Performance Work Statement (PWS)

Marine Air Ground Task Force (MAGTF) Tactical Warfare Simulation (MTWS)

11/24/2014

Version 1.0
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Performance Work Statement (PWS)

Marine Air Ground Task Force (MAGTF) Tactical Warfare Simulation (MTWS)

Vision Statement

This PWS delineates requirements to support the MAGTF Tactical Warfare Simulation (MTWS). These efforts include post deployment software support, new development software support, and system operation training.

1 Introduction

The MAGTF Tactical Warfare Simulation (MTWS) is the Marine Corps only constructive, aggregate-level simulation system used to support the training of Marine commanders and their battle staffs in MAGTF war-fighting principles/concepts and as well as associated command and control procedures.

Using complex computer-simulated behavior models, MTWS provides an interactive, decision-based, real-time, war game representing the six war-fighting functional areas of fires, command and control, aviation, logistics, maneuver, and intelligence. It’s modeling breadth and flexibility enables users to represent and exercise a wide variety of combat scenarios to prepare leaders to face the military challenges of today's world.

MTWS is designed to support the training of commanders and their staffs in exercises involving live and simulated land, air and Naval forces at all operational command levels. The system supports all levels of command throughout the Marine Expeditionary Force (MEF) and Joint Task Force (JTF). MTWS can be used as a multi-sided war game, including red, blue, civilian, and non-aligned sides. The system can also be used to validate specific operational plans against a variety of enemy and environmental situations. Thus command personnel may examine alternative tactical solutions on a “what if” basis.

MTWS incorporates a full spectrum of combat models including; Ground Combat, Air Operations, Fire Support, Amphibious Operations, Combat Engineering, Intelligence and Logistics. Because the system is designed to provide realistic representation of forces from any military organization, a method for defining any existing or new weapons systems is provided via a flexible user defined parametric database. As a result, users of MTWS are not constrained by the limitations of pre-defined weapons and tactics.

The simulation can be played in either real-time or at an accelerated pace allowing commanders to war game operational plans that may have otherwise been constrained by time/space considerations. Also included is an after action capability that affords commanders an opportunity to conduct “in stride” reviews of staff actions and re-attack complex situation if desired in order to examining alternative tactical solutions on a "what if" basis.
MTWS provides the following training advantages in representing the Marine Corps in service as well as joint exercises:

- Multi-sided support for combined land, sea, air and amphibious operations. Can support up to sixteen unique sides with user-defined rules of engagement.
- Model support for aggregate units from team to corps echelon levels. Can support up to 2000 units.
- Support for 100+ simultaneous user workstations.
- War game training that is affected by weather, fatigue, time-of-day and weapon characteristics.
- Mapping, terrain features and elevation defined by real-world data.
- Support for after-action analysis and review.
- A user-definable parametric database of equipment and unit organizations.
- An enhanced interface to deployed tactical Command, Control, Communications, Computer and Intelligence (C4I) systems.
- Support for exercises at multiple remote sites.
- A standardized interface to other military simulation systems.
- Supports bilateral and multilateral combined operations.
- Easily deployed to austere environments due to small footprint and minimal logistics support requirements.

1.1 Mission
The primary mission of MTWS is to provide the Operating Forces and Supporting Establishment a constructive simulation that implements doctrinal conceptual models of the joint operational environment. It enables training and education of echelon relevant Mission Essential Tasks/Mission Essential Task Lists (METs/METLs) for all Marine Air Ground Task Force (MAGTF) staff elements across all warfighting functions.

1.2 Background
The MTWS system is currently in the Operations and Support phase. Current sustainment activities include fixing software defects in the system, modifying the system to maintain relevancy with changes in Marine Corps doctrine, capability, training, tactics and procedures, and support of the MTWS Authority to Operate (ATO). The MTWS program also develops new capabilities as defined by the user community and the Capability Production Document,
signed July 2013, which include modifications of the system as necessary to support changes in the Joint Live Virtual Constructive federation, transition to a virtualized/cloud based architecture, development of a DIS interface, and C4I interface support.

MTWS utilizes a CCB process to identify and validate new requirements or defects that need to be fixed. That process utilizes a rating scale to identify and prioritize those requirements. The MTWS program utilizes a database to maintain all SCRs that have been voted on or are to be voted. Prior to beginning development of a new version the Government works with the developer to allocate SCRs and define the capabilities to be implemented in a version release.

The previous contract (M67854-12-C-8005) was a Sole Source, Firm Fixed Price (FFP) contract with a period of performance ending 31 Mar 2015. As a result of this contract, the Government obtained software rights for future MTWS contract actions. This purpose of this PWS is to continue development of the MTWS program through maintaining existing capabilities and development of new capabilities enabling the Marine Corps to field improved versions of the simulation and ensure support for and training of the user community on the system.

