

November 17, 2014

TORFQ #2014T-12

**PERFORMANCE WORK STATEMENT (PWS)**

**TECHNICAL SUPPORT TO THE  
PROJECT MANAGER FOR CARGO HELICOPTERS (H-47)**

**1.0 MISSION OBJECTIVE:** The objective of this requirement is to provide technical, systems acquisition, systems engineering, test and evaluation, system safety and environmental, airworthiness and aviation engineering, electronics and avionics, software, and technical program support to the Project Manager's Office (PMO). This support shall be provided for all variants of the H-47 helicopter.

U.S. Army H-47 Chinook helicopters are deployed throughout the world in support of the defense of the United States and our Allies. The U.S. Army continuously works to develop and apply new technologies to both increase the mission capability and decrease man-hour requirements for operations, maintenance and support of their Chinook helicopters. The U.S. Army accomplishes this process by a combination of fielding new systems and modernizing existing aircraft.

**2.0 PERFORMANCE REQUIREMENTS:** The contractor shall provide technical expertise in the areas of: technical support to program management activities, systems engineering, airworthiness and aviation engineering, electronic and avionics systems, software engineering, test and evaluation, configuration and data management, systems safety, environmental, cybersecurity, Foreign Military Sales (FMS), and technical functional disciplines. CONUS and OCONUS travel is anticipated.

The contractor shall provide all labor necessary to provide on-site and off-site technical support. In an advisory and assistance role, the contractor shall provide technical support for coordination with program participants, performing technical planning, systems analysis, preparing draft briefings, presentations, and supporting technical reviews to support the PMO. This support shall require contact with Department of Defense (DoD) activities, Headquarters Department of the Army (HQDA), Program Executive Officer (PEO) Aviation Program Managers, program elements within Aviation Missile Command (AMCOM) and Special Operations Command (SOCOM), Army Major Subordinate Commands (MSCs), U.S. Army Training and Doctrine Command agencies, and industry prime contractor/subcontractor personnel.

**2.1 Technical Support** The contractor shall provide the program management technical expertise and assistance required to support the technical and management decisions concerning the planning, implementation and execution of H-47 platforms.

2.1.1 The contractor shall provide technical expertise in the preparation of briefings for reviews and Integrated Product Teams (IPTs). This effort shall also include creating detailed draft presentation/briefing material containing high quality graphics, results, conclusions and recommendations. The contractor shall provide assistance in recording the results of briefings and reviews; prepare draft minutes and action item lists for distribution. (Reference 2.0, G17).

2.1.2 The contractor shall provide scientific, engineering, and technical expertise to analyze, evaluate, provide recommended revisions, and/or generate draft technical documentation required in support of the IPT and milestone review/approval processes. This shall include technical and requirements documentation, technical input to cost analysis, technical input to acquisition strategies, technical input to test and evaluation activities, technical input to schedule development, and technical program documentation. The contractor shall provide technical support to IPTs and supplemental milestone reviews and submit IAW DI-MISC-80508B (CDRL A002). (Reference 2.0: G16, G18).

2.1.3 The contractor shall provide scientific, engineering, and technical expertise during the development, production, and integration efforts for all variants of the H-47. The contractor shall review, coordinate, and provide input into requirements analyses, studies, system/subsystem specifications, and the overarching development process with other Government agencies and industry as necessary. (Reference 2.0: G16, G18).

2.1.4 The contractor shall provide technical expertise in acquisition reform initiatives and recommendations for how to remain in compliance with new DoD/Army regulations, updated regulations, streamlined acquisition initiatives, strategies and revised procedures. (Reference 3.23, TD1f)

2.1.5 The contractor shall provide technical expertise for timely consideration and integration of latest technological advances to support engineering activities. This technical expertise shall include studies, analyses and evaluations of technologies, plans and concepts necessary to implement modifications and improvements to H-47 hardware and software, and supporting systems, and to facilitate technology transfer and technology base programs (Reference 2.0 G8, G16).

2.1.6 The contractor shall provide documentation and planning support for strategic planning, performance plan development, briefings and reports in support of review and preparation of national and international agreements (Reference 3.19 SE12).

2.1.7 The contractor shall provide technical recommendations and technical expertise to should cost, source selection, proposal evaluation/contracting efforts, and/or provide analysis of trade off studies and risk assessment of competing technologies or systems (Reference 2.0: G13).

2.1.8 The contractor shall provide technical expertise in support of H-47 long term platform systems acquisition and technical planning activities. This support shall include the identification and timely consideration of technology for incorporation into H-47 technology roadmaps. (Reference 2.0 G8, G16)

2.1.9 In support of H-47 systems, the contractor shall provide technical expertise in the recommendation, planning and development of acquisition strategies and procurement documentation such as draft requests for proposals, recommendations for the preparation of statements of works, and their corresponding contract data requirements lists, as well as design specifications, schedules, inspection and acceptance criteria, input on justifications for non-competitive procurement, and statements of urgency for H-47 aircraft production requirements (Reference 2.0 G14; 3.19 SE10).

