

DEPARTMENT OF THE AIR FORCE  
Ogden Air Logistics Center (OO-ALC) AFMC  
Hill AFB, UT 84056-5609

## PERFORMANCE WORK STATEMENT (PWS)

**PURCHASE REQUEST NO. FD20202200822**

**ESSENTIAL REPAIR FOR:**

B1-B SERVOVALVE, HYDRAULIC NSN: 1620-01-148-8009, PN: 48230-2  
June 15, 2022

<b>1.0 SCOPE.</b>	<b>4</b>
1.1 Work Compliance.	4
1.2 Maintenance.	4
1.3 Special Testing.	4
1.4 Function.	4
1.5 Rework Testing.	4
1.6 Modification and Reliability.	4
1.7 Survivability.	4
1.8 Non-Essential Service.	5
<b>2.0 DEFINITIONS AND ACRONYMS.</b>	<b>5</b>
<b>3.0 REPORTING AND DATA REQUIREMENTS.</b>	<b>8</b>
3.1 Commercial Asset Visibility Air Force (CAV AF) End Item Report.	8
3.2 Contract Depot Maintenance (CDM) Production Report.	8
3.3 Annual Government Property Physical Inventory Report.	8
3.4 Teardown Deficiency Report.	8
3.5 IUID Marking Activity and Verification Report.	9
3.6 AFTO Form 95.	9
3.7 Quality Deficiency Reporting.	9
3.8 Program Status Report.	9
3.9 Request for Deviation (RFD).	9
3.10 Engineering Change Proposal (ECP).	9
<b>4.0 SECURITY AND FOREIGN DISCLOSURE.</b>	<b>9</b>
4.1 Per Export Control Limitations.	9
4.2 Uses and Safeguarding of Information.	9
<b>5.0 GOVERNMENT PROPERTY.</b>	<b>9</b>
5.1 Government Furnished Property.	10
<b>6.0 CONTRACTOR PROPERTY.</b>	<b>10</b>
<b>7.0 ITEM UNIQUE IDENTIFICATION (IUID) MARKING</b>	<b>10</b>
<b>8.0 GENERAL WORK REQUIREMENTS.</b>	<b>100</b>
8.1 Mission Capability (MICAPs).	100
8.2 Technical Data.	100
8.3 Cleaning, Corrosion Control and Treatment.	100
8.4 Quality.	111
8.5 Receiving Inspection.	111
8.6 Handling.	111
8.7 Special Packaging Instructions.	11
8.8 Shipping.	101

<b>8.9 Non-Destructive Inspection (NDI).</b>	<b>111</b>
<b>8.10 Warranty of Work.</b>	<b>122</b>
<b>8.11 Beyond Economical Repair (BER) and Condemnation</b>	<b>122</b>
<b>8.12 Mis-Identified Material.</b>	<b>122</b>
<b>8.13 Product Quality Discrepancy Report (PQDR).</b>	<b>122</b>
<b>8.14 Safety and Health.</b>	<b>13</b>
<b>8.15 Process Regulations.</b>	<b>13</b>
<b>9.0 SPECIFIC WORK REQUIREMENTS.</b>	<b>13</b>
<b>9.1 Inspection.</b>	<b>13</b>
<b>9.2 Disassembly.</b>	<b>13</b>
<b>9.3 Repair.</b>	<b>14</b>
<b>9.4 Matched Sets.</b>	<b>14</b>
<b>9.5 Spares and Repair Parts.</b>	<b>14</b>
<b>9.6 Component Parts.</b>	<b>14</b>
<b>9.7 Flow Days.</b>	<b>14</b>
<b>9.8 Update.</b>	<b>14</b>
<b>9.9 Request for Deviation (RFD).</b>	<b>104</b>
<b>9.10 Engineering Change Proposals (ECPs).</b>	<b>15</b>
<b>9.11 Government Initiated TO Change.</b>	<b>105</b>
<b>9.12 Over and Above (O&amp;A).</b>	<b>15</b>
<b>9.13 Marking.</b>	<b>16</b>
<b>9.14 Acceptance Testing.</b>	<b>16</b>
<b>9.15 Receipt &amp; Shipment.</b>	<b>16</b>
<b>10.0SERVICE SUMMARY.</b>	<b>17</b>
<b>10.1 WAWF/Material Inspection and Receiving Reports</b>	<b>17</b>
<b>10.2 Product Quality Discrepancy Report (PQDR)</b>	<b>17</b>
<b>10.3 CAV AF.</b>	<b>17</b>
<b>10.4 Additional Services.</b>	<b>18</b>
<b>11.0TECHNICAL ORDERS AND DIRECTIVES.</b>	<b>18</b>
<b>11.1 Technical Data Requirements</b>	<b>18</b>
<b>11.2 Time Compliance Technical Orders (TCTO)</b>	<b>18</b>
<b>11.3 TO Account.</b>	<b>18</b>
<b>11.4 Technical Order Distribution Offices (TODO) Account</b>	<b>18</b>
<b>11.5 Enhanced Technical Information Management System (ETIMS)</b>	<b>18</b>
<b>11.6 TODO Actions</b>	<b>19</b>
<b>11.7 Drawings</b>	<b>19</b>
<b>11.8 Applicable Government Documents.</b>	<b>19</b>

## **1.0 SCOPE.**

This Performance Work Statement (PWS) establishes the minimum work requirements for essential repair of the B1-B 1620011488009 - SERVOVALVE, HYDRAULIC, to a serviceable "A" condition. The repair processes used by the Contractor shall bring service life back to the reconditioned end items that would resemble the originally manufactured item. The end items shall be restored to a nearly new condition, but not necessarily cosmetically new in a facility owned and/or operated by the Contractor or Subcontractor.

### **1.1 Work Compliance.**

All work performed by the Contractor shall comply, In-Accordance-With (IAW), the Instructions and Technical Data requirements contained in this PWS and Section 11. Any end items deemed to be outside technical specifications identified in the latest applicable Technical Order will be handled under over-and-above (O&A) work procedures IAW [DFARS 252.217-7028]. All O&A work requests must be authorized by the PCO prior to accomplishment. The US Government shall not be held liable for reimbursement for any unauthorized work tasks.