Program Manager, Training Systems (PM TRASYS), Marine Corps Systems Command (MCSC) is providing project management, planning, coordination, oversight, and reporting on MTWS PDSS and new development efforts.

1.3 Scope

The purpose of this acquisition is to continue Post Deployment Software Support (PDSS) for the Marine Air-Ground Task Force (MAGTF) Tactical Warfare Simulation (MTWS) system and development of new MTWS system capabilities.

A yearly release of the software is anticipated to incorporate any PDSS changes and new development.

PDSS efforts shall include:

- The maintenance of the fielded version of MTWS.
  - This includes software analysis, design, development, integration, testing, and documentation updates, as required to ensure support of the fielded baseline.
  - Any software defects identified by the user community that demonstrate degraded functionality from the MTWS baseline/existing capabilities shall be mitigated by the next release of MTWS.
    - Any defects identified that result in an inability for the user community to train shall be immediately mitigated, especially if it affects an ongoing training event that is being conducted. Mitigation can include an
operational workaround, software patch or any other appropriate technique.

- Program support for the management of the overall program to include all task orders approved by the Government.

- The yearly maintenance, release, and distribution of the MTWS application, to include the Model Application Network (MAN), Model System Control (MSC), Model Display Station (MDS), Combat Analysis and Review Toolkit (CART), CART Client, Apex, Command, Control, Communications, Computers, and Intelligence (C4I), Model HLA Bridge (MHB), and any other future components of the MTWS baseline.
  - The yearly maintenance will also include the configuration management, system administration, information assurance, system architecture, and program management to support any releases of an MTWS system.

- PDSS does not include changes to external C4I systems or any other external system but does include maintenance, as necessary, of the MTWS interfaces to those systems to ensure that the functionality is carried forward in future versions of MTWS.

- Development, deployment, and management of an MTWS Customer Relationship Management Portal.

New development efforts will be defined and prioritized for work by the Government and provided to the contractor by task orders. Task orders may be released at any point during the period of performance of this contract. New development efforts shall include the software analysis, design, development, testing, integration, verification, documentation, and support to incorporate a new capability into the MTWS system.

MTWS software efforts both for PDSS and new development are defined as Software Change Requests (SCR). The contractor shall submit a resource estimate for each new development SCR to be worked for a given release. Resource estimates shall define the total cost to complete each SCR associated with the release.

2 General Requirements
This section describes the general requirements for this effort. The following sub-sections provide details of various considerations on this effort.

2.1 Non-Personal Services
The Government shall neither supervise contractor employees nor control the method by which the contractor performs the required tasks. Under no circumstances shall the Government assign tasks to, or prepare work schedules for, individual contractor employees. It shall be the
responsibility of the contractor to manage its employees and to guard against any actions that are of the nature of personal services, or give the perception of personal services. If the contractor believes that any actions constitute, or are perceived to constitute personal services, it shall be the contractor's responsibility to notify the Procuring Contracting Officer (PCO) immediately.

2.2 Business Relations
The contractor shall successfully integrate and coordinate all activity needed to execute the requirement. The contractor shall manage the timeliness, completeness, and quality of problem identification. The contractor shall provide corrective action plans, proposal submittals, timely identification of issues, and effective management of subcontractors. The contractor shall seek to ensure customer satisfaction and professional and ethical behavior of all contractor personnel.

2.3 Contract Administration and Management
The following subsections specify requirements for contract, management, and personnel administration.

2.3.1 Contract Management
The contractor shall establish clear organizational lines of authority and responsibility to ensure effective management of the resources assigned to the requirement. The contractor must maintain continuity between the support operations and the contractor's corporate offices.

2.3.2 Contract Administration
The contractor shall establish processes and assign appropriate resources to effectively administer the requirement. The contractor shall respond to Government requests for contractual actions in a timely fashion. The contractor shall have a single point of contact between the Government and contractor personnel assigned to support contracts or task orders. The contractor shall assign work effort and maintaining proper and accurate time keeping records of personnel assigned to work on the requirement.

2.3.3 Personnel Administration
The contractor shall provide the following management and support as required. The contractor shall maintain the currency of their employees by providing initial and refresher training as required to meet the PWS requirements. The contractor shall make necessary travel arrangements for employees. The contractor shall provide necessary infrastructure to support contract tasks.

2.4 Subcontract Management
The contractor shall be responsible for any subcontract management necessary to integrate work performed on this requirement and shall be responsible and accountable for subcontractor performance on this requirement. The prime contractor will manage work distribution to ensure
there are no Organizational Conflict of Interest (OCI) considerations. Contractors may add subcontractors to their team after notification to the Procuring Contracting Officer (PCO) or Contracting Officer Representative (COR). Cross teaming may or may not be permitted.

