance shall be submitted as an RFV and may be subject to, but not limited to, conditions such as sensitivity testing, stabilizer and analysis and/or dehumidification at vendor's cost; therefore, vendor must plan accordingly. RFV not required provided vendor has approved energetic material and constituent management and recertification plan approved by HAFB technical authority for this specific contract and contract is executed with materials in compliance with said plan. Recertification test data for materials shall be provided by vendor upon request at no additional charge to the Government. All raw ingredients, materials and components must be traceable to the original DoD qualified manufacturer and compliant with the ITAR part 120 and 121.

4.1.6.3 Percussion primers shall have been certified/recertified by performing sensitivity (all-fire/no fire) and dud testing per applicable specification within the past 24 months unless they are Navy certified and have a 2-year certification. Primers shall be stored in a temperature and humidity controlled environment and in a sealed container with desiccant from time of primer manufacturing, shipping, storage and through final installation in end item. All primers shall be X-rayed in top and side views for critical defects prior to use.

4.1.7 SPECIAL TOOLS AND SUPPORT EQUIPMENT (ST/SE):
ST/SE necessary to accomplish maintenance and ensure serviceability of the end-item(s) will be identified in the appropriate technical data in Section IV; however, ST/SE will not be furnished by the Government. Necessary ST/SE will be furnished by the contractor. If substitute ST/SE are proposed for use in this effort, authorization must be obtained through the PCO from the program manager.

4.1.8 MARKING INSTRUCTION: See CAD/PAD Item Marking Instructions document.

4.1.8.1 SHELF LIFE: Shelf-Life Code marking is not required per MIL-STD-129R (C3).

4.1.8.2 Contractor is not required to perform Performance Oriented Packaging (POP). If remanufactured assets are packaged in accordance with Special Packaging Instructions (SPI). POP certification can be requested from Government if required.

4.1.9 Diminishing Manufacturing Sources and Material Shortages (DMSMS): Contractor shall provide an Obsolescence Alert Notice that a pending and/or emergent obsolescence issue exists. (**CDRL: DI-MGMT-81941/T).** The contractor shall also provide a DMSMS Health Assessment Report to support the DMSMS management activities as a part of the Department of Defense (DoD) Total Life Cycle Management responsibilities. **(CDRL: DI-MGMT-82273).**

4.2 RECEIPT OF GOVERNMENT FURNISHED PROPERTY AT FACILITY

4.2.1 HANDLING: The contractor shall exercise care to prevent damage to Government Furnished Property/Equipment while in his possession.

4.2.1.1 The contractor shall store all Government Furnished Property in a secure area to provide protection against damage, pilferage, or loss. Storage areas shall provide protection against all adverse environmental conditions.

4.2.1.2 Reusable shipping containers, packaging, and crating material in which the Government Furnished Property is received shall be handled with care. Reusable containers shall be stored for reuse, and configuration of the containers shall not be altered.

4.2.2 INVENTORY INSPECTION: An inspection shall be performed on the end-item GFP & GFM upon its receipt at the contractor's facility for the following:

4.2.2.1 PROPER IDENTITY: An inspection for proper identity, completeness, and obvious damage shall be performed on each item upon its receipt at the contractor's facility.

4.2.2.2 Any deficiencies found as a result of the above inspection shall be reported to AFLCMC/EBHJ Item Manager through AFLCMC/EBHK PCO and disposition will be provided IAW Section 4, Paragraph **Disposition of Excess and Condemned Government Property.**

4.2.3 PRESERVATION:
While the end-items are in the possession of the contractor, they shall be handled and stored in such a manner to preclude damage by handling, weather or foreign matter.

4.3 SPECIFIC WORK REQUIREMENTS:
NOTE: Government approved contractor technical data shall be used to accomplish the specific work requirements in paragraphs 4.3.1 through 4.3.6. Contractor data will be supplemented as applicable by the general technical data cited herein and listed in Section IV.