2.1.10 The contractor shall provide technical program input and recommendations during engineering activities that consider integrated logistics support engineering, field sustainment and production requirements. (Reference 3.19 SE4)

2.1.11 The contractor shall provide technical assistance in the assessments and input to the execution/coordination of contract actions to help ensure acquisition program objectives are accomplished. The contractor shall provide advisory and assistance with recommendations and technical expertise in the development of milestone award dates and delivery schedules. (Reference 2.0 G13, G14)

2.1.12 The contractor shall provide technical expertise, support, and input to program resource documentation and plans for both PM requirements and Foreign Military Sales efforts. (Reference 3.19 SE10, SE12)

2.1.13 The contractor shall provide the technical expertise needed to develop recommendations for solutions to issues affecting the technical management, programming, planning, and budgeting of all H-47 programs. The contractor shall provide technical expertise and support the development of technical schedules, technical impact statements, technical requirement and justifications, and unfunded technical requirements information study papers for decrement drills and other data calls affecting H-47 technical projects. (Reference 2.0, G16, G18)

2.1.14 The contractor shall provide technical expertise for weekly Technical Management Division meetings, technical interface meetings, program reviews, contract surveillance meetings, and other meetings related to H-47 procurement issues. (Reference 2.0 G17)

**2.2 Systems Engineering** The contractor shall provide Systems Engineering technical expertise/assistance and coordinate/interface with other supporting activities on systems engineering tasks to include the preparation of evaluations, studies, reports, briefings, specifications, and technical documentation in support of the U.S. Army.

2.2.1 The contractor shall provide technical expertise supporting engineering activities and facilitate coordination of engineering activities for out-of-production system modifications and product improvement programs. (Reference 3.19 SE1)

2.2.2 The contractor shall provide technical expertise in support to the type classification, materiel release, standardization, and material fielding process. (Reference 2.0, G15)

2.2.3 The contractor shall provide technical expertise in support of PMO requirements in the conduct of technical studies, to assess the feasibility, and/or functional adequacy of potential new design features to be incorporated into the H-47 programs (Reference 2.0: G6).

2.2.4 The contractor shall provide technical expertise for trade-off studies and risk assessments of equipment and systems, software integration approaches, and system architecture designs in support of H-47 Helicopter programs (Reference 2.0: G13).

2.2.5 The contractor shall provide technical expertise and/or conduct studies and monitor the effectiveness of the configuration management program to provide a continuing program to control, improve, and simplify the system. (Reference 3.23 TD2)

2.2.6 The contractor shall provide technical expertise in supporting the Configuration/Data Management (CM/DM) and configuration control process. The contractor shall provide technical input and assistance to support the development, review, and tracking of Engineering Change Proposals and Modification Work Orders. (Reference 3.23 TD2f)

2.2.7 The contractor shall provide technical expertise when participating in system configuration audits, technical audits, configuration control boards, program reviews, and review of prime contractor/subcontractor submittals for compliance with contract requirements. (Reference 3.23 TD2d).

2.2.8 The contractor shall provide technical expertise in planning, coordinating, and documenting data management activities. Activities include inputting, compiling, and preparing data to load status accounting systems and providing technical support to the coordination of activities and actions amongst the various IPTs within the PMO. (Reference 3.23 TD3a).

2.2.9 The contractor shall provide technical expertise in the preparation of configuration management programs and plans. (Reference 3.23 TD2g)

2.2.10 The contractor shall provide technical expertise to ensure adequacy of TDPs and performance specifications. (Reference 3.23 TD2h)

2.2.11 The contractor shall plan, develop, and facilitate coordination of configuration management program for systems in consonance with established directives, policies, and international agreements. (Reference 3.23 TD2m)

2.2.12 The contractor shall provide technical expertise in the development of a value engineering program to include providing technical input and assistance in the conduct of Value Engineering studies; evaluation of potential value engineering projects; analysis of project results; and development of recommendations commensurate with the goals of the command Value Engineering program. (Reference 2.0: G9; 3.8 IO2b)

2.2.13 The contractor shall provide technical expertise in airworthiness management for the PM for aircraft systems and related equipment that has been modified/alterd from the standard configuration. The contractor shall provide assistance in evaluating these modifications/alterations from the standard configuration for issuance of airworthiness releases by AED. (Reference 3.2 AW1a)

2.2.14 The contractor shall provide technical input and assistance during the review and analysis process, and provide recommended additions and changes to technical manuals and technical publications such as the Aviation Intermediate Unit Maintenance Manual, Operator's Manual, Troubleshooting Manual and Checklist, Maintenance Flight Test, Post flight Checklist, Depot Maintenance Work Requirements, and Preventative Maintenance Schedule. (Reference 3.19: SE4, SE6).

2.2.15 The contractor shall provide technical expertise and input to support the design of technical databases. The contractor shall provide technical expertise and input to maintain and update technical databases, data storage, and filing systems for technical projects. This function includes providing technical expertise in designing graphical user interfaces for data entry and inputting incoming suspense actions into the database by tracking completed items in reports for and retrieving data. The contractor shall provide technical expertise to obtain and perform data analysis to continuously develop and update report documentation supporting program requirements. (Reference 2.0, G16; 3.24 TE3a)

2.2.16 The contractor shall provide technical expertise in the development, implementation and sustainment of the T55-GA-714A engine and other related engine efforts on H-47 programs. This support shall consist of efforts that include coordination of hardware and software airworthiness qualification issues, documentation review, design and test review, fielding activities and other coordination with prime contractors and the Aviation Engineering Directorate (AED) Propulsion Division. (Reference 3.17 PT2, PT3).