### 2.5 Contractor Personnel, Disciplines, and Specialties

The contractor shall accomplish the assigned work by employing and utilizing qualified personnel with appropriate combinations of education, training, and experience. The contractor shall manage key personnel and match personnel skills to the work or task with a minimum of under/over employment of resources. The contractor shall ensure the labor categories, as defined in the Labor Categories document, labor rates, and man-hours utilized in the performance of each Task Order (PWS line item) issued hereunder will be the minimum necessary to accomplish the task.

The contractor shall provide the necessary resources and infrastructure to manage, perform, and administer the contract.

### 2.6 Location and Hours of Work

Accomplishment of the results contained in this PWS requires work at multiple sites throughout the Marine Corps and at various contractor, subcontractor, and Government facilities (mainly in the continental United States). The contractor shall provide the appropriate work environment to support the PDSS and non-PDSS efforts. There shall be times where work is required outside of a normal work day in support of exercises and events that are done throughout the world. Those events, specific times, and overall need will be coordinated with the contractor prior to the events.

### 2.7 Travel / Temporary Duty (TDY)

Travel to other government facilities or other contractor facilities will be required. All travel requirements (including plans, agenda, itinerary, or dates) shall be pre-approved by the Government (subject to local policy procedures), and is on a strictly cost reimbursable basis. Costs for travel shall be billed in accordance with the regulatory implementation of Public Law 99-234 and FAR 31.205-46 Travel Costs (subject to local policy & procedures; may reference FAR).

### 3 Performance Requirements

The following section specifies the Performance Objectives and Performance Elements for the contract.

#### 3.1 The contractor shall provide PDSS support

The contractor shall provide post-deployment software support for the fielded baseline. PDSS includes all support necessary to maintain the current MTWS baseline and support the MTWS program. The baseline is defined as the fielded software system used in training operations.
MTWS will perform baseline updates yearly, as agreed upon by the Government. The baseline is updated with each fielding of MTWS and only one baseline is maintained as a fielded release. Updates performed under PDSS will transition into the next software release. Program support is defined as all the personnel necessary to manage the MTWS program.

**Performance Standards**
a) STD: No negative impact to the mission

AQL: Maintain current baseline and subsequent baselines as deployed.

**Deliverables**
A001 Software Development Plan
A002 Requirements Traceability Matrix
A003 System/Sub-System Specification
A004 System/Sub-System Design Description
A005 Interface Design Description
A006 Software Design Description
A007 Software Test Plan
A008 Software Test Description
A009 Software Test Report
A00A Software Version Description
A00B Software Product Specification
A00C Software User’s Manual
A00D Software Configuration Management Plan
A00E IA Support Data
A00F Computer Software Product End Items
A00G System Requirements Specification
A00H Help Desk Log
A00I Software Change Request Database
B001 Program Management Plan
B002 Integrated Master Schedule
B003 Contractor Progress Status and Management Report
B004 Conference Agenda
B005 Meeting Minutes
B006 Presentation material
B007 Contractors Risk Management Plan
B008 Contractors Funds Status Report
B009 Contract Work Breakdown Structure

3.1.1 The contractor shall support rapid development and release of changes in support of training

Any MTWS software issues directly affecting and impacting training events shall be immediately mitigated. Mitigation shall include an operational workaround, software patch or any other appropriate technique applicable. The mitigation approach shall be agreed to by the Government.
Performance Standards

a) STD: Training Availability

   AQL: Mitigation within 1 hour of a user entering help/support request through the MTWS website or calling the MTWS help support line

   AQL: MTWS software shall have an operational availability (Ao) of 95%

   AQL: MTWS software shall be capable of operating for 24 hours a day for 14 consecutive days

   AQL: Restart time of MTWS shall not exceed 20 minutes

Deliverables
A00B Software Product Specification

3.1.2 The contractor shall maintain existing MTWS capabilities
Defects resulting in a loss of functionality from the previous version of MTWS shall be resolved by the next version release.

Performance Standards

a) STD: Resolution of defects

   AQL: Defects resolved by next version release

Deliverables
A00B Software Product Specification

3.1.3 The contractor shall maintain MTWS external interfaces.
a) STD: Maintain external interfaces

   AQL: No loss of functionality between version releases

Deliverables
A00B Software Product Specification

3.1.4 The contractor shall provide help desk and email support.
The contractor shall provide Help Desk and Email support for the MTWS user community. Help desk support shall be available during the working hours (0800-1600) of all sites that utilize MTWS.
Support may be requested by the program office outside of normal working hours in support of the Marine Corp mission. Availability may be required for up to a 24 hour day during special events. Events requiring 24 hour availability will be pre-coordinated with the contractor.

Help Desk and Email support shall answer any questions dealing with the use and operation of the currently fielded MTWS baseline. Help and email support shall be able to answer questions and issues ranging from installation of the software to use and capability limitations. Help support shall forward on any defects found to appropriate personnel for categorization and resolution. If issues are directly affecting training events, the issues shall be resolved immediately.