### **1.2 Maintenance.**

It is the intent of the Government under this contract that the Contractor will induct funded end item(s) (for the purpose of this contract, end item is defined as the NSN listed under each Contract Line Item Number (CLIN), and repair of that end item and subcomponents. Items are to be repaired to a serviceable operating condition. Increases or decreases in work, which impact the maintenance facility or the Government, will be sent through the ACO/CO for negotiation and approval, prior to beginning work.

### **1.3 Special Testing.**

The Contractor shall not design, develop or manufacture tooling or test equipment of a specialized nature as a requirement under this work specification without the express direction of the CO through the ACO.

### **1.4 Function.**

The functional capabilities for which the end item was designed shall not be changed, modified, or altered without approval from a government engineer via the Engineering Change Proposal (ECP) process.

### **1.5 Rework Testing.**

Upon receipt of end item returns the Quality Assurance Representative (QAR) and contractor shall undertake the Product Quality Deficiency Reporting (PQDR) investigation to determine the cause of the defect. The investigation report will be forwarded to Hill engineer for review and concurrence (IAW CDRL A006). The data contained within the report should be based upon objective evidence that unsatisfactory material was utilized. The final report will be provided to the ACO, PCO, PM. Based on the findings the normal over and above work request procedures will apply for incurred costs.

### **1.6 Modification and Reliability.**

The Contractor shall expend no effort under this PWS for additional engineering design or development of the items or components; however, suggested reliability or maintainability improvements are welcomed.

### **1.7 Survivability.**

The Contractor will return the recoverable end items to the original specifications of the item, except as noted in the applicable engineering change orders. The Contractor shall perform an acceptance test and checkout of each completed end item to assure serviceability prior to presentation to the Government.

**1.8 Non-Essential Service.**

This effort is considered a Non-Mission Essential Service. According to Department of Defense Instruction (DODI) 3020.37, it is determined that the Contractor will not be required to provide services during crisis unless otherwise directed by an authorized Government representative. The Contractor will contact the CO for instructions concerning services if a crisis situation occurs.

**2.0 DEFINITIONS AND ACRONYMS.**

ACRONYM OR PHRASE	DEFINITION
ADR	Accelerated Delivery Request – AFMC form 200, used to process accelerated delivery requirements to support high-priority backorders and MICAPS.
AFI	Air Force Instruction
AFMCI	Air Force Material Command Instruction
AFOSI	Air Force Office of Special Investigation
AFTO	Air Force Technical Order – Authorized manual directing and providing instructions for performing work on Air Force Assets
ASR	Asset Status Report
ASSEMBLY	Two or more parts or subassemblies joined together to form a complete unit, structure, or other article.
AT	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.
ACO	Administrative Contracting Officer – contracting officer who performs actions delegated by the PCO at the initiating activity
BER	Beyond Economical Repair
CAC	Common Access Card
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.
CAV AF	Commercial Asset Visibility Air Force. This is the end item production reporting system for Contractor repairs and GFM transactions.
CCA	Circuit Card Assembly
CDRL	Contract Data Requirements List
CDM	Contract Depot Maintenance
CFM	Contractor Furnished Material – Contractor furnished material required to complete the repair.
CLIN	Contract Line Item Number
CMRA	Contractor Manpower Reporting Application
CO	Contracting Officer
CONDEMN	A normally repaired item which, due to the extent of required work process, has been deemed uneconomical to make serviceable.
CONUS	Continental United States
COMPONENT	A normally repaired item which, due to the extent of required work process, has been deemed uneconomical to make serviceable.
DCMA	Defense Contract Management Agency
DD FORM 1348-1A	Department of Defense (DoD) form required to be created and attached on all Government Property being shipped from the Contractor's facility IAW DLM 4000.25-1 (ref most current amendment or replacement).
DEFECT	Any nonconformance with specified requirements
DFAR	Defense Federal Acquisition Regulation
DID	Data Item Description

PWS for the 1620011488009 - SERVOVALVE, HYDRAULIC

ACRONYM OR PHRASE	DEFINITION
DISASSEMBLE	To remove the components that make up the end-item in accordance with disassembly instructions IAW OEM Technical Data.
DLAD	Defense Logistics Acquisition Directive
DMRP	Discrepant Materiel Reporting Program
DoD	Department of Defense
DoDI	Department of Defense Instruction
ECA	External Certificate Authority
ECP	Engineering Change Proposal
EDD	Estimated Delivery Date
EPA	Environmental Protection Agency
ESS	Environmental Stress Screening
ETIMS	Enhanced Technical Information Management System
FAR	Federal Acquisition Regulation
FLIS	Federal Logistics Information System
GBL	Government Bill of Lading
GFE	Government Furnished Equipment - Tangible asset that is functionally complete for its intended purpose, durable, and nonexpendable. (see FAR part 45.101). For the purpose of this PWS, GFE are items such as machinery, tooling, fixtures, booths etc.
GFP	Government Furnished Property - Property in the possession of, or directly acquired by, the Government and subsequently furnished to the contractor for performance of a contract (see FAR part 45.101). For the purposes of this PWS, property includes materials, equipment, and carcasses provided to the contractor.
GFM	Government Furnished Material - "Material" means property that may be consumed or expended during the performance of a contract, component parts of a higher assembly, or items that lose their individual identity through incorporation into an end-item. Material does not include equipment, special tooling, and special test equipment (see FAR part 45.101).
GIDEP	Government-Industry Data Exchange Program
GSA	Government Services Administration
HVOF	High Velocity Oxygen Fuel
IAW	In Accordance With
IUID	Item Unique Identification – The program was an initiative incorporated by the Government to improve the tracking of assets during transit, operation, storage, and repair. This program was implemented to provide an easier means for the Contractor and DoD to track unique assets through electronically scanning the asset tag which identifies the item.
JCALs	Joint Compute-Aided Acquisition and Logistics Support
MICAP	Mission Incapable Awaiting Parts - The status of a weapon system, as determined by its ability to accomplish its assigned mission. MICAP situations are a grounded aircraft in need of an immediate serviceable asset or repair.
MILSTRAP	Military Standard Transaction Reporting and Accountability Procedures
MILSTRIP	Military Standard Requisitioning and Issue Procedures
NAC	National Agency Check
NDI	Non-Destructive Inspection
NIIN	The National Item Identification Number consists of a 2-digit National Codification Bureau number designating the central cataloging office (whether North Atlantic Treaty Organization or other friendly country) that assigned the number and a 7-digit (xxx-xxxx) non-significant number.
NLT	No Later Than
NSN	National Stock Number - The 13-digit stock number replacing the 11-digit Federal Stock Number. It consists of the 4-digit Federal Supply Classification code and the 9-digit National Item Identification Number. The National Item Identification

