



C2BMC Spiral Capability Development Contract

Test and Integration

Task Order Number 0015

May 5, 2016

Award

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The Following Task Order Number 0015, shall be performed by the Contractor as a Task Order (TO) under Missile Defense Agency (MDA) Indefinite Delivery/Indefinite Quantity (IDIQ) Contract HQ0147-12-D-0003. In case of conflict, the Statement of Work (SOW) in effect in the basic IDIQ contract at time of award of this TO shall have precedence.

1.0 Task Description

This task order conveys the prime Contractor requirements to support Command and Control, Battle Management and Communications (C2BMC) participation and support (System Under Test (SUT) and Offline) of the Ballistic Missile Defense System (BMDS) Level testing as baselined through the Integrated Master Test Plan (IMTP) process and selected Real World Events (RWE) and other Targets of Opportunity (TOO). Requirements, configuration and data collection germane to each BMDS test event are well defined in the Test Resource Mission Planning Tool [TRMP-T(C)] and shall be adjudicated between the Government and the Contractor.

2.0 Background

The Contractor requirements in Section 4 below are intended to provide all the support necessary for C2BMC Element testing across the spectrum of testing for Hardware-in-the-Loop (HWIL)/Ground Test, System Pre-Mission Tests (SPMT) and System post Flight Reconstruction (SPFR); Early Integration and Integrated Ground Tests (GTI); Distributed Ground Tests (GTD), Flight Tests, Wargames and Exercises, Experimentation Testing, International Ballistic Missile Defense events, and TOOs.

The MDA publishes the Integrated Master Assessment Plan (IMAP) and the IMTP on a bi-annual basis. The IMAP provides the Assessment Requirements (ARs) needed to support system Operational Assessment and Technical Assessment of the BMDS, and the IMTP provides the system-test objectives and test configuration guidance for Test Campaigns involving C2BMC and the BMDS. The IMTP is the Government planning document for the test baseline schedule, resourcing, and execution of the BMDS test program and details the C2BMC system-level test support and test participation requirements.

3.0 Program Management

The Contractor shall provide Program Management services to assist the Government in planning, controlling, directing, monitoring, reporting, and managing this TO.

All documentation created and maintained in a database or storage medium associated with this Task Order shall be delivered to the Government by the various Contract Data Requirements List (CDRLs) associated with this Task Order. All deliverables (CDRLs) shall be submitted to the Government electronically, unless otherwise stated, with distribution method to the Government to be determined by the C2BMC Program Management Office.

The Contractor shall support the Government during a Failure Review Board (FRB) process to determine root cause and ensure timely corrective action for critical failures.

3.1 Integrated Process and Product Development (IPPD)

The Contractor shall apply an IPPD approach in all technical/functional disciplines and requirements in a coordinated effort to meet established financial management, resource, cost, schedule, performance, and supportability requirements for the C2BMC system.

3.2 Program Planning Database (PPD)

The Contractor shall provide effective implementation of a Program Planning Database (PPD) that will contain schedule data for C2BMC involvement in the MDA IMTP. The Contractor shall maintain a comprehensive PPD in order to provide rapid responses to real or potential change in requirements. The PPD will be utilized by the Contractor to provide critical path and float analysis for the life of the Task Order. The Contractor shall maintain and provide schedule management metrics along with the PPD.

3.3 Contractor Integrated Performance Management

The Contractor shall prepare and utilize, in the performance of this TO, an integrated performance management system. The TO performance baseline shall be linked to and supported by the Contractor's management processes and systems that will contain schedule data for C2BMC involvement in the MDA IMTP, Contract Work Breakdown Structure (CWBS), change management, material management, procurement, cost estimating, and accounting. Financial reporting for this TO shall be accomplished through the DI-FNCL-81537 Funds and Labor Hour Expenditure Report (CDRL A140).

3.4 Process Control

The Contractor shall maintain a set of operating documentation that provides management direction, policies and procedures, per established Contractor tools and procedures in accordance with (IAW) existing Government processes.

3.5 Program Reviews

The Contractor shall support the planning, preparation, and conduct of program reviews. The Contractor shall support the Program Management Reviews (PMR), Government Internal Configuration Control Board (ICCB), Integration Synchronization Group (ISG)/Integration Synchronization Center (ISC), Program Change Board (PCB), and other relevant meetings as requested and/or agreed upon by the Government.

The Contractor shall support C2BMC component immersion reviews with the Government to facilitate understanding and agreement with implementation approaches used for chosen technical efforts. The results of these reviews shall include updating project documentation based on the outcome of the reviews. The Contractor shall provide progress reports to the Government in semi-annual PMRs.

3.6 Bill of Materials Management

The Contractor shall manage the Bill of Materials (BOM) and control changes IAW program configuration control procedures for this task order. The Contractor shall monitor new material requirements and identify when changes are required to BOM line items to meet baseline program requirements.

4.0 System Test, Wargames and Exercises

4.1 System Testing

The Contractor shall conduct System Test and Integration in accordance with Sections 5.1, System Testing, 5.3, Contractor Support to Government Ground Test and 5.4, Contractor Support to Government Flight Test of the Base Indefinite Delivery/Indefinite Quantity Contract SOW for Spiral 8.2 except as modified or amplified below.

4.1.1 Support Test Resourcing

The Contractor shall support BMDS Flight and Ground Test Events, Experimentation Test Events, Wargames and Exercises, International Ballistic Missile Defense events, and TOOs with C2BMC participation, in accordance with the latest approved IMTP Revision or with MDA C2BMC Director for Test or MDA C2BMC Deputy Director for Test direction as resourced by the Program Manager, approved C2BMC Test Baseline Schedule, and consistent with the level-of-effort nature of this Task Order. The MDA C2BMC Director for Test or MDA C2BMC Deputy Director for Test will provide written direction to the Contractor specifying the actual level of Contractor support expected and needed for each particular Event. If no written direction is provided, the Contractor shall provide support at the level defined in the TRMP-T (C) database for the event. Changes may occur after the planning phase at the Government's discretion.

4.1.1.1 Future Spiral Tests

The Contractor shall contribute to requirements development, execution, and analysis of system-level tests with C2BMC Offline to collect data for future C2BMC software builds. The Contractor shall execute the testing as indicated in Spiral Capability Verification Plan (SCVP) or defined in the IMTP when approved through C2BMC System Test & Integration Board (CSTIB) and ICCB. The Contractor shall seek opportunities for Spiral Testing for an early look at the software. The Contractor shall ensure that C2BMC is in "receive only" test configuration with the C2BMC suite and completely isolated so as not to affect the SUT.

4.1.1.2 C2BMC Planner

The Contractor shall include the use of the C2BMC Planner in the planning, execution, and analysis of system and element tests, Wargames and Exercises.