The contractor shall maintain a help desk log and provide that log to the Government monthly.

The contractor shall provide on location support for Marine Corps exercise as required by the Government. Exercise support will troubleshoot network issues, MTWS use, interface issues, and capabilities. Request for support shall be approved by the Government. Total support shall not exceed 336 man hours per year.

Performance Standards
a) STD: Responsive
   AQL: Response within 1 hour of call or email
b) STD: Help Desk request mitigated within 24 hours
   AQL: 90%

Deliverables
A00H Help Desk Log

3.1.5 The contractor shall provide an online, externally accessible portal

Provide, operate and maintain a portal that allows for external access by the Government and other approved users. The portal shall provide the Government access to all data and information necessary to monitor status of activities. The portal will be Government owned and all source files, databases, data, and the end product will be turned over to the Government with unlimited rights at the end of the contract.

Performance Standards
a) STD: SCR Database Accuracy
   AQL: 100%

b) STD: Frequency
AQL: Continually updated

3.1.5.1 The contractor shall ensure the portal is perpetual and accessible by authorized personnel.
All information posted shall be accessible and available to the Government.

Performance Standards
a) STD: Real Time
   AQL: 90% availability

3.1.5.2 The portal shall be accessible by authorized personnel only.
Approval for access of individual users will be by Government direction.

Performance Standards
a) STD: Meets security safeguards
   AQL: User roles and access levels defined and applied

3.1.5.3 The contractor shall ensure the portal is accessible on Government equipment over Government networks.
All electronic databases or applications that are used to store, track, share, transmit or display information shall be web based. Data management systems shall not require installation of client software on Government computer systems (with the exception of Internet Explorer 8 and Microsoft Office 2010 products).

Performance Standards
a) STD: Compliant
   AQL: Able to be accessed by Government users on Government issued equipment

3.1.5.4 The portal shall provide the capability for users to enter help desk/support requests

Performance Standards
a) STD: Usability
   AQL: The functionality provided will be usable to support assessment, resolution, and historical documentation for help/support requests.

3.1.5.5 The portal shall provide storage for, access to, viewing of, and download of program information and electronic files.
The contractor shall upload electronic files to the portal. The portal will provide access and storage of softcopies of CDRLs, meeting minutes, presentation materials, MTWS version releases and any other appropriate MTWS program data.
a) STD: Frequency
   AQL: Continually updated

b) STD: Access to information
   AQL: Real time

3.1.5.6 The contractor shall provide the capability for users to enter SCRs on the portal.
The portal shall allow for users to directly enter SCRs. The portal shall allow for the Government to access, review, control, modify, sort, search, download, print, and prioritize SCRs entered electronically by users.

Performance Standards
a) STD: Usability
   AQL: The tool provided will be usable for Government operations

Deliverables
A001 SCR Database

3.1.5.7 The contractor shall provide real time access the SCR database through the portal.
The SCR database will provide details on each SCR and status of each SCR in the configuration control board process and the software development life cycle.

The portal will allow for the Government to access, review, control, modify, sort, search, download, print, and prioritize SCRs stored in the database.

The SCR database will maintain details for each SCR to include summary of the SCR, electronic copy storage for the original Engineering Change Proposal/Software Trouble Report (ECP/STR) for the SCR, provide design details, acceptance criteria, historical information resulting from meetings on the SCR, detail any changes to/current status of the SCR, provide insight into the SCR in the development process to include analysis, design, implementation, code and test, integration, beta build inclusion, and planned MTWS release version. The SCR database shall also provide access to test procedures and test results data performed by the contractor. The SCR database shall also store and allow access to SCRs that have been resolved for historical purposes.

a) STD: SCR Database Accuracy
   AQL: 100%
   AQL: Updated real time
b) STD: Frequency

AQL: Continually updated

3.1.6 The Contractor shall provide program support for MTWS.
Maintain visibility on progress, and schedule and provide that information to the Government for all MTWS tasks as part of this contract. Provide information in a readily accessible, independent manner to the Government. Provide the Government with SCR recommendations as appropriate to evolve and modernize the program. Support the MTWS IA Certification and Accreditation.

Performance Standards
a) STD: Monitor, support, and track all changes necessary to maintain the MTWS accreditation.

AQL: Maintain MTWS POAM and report on any risks to the program

b) STD: Provide program schedule and progress

AQL: Schedule and progress of activities is updated monthly and provided to the Government

Deliverables
A00E IA Support Data
B004 Conference Agenda
B005 Conference Minutes
B006 Presentation material
B009 Contract Work Breakdown Structure

3.1.6.1 The contractor shall monitor and assess IAVA releases on the MTWS fielded baseline.

Performance Standards
a) STD: Early identification of problems

AQL: Within two weeks of IAVA release

b) STD: Notification to Sites

AQL: Notification to user sites of any impacts to the MTWS software baseline as a result of the IAVA release.

