

Section C - Descriptions and Specifications

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“ENGINEERING & ANALYSIS SUPPORT OF JOINT THEATER AIR & MISSILE DEFENSE ORGANIZATION (JTAMDO) AND SINGLE INTEGRATED AIR PICTURE (SIAP)” STATEMENT OF WORK

1.0 The contractor and/or subcontractor shall provide technical and Programmatic support to the PEO Huntsville and Washington staffs. This support may include the identification of critical areas of high risk, threat analysis, joint/combined interfaces, and major areas of critical focus requiring PEO MS problem resolution to prevent problems from occurring and to minimize crisis management. The contractor and/or subcontractor shall support special panels and working groups to assist the PEO in review and analysis of situations/problems that require resolution and or corrective actions. The contractor and/or subcontractor shall support and/or provide meetings, briefings, conferences, and presentation material required in the performance of technical directive requirements.

2.0 Engineering and Analysis Support

2.1 The contractor and/or subcontractor shall participate in the planning; execution, data collection, data reduction, and analysis efforts in support of the Joint Theater Air and Missile Defense Organization (JTAMDO) hosted FY03 NIMBLE FIRE operator-in-the-loop (OITL) exercise being conducted at the Virtual Warfare Center, St. Louis, MO. The specific activities to be performed are as follows:

2.1.1 The contractor and/or subcontractor shall assist in the development and implementation of a simulation based joint service combat identification systems effects engine (SEE) capable of varying the accuracy of the evolving combat identification process envisioned in the evolving 2010 JTAMD process. Successful design and implementation will require detailed analysis, integration, interface and coordination at the operational and engineering level with emerging Army and Joint Service advanced concept programs such as PATRIOT, JLENS, EAADS, SLAMRAAM, USN E2C, USAF F15, and USAF Fixed Wing Surveillance and Fire Control Platforms.

2.1.2 The contractor and/or subcontractor shall participate in the planning and execution phase of all Virtual War Center (VWC) related Integrated Missile Defense exercises being conducted at the Joint National Integration Center (JNIC) in FY03.

2.1.3 The contractor and/or subcontractor shall serve as Coordination Lead for Army participation in all FY03 NIMBLE FIRE OITL Exercise events. Successful mission completion requires detailed coordination with all Army NIMBLE FIRE participants, i.e., PEO-MS; SMDC Battle Lab; JLENS Project Office; PATRIOT Project Office; SHORAD Project Office; Directorate of Combat Developments, USAADASCH; and HQDA DAPR-FDE

2.1.4 The contractor and/or subcontractor shall provide PEO-MS pre-briefs before each significant OITL event; post OITL event after action summaries; and monthly task reports throughout the task period of performance.

2.1.5 The contractor and/or subcontractor shall provide PEO-MS additional AMD/Space studies and analysis support as directed by the government.

2.2 The contractor and/or subcontractor shall provide support to the SIAP System Engineering Task Force (SE TF) Sim/Stim Verification and Validation (V&V) Pilot Program effort to include the development of a SIAP SE TF Sim/Stim V&V Pilot Program Management Plan. This Management Plan is to include the activities of the Lower Tier Project Office (PATRIOT) and AMCOM Software Engineering Directorate (SED) related to the conduct of the Joint Distributed Engineering Plant (JDEP) events, improvements to the PATRIOT FMS-D, development of a High Level Architecture (HLA) scenario driver, and development of the all digital simulation of a PATRIOT battalion to be integrated with the HWIL at AMCOM SED.

2.3 The contractor and/or subcontractor shall provide technical analyses in support of Program Executive Office (PEO) Missiles and Space (MS). These analyses shall assess the need for and capability to achieve functional integration of PEO MS systems to meet warfighter needs for a net-centric, dynamically retailorable, operationally flexible AMD architecture. The contractor and/or subcontractor shall describe deficiencies in current program plans for achieving the desired net-centric architecture and recommend methods for redressing these deficiencies. Analyses shall be conducted to support achievement of program milestones to insure that the materiel solutions being proposed contribute to and integrate into the desired net-centric architecture. The contractor and/or subcontractor shall develop mitigation options for redressing issues and risks in PEO MS program plans that will enable the PEO MS to efficiently use resources and dollars to achieve the desired net-centric architecture.

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PERIOD OF PERFORMANCE: 25 Sep 02 – 23 Apr 07