4.3.1 ELECTROSTATIC DISCHARGE: The vendor shall implement an Electrostatic Discharge Control Program IAW MIL-STD-1686 Electrostatic Discharge Control Program. **(N/A)**

4.3.2 DISASSEMBLY: The contractor shall disassemble each item only to the extent necessary to accomplish inspection, testing, fault isolation and maintenance IAW Vendor Documents, as applicable.

4.3.3 CLEANING: The contractor shall clean the end-items thoroughly prior-to and after disassembly and maintain cleanliness during this maintenance effort IAW MIL-HDBK-454K, T.O. 1-1-691, and Vendor Documents as applicable.

4.3.4 INSPECTION:

4.3.4.1 The contractor shall accomplish a thorough inspection of each end-item, reusable or replacement component parts and materials (external and internal) for the following:

4.3.4.2 End-item for loose or missing parts, materials and attaching hardware.

4.3.4.3 End-item for dents, punctures, bent pins, crack's, wrinkled or misaligned conditions that may cause chafing.

4.3.4.4 Component parts, material, and attaching hardware to determine serviceability, and conformance with the technical data.

4.3.4.5 Structural parts for dents, punctures, cracks, oversized holes, evidence of chafing, and corrosion.

4.3.4.6 The contractor shall accomplish Non-Destructive Inspection (NDI) IAW Vendor's Lot Acceptance Procedures. Any defects shall be confirmed by disassembly to the extent necessary to assure a definite acceptance or rejection of the suspected item or area.

4.3.4.6.1 The remanufacture effort shall include the removal and replacement of all O-rings and other components subject to age related degradation, regardless of location or whether it is part of a separate assembly or sub-assembly of the end item.

4.3.4.6.2 (**Note: Item requiring Gross Leak Check)**
Item must pass both gross and fine checks, MIL-STD-883L, Method 1014.18 may be used as guidance. The existing leak rate limit established for this item(s) will remain the same. The contractor shall generate a Lot Acceptance Test Plan (LATP/ATP), with an analysis or test results showing compliance for Hill AFB engineering approval at least 90 days prior to commencement of Lot Acceptance Testing allowing for 30 days approval time after submission. **CDRL (DI-QCIC-80553A)**

4.3.4.6.3 The contractor is allowed to pre-select no more than 30% of the required production lot test samples per lot which have external cosmetic defects such as nicks, dings, scratches, paint blemishes, plating blemishes, and small burrs. These units can be used as pre-selected production lot test samples as long as the units do not create an interference with the test fixture. The selection of those samples shall be noted in a discrepancy report that shall identify the item part number, DODIC, contract, lot number, serial numbers of the pre-selected units, and the cosmetic defect of each serial number. DCMA shall be notified in advance by submission of the discrepancy report of the preselected production lot test samples with external cosmetic defects prior to submission of the production lot for random sample selection. LAT units preselected under this premise shall be noted in the Lot Acceptance Test Report.

4.3.4.6.4 Any Rework or repair on nonconforming material, beyond approved operation procedures and/or after product has been submitted to the government shall be approved by EBH procurement engineering authority) prior to rework and repair of the nonconforming material. (See Attachment #5, ES7034).

4.3.4.7 The contractor shall accomplish inspections during the remanufacturing process while the GFP/GFM item is accessible for the following:

4.3.4.7.1 Quality remanufacture of replacement parts when accomplished.

4.3.4.7.2 Correct dimensions of remanufacture or replacement parts.

4.3.4.7.3 Correct type and quantity of parts and materials.

4.3.4.7.4 Check for insulation between dissimilar metals.

4.3.4.7.5 Check for unauthorized or unacceptable maintenance/tampering.

4.3.4.8 All engineering Change Proposals (ECP's), Notice of Revisions (NORs), and Request for Variances (RFVs, formerly RFD/RFWs) affecting the approved product baseline configuration, acceptance test procedures, or manufacturing process of any item(s) on this contract shall be in accordance with EIA-649-1A. Major ECP's with NORs and Critical/Major RFV's shall be submitted to the responsible Government Engineering Authority for review/disposition by CCB. Minor/Administrative ECP's with NORs and Minor RFV's shall be processed by the COGNIZANT GOVERNMENT ENGINEER **(DI-SESS-80639E) (DI-SESS-80642E) (DI-SESS-80640E)**.