2.2.17 The contractor shall provide technical expertise on H-47 Improvements and FMS programs for Cargo Helicopters upgrades and initiatives. This support shall consist of efforts that include the following:

2.2.17.1 The contractor shall provide technical expertise in identifying any discrepancies between system requirements and actual system, identify potential system states and modes, and decompose system functions accordingly (Reference 2.0: G3, G6).

2.2.17.2 The contractor shall provide technical expertise in determining critical sub-set of performance, functional, and constraining requirements to develop detailed criteria and component specifications (Reference 2.0: G5, G7).

2.2.17.3 The contractor shall provide technical expertise in performing risk identification and tracking and providing input to contract elements (Reference 2.0: G13).

2.2.17.4 The contractor shall provide technical expertise during production activities, ensuring production readiness to include: addressing airworthiness qualification issues, performing documentation reviews, and conducting design and test reviews (Reference 3.16 PE1).

2.2.17.5 The contractor shall provide technical expertise in coordinating with prime contractors, the Aviation and Missile Research Development and Engineering Center (AMRDEC), and other organizations on systems engineering functions in order to adequately plan, facilitate coordination, and provide recommendations to system design and engineering actions. (Reference 3.19 SE3).

2.2.18 The contractor shall provide technical expertise in systems engineering support pertaining to the H-47 helicopter secondary items. This support shall include providing technical expertise and assistance to the engineering assessments of Category I Quality Deficiency Reports (QDRs), determining and defining corrective actions, and notification of actions required to the field (Reference 3.19 SE5).

2.2.19 The contractor shall provide technical expertise in developing System Safety Risk Assessments in support of the Army's Critical Safety Items Program (Reference 3.23 TD2f).

2.2.20 The contractor shall provide technical expertise in the support of accident investigation using documentation involving suspected deficiencies or failure of secondary items and recommend measures that can be taken to prevent their recurrence. (Reference 3.4 ENV/SAF 8)

2.2.21 The contractor shall provide technical expertise in reviewing parts Deviations, Waivers for field questions on parts, and source approval request packages authorizing alternate sources for competitive acquisition of spare parts. (Reference 3.23 TD2f).

2.2.22 The contractor shall provide technical expertise in support of safety and capability modifications (Engineering Change Proposals (ECPs) and Modification Work Orders (MWOs)) (Reference 3.23 TD2f).

2.2.23 The contractor shall provide technical expertise to review, evaluate, and propose necessary action to resolve reported field problems in support of fielded units for engineering modifications, installations troubleshooting, and for problems identified during after action reviews. (Reference 3.19 SE5).

2.2.24 The contractor shall provide technical expertise in the form of aviation technical studies, analyses, evaluations, plans development, and technical observations for H-47 technical efforts. (Reference 3.19 SE12).

2.2.25 The contractor shall provide technical expertise in the area of cybersecurity testing and technical support on H-47 electronic disciplines and physical systems, subsystems, and supporting projects. Support shall consist of: identification and assessment of vulnerabilities; applicability and assessment of security controls; development and review of plans and procedures for implementation, designing, developing, and reporting test methodologies and technologies to achieve compliance, and reporting with regard to government cybersecurity requirements. (Reference 3.3: EAVS5; 3.24 TE5b)

**2.3 Airworthiness and Aviation Engineering** The contractor shall provide Airworthiness and Aviation Engineering technical support/assistance and coordinate/interface with other supporting activities. The contractor shall provide aviation engineering and airworthiness support to the following activities:

2.3.1 The contractor shall provide technical expertise in evaluating the airworthiness qualification requirements for H-47 aircraft systems and any changes/upgrades to the systems or subsystems of these aircraft. That support includes providing technical input and assistance to the development and coordination of Airworthiness Qualification Plans, evaluating analyses and demonstration results, technical support for airworthiness developmental and operational testing, test plan and report evaluation. (3.2, AW1c-e).

2.3.2 The contractor shall provide technical expertise in developing recommended system/subsystem performance requirements and providing engineering assessments of the test, analysis and demonstration compliance data for system performance. (Reference 2.0, G6)

2.3.3 The contractor shall provide technical expertise in conducting airworthiness impact determinations of field revealed deficiencies to include Category I and II Deficiency Reports and aircraft accident and incident reports. The contractor shall provide technical expertise to determine and define corrective actions, coordinate exhibit shipment and track status with field units and teardown sights, to include the manufacturer and U.S. Army designated sites. The contractor shall provide technical assistance to analyze exhibits via attendance at teardown investigations as required, review analysis results, evaluate failure modes and determine remedial actions. (Reference 3.19, SE5, 3.2 AW2)

2.3.4 The contractor shall provide technical assistance in reviewing engineering change proposals, deviations and waivers, source approval request packages authorizing alternate sources for competitive acquisition of spare parts for airworthiness impacts and technical adequacy of secondary item acquisitions and weapons system procurement. (Reference G24)

2.3.5 The contractor shall provide technical expertise in developing draft Airworthiness Releases (AWRs), Safety of Flight messages, and other Maintenance Advisory messages (Reference 3.2, AW1a,b,f)

