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

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ESSENTIAL REMANUFACTURE OF THE B-1 Mode Selector, AND Gates, Type I, II, and III, Cabin Decompression Sensor, and F-15 Internal Canopy Jettison Initiator

Statement of Work (SOW)
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SECTION I
DESCRIPTION OF REMANUFACTURING

1.1 SCOPE:

Work performed shall be accomplished IAW Technical Orders (TOs) 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.

Should the Government decide not to proceed with the extensive remanufacture, the items shall be handled IAW Para 4.1.5 entitled "Condemnation and Remanufacture." Pending final resolution of an extensive remanufacture situation as described above, the contractor shall not be considered delinquent or in default of contract.

The remanufacture to be performed are 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 IAW 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 IAW 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 (TOs), 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 Mode Selectors, Type I, II, and III AND Gates, Cabin Decompression Sensors, and Canopy Jettison Initiators (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 within **1** workday and responsible Air Force Engineering Organization AFLCMC/EBHJ within **1** working days. For B-1 Mode Selectors, AND Gates and Cabin Decompression Sensor, Email: zachary.kelly.8@us.af.mil, for F-15 Canopy Jettison Initiator, Email: quinn.tidwell@us.af.mil.

2.2 Deliverable Threshold

2.2.1 100% of the parts and materials used in the remanufacture of the Mode Selectors, AND Gates, Cabin Decompression Sensors, and Canopy Jettison Initiators 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 Mode Selector (B-1) NSN: 1377012374417ES, P/N 6039100, AND Gate, Type I (B-1), NSN 1377012715483ES, P/N 6038100-07, AND Gate, Type II (B-1), NSN 1377012715484ES, P/N 6038100-08, AND Gate, Type III (B-1), NSN 1377012715485ES, P/N 6038100-09, Cabin Decompression Sensor (B-1), NSN 1377014551511, P/N 6129100, and Initiator, Internal Canopy Jettison (F-15), NSN 1377011664266ES, P/N 6036300, parts to be supplied as GFP. Remanufactureable assets will be shipped to the contractor by the Government Item Manager no later than **90** days after contract award/notification.

3.1.1 GFM: PVU-2/A Primers, NSN 1377011163197 will be required for production of the B-1 AND Gates, Type I, II, and III. GFM shall be inspected by contractor to ensure suitability, reliability and quality requirements will be met in performance of the remanufacturing contract.

3.2 Foreign Disclosure & ITAR Restrictions do not apply.

SECTION IV
GENERAL INFORMATION

4.1 GENERAL WORK REQUIREMENT

These are explosive-actuated components of the B-1 and F-15 Aircraft 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 his 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 A001, DI-NDTI-80809B, Test/Inspection Report.**

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 A002, DI-SESS-80255B, Failure Summary & Analysis Report**. 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)777-9484/ For B-1 Mode Selector, AND Gates and Cabin Decompression Sensor, Email: zachary.kelly.8@us.af.mil, for F-15 Canopy Jettison Initiator, Email: quinn.tidwell@us.af.mil**.**

4.1.3 QUALITY – Higher level contract quality requirements apply (The contractor/Vendor shall have quality system certified to ISO 9001:2015).

4.1.4 SAFETY/HAZARD CLASSIFICATION

NSN	1377012715483
P/N	6038100-04
New Explosive Weight	0.0006 LBS
Hazard Class/Div	1.4
Compatibility Group	S
DOT Marking	RELEASE DEVICES, EXPLOSIVE
DOT Label	EXPLOSIVE 1.4
UN Number	0173
Proper Shipping Name	RELEASE DEVICES, EXPLOSIVE
DOT Reference Number	EX1989120074

NSN	1377012715484
P/N	6038100-05
New Explosive Weight	0.0006 LBS
Hazard Class/Div	1.4
Compatibility Group	S
DOT Marking	RELEASE DEVICES, EXPLOSIVE
DOT Label	EXPLOSIVE 1.4
UN Number	0173
Proper Shipping Name	RELEASE DEVICES, EXPLOSIVE
DOT Reference Number	EX1989120075