4.3.4.9 Remanufactured parts shall conform to original drawing acceptance/inspection criteria including dimensions, surface finish and material type. Government Furnished Property (GFP) shall be inspected per the vendor's incoming tear-down and inspection process. In the event that non-conforming material is identified an Interim CPM submission per (CDRL (DI-MGMT-80442/T) will be submitted within **5** days of identifying any discrepancies. This will allow the Government and Contractor Team to evaluate if additional Government Furnished Property (GFP) is to be released, in order to fulfill contractual obligations.
NOTE: If unauthorized or unacceptable maintenance is suspected or verified, notify the AFLCMC/EBHJ Item Manager through AFLCMC/EBHK PCO.

4.3.5 CORROSION CONTROL AND TREATMENT: Accomplish corrosion control and treatment as required, using methods and materials IAW MIL-HDBK-1568, paragraphs 5.4 through 5.9 and T.O. 1-1-691, as applicable.

4.3.6 MAINTENANCE: The contractor shall perform the required maintenance, inspect, reassemble the reworked GFP end-item and components and calibrate, IAW Vendor Document Numbers as stated in paragraph 4.3.1.

4.3.6.1 Updates/Modifications applicable to the GFP end items as outlined in technical orders and other directives listed in Attachment 1 shall be accomplished concurrently with the maintenance required by this work specification, and shall be to the latest approved and supportable configuration.

4.3.6.2 Modifications will be limited to those items with an appropriate modification contract in place to affect the work, or those that do not require modification kits and only the labor for this effort will be funded from the remanufacture contract.

4.3.6.2.1 If Hexanitrostilbene (HNS) explosive materials used in the manufacture of this item, the HNS shall meet the requirements of Government Document WS5003F (or latest revision), Purchase Description of HNS Explosive; and maximum particle size shall not exceed 250 microns.

4.3.6.3 The contractor shall perform an acceptance test and checkout of each completed end-item to assure serviceability prior to presentation to the Government. Test and checkout shall be accomplished using the following methods:

4.3.6.4 Lot Acceptance Test Requirements are: In accordance with latest Government approved ATP/Contractor.

4.3.6.5 Lot size shall not exceed 400 assemblies plus test assets.

4.3.6.6 Ammunition Data Cards shall be filled out; input in accordance with Attachment 2, Statement of Work – Ammunition Data Cards; and stat quantity/serial number of lot acceptance test units in the remarks block. **CDRL (DI-MISC-80043B)**.

4.3.6.7 Critical Safety Item: This item is designated as a Critical Safety Item (CSI). Documentation for critical characteristics may be found in the contract, TDP, assembly/inspection procedures or Quality Assurance Letter of Instruction (QALI). Other characteristics requiring inspection or special oversight from **DCMA:**

SECTION E – PRODUCTION LOT TEST SAMPLES AND CONTRACTOR TESTING
- Test samples are required from each production lot and are to be tested in accordance with the approved test plan. The production lot(s) must be manufactured and presented to the Government Quality Assurance Representative (QAR) with all production documentation. The documentation accompanying the production lot test samples shall contain the contract number, item, lot number identification, DODIC, NSN, and serial numbers. The samples shall be selected, at random, from each production lot, by the Government QAR within 2 workdays for resident QARs, or 7 workdays for non-resident QARs after presentation of the lot.
- Production lot testing shall be witnessed by a representative of the Government engineering activity and/or the cognizant Government QAR and shall be in accordance with the latest Government approved Lot Acceptance Test Procedure.

SECTION E – CAD/PAD INSPECTION AND ACCEPTANCE
- The Contractor shall provide and maintain a quality program acceptable to the Government and modeled on ISO 9001:2015 or an equivalent quality system such as AS9100. This quality system along with program specific production documentation shall be made available for review by the Government's representative upon request, at the Contractor's facility at no cost to the Government.
- Radiographic equipment and procedures shall meet the standards stipulated in the latest revisions of ASTM E1742, ASTM E748, and ASTM E545. Radiographers shall be qualified and certified Level II or Level III in accordance with the requirements described in specification NAS 410.
- Due to the critical nature and safety application of these items, the Contractor and Government QARs are cautioned that it is mandatory to ensure the correct identification and nomenclature are assigned for all items and shipping containers prior to shipment including CAGE codes.