2.3.6 The contractor shall provide technical expertise in conducting assessments of maintenance and overhaul technical manuals, procedures and data to insure technical accuracy of the airworthiness data and adequacy for continued airworthiness. The contractor shall provide technical expertise in evaluating changes to depot and field maintenance through change requests, Maintenance Engineering Orders, Maintenance Engineering Calls and technical support to field users. (Reference 3.19, SE6)

2.3.7 The contractor shall provide technical expertise in developing Air Worthiness Impact Statements (AWIS), System Safety Risk Assessments (SSRAs) safety assessment documentation in support of the Cargo PM Safety Program. The contractor shall provide technical assistance in conducting probability analyses to establish component and system reliability in support of safety working groups and review boards. (3.11 MP2)

2.3.8 The contractor shall provide technical expertise in evaluating, monitoring and maintaining H-47 Critical Safety Item (CSI) Parts List and CSI Critical Characteristics in support of the Army's Critical Safety Items Program and Aviation Engineering Directorate policies. (Reference 3.15, PA8d,e)

**2.4 Electronics and Avionics** The contractor shall provide Electronics and Avionics technical expertise and support to the PMO for H-47 programs through the following activities:

2.4.1 The contractor shall provide technical expertise in the generation, review and analysis of electronics and avionics requirements documents. (Reference 3.3 EAVS1)

2.4.2 The contractor shall perform analyses of existing government developed electronic system capabilities as a function of need, determine the usability of current rotorcraft equipment/systems, and recommend technical solutions and SOWs concerning the Electronic Architecture and avionics elements being considered for H-47 improvements/upgrades (Reference 2.0 G6, 3.3 EAVS2) .

2.4.3 The contractor shall provide technical expertise in interfacing with elements of Government activities on electronics and avionics systems. These Government activities include, PEOs, platform PMOs, PMO Aviation Systems, and the U.S. Army Communication and Electronics Command (CECOM). (Reference 2.0 G10)

2.4.4 The contractor shall provide technical expertise and input to the development of technical plans, studies, analyses, evaluations, forecasts, and schedules for the incorporation of electronic systems/subsystems. This support shall include providing technical expertise in the coordination of agreements that affect acquisition, funding, and delivery of required equipment with other controlling activities. (Reference 2.0 G18, 3.19 SE12)

2.4.5 The contractor shall provide technical expertise in the coordination and interface with the Aviation Users with regard to operational, functional, and mission matters relating to H-47 electronic and avionics. (Reference 2.0 G10)

2.4.6 The contractor shall provide technical expertise in the incorporation and implementation of the following aviation electronic disciplines: command, control and communication, navigation, cockpit controls/displays, processing systems, integrated systems/architectures and digital battlefield interoperability to include Improved Data Modem (IDM), Electronic Battle Command (EBC), and Force XXI Battle Command Brigade and Below (FBCB2) aviation electronic disciplines. (Reference 3.3 EAVS5).

2.4.7 The contractor shall provide technical expertise to the system design process and engineering actions that include design reviews, configuration audits, documentation reviews, technical program reviews, and technical interchange meetings for electronics and avionics systems. (Reference 3.19 SE3; 3.23 TD2d).

2.4.8 The contractor shall provide technical expertise in Avionics System/Software product line management, planning, and coordination in support of H-47 programs. This task shall include, the following:

2.4.8.1 The contractor shall provide technical expertise in the development, review, and evaluation of Software Configuration Management Plans and Product Line Management Plans which include: management methodologies; Lab configurations; Support structures; Configuration, Quality, Testing, and Evaluation processes; Organization and Responsibility structures; and Coordination activities and agreements. (Reference 3.22 SW1)

2.4.8.2 The contractor shall provide technical expertise to review, evaluate, and develop all system software documentation. Examples include Software Requirements Specifications (SRS), Software Design Descriptions (SDD), Software Test Plans (STP), and System Integration Tests (SIT) (Reference 3.3 EAVS1; 3.22 SW1).

2.4.8.3 The contractor shall provide technical expertise to support the coordination with contractors and Government agencies such as CECOM and PM Aviation Systems for software issues related to or impacting electronics and avionics equipment. (Reference 2.0 G10)

2.4.8.4 The contractor shall provide technical expertise during design implementation and coordination of engineering activities for obsolescence related upgrades for all avionics and electronics systems on the H-47. (Reference 3.19 SE1)

2.4.9 The contractor shall provide technical expertise in the investigation of technological advancements (equipment, data, and programs) for electronics and avionics

systems and assist in the evaluation of potential or planned applicability to H-47 aircraft. The contractor shall provide technical expertise in developing data to support solutions and to provide recommendations to H-47 programs. (Reference 2.0 G8).

**2.5 Software Engineering** The contractor shall provide technical expertise and assistance to H-47 programs in the area of Software Engineering through the following activities:

2.5.1 The contractor shall provide technical expertise by contributing to and reporting on formal software reviews, formal software quality reviews, and design/test implementation reviews/meetings to include: Computer Resource Working Groups, Technical Interchange Meetings, and formal/informal reviews/audits. (Reference 3.22 SW4).