PWS for the 1620011488009 - SERVOVALVE, HYDRAULIC

ACRONYM OR PHRASE	DEFINITION
	Number consists of a 2-digit National Codification Bureau number designating the central cataloging office (whether North Atlantic Treaty Organization or other friendly country) that assigned the number and a 7-digit (xxx-xxxx) non-significant number. The number shall be arranged as follows: 9999-00-999-9999.
O&A	Over and Above
OCONUS	Outside the Continental United States
OEM	Original Equipment Manufacturer- SCI
OO-ALC	Ogden Air Logistics Complex
OSHA	Occupational Safety and Health Administration
PCO	Procuring Contraction Officer
POC	Point of Contact
PQDR	Product Quality Discrepancy Report - A tool to report or respond to deficiencies found with either repair or new manufacture of the end product.
QALI	Quality Assurance Letter of Inspection
QAR	Quality Assurance Representative
QDR	Quality Deficiency Reporting
PM	Program Manager - Government Individual responsible for the overall program or project.
PMPS	Parts, Material, and Process Selection
PMR	Program Management Review - Biannual review with contractor and government personnel to review contract status and to address all issues from both sides.
PMS	Production Management Specialist: 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.
PQDR	Product Quality Deficiency Reporting
PWS	Performance Work Statement
QA	Quality Assurance
QAR	Quality Assurance Representative
RECOVERABLE	An unserviceable item that can have maintenance performed to restore it to a serviceable condition.
REMANUFACTURE	Major repair of an item, piece of equipment, or material which is degraded or inoperable (reference FAR 22.1003-6).
REPAIR	The restoration of an item to a completely serviceable condition as prescribed by applicable technical data.
RFD	Request for Deviation
ROD	Report of Discrepancy
RTOK	Retest Okay
SDR	Supply Discrepancy Report
SERVICEABLE	Capable of meeting the requirements and performing the function for which it was designed or modified and meets all test requirements established by this work specification and the Technical Data cited in the PWS.
SOW	Statement of Work
SP	Supply Planner
SPI	Special Packaging Instruction
SRU	Shop Replaceable Unit
TCTO	Time Compliance Technical Order
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.
TODO	Technical Order Distribution Offices

ACRONYM OR PHRASE	DEFINITION
UII	Unique Item Identifier
UNSERVICEABLE	An item in a condition unfit for use but which can be restored to a serviceable condition after repair, rework, or repair. This condition includes items requiring calibration, test, modification, assembly, or the addition of components.
UPDATE	To bring an end-item up to the latest acceptable Government approved configuration without changing its original form, fit or functional capability.
USAF	United States Air Force
USG	United States Government
WAWF	Wide Area Work Flow - a paperless contracting DoD-wide application designed to eliminate paper from the receipts and acceptance process of the DoD contracting life cycle.
WR	Work Request

### 3.0 REPORTING AND DATA REQUIREMENTS.

Reporting and data requirements shall be provided in the Contract Data Requirements List (CDRL), DD Form 1423-1. The Contractor shall prepare and submit the following records, forms, or reports in support of this work effort.

#### 3.1 Commercial Asset Visibility Air Force (CAV AF) End Item Report.

Refer to the CAV AF Reporting Requirements Document for technical requirements/considerations, responsibilities, and reporting requirements of the CAV AF system. IAW CDRL A001 (DI-MGMT-81838).

- a. The Contractor is required to report End Item transactional data through electronic submission using the Government's CAV AF system. The contractor is required to be able to perform all transactions in the Contractors User Guide, Version 9.0.4 or higher. The purpose of CAV AF is to maintain asset visibility and accountability throughout the repair process, update asset condition and balance to Air Force Supply Systems, reports financial and inventory balances, and feed production and unit repair costs to the maintenance and budgeting systems. Data entry into CAV AF generates the DD Form 1348-1A which is mandatory for shipping and receiving transactions.

#### 3.2 Contract Depot Maintenance (CDM) Production Report.

The Contractor shall report monthly by contract delivery order on all applicable categories, totals and on-hand balances, providing all listed Data Item Description (DID) requirements for each repair location, including Sub-Contractor facilities, if applicable, for the contracts maintenance occurrence actions during the reporting period IAW CDRL A002 (DI-PSSS-81995).

#### 3.3 Annual Government Property Physical Inventory Report.

The Contractor shall provide an Annual Government Property Physical Inventory Report IAW CDRL A003 (DI-MGMT-80441).

- a. The Contractor shall conduct an annual 100% physical inventory over the course of a year's time of each NIIN as not to impede maintenance operations. Upon completion of all NIIN's 100% physical inventory, the Contractor shall provide the AF Government inventory listing of the result of all AF GFP in the Contractor's possession.

#### 3.4 Teardown Deficiency Report.

The contractor shall generate a Teardown Deficiency Report that includes packaging, handling and shipping deficiencies. The report should further note the part number and identification of deficiencies found as well as the recommended corrective action, IAW CDRL A004 (DI-PSSS-81534).



**3.5 Item Unique Identification (IUID) Marking Activity and Verification Report.**

\*Not required for this contract\*.