4.3.6.8 Items shall be marked in accordance with CAD/PAD Item Marking Instruction.

4.3.6.9 Disposition of Excess and Condemned Government Property/Government Material: Excess build quantities for attrition (assurance items) that are in serviceable (Condition Code-A*) or excess serviceable (Condition code F*) shall be reported within **10 days of LAT** on the Contractor Possessed Munitions Report (CPM) per **CDRL DI-MGMT-80442/T** Report of Receipts, Inventory, Adjustments and Shipments of Government Property in WAWF. Disposition for excess GFP shall be provided after receipt and acceptance of CPM Report in WAWF. Disposition provided by the Government will include shipping instructions and/or re-assignment to another contract. Disposition will be provided at no increase in contract price since original unit pricing already included these provisional excess units. No-cost CLIN(s) for attrition units will be added to the contract per a modification.

Condemned F condition Government Furnished Property (GFP) carcasses shall be reported on the CPM Report in WAWF, whenever a discrepancy occurs. Disposition for condemned F condition GFP shall be provided after receipt and acceptance of CPM Report in WAWF and an email requesting disposition, with an Inventory Schedule attached has been received by the Item Manager (IM) and Contracting Officer (CO). The contractor shall process in the GFP Module of the Procurement Integrated Enterprise Environment (PIEE) for condemned F condition GFP for disposal as directed by FAR 52.245-1, Government Property, Attachment 1. These items shall be processed within **30** days from date of disposition.

Government Furnished Material (GFM) primers and propellants provided by the Government to support the remanufacturing of the devices that have been identified by the contractor as excess or rejected shall be reported to the Government Item Manager (IM) and the Contracting Officer (CO). These GFM primers and propellants

shall be sent for Government DEMIL re-assignment to another contract or returned to Government inventory at the discretion of the Government and at no increase in contract price. If the GFM primers and propellants are deemed to be sent to DEMIL, the contractor shall process an Inventory Schedule in the GFP Module in the Procurement Integrated Enterprise Environment (PIEE). Disposition for condemned Primers and Propellants shall be provided after an email requesting disposition, with an Inventory Schedule attached has been received by the Item Manager (IM) and Contracting Officer (CO).

***Note: Condition Code-A** = New remanufactured material identified by lot number, top level P/N & applicable NSN which is serviceable and issuable to all customers without limitation or restriction. This includes material with more than six months shelf/service life remaining.
***Note: Condition Code-F** = Economically remanufacture-able material identified by lot number, top level P/N & applicable NSN.

4.3.6.10 Disposition of Residual Materials & Piece Parts: All residual materials (i.e. explosive trains, powders, sub-assemblies, unusable metal parts, functioned explosive components, etc.) associated with GFP in performance of the remanufacturing requirements on this contract are to be dispositioned as contractor property for disposal at contractor's expense, in accordance with all applicable state and federal regulations.

4.3.6.11 Upon satisfactory completion of final test, the contractor shall cover and seal all ports, vents and electrical connection/plugs with suitable caps to prevent entry of foreign matter or damage during handling and shipment, IAW MIL-C-5501.

4.3.7 FINISHING:

4.3.7.1 The contractor shall remanufacture or replace damaged internal protective finish to the extent necessary to ensure serviceability and provide adequate protection during assigned shelf/service life.

4.3.7.2 External finishing of the end-item shall be accomplished only to the extent necessary to provide adequate protection during assigned shelf/service life. Minor scratches are to be touched up or spot painted to provide necessary protection.

4.4 DELIVERABLE DATA REQUIREMENTS: The deliverable data requirements which generate as a result of the work effort accomplished IAW this Work Specification are identified in Attachment 3 to Appendix A.