2.5.2 The contractor shall provide technical expertise to facilitate coordination and maintenance of the Software Engineering Environment to include software support techniques and development tools proposed by prime contractors/subcontractors. (Reference 3.22 SW7)

2.5.3 The contractor shall provide technical expertise in software measurement, software quality, software reliability, software maintainability, and metrics. This support shall include the development of a software metrics collection and reporting plan that will be used to support the management decision process. (Reference 3.22 SW9).

2.5.4 The contractor shall provide technical expertise in evaluating and recommending actions with respect to the insertion of hardware, software, and architecture standards technology on H-47 programs. This support shall include evaluation of the software developer's compliance/migration plan's to current and future DoD/Army Technical Architectures to include the Common Operating Environment (COE). (Reference 3.22 SWd, SWe).

2.5.5 The contractor shall provide technical expertise and assistance in reviewing technical software documentation, data, contract requirements, plans and proposals and provide recommended solutions. (Reference 3.22 SW2)

**2.6 Test and Evaluation** The contractor shall provide technical expertise and assistance in H-47 programs test and evaluation (T&E) planning, analysis and management. This support shall consist of the following tasks.

2.6.1 The contractor shall provide technical expertise to prepare, facilitate coordination, maintain, update, review, and evaluate T&E documentation such as test and evaluation master plans (TEMP), evaluation and assessment plans; test plans, procedures, and reports; design plans; avionics and software T&E documentation; T&E matrices, crosswalks, schedules; T&E issues, criteria, characteristics, and parameters; and T&E associated annexes and attachments. (Reference 3.24 TE1)

- 2.6.2 The contractor shall provide technical expertise to monitor, observe, witness, facilitate coordination, and report on tests, demonstrations, special investigations, and inspections. (Reference 3.24 TE2)
- 2.6.3 The contractor shall provide technical expertise for independent support services in areas of H-47 T&E technical project management. (Reference 3.24 TE5a)
- 2.6.4 The contractor shall provide technical expertise for the design, development, and reporting on test methodologies and technologies. (Reference 3.24 TE5b)
- 2.6.5 The contractor shall provide H-47 T&E support of future T&E requirements. (Reference 3.24 TE5c)
- 2.6.6 The contractor shall provide technical expertise in the analysis of test range capabilities and support of facility and asset studies. (Reference 3.24 TE5e)
- 2.6.7 The contractor shall provide Ground & Flight Testing technical expertise in support of the H-47 testing to monitor, observe, witness, facilitate coordination, and report on tests, demonstrations, special investigations, and inspections. The contractor shall provide recommendations and findings to appropriate IPT and project leads. (Reference 3.24 TE2)
- 2.6.8 The contractor shall provide Electromagnetic Environmental Effects (E3) testing technical expertise to monitor, observe, witness, facilitate coordination, and report on tests, demonstrations, special investigations, and inspections. The contractor shall provide recommendations and findings to the IPT lead. (Reference 3.24 TE2)
- 2.6.9 The contractor shall provide technical expertise by interfacing with the avionics team on avionics test issues including, the Aviation Mission Planning System (AMPS); IDM; and Communication, Navigation, and Survivability Equipment. Continuously coordinate with all H-47 functional teams and project leads to plan H-47 testing. (Reference 3.24 TE3)
- 2.6.10 The contractor shall provide technical test expertise during the interchange of technical test information and data with contractors and Army and DoD test agencies on matters relating to the Developmental Test (DT), Integrated Test, Certification Test, Live Fire Test, and Operational Test (OT) planning. (Reference 3.24 TE2a-e)
- 2.6.11 The contractor shall provide technical input for the development, tracking, and analysis of combined DT/OT (Integrated testing) technical databases. (Reference 3.24 TE3a, d)
- 2.6.12 The contractor shall provide technical expertise in support of test related H-47 program activities to include: Mission Performance Demonstrations, Maintenance Demonstrations, Training, and Publication Verification/Validation. (Reference 3.24 TE2)

2.6.13 The contractor shall provide technical expertise to Program Management elements within the Cargo PMO on matters pertaining to test and test support. (Reference 3.24 TE5)

2.6.14 The contractor shall provide technical expertise to the development of test resource plans to support H-47 testing. (Reference 3.24 TE1)

2.6.15 The contractor shall provide technical input and expertise on all matters pertaining to the effective management and control of test cost and schedule. (Reference 3.24 TE1, TE2a-e)

2.6.16 The contractor shall provide technical expertise and support in the area of Cybersecurity testing, assessment of results, remediation recommendations, and suitability thereof; and evaluations of implemented Cybersecurity controls. (Reference 3.24 TE2a-e)

**2.7 System Safety and Environmental** The contractor shall provide technical expertise and support in the areas of System Safety and Environmental for H-47 programs through the following activities:

2.7.1 The contractor shall provide technical expertise and support in system safety hazard analyses and risk assessment. This support shall include participation in the System Safety and Environmental Working Group (SSEWG) process. The contractor shall generate SSEWG draft agendas and meeting minutes in accordance with DI-ADMN-81505 (CDRL A006). (Reference 3.11 MP2c)

2.7.2 The contractor shall provide technical expertise, recommendations, and support to ensure compliance with environmental and safety laws and regulations through applied management of safety and environmental issues. (Reference 3.4: ENV/SAF1, ENV/SAF3).