**3.6 AFTO Form 95.**

The Contractor shall provide a completed AFTO Form 95, Significant Historical Data, with every end item repaired. The report shall be documented with any permanent history of significant maintenance actions during the repair of the end item. The AFTO Form 95 will be included inside the box/crate with the repaired part prior to shipping IAW CDRL A005 (DI-MGMT-81564).

**3.7 Quality Deficiency Reporting (QDR).**

In the event that an asset is returned for rework, the contractor shall perform a thorough inspection to determine causality. A quality deficiency report will be prepared and provided to the ACO, PCO, and PM IAW CRDL A006 (DI-QCIC-80736).

**3.8 Program Status Report.**

The contractor shall prepare a program status report at a minimum of once a month. The report shall be delivered NLT the last week day of each month highlighting program process, status, and risk/problem areas IAW CDRL A007 (DI-MGMT-81991).

**3.9 Request for Deviation (RFD).**

The contractor shall submit requests for all deviations, waivers, and non-conformance for new and repaired parts. Requests will be submitted on an as needed basis IAW CDRL A008 (DI-CMAN-81590).

**3.10 Engineering Change Proposal (ECP).**

As needed for approval of a configuration change to the baselined performance requirements and configuration documentation, the contractor shall submit an ECP IAW CDRL A009 (DI-SESS-80639).

**4.0 SECURITY AND FOREIGN DISCLOSURE.**

The Contractor shall ensure requirements for safeguarding classified information, materials, for obtaining and verifying personnel security clearances, for protecting Government Property and data are fulfilled.

**4.1 Per Export Control Limitations.**

Foreign Disclosure Restrictions IAW AFMCI 21-113, 21- 149 and 23-102 do not apply.

**4.2 Uses and Safeguarding of Information.**

Information from the secure website is considered to be proprietary in nature when the contract number and Contractor identity are associated with the direct labor hours and direct labor dollars. At no time will any data be released to the public with the Contractor name and contract number associated with the data.

**5.0 GOVERNMENT PROPERTY.**

All property owned or leased by the Government. Government Property includes Government Furnished Property (GFP), Government Furnished Material (GFM), and Government Furnished Equipment (GFE). Federal Acquisition Regulation (FAR) Part 45.

Note: No GFE or GFM will be provided in support of this contract. As such, any required materials or equipment will be the responsibility of the contractor.

### 5.1 Government Furnished Property.

GFP is property in the possession of, or directly acquired by, the Government and subsequently furnished to the Contractor for performance of a contract. The GFP to be furnished to the Contractor is listed below.

Noun	NSN	Part Number
Servovalve, Hydraulic	1620-01-148-8009	48230-2

- a. When the Government owned asset is in the possession of the Contractor, the asset shall be accounted for, tracked and stored in a secure area where they are protected and handled in such a manner against all damages, weather, and foreign matter. Further, the Contractor shall secure the asset to prevent any damages, pilferages, or loss while in the Contractor's possession IAW DoD 5200.1-R.

### 6.0 CONTRACTOR PROPERTY.

The contractor shall provide any and all parts support other than GFP at their own expense. Contractor Furnished Material (CFM) includes all materials owned/purchased by the contractor, outside of GFP, that is required in the repair of the GFP. In the event that the contractor has procured CFM that does not get utilized over the course of the contract, no reimbursement will be provided by the Government.

### 7.0 ITEM UNIQUE IDENTIFICATION (IUID) MARKING (IAW AFMCI 20-105 Para. 3.6).

\*Not required for this contract\*F

### 8.0 GENERAL WORK REQUIREMENTS.

The Contractor shall receive, disassemble, inspect, test, and perform complete repair/modification, update, reassemble, and retest GFP IAW this PWS and all applicable Technical Data/Directives listed in Section 11.

#### 8.1 Mission Impaired Capability Awaiting Parts (MICAPs).

MICAPs will be identified to the Contractor and work priorities will be set by direction of the Government to ensure "repair to demand" versus "batch repairing". The Government will provide the contractor with a weekly priority list detailing MICAP awaiting parts and high priority items. To meet this, the Contractor will be allowed to move components among reparable end items to expedite repairs. However, this practice shall be limited as to not produce Beyond Economic Repair (BER) assets as a direct result.

#### 8.2 Technical Data.

The Contractor shall comply with the latest dated contractor TOs and other directives used or issued during the time the work is being accomplished.

**Note:** No technical related issue in this document shall be construed as taking precedence over TOs and/or manufacturer drawings, and their accompanying documents and specifications for these end items.

#### 8.3 Cleaning, Corrosion Control and Treatment.

The Contractor shall clean the end item thoroughly prior-to and after disassembly and maintain cleanliness during this maintenance effort. Accomplish corrosion control and treatment as required, using methods and materials IAW MIL-STD-1250, MIL-HDBK-454A, and MIL-HDBK-1568.

#### **8.4 Quality.**

The Contractor is responsible to ensure all-inclusive management of the quality control requirements are accomplished as outlined in the contract. This includes the establishment of viable quality control program, detail inspection programs, monitoring actions and effective corrective actions.

- Complete records of all inspection work performed by the Contractor shall be maintained by the contractor and made available to the USG during contract performance.
- Higher-Level Contract Quality Requirement. In compliance with clause FAR 52.246-11, the Contractor's Quality Control Program shall comply with ISO 9001:2000/SAE AS 9100 or equivalent.
- The contractor shall provide full cooperation with USAF personnel when QDRs are identified. No instances of substantiated reports of interference from the contractor with Quality Assurance (QA) inspections conducted by USAF/DCMA personnel will be allowed.

#### **8.5 Receiving Inspection.**

An inspection for proper identity, completeness, and obvious damage shall be performed on each end item upon its receipt at the Contractor's facility. Any deficiencies found as a result of the inspection shall be brought to the attention of the end item Program Manager through the ACO/CO IAW CDRL A004.

#### **8.6 Handling.**

The Contractor shall exercise care to prevent any damages, pilferage, or loss of GFP while it is in the Contractor's possession. The Contractor shall store all GFP in a secure area and provide protection against all adverse environment conditions. Reusable shipping containers, packaging, and crating material in which the GFP is received shall be handled with care.