Deliverables
A00E IA Support Data
B003 Contractor Progress Status and Management Report
3.1.6.2 The contractor shall release a new version of MTWS yearly.

The contractor shall support an acceptance test managed and conducted by the Government to assess the release. Upon Government acceptance, the contractor shall produce a releasable version of MTWS. All appropriate programmatic and version release documentation shall be updated and delivered to the Government prior to release of the software. The contractor shall distribute the software to the user community upon Government direction.

Performance Standards
a) STD: Acceptable

   AQL: Release version passes Government acceptance testing with no loss of capabilities between versions

Deliverables
A002 Requirements Traceability Matrix
A003 System/Subsystem Specification
A004 System/Subsystem Design Description
A005 Interface Design Description
A006 Software Design Description
A007 Software Test Description
A008 Test Procedures
A009 Software Test Report
A00A Software Version Description
A00B Software Product Specification
A00C Software User’s Manual
A00F Computer Software Product End Items
A00G Software Requirements Specification

3.2 New development shall be defined through task orders.

The contractor shall submit a response to task orders IAW rates and labor categories defined in attachment J.32. New development efforts are a combination of JLVC and Marine Corps efforts.

Performance Standards
a) STD: Response

   AQL: Within 10 working days of receipt of task order

Deliverables
A001 Software Development Plan
A002 Requirements Traceability Matrix
4 Special Requirements

This section describes the special requirements for this effort. The following sub-sections provide details of various considerations on this effort.

4.1 Software

4.1.1 Delivery

The contractor shall deliver the software and all source files as part of this contract. The contractor shall provide instructions and all source files necessary with which to reproduce the executable build of the software to the program office.

4.1.2 Rights

The contractor shall provide Government Purpose Rights for all software and products delivered as part of this contract.

4.1.3 Configuration Management

Any changes to the software shall be communicated and agreed to by the Government.
4.2 Task Orders
The contractor shall perform new development of capabilities and changes to the fielded baseline of the system as defined in task orders per this contract.

The contractor shall support design, development, integration, test and new functionality training of system changes as defined in task orders.

Task orders will provide either the SCR or description of the tasks to be performed. The contractor in response to Task Orders shall at a minimum provide a General Description of work to be performed, acceptance criteria, design, hours required to accomplish the task by labor category, and schedule. The information provided shall support the Government determination that the contractor understands the task, the level of effort required to perform the task, and that the task can be completed in the time frame outlined by the contractor, per the schedule provided. That information provided in the contractor’s response shall be loaded into the SCR database upon acceptance of the proposal.

Upon completion of a task order and Government acceptance of functionality in an MTWS release those changes to the MTWS baseline are maintained and supported under PDSS efforts in this contract.

4.3 Security and Safety
MTWS is an unclassified trainer which is deployed within a classified and unclassified environment. The contractor is not required or expected to have a Facility Clearance. Base access/clearance will be obtained as needed. Contractor personnel supporting certain parts of this effort are required to possess personnel clearance levels of Secret in order to obtain access to facilities and information to support events, support development efforts, and support the overall program. Any contractor personnel requiring access to US Government sensitive, unclassified information shall possess a completed background investigation (minimum of NACI) for this Public Trust Position.

DD Forms 254: Overarching security requirements and Contractor access to classified information shall be as specified in the basic DD Form 254, which will be further identified in the DD Form 254 for each TO, as required. All contractor personnel with access to unclassified information systems, including e-mail, shall have at a minimum a favorable National Agency Check (NAC).

Visitor Group Security Agreement. The contractor shall sign a Contractor Visitor Group Security Agreement to protect classified information involved in performance under this contract or Task Order. The Agreement will outline responsibilities in the following areas: Contractor security supervision; Standard Practice Procedures; access, accountability, storage, and transmission of classified material; marking requirements; security education; personnel security clearances;
reports; security checks; security guidance; emergency protection; protection of government resources; DD Forms 254; periodic security reviews; and other responsibilities, as required.

4.4 **Transition**

The contractor shall follow the transition plan submitted as part of the proposal and keep the Government fully informed of status throughout the transition period. Throughout the phase-in/phase-out periods, it is essential that attention be given to minimize interruptions or delays to work in progress that would impact the mission. The contractor must plan for the transfer of work control, delineating the method for processing and assigning tasks during the phase-in/phase-out periods. The incumbent contractor is required to provide PDSS support until the last date of the current contract. The awardee is required to begin PDSS support on the contract start date. It is expected that no lapse of service will occur during this transition. During the Mobilization period, the awardee shall not hinder the PDSS support activities being performed by the incumbent. All GFE shall be transferred from incumbent to awardee within 24 hours of contract stop/start date.

