

PERFORMANCE WORK STATEMENT

TECHNICAL SERVICES IN SUPPORT OF THE DEVELOPMENT AND IMPLEMENTATION OF CONDITION BASED MAINTENANCE (CBM)

1.0 MISSION OBJECTIVE: The AMCOM G-3 serves as the principal staff for the Aviation and Missile Life Cycle Management Command's implementation of Condition Based Maintenance (CBM). CBM will directly increase the operational readiness for Army Aviation and reduce the maintenance burden on the soldier. These key elements will increase Army Aviation's effectiveness in supporting the long term Global War on Terrorism (GWOT). The CBM initial capability objective is FY 2011 with full capability, IAW Department of the Army G-4 directives, by FY 2015. The objective of this task order is to provide technical support including engineering analysis, development, implementation and sustainment of a relational database(s), as related to CBM, technical expertise regarding resource requirements and industry/academia initiatives in the areas of CBM, development of program integration schedules, and risk analysis/risk mitigation for CBM. This Performance Work Statement (PWS) describes the contractor's required tasks, skills, documentation, and deliverables for the AMCOM G3 to achieve the CBM objectives.

2.0 PERFORMANCE REQUIREMENTS: The contractor, as an independent contractor and not as an agent or employee of the Government, shall provide the manpower and materials necessary to accomplish the tasks listed below. The contractor may be required to interface and coordinate with other Government contractors in performing these efforts.

2.1 CBM Technical Support Requirements: The following efforts are to be performed off-site unless otherwise specified below (G1, G8, G10, G13, G16, G17, G18, G21, IO2, SE14, SS3):

2.1.1 The contractor shall provide the technical expertise on basic research and/or programs necessary to advance technologies relevant to CBM, including technical support for the correct sequencing of critical events and timelines to achieve CBM program goals.

2.1.2 The contractor shall provide technical expertise for consideration and integration of latest technical advances as these factors relate to the implementation of CBM.

2.1.3 The contractor shall provide continuing technical liaison with other Government centers, laboratories, and agencies, contractors, and universities on the technical areas relevant to CBM.

2.1.4 The contractor shall perform analyses and provide technical recommendations relating to trade-off studies and risk assessments of competing technologies or systems.

2.1.5 The contractor shall attend and provide technical expertise to conferences/briefings/meetings/working groups/teams to include creation and delivery of high quality graphics and briefing material and tracking of action items. Presentation material shall be prepared IAW DI-ADMN-81373 and submitted IAW CDRL A004. Record of meetings/action items shall be prepared IAW DI- ADMN-81505 and delivered IAW CDRL A006.

2.1.6 The contractor shall provide scientific, engineering, and technical expertise for studies, evaluation of technologies, development, review, and maintenance of technical documentation/repositories and databases as related to the implementation of CBM and associated areas.

2.1.7 The contractor shall provide documentation or recommend revisions to Government documents such as letters of agreement, memoranda of understanding, technical reports, and training documentation as they relate to CBM development and implementation. Documentation and recommended revisions shall be prepared IAW DI-ADMN-80925 and submitted IAW CDRL A018.

2.1.8 The contractor shall develop training workshops for the Government in technical tools used to analyze and improve technical processes/awareness relevant to accessing and using CBM related data. Training material for workshops shall be prepared IAW DI-ADMN-81373 and submitted IAW CDRL A004.

2.1.9 The contractor shall facilitate the coordination of cost reduction initiatives/programs, such as value engineering and operation and support cost reduction, where relevant to CBM objectives.

2.1.10 The contractor shall provide technical expertise in conducting market research and evaluations of non-developmental and commercial off the shelf items as presented by industry to determine technical feasibility and/or functional adequacy for current and future application relevant to CBM.

2.1.11 The contractor shall provide independent evaluation/analysis of analytical model and simulation plans or programs developed by third parties of systems, subsystems, and components as relevant to CBM.

2.2 Software Engineering Tasks to Achieve CBM: The following efforts are to be performed off-site unless otherwise specified below (SW1, SW4, SW8, SW10, SW11, SW13):

2.2.1 The contractor shall provide broad based expertise and capability to design, develop, implement, and deploy an analytical data warehouse which transitions CBM data management from the Proof of Principle to an enterprise system. The resulting system of record shall be capable of supporting the management of data produced by sensors on board aircraft, associated maintenance management information systems, and other data sources identified by the Government, to include, but not limited to Standard

Army Management Information Systems (STAMIS), and establish the relationships between the various data sources. The data warehouse development process shall comply with industry best practices and appropriate Government directives.

2.2.2 The contractor shall provide expertise in performance monitoring, database tuning, latency management, change data capture, and efficient/effective access by customers.

2.2.3 The contractor shall provide software documentation including configuration management plans, and software development plans. Configuration Management Plans shall be prepared IAW DI- CMAN-80858B and delivered IAW CDRL A053. Software Development Plans shall be prepared IAW DI-IPSC-81427A and delivered IAW CDRL A034.

2.2.4 The contractor shall provide reports on formal reviews, data quality management, and design/test implementation reviews. Reports shall be prepared IAW DI-MISC-80711A and delivered IAW CDRL A016.

2.2.5 The contractor shall provide recommendations to the Government on support techniques for the Analytical Data Warehouse (ADW).

2.2.6 The contractor shall develop hardware and software requirements definition/analysis, including data movement, transformation/normalization, and management tools.

2.2.7 The contractor shall perform investigations/assessments concerning relevant issues associated with the transition of the analytical data warehouse sustainment to the Government.

2.2.8 The contractor shall perform interoperability engineering and interoperability tests to include analysis of system requirements, development of plans/procedures for interface with other systems, analysis of standards, and post test analysis.