#### **8.7 Special Packaging Instructions.**

Reusable containers shall be stored for reuse, and configuration of the containers shall not be altered.

If at any time the reusable shipping container arrives at the contractor facility damaged beyond remanufacture, the contractor will accomplish associated remanufacture of such packaging, or provide new packaging. The contractor shall be responsible for ensuring that containers are IAW the Special Packaging Instructions (SPI). Costs associated with containers shall be included in the unit repair cost.

#### **8.8 Shipping.**

All assets will always be returned or shipped utilizing a DD 1348-1A unless otherwise directed by the Government. DD 1348-1A is the authorized shipping document, not a DD250, so that the item can be properly identified. Contractor is required to comply with all CAV AF requirements identified in the CDRLs and attachments to the contract. Additionally, upon completion of the repair, the contractor is required to print the DD1348-1A (in triplicate) from CAV AF. Place one copy on the outside of the shipment container, one copy inside the shipment container, and retain the third copy for the contractor's records. All outgoing USAF shipments will be shipped per the direction of the Government Bill of Lading (GBL) or as otherwise directed. The USAF will only be responsible for shipping costs incurred within the Continental United States (CONUS), all other shipping related costs will be at the contractor's expense. The contractor shall be responsible for any application OCONUS costs.

#### **8.9 Non-Destructive Inspection (NDI).**

The Contractor shall accomplish Non-Destructive Inspection (NDI) by disassembly to the extent necessary to assure a definite acceptance or rejection of the suspected item or area. The Contractor shall accomplish inspections during the maintenance process while the item is accessible for the following:

- a. Quality replacement parts.
- b. Correct dimensions of replacement parts.

- c. Correct type and quantity of parts and materials.

#### **8.10 Warranty of Work.**

The Contractor shall warranty their work IAW industry standards. The Contractor shall provide the terms of their warranty in their bid or proposal prior to contract award. Any rework that is done under warranty shall be at no additional cost to the Government.

#### **8.11 Beyond Economical Repair (BER) and Condemnation.**

BER is defined as end item(s) which when restored to serviceable "A" condition, in accordance with applicable requirements (FAR Part 45.6, DFAR Part 245.6, DOD 4160.21-M-1, DOD 4100.39-M); the cost will exceed 75% of the Stock Listed price. If the Contractor estimates the total cost of the repair of any end item received will exceed 75% of the Stock Listed price, the Contractor shall promptly notify the PCO in writing and shall not perform further services on any such items except at the direction of the PCO. Upon receipt of the written notification that a particular item is not repairable, the Contractor shall condemn the unit in the manner directed by the ACO. The Procuring CO may authorize the Contractor, through the ACO, in writing, to exceed 75% of the Stock Listed Price when an item is in critical supply status.

Upon approval from the CO, the Contractor will be allowed to retain condemned units for cannibalization of spare parts. Replacement GFP assets will be sent to the contractor for repair upon approval of condemnation.

#### **8.12 Mis-Identified Material.**

Upon receipt of misdirected or mis-identified material, contractor shall submit a Supply Discrepancy Report (SDR) in the WEBSDR system. In the event the contractor cannot access WEBSDR, then the Report of Discrepancy (ROD) shall be submitted to the government PM for disposition. DCMA will determine whether any additional costs incurred as a result of the handling and/or storage of these items, will be authorized to be paid with O&A funding and whether such funds are available.

#### **8.13 Product Quality Discrepancy Report (PQDR).**

If GFP is received from the Contractor and at any time during the warranty period the asset becomes unserviceable the Government will initiate a PQDR and return the asset back to the Contractor. The contractor will comply with instructions contained in chapter 3, T.O. 00-35D-54, USAF Deficiency Reporting, Investigation, Resolution, and the Joint DLAD 4155.24/AR 702-7/SECNAVINST 4855.5B/AFI 21-115, Product Quality Deficiency Report Program IAW CDRL A007. These documents provide the policy and procedures for reporting, receiving, investigating, and resolving PQDRs. This directive implements Federal Acquisition Requirements for the reporting of product quality deficiency data as required by 41 C.F.R. 101. This directive establishes a system for feedback of product quality deficiency data across Military Service, Defense Logistics Agency, and Government Services Administration (GSA) lines in order to conduct reporting, investigation, cause correction, and management of individual product quality deficiencies, as well as to identify problems, trends, and recurring deficiencies. The contractor will cooperate fully with USAF and DCMA personnel in the investigation of all quality deficiencies.

The Contractor shall repair the GFP to serviceable condition at no additional cost to the Government. In addition, if an asset is returned for rework as a result of a PQDR more than 1 time in any 12 month period then the Contractor shall also conduct an Environmental Stress Screening (ESS) at no additional cost to the Government before returning the GFP to serviceable condition. The Contractor shall coordinate actions with the CO and Production Manager. Any tests that will be excluded as part of this effort will have prior written approval from the Production Manager. In addition, the contractor will track all quality deficiency reports.

#### **8.14 Safety and Health.**

While performing work under this contract the Contractor shall comply with all applicable federal, state and local regulations regarding occupational safety and health. The contractor shall maintain compliance with all local environmental laws, regulations, and requirements. The Contractor shall notify the Contracting Officer (CO), within one (1) hour of any damage to Government Property where the dollar value exceeds \$500,000.00 and within two workdays, for any damage to Government Property less than \$500,000.00 during the execution of the contract. Mishap notifications shall contain, as a minimum, the following information:

- a. Contract, Contract Number, Name and Title of Person(s) reporting.
- b. Date, Time and exact location of accident/incident.
- c. Brief Narrative of accident/incident (Events leading to accident/incident).
- d. Cause of accident/incident, if known.
- e. Estimated cost of accident/incident (material and labor to repair/replace).
- f. Nomenclature of equipment and personnel involved in accident/incident.
- g. Corrective actions (taken or proposed).
- h. Other pertinent information.