4.5 **Government Furnished Materials**

All GFE shall be provided within 1 month of contract start date and are listed in attachment J.41. Upon contract award the Government will provide the following GFI documentation/deliverables developed to date under the prior contract:

   a) MTWS source code and executable for the final contract year of the current prime contractor.
   b) Requirements Traceability Matrix
   c) Interface Design Description
   d) Software Architecture Description
   e) Software Design Description
   f) Software Test Description
   g) Software Product Specification
   h) Software Version Description
   i) Software User Manual
   j) System Requirements Specification
   k) System/Subsystem Specification
   l) Software Change Request Database

4.6 **Environmental Requirements**

The contractor shall comply with all documents listed in Section 6.

4.7 **Applicable Directives**

The contractor shall comply with all documents listed in Section 6.
4.8 Quality

This section describes the Quality Control components for this effort. The following sub-sections provide details of various considerations on this effort.

4.8.1 Quality Control

The contractor shall develop a QCP and maintain an effective quality control program to ensure services are performed in accordance with the IDIQ contract and this PWS. The contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The contractors QCP is the means by which he assures himself that his work complies with the requirement of the contract.

The finalized QCP will be accepted by the Government at the time of the award of the Task Order. The Contracting Officer may notify the contractor of required modifications to the plan during the period of performance. The contractor then shall coordinate suggested modifications and obtain acceptance of the plan by the Contracting Officer. Any modifications to the program during the period of performance shall be provided to the Contracting Officer for review no later than 10 working days prior to effective date of the change. The QCP shall be subject to the Governments review and approval. The Government may find the QCP "unacceptable" whenever the contractors procedures do not accomplish quality control objective(s). The contractor shall revise the QCP within 10 working days from receipt of notice that QCP is found "unacceptable."

4.8.2 Quality Assurance Surveillance Plan (QASP)

The Government shall monitor the contractors performance under this Task/Delivery Order in accordance with the Governments QASP.

5 Deliverables

The contractor shall provide deliverables as described in subsequent task orders. Deliverables shall be specified by the government. Format and delivery schedule for deliverables shall be outlined in CDRLs.

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A001</td>
<td>Software Development Plan</td>
<td>DI-IPSC-81427A- Describes the developers plan for conducting a software development effort. Software development includes new development, modification, reuse, reengineering, maintenance and all other</td>
</tr>
<tr>
<td>A002</td>
<td>Requirements Traceability Matrix</td>
<td>Shall trace all requirements (stated, derived and implied) from test element back to CPD.</td>
</tr>
<tr>
<td>A003</td>
<td>System/Sub-System Specification</td>
<td>Includes the information in DI-IPSC-81431 - Specifies the requirements for a system and the methods to be used to ensure that each requirement has been met.</td>
</tr>
<tr>
<td>A004</td>
<td>System/Sub-System Design Description</td>
<td>Includes the information in DI-IPSC-81432A – Describes the system wide design and the architectural design of the system.</td>
</tr>
<tr>
<td>A005</td>
<td>Interface Design Description</td>
<td>DI-IPSC-81436A - The Interface Design Description (IDD) describes the interface characteristics of one or more systems, subsystems, Hardware Configuration Items (HWCIs), Computer Software Configuration Items (CSCIs), manual operations, or other system components.</td>
</tr>
<tr>
<td>A006</td>
<td>Software Design Description</td>
<td>DI-IPSC-81435A - The Software Design Description (SDD) describes the design of a Computer Software Configuration Item (CSCI). It describes the CSCI-wide design decisions, the CSCI architectural design, and the detailed design needed to</td>
</tr>
<tr>
<td>A007</td>
<td>Software Test Plan</td>
<td>Include information in DI-IPSC-81438A - describes plans for qualification testing of Computer Software Configuration Items (CSCIs) and software systems. DI-IPSC-81438A describes the software test environment to be used for the testing, identifies the test to be performed and provides a schedule for test activities.</td>
</tr>
<tr>
<td>A008</td>
<td>Software Test Description</td>
<td>DI-IPSC-81439A - The Software Test Description describes the test preparations, test cases, and test procedures to be performed.</td>
</tr>
<tr>
<td>A009</td>
<td>Software Test Report</td>
<td>DI-IPSC-81440A - A record of the qualification testing performed on a CSCI, software system/subsystem or other software-related item.</td>
</tr>
<tr>
<td>A00A</td>
<td>Software Version Description</td>
<td>DI-IPSC-81442A- Identifies and describes a software version consisting of one or more CSCIs. It is used to release, track and control software versions.</td>
</tr>
<tr>
<td>A00B</td>
<td>Software Product Specification</td>
<td>DI-IPSC-81441A - The SPS contains or references the executable software, source files, and software support information, including &quot;as built&quot; design information and compilation, build, and</td>
</tr>
</tbody>
</table>
modification procedures for a Computer Software Configuration Item (CSCI).