4.5 GOVERNMENT ACCEPTANCE INSPECTION: All work will be subject to Government acceptance inspection and shall conform to this work specification.

ATTACHMENT 1
TECHNICAL ORDERS (T.O.s) AND OTHER DIRECTIVES

A.1 TECHNICAL DATA REQUIREMENTS: The contractor shall comply with all work requirements IAW applicable Government Approved Remanufacture Procedures. Technical orders listed in para 4.3.2 and 4.3.4 shall be considered as reference or as applicable when needed. The review will consider the impact on work requirements, cost, and schedules with backup data for those changes. Increases or decreases in work, which impact the maintenance facility or the Government, will be sent through the ACO to the PCO for negotiation and approval, prior to beginning work.

A1.2 APPLICABLE TECHNICAL ORDERS:

A1.3 GENERAL (For information only, as applicable):

T.O. 1-1-691	Cleaning and Corrosion Control

A1.4 SPECIFIC (Compliance T.O.s):

CAD/PAD Item Marking Instructions

A1.5 APPLICABLE DIRECTIVES: (for information only):

MILl-STD-1568	Material Processes for Corrosion Prevention and Control of Aerospace Systems
MIL-STD-1168	AMMUNITION DATA CARDS
WARP USER MANUAL	ADC
MIL-C-5501	Cap and Plug, Protective, Dust and Moisture Seal
MIL-STD-129R	Military Markings for Shipment and Storage

A1.6 APPLICABLE TIME COMPLIANCE TECHNICAL ORDERS: N/A

A1.7 APPLICABLE CONTRACTOR TECHNICAL DATA:

Latest Government Approved ATP
Vendor's Applicable Rework Procedure

NOTE: Technical orders/manuals, technical directives and other applicable publications required to accomplish the work effort, but not in possession of the contractor, shall be acquired as authorized and directed by the ACO.

NOTE: Primary source for military specifications and standards is:

Department of the Navy
Standardization Document Order Desk
Building No. 4
700 Robbins Ave.
Philadelphia, PA 19111-5094
DSN 94-442-2179/2667

ATTACHMENT 2
USAF & USN CAD/PAD STATEMENT OF WORK - AMMUNITION DATA CARDS

January, 2018

1. Ammunition Data Cards (ADC) shall be prepared in accordance with MIL-STD-1168 (current revision) and shall follow the format required by the application identified as Worldwide Ammunition-data Repository Program (WARP). All of the requirements of MIL-STD-1168 apply but some are tailored in accordance with MIL-STD-962 to meet CAD/PAD program requirements as listed below.

2. The criteria and procedures for the assignment of lot numbers for energetic materials (pyrotechnics, propellants, explosives) including their constituents shall be in accordance with MIL-STD-1168.

3. All energetic materials (pyrotechnics, propellants, explosives) used in assemblies and sub-assemblies/components (i.e., igniter cartridges, delay elements, primer assemblies, explosive cord, etc.) shall be entered in the ADC using the common name, actual/original manufacturer's part number & revision, lot number, and date of manufacture. Traceability shall be ensured by the original manufacturer's documentation such as Certificate of Conformance (COC), Certificate of Analysis (COA), Quality Assurance Record (QAR) Quality Inspection Record (QIR), Quality Assurance Documents (QAD), Batch Record, or other equivalent documentation that would provide positive traceability in the event of a future product recall.

4. The contractor may list their own internal part number for energetic material that they re-designate or re-characterize but must also list the actual manufacturer's part number, lot number, and date of manufacture in parentheses in a format that is searchable in WARP. Any GFM/GFP provided under contract to the vendor should retain government provided part/lot numbers and nomenclature to retain traceability. Ingredients which are used to synthesize or that are blended in a process to make the end item energetic material are not required to be listed. Examples of blended or synthesized energetic materials that shall be listed are HNS, Lead Azide, BKNO3, ZPP, HES 8028, etc. If the ages of energetic materials are older than the ages specified on the Airmunitions Specification or as specified elsewhere in the contract at the time the CAD/PAD devices become hermetically sealed, the date of energetic material recertification or any associated approved Request for Variance (RFV) shall be notated in the waivers and deviation description section.