If requested by the designated CO, the Contractor shall immediately secure the mishap scene/damaged property and impound pertinent maintenance and training records, until released by the Procuring Safety Office.

#### **8.15 Process Regulations.**

Note that many of the repair processes are regulated in the United States under Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) regulations. Reference to a regulated process under either OSHA or EPA is not intended to be the only regulated processes. It is the contractor's responsibility to identify the affected process and comply with all applicable regulations.

### **9.0 SPECIFIC WORK REQUIREMENTS.**

The Contractor shall repair, update, inspect, reassemble, and test the reworked end-item and components and calibrate, if applicable, IAW T.O. 00-25-234 or other Government Approved Technical Data, and the Technical Data listed in Section 11 as applicable.

#### **9.1 Inspection.**

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

- a. End item for loose or missing parts, materials and attaching hardware.
- b. End item for dents, punctures, bent pins, cracked, wrinkled or misalign conditions that may cause chafing.
- c. Component parts, material, and attaching hardware to determine serviceability, and conformance with the Technical Data.
- d. Structural parts for dents, punctures, cracks, oversized holes, evidence of chafing, corrosion, and, deterioration.

#### **9.2 Disassembly.**

The Contractor shall disassemble each item only to the extent necessary to accomplish inspection, testing, fault isolation and maintenance IAW Technical Data listed in Section 11 as applicable and Government Approved Contractor Technical Data.

### **9.3 Repair.**

The repairs consist of repairing or replacing components and/or sub-assemblies. The reusable disassembled item components shall be used as replacement components for restoring the asset to serviceable condition. The sub-assemblies are not required to maintain the end item identification.

- a. Maintenance and replacement of accessory and component parts shall be IAW this PWS, the Technical Data cited in Section 11 and this PWS. In the event that a deviation from the Technical Data is required, an approval request in letter form shall be submitted to the Supply Planner via e-mail to obtain approval or disapproval.

### **9.4 Matched Sets.**

Serviceable precision matched or mated component parts shall be handled in a manner to ensure their reinstallation as a matched set.

### **9.5 Spares and Repair Parts.**

The Contractor will be allowed to retain condemned units for cannibalization of spare parts upon approval of the Ogden Air Logistics Complex (OO-ALC) Supply Planner and CO. Upon completion of the contract, per existing disposal code assigned to the item, the Contractor shall dispose of parts retained for cannibalization.

- a. Replacement parts and materials shall also be IAW Section 11. In the event that a deviation from the Technical Data is required and the Contractor desires the use of a substitute part, an approval request in letterform shall be submitted to the ACO/CO, who will obtain the appropriate engineering office determination and respond accordingly.

### **9.6 Component Parts.**

The Contractor shall be responsible for identification, selection, ordering, and stocking of required parts to support all repairs. All commercially procured parts shall be from approved sources and shall not alter the configuration of the end item. The contractor shall establish a parts control program IAW industry standards.

### **9.7 Flow Days.**

Maintenance on the reparable end-item(s) and component(s) shall be completed IAW contracted flow days 100% of the time with the exception of government caused delays. Flow days means induction and repair of assemblies, within negotiated time frame, of receipt of the assemblies.

### **9.8 Update.**

The Contractor shall update the GFP as outlined in TOs and other directives listed in Section 11. This shall be accomplished concurrently with the maintenance required by this PWS and shall be to the latest approved and supportable configuration however, functional capabilities for which the item was designed shall not be changed. Performance and reliability Class 2 Revision Notices will be incorporated as determined by the Contractor. These Revision Notices will be incorporated under contract however, the functional capabilities for which the end-item was designed shall not be changed.

### **9.9 Request for Deviation (RFD)**

The contractor shall submit requests for all deviations, waivers, and non-conformance for new and repaired parts. A deviation is a specific written authorization to depart from a particular requirement(s) of an item's current approved configuration documentation for a specific number of units or a specified period of time. It differs from an ECP in that a deviation does not effect a change to a configuration document.

An RFD shall be prepared IAW CDRL A008 (DI-CMAN-81590) and provide the information using DD Form 1694. All changes, regardless of classification, must be submitted for review. No shipments of material under this contract shall be authorized until the requests for deviations have been approved by the appropriate office. In the event that an RFD is prepared, the following steps shall be implemented:

- a. Step 1 – Contractor shall draft an RFD in accordance with CDRL and submit to the Hill AFB Engineer, PM, ACO, and PCO for action.
- b. Step 2 – Hill AFB Engineering and PM shall review/approve RFD and Contracting Office shall send final approval prior to start of work.
- c. Step 3 – Contractor will proceed as directed by the approved RFD.

Contractor shall maintain an archive of all submitted and completed RFD's that may be request by the government during the contract period.

#### **9.10 Engineering Change Proposals (ECPs).**

An ECP is the management tool used to propose a configuration change to the baselined performance requirements and configuration documentation. In the event that the contractor develops any engineering changes that affect form, fit or function of any items covered by this PWS, the contractor shall provide an ECP to Air Force (AF) Engineering for review/approval IAW CDRL A010 (DI-SESS-80639) providing information from DD Form 1692. ECPs are negotiated and funded separately and will be accomplished in accordance with a mutually agreed to schedule. Refer to MIL-HDBK-61A table 6-2 for information on criteria used to classify changes. Guidelines for preparing an ECP can be found in MIL-HDBK-61A and ANSI/EIA-649.

#### **9.11 Government Initiated TO Change**

If any applicable technical data is changed, revised, amended, or supplemented by the USAF after award of contract and an increase or decrease in work requirements results, the ACO and PCO shall be informed. If the change impacts the unit repair cost, contract cost may be subject to renegotiation.

information from DD Form 1692. ECPs are negotiated and funded separately and will be accomplished in accordance with a mutually agreed to schedule. Refer to MIL-HDBK-61A table 6-2 for information on criteria used to classify changes. Guidelines for preparing an ECP can be found in MIL-HDBK-61A and ANSI/EIA-649.

#### **9.12 Over and Above (O&A)**

In accordance with DFAR PGI 217.77 negotiations shall be in IAW DFARS Clause 252.217.7028. Request for consideration of over and above shall be in writing utilizing procedures identified below.