| A00C | Software User’s Manual | DI-IPSC-81443A - The Software User Manual (SUM) tells a hands-on software user how to install and use a Computer Software Configuration Item (CSCI), a group of related CSCIs, or a software system or subsystem. It may also cover a particular aspect of software operation, such as instructions for a particular position or task. The SUM is developed for software that is run by the user and has a user interface requiring on-line user input or interpretation of displayed output. If the software is embedded in a hardware-software system, user manuals or operating procedures for that system may make separate SUMs unnecessary. |
| A00D | Software Configuration Management Plan | The purpose of this document is to establish and maintain the integrity of the software products for the Human Research Facility (HRF). Software Configuration Management (SCM) involves: a) Identifying and cataloging the components and configurations of the HRF software (SW) b) Systematically controlling |
changes to the HRF SW configuration c) Maintaining the integrity and traceability of the HRF SW configuration(s) 
d) Auditing the HRF SW configuration e) Documenting and periodically reviewing the HRF SCM procedures The HRF SW placed under SCM includes all HRF SW delivered to the customer as well as applications software and related systems software, compilers, and firmware. SCM will be maintained throughout the HRF life-cycle.

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<tbody>
<tr>
<td>A00E</td>
<td>IA Support Data</td>
<td>The Information Assurance (IA) Support Data package will be used by the government to support IA accreditation activities and maintain the systems existing ATO/ATC. The information provided will support all IA activities by the program office.</td>
</tr>
<tr>
<td>A00F</td>
<td>Computer Software Product End Items</td>
<td>DI-MCCR-80700 provides the executable deliverable of the software to be fielded to the various sites that operate MTWS.</td>
</tr>
<tr>
<td>A00G</td>
<td>System Requirements Specification</td>
<td>DI-IPSC-81433A specifies the requirement for a CSCI and the methods to be used to ensure that each requirement has been met.</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Details</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>A00H</td>
<td>Help Desk Log</td>
<td>Provides the log of activities associated with the help desk operations to validate work performed assigned to that task.</td>
</tr>
<tr>
<td>A00I</td>
<td>Software Change Request Database</td>
<td>Provides the actual database in source format that stores and maintains all Software Change Request for the MTWS system.</td>
</tr>
<tr>
<td>B001</td>
<td>Program Management Plan</td>
<td>The Program Management Plan provides technical, management, schedule, and cost data. It provides current information which is used to describe the approach, resources and needs of the contractor to perform the effort. This data item description (DID) contains the format and content instructions for the data product to be generated.</td>
</tr>
<tr>
<td>B002</td>
<td>Integrated Master Schedule</td>
<td>IMS is an integrated schedule containing the networked, detailed tasks necessary to ensure successful program execution.</td>
</tr>
<tr>
<td>B003</td>
<td>Contractor Progress Status and Management Report</td>
<td>Di-MGMT-80227- indicates the progress of work and the status of the program the assigned task, and report cost. It informs of existing or potential problem areas.</td>
</tr>
<tr>
<td>B004</td>
<td>Conference Agenda</td>
<td>DI-ADMIN-81249A – Provides information</td>
</tr>
</tbody>
</table>
concerning purpose, location, and schedule of conferences required to manage the acquisition of systems equipment, related items and services.

<table>
<thead>
<tr>
<th>B005</th>
<th>Meeting Minutes</th>
<th>DI-ADMIN-81250A - Provides documentation of technical information provided, decisions, actions and agreements reached at meeting</th>
</tr>
</thead>
<tbody>
<tr>
<td>B006</td>
<td>Presentation material</td>
<td>DI-ADMN-81373 – Provides the government audio visual aids, such as viewgraphs, photographs, slides or electronic equivalent.</td>
</tr>
<tr>
<td>B007</td>
<td>Contractors Risk Management Plan</td>
<td>DI-MGMT-81808 - Provides the government with risk data for all risks associated with the system/equipment. This Data Item Description (DID) contains the format, content, and preparation instructions for the data product resulting from the work task specified in the contract.</td>
</tr>
<tr>
<td>B008</td>
<td>Contractors Funds Status Report</td>
<td>DI-MGMT-81468 The Contract Funds Status Report (CFSR), DD Form 1586, Sample Format 1, is designed to supply funding data about defense contracts to Program Managers for: (a) updating and forecasting contract funds requirements, (b) planning and decision making on funding</td>
</tr>
</tbody>
</table>
changes to contracts, (c) developing funds requirements and budget estimates in support of approved programs, (d) determining funds in excess of contract needs and available for deobligation, and (e) obtaining rough estimates of termination costs.

| B009 | Contract Work Breakdown Structure | DI-MGMT-81334 D - This DID summarize the format for the CWBS and provides preparation instructions to support the data and frequency requirements specified in the contract. |

6 Related Documents

The below documentation is referenced in support of activities having to do with this effort:

- DOD Directive 8500.1
  Information Assurance
- DoDI 8500.2
  Information Assurance (IA) Implementation
- MIL-HDBK-61
  Configuration Management Guidance
- DoD Directive 8570.1
  Information Assurance Training, Certification, and Workforce Management
- DoD Manual 8570.01-M
  Information Assurance Workforce Improvement Program
- DODI 8510.01
  DIACAP
- DOD 8580.1
  Information Assurance in the Defense Acquisition System
- DODI 4630.8
  Procedures for Interoperability and Supportability of Information Technology and National Security System
• DOD Architecture Framework
• DFARS 239.71
  Security and Privacy for Computer Systems
• DII COE I&RTS
  Defense Integration Information Common Operating Environment Integration and
  Runtime Specification
• EIA-649
  National Consensus Standard for Configuration Management
• IEEE/EIA 12207
  Standard for Information Technology Software Life Cycle Processes
• IEEE 1516
  High Level Architecture
• IEEE 1278
  Distributed Interactive Simulation
## Performance Requirement Summary (PRS)

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<tr>
<th>Statements</th>
<th>Standards/AQLs</th>
<th>Incentive/Remedy</th>
</tr>
</thead>
</table>
| 3.1 The contractor shall provide PDSS support.   | a) No negative impact to the mission  
AQL: Maintain current baseline and subsequent baselines as deployed. |                           |
| 3.1.1 The contractor shall support rapid development and release of changes in support of training | a) STD: Training Availability  
AQL: Mitigation within 1 hour of a user entering help/support request through the MTWS website or calling the MTWS help support line  
AQL: MTWS software shall have an operational availability (Ao) of 95%  
AQL: MTWS software shall be capable of operating for 24 hours a day for 14 consecutive days  
AQL: Restart time of MTWS shall not exceed 20 minutes |                           |
| 3.1.2 The contractor shall maintain existing MTWS capabilities | a) STD: Resolution of defects  
AQL: Defects resolved by next version release |                           |
| 3.1.3 The contractor shall maintain MTWS external interfaces. | a) STD: Maintain external interfaces  
AQL: No loss of functionality between version releases |                           |
| 3.1.4 The contractor shall provide help desk and email support. | a) STD: Responsive  
AQL: Response within 1 hour of |                           |
| **3.1.5** | **The contractor shall provide an online, externally accessible portal** | a) STD: SCR Database Accuracy  
AQL: 100%  
b) STD: Frequency  
AQL: Continually updated |
|---|---|---|
| **3.1.5.1** | **The contractor shall ensure the portal is perpetual and accessible by authorized personnel.** | a) STD: Real Time  
AQL: 90% availability |
| **3.1.5.2** | **The portal shall be accessible by authorized personnel only.** | a) STD: Meets security safeguards  
AQL: User roles and access levels defined and applied |
| **3.1.5.3** | **The contractor shall ensure the portal is accessible on Government equipment over Government networks.** | a) STD: Compliant  
AQL: Able to be accessed by Government users on Government issued equipment |
| **3.1.5.4** | **The portal shall provide the capability for users to enter help desk/support requests** | a) STD: Usability  
AQL: The functionality provided will be usable to support assessment, resolution, and historical documentation for help/support requests. |
| 3.1.5.5 | The portal shall provide storage for, access to, viewing of, and download of program information and electronic files. | a) STD: Frequency  
AQL: Continually updated  
b) STD: Access to information  
AQL: Real time |
|---------|-------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 3.1.5.6 | The contractor shall provide the capability for users to enter SCRs on the portal. | a) STD: Usability  
AQL: The tool provided will be usable for Government operations |
| 3.1.5.7 | The contractor shall provide real time access the SCR database through the portal. | a) STD: SCR Database Accuracy  
AQL: 100%  
AQL: Updated real time  
b) STD: Frequency  
AQL: Continually updated |
| 3.1.6   | The Contractor shall provide program support for MTWS. | a) STD: Monitor, support, and track all changes necessary to maintain the MTWS accreditation.  
AQL: Maintain MTWS POAM and report on any risks to the program  
b) STD: Provide program schedule and progress  
AQL: Schedule and progress of activities is updated monthly and provided to the Government |
| 3.1.6.1 | The contractor shall monitor and assess IAVA releases on the MTWS fielded baseline. | a) STD: Early identification of problems  
AQL: Within two weeks of |
IAVA release
b) STD: Notification to Sites
   AQL: Notification to user sites of any impacts to the MTWS software baseline as a result of the IAVA release.

3.1.6.2 The contractor shall release a new version of MTWS yearly.

<table>
<thead>
<tr>
<th>Statements</th>
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<th>Incentive/Remedy</th>
</tr>
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<tbody>
<tr>
<td>3.2</td>
<td>New development shall be defined through task orders.</td>
<td>a) STD: Response</td>
</tr>
</tbody>
</table>