NSN	1377012715485
P/N	6038100-06
New Explosive Weight	0.0006 LBS
Hazard Class/Div	1.4
Compatibility Group	S
DOT Marking	RELEASE DEVICES, EXPLOSIVE
DOT Label	EXPLOSIVE 1.4
UN Number	0173
Proper Shipping Name	RELEASE DEVICES, EXPLOSIVE
DOT Reference Number	EX1989120076

NSN	1377014551511
P/N	6129100
New Explosive Weight	0.0005 LBS
Hazard Class/Div	1.4
Compatibility Group	C
DOT Marking	CARTRIDGES, POWER DEVICE
DOT Label	EXPLOSIVE 1.4
UN Number	0276
Proper Shipping Name	CARTRIDGES, POWER DEVICE
DOT Reference Number	EX1988080374A

NSN	1377011664266
P/N	6036300
Net Explosive Weight	0.00051 LBS
Hazard Class/Div	1.4
Compatibility Group	C
DOT Marking	CARTRIDGES, POWER DEVICE
DOT Label	EXPLOSIVE 1.4
UN Number	0276
Proper Shipping Name	CARTRIDGES, POWER DEVICE
DOT Reference Number	EX1988080376

NSN	1377012374417
P/N	6039100
Net Explosive Weight	.00154LBS
Hazard Class/Div	1.4
Compatibility Group	S
DOT Marking	RELEASE DEVICES, EXPLOSIVE
DOT Label	EXPLOSIVE 1.4
UN Number	0173
Proper Shipping Name	MODE SELECTOR
DOT Reference Number	EX1989120087

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 24-204(I)**, Preparing Hazardous Materials for Military Air Shipments.

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: Is not required per MIL-STD-129.

4.1.8.2 Contractor is not required to perform Performance Oriented Packaging (POP). If remanufactured assets are packaged IAW 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 A003, DI-MGMT-81941/T, Obsolescence Alert Notice.** 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 A004, DI-MGMT-82273, Diminishing Manufacturing Sources and Material Shortages (DMSMS) Health Assessment Report).**

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 their 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 (IM) and AFLCMC/EBHK Contracting Officer (CO). 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, TO 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 The contractor shall provide the Lot Acceptance Test Plan (LATP/ATO) for this item(s) IAW the contractual data requirements. No changes to previously approved Government Acceptance Test Plans shall be made without prior Governmental approval. The Lot Acceptance Test Plan provided must be approved by HAFB engineering at least 90 days prior to commencement of Lot Acceptance Testing allowing for 30 days approval time after submission. (**CDRL A005, DI-QCIC-80553A, Lot Acceptance Test Plan)**

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) Requests for Variance/Waiver (RFV) affecting the approved product baseline configuration, acceptance test procedures, or manufacturing process of any time(s) on this contract shall be IAW EIA-649C. Class I ECP's and Major/Critical RFV's shall be submitted to the responsible Government Engineering Authority for review/disposition by CCB. Class II ECP's and Minor RFV's shall be processed by the **COGNIZANT GOVERNMENT ENGINEER (CDRL A006, DI-SESS-80639E, Engineering Change Proposal (ECP)) (CDRL A007, DI-SESS-80642E, Notice of Revision (NOR)) (CDRL A008, DI-SESS-80640E, Request for Variance (RFV))**. The government cannot provide Document EIA-649C, however it may be obtained through SAE: Tel: 877-606-7323 (Inside USA and Canada). Tel: +1 724-776-4970 (Outside USA) Fax: 724-776-0790, Email: customerService@sae.org or http://www.sae.org

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 A009, DI-MGMT-80442/T, Report of Receipts, Inventory, Adjustments and Shipments of Government Property,** in WAWF will be submitted within **5** days of identifying any discrepancies. This will allow for 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 AFLCMC/EBHJ IM.

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 TO 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 Electronic Systems to encompass system, subsystem, pieces parts and assemblies shall not contain any Tin-Lead solder substitutes and finished (Ref GEIA-STD-0005-1 & -2). The use of the Tin-Lead solder substitute requires approval through PCO by AFLCMC/EBHJ, REFERENCE "Airworthiness Advisory (AA-0802) Lead-Free Electronics.

4.3.6.2.2 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.

4.3.6.2.3 DFARS 252.225-7009 Restriction on Acquisition of Certain Articles Containing Specialty Metals applies.

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: IAW latest Government approved ATP.