Work Requests (WRs): Contractor shall identify any work that is required which would qualify as "over and above" IAW DFARS 252.217-7028. In the event that over the above work is identified, the contractor shall prepare a Work Request (WR). The following steps shall be followed:

- a. Step 1 – Contractor shall prepare a Work Request

- Each Work Request shall include at a minimum the following: Contract/delivery order, description of work to be completed estimated additional cost and hours, justification for WR.
- b. Step 2 – Contractor shall send Work Request to Hill Engineering, PM, SP, ACO and PCO for review.
- c. Step 3 – Hill Engineering and PM shall review/approve work request(s) and Contracting Office shall send final approval to Contractor prior to O&A related work commencing.

#### **9.13 Marking.**

Each completed end-item will be permanently and legibly marked with the Contractor's facility identification. This identification will display the name of the Contractor facility, date of maintenance and contract number. This identification can be by decalcomania, rubber stamp, or stencil. When using rubber stamp or stencil, use permanent, waterproof ink or paint of contrasting color; also, end-item identification plates shall reflect the latest configuration/update, i.e., National Stock Number, Part Number as applicable.

#### **9.14 Acceptance Testing.**

Completed assets shall meet the original performance specification per Technical Order 4S2-70-3, -4. If USAF suspects any degradation in performance, the contractor may be required to verify performance through testing in accordance with the same specification.

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 IAW the specifications found in Section 11.

- a. Upon satisfactory completion of final acceptance test, the Contractor shall cover and seal all port, vents and electrical connections/plugs with suitable caps to prevent entry of foreign matter or damage during handling and shipment. (NAS 847)
- b. All completed work shall be subject to acceptance inspection by Defense Contract Management Agency (DCMA).
- c. In the event of failure impacting delivery schedule, the contractor shall notify the appropriate DCMA liaison, PCO, and PM of schedule changes within 24 hours.

#### **9.15 Receipt & Shipment.**

Under the terms of this contract, contractor is required to receive unclassified assemblies and components from various U.S. military installations, perform repair services as required and return the completed assets as called out in the contract/order. All incoming USAF material is received and secured at contractor's primary or supplemental address central location that permits contractor to consolidate several shipments from various sources on any given day.



**10.0 SERVICE SUMMARY.****10.1 WAWF/Material Inspection and Receiving Reports (DFAR 252.232-7003)**

Performance Objective	Performance Threshold
The Contractor will report material handling/reporting requirements accurately by using WAWF/Material Inspection and Receiving Reports	Receiving Reports in WAWF must have an accuracy rate of 98%
The Contractor will report material handling/reporting requirements completely by using the WAWF/ Material Inspection & Receiving Reports.	Receiving Reports in WAWF must have a completeness rate of 100%.
The Contractor will perform workmanship inspections on all repaired items as identified on the Material Inspection & Receiving Reports.	Random Sampling inspections must pass with a 100% workmanship rate.
The Contractor will perform workmanship inspections on all repaired items as identified on the WAWF /Material Inspection & Receiving Reports.	Process Proof Evaluations inspections must pass with a 100% workmanship rate.

**10.2 Product Quality Discrepancy Report (PQDR)**

Performance Objective	Performance Threshold
The Contractor must perform a test evaluation of items returned due to failures reported from the field units.	Must maintain 100% accuracy in reporting all required discrepancy report documentation.
The Contractor must perform a test evaluation of items returned due to failures reported from the field units.	Must maintain 100% completeness on all required discrepancy report documentation.
The Contractor must repair each item to a serviceable, nearly new condition.	Item should not be returned for rework more than 1 time in a 12 month period. A 2nd return during a 12 month period will require ESS testing.
The Contractor will perform Environmental Stress Screening (ESS), when applicable.	When ESS testing is required, the Contractor must maintain a 100% accuracy rate to pass the ESS tests.
Contractor shall deliver repaired assets without defects.	QDR rate shall be <5% of total assets repaired in 1 year.

**10.3 CAV AF**

Performance Objective	Performance Threshold
The Contractor will report Supply and Maintenance transactions through the repair process from receipt to shipment.	Must maintain 100% or above completeness on all required documentation. Reference CDRL exhibit A001 (DI-MGMT-81838)
The Contractor must maintain and provide accurate CAV AF reporting.	Contractor input into the CAV AF system must be 100% accurate. Errors must be corrected within 1 working days of discovery by Contractor or notification of the error. IAW CDRL A001 (DI-MGMT-81838).
The Contractor must provide timely CAV AF reporting.	Contractor input into the CAV AF system must be daily and/or within 24 hours. IAW CDRL A001 (DI-MGMT-81838).

The Contractor shall report by delivery order all on-hand balances and production produced during the reporting period.	CDRL A002 (DI-PSSS-81995)
The Contractor shall conduct 100% physical inventory by NIIN in EXCEL.	CDRL A003 (DI-MGMT-80441)

#### 10.4 Additional Services

Performance Objective	Performance Threshold
Contractor must maintain environmental controls to be tracked by DCMA	100% compliance with all local environmental laws, regulations, and requirements.
Contractor must maintain safety levels to be monitored by DCMA	Zero instances of damage to USAF property exceeding \$500,000 US dollars. All safety mishaps over this threshold shall be reported to the ACO within one hour.
Contractor must comply with latest version of technical data. Monitored by DCMA based upon customer complaint.	100% compliance with the latest version of all contractor technical data procedures, instructions, and directives

### 11.0 TECHNICAL ORDERS AND DIRECTIVES.

#### 11.1 Technical Data Requirements.

The contractor shall comply with the latest dated TOs and other directives used during the time the work is being accomplished. In the event of a government initiated TO update, the contractor shall perform a timely review of all updates or directive changes that are applicable to the work requirements. The review will make consideration for any impact to work requirements, cost, and schedules.

#### 11.2 Time Compliance Technical Orders (TCTO)

The contractor shall comply with urgent action, immediate action, and safety TCTO's.