5. Hardware components shall be fully traceable and identified by the original manufacturer's lot identification information/documentation or qualified distributor's documentation such as Certificate of Conformance (COC), Certificate of Analysis (COA), Quality Assurance Record (QAR), Batch Record, or other equivalent documentation that would provide positive traceability in the event of a future product recall. The actual date of manufacture is not required for any non-age degradable materials such as metal housings, tubes, sleeves, firing pins, nuts, bolts, washers, etc. The COC, COA, QAR, or Batch Record date(s) may be used for the DOM. Epoxies, sealants, curative, O-rings, and other organic materials shall be fully traceable to OEM with DOM and traceable via the original manufacturer's lot identification documentation such as Certificate of Conformance (COC), Certificate of Analysis (COA), Quality Assurance Record (QAR) Batch Record, or other equivalent documentation that would provide positive traceability in the event of a future product recall. Materials or components that do not affect the reliability or safety of the end item (i.e., solvents, paints, lacquers, labels, dust caps, etc.) do not need to be listed on the ADC.

6. The ADC data and information entered in WARP for all materials and components ideally shall stand alone for traceability to the actual manufacture's information (i.e. Mfg P/N, Mfg date (as applicable), Mfg lot number etc.). If contractor uses their own P/N, reference date for acceptance or other "trace"/traceability identification used internally for the non-critical piece parts/materials, it shall be noted in the remarks section, i.e. "trace ID, or PO used for the following piece parts: (parts shall identified/listed)", provided the field/entry method is searchable in WARP. If traceability documentation is "questionable" or in conflict and needs clarification, the applicable engineer or equipment specialist shall be contacted to resolve any issues.

7. A "sample" ADC is generated in WARP the first time an ADC is submitted by the contractor for applicable government reviews and approvals. Upon approval of the sample ADC, a final version for each production lot shall be completed in WARP and uploaded for Invoicing, Receipt, Acceptance, and Property Transfer (iRAPT - formerly WAWF) for review and acceptance prior to shipment of product by the applicable government authority. The WARP ADC program will not allow the submission of additional ADCs until such time as the sample ADC has been approved in the system. The sample ADC does not require the use of a "Z" interfix number used to identify it as a sample.

8. If any unique situations exist that may conflict with compliance, a resolution should be proposed by the contractor prior to contract award to determine possible work-around.

9. A hard copy of the applicable ADC(s) shall also be included with each shipment per applicable ADC CDRL.

WARP will reside within the Munitions History Program (MHP). Additional details on these WARP applications are provided below.

MHP-WARP Access Procedures

- Government or Contractor employee with CAC and AKO account:

(a) Click on the MHP hyperlink which is https://mhp.redstone.army.mil/
(b) Enter CAC PIN when prompted
(c) Click on WARP (ADC)
(d) Click on Help
(e) Click on WARP Request Access and follow instructions

- Contractor or Government employee without CAC and AKO account: MHP-WARP uses PKI authentication requiring a DoD approved digital certificate as a security measure to protect the integrity of stored data. There are three vendors that have been approved to issue DoD approved certificates per an External Certification Authority (ECA) program. You are required to use one of the approved vendors listed on the following DISA website: http://iase.disa.mil/pki/eca/index.html
A nominal fee is charged for each certificate. The Contractor, including any subcontractors, shall assume the responsibility for all costs of obtaining each digital certificate needed.

- After the required certificate is obtained:

(a) Click on the MHP-WARP hyperlink: https://mhpwarp.redstone.army.mil/
(b) Enter ECA password
(c) Click on Help and follow the instructions for obtaining the necessary access

- HELP Numbers are as follows:

MHP Access – (256)313-2143; DSN 897-2143
JMC Quality Administrators for WARP issues – (309)782-2697 or (309)782-7107

- Worldwide Ammunition-data Repository Program (WARP)

An online user's manual will provide additional help and criteria in the development of an ammunition data card. It is recommended that you download and read the user's manual prior to creating and filling out your initial ammo data card. The user's manual also contains screen shots, which depict what the data entry person will see during the ADC input process.