2.7.3 The contractor shall provide technical expertise and support in reviewing and evaluating system safety documentation for technical competence, completeness and accuracy, such as materiel contractor proposed system safety program plans and safety assessments. (Reference 3.11 MP2a)

2.7.4 The contractor shall provide the Government with recommended changes to the materiel contractor system safety documentation. (Reference 3.11 MP2b)

2.7.5 The contractor shall provide technical expertise in support of the Safety related meetings conducted by safety organizations such as the PMO Safety Office, PEO Aviation Safety Office, AMCOM Safety Office, etc. The contractor shall provide technical expertise and support to complete action items from these meetings. (Reference 3.11 MP2c)

2.7.6 The contractor shall provide technical expertise for review of hardware contracts to ensure there are no requirements for Class I Ozone Depleting Chemicals (ODC's). If there are requirements where ODC's cannot be removed, the contractor shall provide technical expertise recommendations to the PMO in developing the waiver for their retention. (Reference 3.23 TD1g)

2.7.7 The contractor shall provide technical expertise and assistance in conducting reviews of prime contractor(s) submitted environmental documentation for compliance with contract requirements. (Reference 3.4: ENV/SAF1, ENV/SAF5)

2.7.8 The contractor shall provide technical expertise to ensure awareness of compliance on the part of the Cargo Helicopter PMO with the major federal/state environmental laws and DoD/Army regulations to include recommended action when non-compliant. (Reference 3.4 ENV/SAF1)

2.7.9 The contractor shall provide technical expertise and recommendations for the generation of required environmental documentation, such as Environmental Assessments, Record of Environmental Consideration, and Findings of No Significant Impact, for projects/contracts in accordance with the major federal/state environmental laws and DoD/Army regulations. (Reference 3.4 ENV/SAF1).

2.7.10 The contractor shall provide technical expertise to assist in the preparation of system safety and environmental information for presentation at the Users conferences on the H-47 program and related technical reviews. (Reference 2.0 G17).

2.7.11 The contractor shall provide technical expertise to review environmental impacts/risks, coordinate and perform environmental reporting requirements, and incorporate safety and environmental impacts/risks into business planning and management processes for H-47 programs. (Reference 3.4 ENV/SAF5)

2.7.12 The contractor shall provide technical advice and input in the preparation of Safety of Flight and Aviation Safety Action Messages for transmittal to the field. (Reference 3.19 SE11)

**3.0 TRAVEL:** Travel may be required in performance of this PWS. The contractor must receive approval from the COR prior to performing any travel. A trip report is required within 5 days of completion of travel trip in accordance with DI-ADMN-81505 (CDRL-A006). Actual destinations and frequency of travel trips is subject to change.

<u>DESTINATION</u>	<u># of Trips per year</u>
Ft. Campbell KY	15
Ft. Rucker, AL	15
FT. Eustis, VA	15
Aberdeen proving Grounds, VA	10

Cedar Rapids, IA	20
Philadelphia, PA	30
Phoenix, AZ	20
Washington, D.C.	20

**4.0 SECURITY:** The Contractor shall provide security to a level necessary to meet the requirements of the tasks requested. Contractor's work effort shall not be above the level of SECRET. Contractor personnel shall retain a SECRET level clearance for the duration of the task order. Contractor shall comply with all applicable security classification guides. The following Security Classification Guides are applicable to this effort:

- CH-47 Security Classification Guide dated, 08 Sep 2010

4.1 AT Level I Training (general). All prime contractors, including subcontractors identified by the Government, working in CONUS shall complete AT Level I awareness training within 90 days calendar after contract award. The contractor shall maintain certificates of completion for inspection purposes. AT Level I training is available at <https://atlevel1.dtic.mil/at>.

4.2 AT Awareness Training for Contractor Personnel Traveling Overseas. All contractor employees, including subcontractor employees required to travel overseas as a condition of this contract will receive Government provided AT awareness briefing specific to the destination countries. Additionally, all contractor employees, including subcontractor employees stationed or deployed in OCONUS contingency operations areas or designated combat zones will receive Government provided AT awareness training specific to the area of responsibility (AOR) at their overseas location. Specific AOR training content is directed by the combatant commander, with the unit Antiterrorism Officer (ATO) being the local point of contact.

4.3 Access to General Protection/Security Policies and Procedures. All contractor employees, including subcontractor employees stationed or assigned on a Government facility shall comply with applicable installation, facility access procedures and local security policies (provided by the Government security personnel). The contractor workforce shall comply with all personal identification verification requirements as directed by DoD, HQDA, and/or local policy. In addition to the changes otherwise authorized by the changes clause in this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security processes or procedures. All contractors stationed or deployed in OCONUS contingency operations areas or designated combat zones shall, upon request, provide all information required for background checks to meet installation access requirements to be accomplished by authorized Government personnel.