#### 11.3 TO Account.

The contractor shall be responsible to maintain an account with the applicable Technical Order systems with electronic access. Technical data may be kept in paper and/or electronic versions. Refer to 00-5-1 for directions on maintaining a technical order account. See below paragraphs for procedures on accessing this system.

#### 11.4 Technical Order Distribution Offices (TODO) Account.

The contractor must establish a TODO account by processing an AFTO Form 43, (TODO) Assignment or Change Request. The IBM Lotus version of the AFTO Form 43 can be downloaded at <http://www.e-publishing.af.mil/>. Air Force Portal access procedures are found at <https://my.af.mil>, including the need for, at a minimum, a favorable National Agency Check (NAC).

#### 11.5 Enhanced Technical Information Management (ETIMS) System.

Because ETIMS access is required to establish and manage TODO accounts, prospective TODO POCs must first obtain a CAC or an External Certificate Authority (ECA) with a minimum of a favorable national agency check (NAC) to establish Air Force Portal access needed for ETIMS. Procedures for contractors to obtain an ECA certificate are found at: <http://iase.disa.mil/pki/eca/certificate.html>. The AF portal ID of the prospective, primary TODO POC is entered into block 6 of the AFTO Form 43. The designated Contracting Officer representative must confirm an approved DD Form 2345, Militarily Critical Technical Data Agreement (AFI 61-204, Disseminating Scientific and Technical Information) is on file prior to approving the AFTO Form 43. The approved AFTO Form 43 is then submitted to the OC-

ALC/EZGTP using the following email address: aflcmc.ezgtf.afm.af.mil. If government support contractors maintain a separate company-owned TO library, the company shall process a separate AFTO Form 43 to establish the contractor owned and operated TODO.

NOTE: Once contractor TODO accounts are established, the contractor TODO uses ETIMS to directly order and receive the TOs required under the contract.

#### 11.6 TODO Actions

Upon receipt of the approved AFTO Form 43, the primary TODO should access and use the ETIMS account associated with the JCALS TM account number on the AFTO Form 43 to establish and manage their unit's TO/eTO requirements.

#### 11.7 Drawings

The contractor shall be responsible to acquire technical drawings as required. This data may be acquired by request through the contracting officer.

#### 11.8 Applicable Government Documents.

AFI 63-1201	Assurance of Operational Safety, Suitability and Effectiveness
AFMCI 21-149	Contract Depot Maintenance (CDM) Program (04 Mar 2009)
CAV AF Manual	Commercial Asset Visibility Air Force (Version 8 or higher)
DOD 4100.39-M	Federal Logistics information System (FLIS) Procedures
DOD 4160.28-M	Defense Demilitarization: Program Administration
DODI 4140.01	Department of Defense Supply Chain Materiel Management Policy
DODI 4140.67	Department of Defense Counterfeit Prevention Policy
DLM 4000.25-1	Military Standard Requisitioning and Issue Procedures (MILSTRIP)
DLM 4000.25-2	Military Standard transaction Reporting and Accountability Procedures (MILSTRAP)
MIL-HDBK-263	Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts, assemblies and Equipment
MIL-HDBK-344	Environmental Stress Screening of Electronic Equipment
MIL-HDBK-454	Requirements for Electrical Equipment
MIL-HDBK-1250	Corrosion Prevention and Deterioration Control of Electronic Components and Assemblies
MIL-HDBK-1568	Materials and Processes for Corrosion Prevention and Control in Aerospace Systems
MIL-I-46508	Insulating Compound, Electrical
MIL-STD-130	Identification Marking of U.S. Military Property
MIL-STD-130L	Identification Marking of U.S. Military Property
MIL-STD-1686	Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment.
NAS 847	Cap and Plug, Protective, Dust and Moisture Seal
TO 00-20-1	Aerospace Equipment Maintenance Inspection, Documentation, Policies, and Procedures (1 JUN 2018)
TO 00-20-2	Maintenance Data Documentation (15 MAR 2016)
TO 00-20-5	Aerospace Vehicle/Equipment Inspection and Documentation
TO 00-25-195	Source Maintenance, and Recoverability Coding of Air Force3 Weapons System
TO 00-25-234	General Shop Practice Requirements for the Repair, Maintenance, and Test of Electrical Equipment (Change 7, 25 MAR 2018)
TO 00-25-260	Unique identification Asset Marking and Tracking (15 OCT 2013)
TO 00-35D-54	USAF Deficiency Reporting, Investigation, and Resolution
TO 00-5-1	AF Technical Order System (16 JUL 2018)

PWS for the 1620011488009 - SERVOVALVE, HYDRAULIC

TO 00-5-2	AF Technical Order Distribution System
TO 00-5-3	AF Technical Order Life Cycle Management
TO 1-1-1	Operation Instructions, Cleaning of Aerospace Equipment
TO 1-1-2	Corrosion Control and Treatment for Aircraft and Missiles
TO 1-1-4	Air Force Standard Exterior Finishes
TO 1-1-8	Application and Removal of Organic Coatings Aerospace and Non Aerospace Equipment
TO 1-1A-8	Structural Hardware
TO 1-1-691	Aircraft Weapon System Cleaning and Corrosion Control
TO 33B-1-1	Non-Destructive Inspection Methods, Basic Theory (15 OCT 2018)
TO 33B-1-2	Nondestructive Inspection Methods, General Procedures and Process Controls
TO 44B-1-2	General Maintenance Instructions – Airframe Antifriction Bearings
TO 4S-1-182	General Overhaul and Maintenance Instruction, Aircraft Landing Gear Components
TO 4SA2-58-3	Overhaul Instructions
TO 4SA2-58-3	Illustrated Parts Breakdown

NOTE: Primary source for military specifications and standards is:

Defense Automated Printing Service (DAPS)

700 Robbins Ave Bldg. 4, Sec D.

Philadelphia, PA 1911-5094

DSN: 442-2179/2667 COMM: (215) 697-2179/2667

FAX: (215) 697-1492

WEB: WWW.DODSSP.DAPS.MIL