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

4.3.6.6 Ammunition lot numbering shall be accomplished. Reference MIL-STD-1168 for guidance.

4.3.6.7 Ammunition Data Cards shall be filled out; input IAW Attachment 2, Statement of Work – Ammunition Data Cards; and state quantity/serial number of lot acceptance test units in the remarks block. **(CDRL A010, DI-MISC-80043B, Ammunition Data Card (ADC))**.

4.3.6.8 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).

4.3.6.9 Items shall be marked IAW CAD/PAD Item Marking Instruction.

4.3.6.10 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 A009, 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 IM and CO. The contractor shall process in the GFP Module in 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 IM and the 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 IM and 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.

4.3.6.11 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, IAW all applicable state and federal regulations.

4.3.6.12 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 (TOs) 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):

TO 00-5-1	AF Technical Order System
TO 00-5-2	AF Technical Order Distribution System
TO 1-1-691	Cleaning and Corrosion Control
TO 33B-1-1	Non-Destructive Inspection (NDI) Methods

A1.4 SPECIFIC (Compliance TOs):

CAD/PAD Item Marking Instructions

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

MIL-STD-883K	Gross & Fine Leak Checks
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 IAW 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 IAW 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 IAW 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 statement of work)

ATTACHMENT 3
DELIVERABLE DATA REQUIREMENTS

1. The Contractor shall furnish a Lot Acceptance Test/Inspection Report for contractor test in WAWF. CDRL A001, DI-NDTI-80809B, Test/Inspection Report, para 4.1.2.1.

2. In the event of a test failure, a Failure Summary and Analysis Report with proposed corrective actions/recommendations is required. CDRL A002, DI-SESS-80255B, Failure Summary & Analysis Report, para 4.1.2.2.

3. The contractor shall provide an Obsolescence Alert Notice that a pending and/or emergent obsolescence issue exists. CDRL A003, DI-MGMT-81941/T, Obsolescence Alert Notice, para 4.1.9.

4. The contractor shall provide a Diminishing Manufacturing Sources and Material Shortages (DMSMS) Health Assessment Report to support DMSMS management activities as a part of the Department of Defense (DoD) Total System Life Cycle Management responsibilities. CDRL A004, DI-MGMT-82273, Diminishing Manufacturing Sources and Material Shortages (DMSMS) Health Assessment Report, para 4.1.9.

5. The contractor shall provide the Lot Acceptance Test Plan (LATP/ATP) for this item(s) IAW the contractual data requirements. No changes to previously approved Government Acceptance Test Plans shall be made without prior Governmental approval. The Lot Acceptance Test Plan provided must be approved by HAFB engineering at least 90 days prior to commencement of Lot Acceptance Testing allowing for 30 days approval time after submission. CDRL A005, DI-QCIC-80553A, Lot Acceptance Test Plan, para 4.3.4.6.2.

6. The contractor shall provide an Engineering Change Proposal (ECP) for any configuration changes. CDRL A006, DI-SESS-80639E, Engineering Change Proposal (ECP), para 4.3.4.8.

7. The contractor shall notify the government of any documentation changes via a Notice of Revision (NOR). CDRL A007, DI-SESS-80642E, Notice of Revision (NOR), para 4.3.4.8.

8. The contractor shall submit a Request for Variance (RFV) for any anticipated deviation of requirement. CDRL A008, DI-SESS-80640E, Request for Variance (RFV), para 4.3.4.8.

9. The Contractor shall provide Report of Receipts, Inventory, Adjustments and Shipments of Government Property, Contractor Possessed Munitions (CPM) Report and all GFM and End Item Transactions IAW CDRL A009, DI-MGMT-80442/T, Report of Receipts, Inventory, Adjustments and Shipments of Government Property, paras 4.3.4.9 & 4.3.6.10.

10. Ammunition Data Cards (ADC) shall be filled out, input IAW Attachment 2, Statement of Work – Ammunition Data Cards, and state quantity/serial number of the lot acceptance test units in the remarks block. One hard copy of the ADC shall accompany shipments to each shipping location. CDRL A010, DI-MISC-80043B, Ammunition Data Card (ADC), para 4.3.6.7.