3.0 TRAVEL: Travel may be required in performance of this PWS. The contractor shall receive approval from the COR prior to performing travel. Trip reports shall be prepared IAW DI-ADMN-81505 and delivered IAW CDRL A006.

4.0 SECURITY: The contractor shall provide security at a level necessary to meet the requirements of the tasks requested. Contractor's work effort shall not be above the level of SECRET. Contract personnel shall retain a SECRET level clearance for the duration of the task order.

5.0 GOVERNMENT FURNISHED PROPERTY – None. Performance is Off Site. The Contractor shall perform all tasks using their own resources.

6.0 DELIVERABLES:

6.1 A Contractor's Progress, Status and Management Report shall be submitted monthly IAW CDRL A003, Data Item Number DI-MGT-80227.

6.2 The contractor shall deliver graphics and briefing material, IAW CDRL A004, Data Item Number DI-ADMN-81373.

6.3 The contractor shall deliver records of meetings/action items and trip reports IAW CDRL A006, Data Item Number DI-ADMN-81505.

6.4 The contractor shall deliver Scientific and Technical Reports IAW CDRL A016, Data Item Number DI-MISC-80711A.

6.5 The contractor shall deliver Software Development Plans IAW CDRL A034, Data Item Number DI-IPSC-81427A.

6.6 The contractor shall deliver Database Design Descriptions IAW CDRL A041, Data Item Number DI-IPSC-81437A.

6.7 The contractor shall deliver a Contractor's Configuration Management Plan IAW CDRL A053, Data Item Number DI-CMAN-80858B.

6.8 The contractor shall deliver documentation/recommended revisions to government documents IAW CDRL A018, Data Item Number DI-ADMN-80925.

7.0 ACCOUNTING FOR CONTRACTOR SUPPORT:

The Office of the Assistant Secretary of the Army (Manpower & Reserve Affairs) operates and maintains a secure Army data collection site where the contractor will report ALL contractor manpower (including subcontractor manpower) required for performance of this task order. The contractor is required to completely fill in all the information in the format using the following web address:

<https://contractormanpower.army.pentagon.mil>. The required information includes: (1) Contracting Office, Contracting Officer, Contracting Officer's Technical Representative; (2) Contract number, including task and delivery order number; (3) Beginning and ending dates covered by the reporting period; (4) Contractor name, address, phone number, e-mail address, identity of contractor employee entering data; (5) Estimated direct labor hours (including subcontractors); (6) Estimated direct labor dollars paid for the reporting period (including subcontractors); (7) Total payments (including subcontractors); (8) Predominant Federal Service Code (FSC) reflecting services provided by contractor (and separate predominant FSC code for each subcontractor if different); (9) Estimated data collection cost; (10) Organizational title associated with the Unit Identification Code (UIC) for the Army Requiring Activity (the Army Requiring Activity is responsible for providing the contractor with its UIC for the purposes of reporting this information); (11)

Locations where contractor and subcontractors perform the work (specified by zip code in the United States and nearest city, country, when in an overseas location, using standardized nomenclature provided on website) (12) Presence of deployment or contingency contractor language; and (13) Number of contractor and subcontractor employees deployed in theater for the reporting period (by country). As part of its submission, the contractor will also provide the estimated total cost (if any) incurred to comply with this reporting requirement. Reporting period will be the period of performance not to exceed 12 months ending September 30 of each government fiscal year and must be reported by 31 October of each calendar year. Contractors may use a direct XML data transfer to the database server or fill in the fields on the website. The XML direct transfer is a format for transferring files from a contractor's systems to the secure web site without the need for separate data entries for each required data element at the web site. The specific formats for the XML direct transfer may be downloaded from the web site.

8.0 PERFORMANCE OBJECTIVES/METRICS:

8.1 The performance objectives, metrics, and incentives discussed below have been established for this task order and are set forth at Appendix A, Performance Requirements Summary Matrix.

8.1.1 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 shall 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.

8.1.2 The performance objectives, standards, and acceptable quality levels shall 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.

8.1.3 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.

8.1.4 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><i>Performance meets all technical and functional requirements, and is highly responsive to changes in technical direction and/or the technical support environment</i></p> <p><i>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</i></p> <p><i>Deliverable reports contain all required data and meet all applicable CDRL requirements</i></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> <i>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.</i></p> <p><u>VERY GOOD</u> <i>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.</i></p> <p><u>SATISFACTORY</u> <i>Performance and deliverables meet all TO requirements. Performance delivered with no re-performance/rework at least 80% of time; problems that are encountered are minor and resolved in a satisfactory manner.</i></p> <p><u>MARGINAL</u> <i>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.</i></p> <p><u>UNSATISFACTORY</u> <i>Many TO requirements not met. Numerous re-performances/rework required. Substantial problems were encountered and inadequate corrective actions employed.</i></p>

<p>Adherence to Schedule</p>	<p>TO milestones, periods of performance, and/or data submission dates are met or exceeded</p>	<p>Contractor meets TO delivery requirements at least 80% of the time (excluding gov't caused delays)</p>	<p>Routine Inspection of Deliverable Products/Services</p>	<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>
<p>Control of Labor Resources</p>	<p>Contract labor mix is controlled in efficient and effective manner</p>	<p>Actual TO labor resource mix is maintained within 20% of originally awarded TO resource mix</p>	<p>Routine Inspection of TO Performance, Performance/ Cost Reports, Payment Invoices</p>	<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 originally awarded TO resource mix</p> <p><u>UNSATISFACTORY</u> Actual TO resource mix exceeds 25% of originally awarded TO resource mix</p>