4.4 iWATCH Training. The contractor and identified associated sub-contractors shall brief all employees stationed on Army installations, facilities, or controlled areas on the local iWATCH program (training standards provided by the requiring activity ATO). This

training shall be completed within 90 calendar days of new employees commencing performance at the specified location or effective date of incorporation of this requirement whichever is first. IAW AR 381-12, Threat Awareness and Reporting Program (TARP), 4 Oct 10, contractors will report threat related incident, behavioral indicator matters of Counterintelligence (CI) interest specified in chapter 3, to the Facility Security Officer (FSO), the nearest military CI office, the Federal Bureau of Investigations (FBI), or the Defense Security Service (DSS). Contractor Employees working as an integral part of the Army organization are required to complete annual Threat Awareness training. Contractor FSOs will ensure that all applicable AR 321-12 requirements are implemented for personnel who work at contractor facilities.

4.5 Access to Government IT Systems. Contractors requiring access to Government IT systems must adhere to the requirement of AR 25-2, Information Technology (IT), Rapid Action Revision (RAR), Issue Date: 23 March 2009, on Government installations. All contractor employees and associated sub-contractor employees shall complete the DoD IA awareness training before issuance of network access and annually thereafter. All contractor employees working IA/IT functions shall comply with DoD and Army training requirements in DoDD 8570.01, DoD 8570.01-M and AR 25-2 within six months of employment. Contractor access to SIPRNET via government accounts is restricted to only sites directly related to meeting the requirements of this contract as validated by the COR and/or the Performance Work Statement (PWS). The contractor will not access INTELLINK-S while on the SIPRNET without formal access authorization of the COR and AMSAM-ISI. SIPRNET access via government accounts may not be subcontracted without prior written authorization of the Contracting Officer, COR and AMSAM-ISI in accordance with National Industrial Security Program Operating Manual (NISPOM), DOD 5220.22-M, dated February 2006, paragraph 9-304.

4.6 OPSEC Training for On-Post Contractors. All contractor employees, including subcontractor employees, stationed on Army installations, facilities, or controlled areas to include OCONUS contingency operations areas or designated combat zones shall complete OPSEC Level I training within 90 calendar days of starting work on the contract or effective date of incorporation of this requirement whichever is first. All contractor employees shall complete annual OPSEC training. The contractor shall maintain certifications of completion for each affected contractor employee and subcontractor employee for inspection purposes. OPSEC Level I training is available at <https://www.iad.gov/ioss/index>.

4.7 Contractors Authorized to Accompany the Force. DFARS Clause 252.225-7040, Contractor Personnel Authorized to Accompany U.S. Armed Forces Deployed Outside the United States. The clause shall be used in solicitations and contracts that authorize contractor personnel to accompany U.S. Armed Forces deployed outside the United States in contingency operations, humanitarian or peacekeeping operations, or other military operations or exercises, when designated by the combatant commander. The clause discusses the following AT/OPSEC-related topics: required compliance with laws and regulations, pre-deployment requirements, required training (per combatant command guidance), and personnel data required.

**5.0 GOVERNMENT FURNISHED PROPERTY.** The effort described under this PWS shall be performed On-Site. Through performance of this effort the government shall provide documentation, manuals, access to government data bases, access to office space, furniture, telephone services, normal office supplies; computers, computer network access, and peripheral equipment.

The Government shall provide access to files at the PMO and AMCOM to perform the task identified above.

Wireless devices will be provided to the contractor for performance of this task order.

**6.0 DELIVERABLES:** Data shall be delivered in accordance with this PWS and the attached Contract Data Requirements List (CDRL).

**6.1** DI-MISC-80508B, CDRL A002, Technical Report-Study/Services

**6.2** DI-MGMT-80227, CDRL A003, Contractor's Progress, Status and Management Report

**6.3** DI-ADMN-81505, CDRL-A006, Report, Record of Meeting/Minutes

**6.4** DI-MGMT-81467, CDRL A011, Cost/Schedule Status Report (C/SSR)

The contractor shall submit a monthly Contractor's Progress, Status, and Management Report in accordance with DI-MGMT-80227 (CDRL A003) and a Cost/Schedule Status Report in accordance with DI-MGMT-81467 (CDRL A011). The reports shall cover the following areas: Scope of the Task Order, Current Status of Performance/Work, Current Status of Costs, Explanation of Current Milestones, Variance Analysis, and Detailed Billing Information showing a breakout by labor category to include the labor rate, hours expended, and the calculated value of costs. In addition, the report shall show the current and cumulative billing.

**7.0 ACCOUNTING FOR CONTRACTOR SUPPORT:** The contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this task order for the Project Manager for Cargo Helicopters (H-47) via a secure data collection site. The contractor is required to completely fill in all required data fields using the following web address: <http://www.ecmra.mil/>, and then click on "Department of the Army CMRA" or the icon of the DoD organization that is receiving or benefitting from the contracted services.

Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year, beginning with 2013. Contractors may direct questions to the help desk by clicking on "Send an email" which is located under the Help Resources ribbon on the right side of the login page of the applicable Service/Component's CMR website.

**8.0 PERFORMANCE OBJECTIVES/METRICS:** The performance objectives, metrics, and incentives discussed below have been established for utilization under

EXPRESS task orders and are set forth at Appendix A, Performance Requirements Summary Matrix.