- Ammunition Data Card Input

ADC input allows current contractors and government facilities the capability to create, and submit for approval, both sample ADCs and production lot ADCs which meet the format requirements of MIL-STD-1168 and as specified in this SOW for ADCs. ADCs are automatically forwarded to the respective Government Agency Responsible for Acceptance (GARA). The GARA in most cases is the Defense Contract Management Agency (DCMA) Quality Assurance Representative (QAR), who reviews contractor input for accuracy and completeness, and after updating the disposition code for the specific lot, submits the ADC to the database. The contractor's data entry person is granted access only to ADCs identified with its specific manufacturing code, as identified in MIL-HDBK-1461, Manufacturer's Symbols. The use of previously inputted ADCs through the TEMPLATE option significantly reduces input effort, while increasing accuracy and consistency of data.

- Email Notification

WARP provides immediate, automated notification to process participants when actions are required. When the producer has completed an ADC submission, an email message is routed to the GARA advising that an ADC awaits review and approval. If the GARA approves the ADC as submitted, the ADC is released to the WARP database and an email, with approved data card, is routed back to the originator. If the ADC requires modification or correction to conform with MIL-STD-1168 and/or the approved format and technical content as approved by the government, an email is provided to the ADC originator advising that corrective action is required prior to approval.

- Information Updates

It is important that the System Administrators are apprised when a producer receives a new contract. The producer shall notify usarmy.RIA.jmc.mbx.warp@mail.mil within 30 days after receipt of a new contract. Information to be included shall be the contract number, item, GARA, Manufacturer's identification symbol and the names of the individuals who will be inputting ADCs into the system. If you are a new producer and do not have a Manufacturer's identification symbol, you can obtain one by sending an email to usarmy.RIA.jmc.mbx.warp@mail.mil. The email must contain manufacturer's name, address where performance of the contract will take place, and a point of contact.

(End of ADC statement of work)

ATTACHMENT 3
DELIVERABLE DATA REQUIREMENTS

1. Ammunition Data Cards (ADC) shall be filled out, input in accordance with Attachment 2, Statement of Work – Ammunition Data Cards, and state quantity/serial number of the lot acceptance test units in the remarks block **(DI-MISC-80043B)**.

2. The Contractor shall furnish a Lot Acceptance Test/Inspection Report in the following system: WAWF **CDRL (DI-NDTI-80809B).**

3. Item(s) must pass both gross and fine leak checks. MIL-STD-883L, Method 1014.18 may be used as guidance. The existing leak rate limit established for this item(s) will remain the same. Contractor shall generate a Lot Acceptance Test Plan (LATP/ATP) with an analysis or test results showing compliance for Hill AFB engineering approval at least 90 days prior to commencement of Lot Acceptance Testing allowing for 30 days approval time after submission. **CDRL (DI-QCIC-80553A)**

4. In the event of test failure(s), a Failure Summary and Analysis Report with proposed corrective actions/recommendations is required. **CDRL (DI-SESS-80255B)**.

5. Report of Receipts, Inventory, Adjustments and Shipments of Government Property, Contractor Possessed Munitions Report (CPM). **(DI-MGMT-80442/T)**

6. The contractor shall provide an Engineering Change Proposal (ECP) for any configuration changes. **(DI-SESS-80639E)**

7. The contractor shall notify the government of any documentation changes via a Notice of Revision (NOR). **(DI-SESS-80642E)**

8. The contractor shall submit a Request for Variance (RFV) for any anticipated deviation of requirement. **(DI-SESS-80640E)**

9. Contractor shall provide an Obsolescence Alert Notice that a pending and/or emergent obsolescence issue exists. **CDRL (DI-MGMT-81941/T)**

10. The contractor shall provide a Diminishing Manufacturing Sources and Material Shortages (DMSMS) health Assessment Report to support DMSMS management activities as part of the Department of Defense (DOD) Total System Life Cycle Management responsibilities. **CDRL (DI-MGMT-82273)**