**8.1** This performance-based service task order incorporates the following performance objectives: (1) Delivery of high quality technical performance; (2) Adherence to TO schedule, milestone, and delivery requirements; and (3) Efficient and effective control of labor resources. It is the contractor's responsibility to employ the necessary resources to ensure accomplishment of these objectives. The Government's assessment of the contractor's performance in achieving these objectives will utilize the standards, acceptable quality levels, surveillance methods, and performance incentives described in the Performance Requirements Summary matrix set forth in Appendix A. The performance incentives will be implemented via the Government's past performance assessment conducted in accordance with Part 42 of the Federal Acquisition Regulation (FAR), as applicable, and the "Task Order Performance" criteria of the annual award term evaluation, Basic BPA provision 45.

**8.2** The performance objectives, standards, and acceptable quality levels will be applied on a TO basis with performance incentives to be implemented on an annual basis. The Government will conduct informal interim counseling sessions with the contractor's Program/TO Manager to identify any active TO performance that is not meeting the acceptable quality levels. These sessions will be conducted at least on a quarterly basis in order to provide the contractor a fair opportunity to improve its performance level.

**8.3** The Control of Labor Resources criteria will be reflected under the "Cost" category of the performance assessment. Although the criteria of Business Relations and Management of Key Personnel are not specifically included in the Performance Requirements Summary Matrix, the overall performance assessment will continue to include these criteria.

**8.4** The contractor will be notified, in writing, of the Government's determination of its performance level for each performance objective including all instances where the contractor failed to meet the acceptable quality level.

APPENDIX A

PERFORMANCE REQUIREMENTS SUMMARY MATRIX

PERFORMANCE OBJECTIVE	PERFORMANCE STANDARD	ACCEPTABLE QUALITY LEVEL (AQL)	METHOD OF SURVEILLANCE	PERFORMANCE INCENTIVE
<p>High Quality Technical Performance</p>	<p>TO requirements met with little rework/re-performance required and with few minor and no significant problems encountered</p> <p>Performance meets all technical and functional requirements, and is highly responsive to changes in technical direction and/or the technical support environment</p> <p>Assessments, evaluations, analyses, recommendations, and related input are thorough, reliable, highly relevant to TO requirements, and consist of substantial depth and breadth of subject matter</p> <p>Deliverable reports contain all required data and meet all applicable CDRL requirements</p>	<p>Contractor delivery of products and/or services meets all TO requirements. Performance occurs with no required re-performance/rework at least 80% of time. Problems that are encountered are minor and resolved in a satisfactory manner.</p>	<p>Routine Inspection of Deliverable Products/Services</p>	<p>Assignment of performance rating for QUALITY criteria:</p> <p><u>EXCEPTIONAL</u> Performance and deliverables meet all and exceed many TO requirements. Performance delivered with no required re-performance/rework at least 95% of time; problems that are encountered are minor and resolved in a highly effective manner.</p> <p><u>VERY GOOD</u> Performance and deliverables meet all and exceed some TO requirements. Performance delivered with no required re-performance/rework at least 90% of time; problems that are encountered are minor and resolved in an effective manner.</p> <p><u>SATISFACTORY</u> Performance and deliverables meet all TO requirements. Performance delivered with no re-</p>

				<p>performance/rework at least 80% of time; problems that are encountered are minor and resolved in a satisfactory manner.</p> <p><u>MARGINAL</u> Some TO requirements not met and/or performance delivered with re-performance/rework required more than 20% of time. Problems encountered were resolved in a less than satisfactory manner.</p> <p><u>UNSATISFACTORY</u> Many TO requirements not met. Numerous re-performances/rework required. Substantial problems were encountered and inadequate corrective actions employed.</p>
Adherence to Schedule	TO milestones, periods of performance, and/or data submission dates are met or exceeded	Contractor meets TO delivery requirements at least 80% of the time (excluding gov't caused delays)	Routine Inspection of Deliverable Products/Services	<p>Assignment of performance rating for SCHEDULE criteria:</p> <p><u>EXCEPTIONAL</u> TO milestones/ performance dates met or exceeded at least 100% of time (excluding government caused delays)</p> <p><u>VERY GOOD</u> TO milestones/ performance dates met or exceeded at least 90% of time (excluding government caused delays)</p>

				<p><u>SATISFACTORY</u> TO milestones/ performance dates met or exceeded at least 80% of time (excluding government caused delays)</p> <p><u>MARGINAL</u> TO milestones/ performance dates met less than 80% of time (excluding government caused delays)</p> <p><u>UNSATISFACTORY</u> TO schedule/performance dates met less than 70% of time</p>
Control of Labor Resources	Contract labor mix is controlled in efficient and effective manner	Actual TO labor resource mix is maintained within 20% of originally awarded TO resource mix	Routine Inspection of TO Performance, Performance/Cost Reports, Payment Invoices	<p>Assignment of performance rating for COST CONTROL criteria:</p> <p><u>EXCEPTIONAL</u> Actual TO resource mix maintained within 10% of originally awarded TO resource mix</p> <p><u>VERY GOOD</u> Actual TO resource mix maintained within 15% of originally awarded TO resource mix</p> <p><u>SATISFACTORY</u> Actual TO resource mix maintained within 20% of originally awarded TO resource mix</p> <p><u>MARGINAL</u> Actual TO resource mix maintained within 25% of</p>

				originally awarded TO resource mix  <u>UNSATISFACTORY</u> Actual TO resource mix exceeds 25% of originally awarded TO resource mix
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