

1 PURPOSE

- 1.0.0.1 This Performance Work Statement (PWS) establishes the requirements for the services that the Contractor **shall** provide to PMW 150 NATO Improved Link Eleven (NILE) Project Management Office (PMO). Specifically, the NILE PMO requires the provision of the services indicated herein in order to continue in the pursuit of the objectives of the In-Service Support phase of the NILE Project.

2 OBJECTIVES

- 2.0.0.1 The objective of this TDL is to obtain professional engineering and Software modification services to PMW150 NATO Improved Link Eleven (NILE) Project Management Office (PMO). In particular, Block Cycles Updates, Engineering Support and Project Management Services are needed. The set of requirements included in this PWS may be summarized in the continuous activities of modification, maintenance, and configuration control of the NILE IT Products, the establishment of an effective project management structure to oversee execution of tasks as directed by this PWS and the supply of technical and subject-matter expertise on various Link 22 related matters. The Contractor shall coordinate work done in support of this PWS with work being accomplished under other CLINs and/or other TDLs, if any, so as to ensure that tasks are not being delayed or duplicated.

3 TECHNICAL DIRECTION AND REQUIREMENTS

- 3.0.0.1 Within the scope of the overarching Contract PWS, and under CLINs 0001/0002, the Contractor **shall** fulfill the requirements of this TDL PWS, detailed as follows. Specifically the Contractor **shall** provide:
- (a) IT Block Cycle Update activity according to the guidance provided in the Contract PWS paragraph 5.1.1
 - (b) A subset of Engineering Services as described in the Contract PWS paragraph 5.1.2.1
 - (c) A subset of Project Management Services as described in the Contract PWS paragraph 5.1.3.
- 3.0.0.2 Contractor travel or purchased material may be authorized by the Government under this contract in compliance with the requirements reported in the PWS paragraph 5.2.

3.1 TASK A – NILE IT BLOCK CYCLE UPDATES

- 3.1.0.1 The contractor, during the period of performance (PoP), **shall** provide the NILE PMO with IT Block Cycle Update activity in accordance to a subset of the requirements identified in PWS paragraph 5.1.1 specified as follows.
- 3.1.0.2 No CDRLs pertinent to PWS paragraph 5.1.1 (CDRLs A007 through A0015) are due during the twelve-month PoP of this TDL.

3.1.1 Software Defects

- 3.1.1.1 In accordance with PWS paragraph 5.1.1.2 and Appendix C Section 1, the Contractor **shall** identify and fix defects in the software code.

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- 3.1.1.2 For each defect identified, the Contractor **shall** raise a Problem Change Report (PCR) in accordance with the requirement of PWS Appendix A.
- (a) PCRs may be raised as a result of issues raised by nations in Feedback Reports (FRs) or as a result of the Contractors Engineering Support and Software Modification activities.
 - (b) Prioritization and selection of PCRs to be implemented during the PoP **shall** be managed in accordance with the requirements of PWS Section 5.1.3.11 (Configuration Management).
- 3.1.1.3 The Contractor **shall** analyze, design, implement and test the solution to Problem Change Reports (PCRs) in accordance with requirements of PWS Appendix C Section 1.
- (a) The Contractor **shall** implement solutions for 5 PCRs before 31 December 2013
 - (b) The Contractor **shall** implement solutions for an additional 5 PCRs to be completed between 1 Jan 2014 and the end of the Period of Performance (PoP).

3.1.2 Software Modifications

- 3.1.2.1 In accordance with PWS paragraph 5.1.1.2 and Appendix C, the Contractor **shall** analyze, design, implement and test solutions for the following Software Modification items:
- (a) Items #4, #12 and #16 **shall** be completed by 31 December 2013;
 - (b) Items #19, #15 and #13 (or item #14 in case item #13 has been already implemented by contract award) **shall** be completed between 1 Jan 2014 and the end of the PoP.

3.1.3 Software and Documentation Baseline

- 3.1.3.1 The Contractor **shall** maintain a Software and Document Repository in accordance with PWS Paragraphs 5.1.2.1.8 and 5.1.3.11.3.1. This Repository **shall**:
- (a) Include the current and previous Block Cycles (BCs) Packages.
 - (b) Include a working baseline for the next BC.
- 3.1.3.2 Where the Contractor implements Software Modifications (either as a result of a PCR or Software Item), the Contractor **shall**:
- (a) Incorporate those modifications into the working baseline for the next formal BC in accordance with the requirement of PWS Section 5.1.1.
 - (b) Update as necessary, NILE documentation affected by the implemented software changes. This **shall** include all documents released as part of the TDP as per PWS Paragraph 5.1.1.3 and Paragraph 5.1.1.4.
 - (c) Update the System Test Description (STD) documents for the SNC and NRS to reflect the Software modifications.
 - (d) Conduct Computer Software Unit Testing (CSU), Computer Software Configuration Item (CSCI) Integration Testing and System Integration Testing (dry-run) to ensure the Software modifications perform as expected
 - (i) This **shall** include regression testing to ensure implementation of Software modifications do not adversely affect other functions for backward compatibility.

- (e) The official release and delivery of the updated Software and Documentation, as part of the next BC7, will be a requirement on a future TDL issued subsequent to this one. System Qualification Testing, anticipated by an official TRR, will be accordingly funded and the Contractor should not include any effort for this purpose.

3.2 TASK B – ENGINEERING SERVICES

3.2.0.1 The contractor, throughout the period of performance (PoP), **shall** provide:

- (a) Analysis and resolution of all potential Feedback Reports (FRs) and other technical issues the NILE Nations may rise. Such an activity **shall** be executed in accordance with the PWS paragraph 5.1.2.1.1. Based on historical data/information, the Contractor **shall** plan for an average rate of 1 FR/month to be addressed;
- (b) Technical and Subject Matter Expertise (SME) in support to the PMO attending international meetings/forums as specified at PWS paragraph 5.1.2.1.5. The Contractor **shall** support and attend, with at least one ISS team member, the following meetings. The duration of these meetings **shall** not exceed 5 working days and will be completed within a single week:
 - (i) NILE CCB and Link 22 C&IWG in Italy (November 2013);
 - (ii) NILE CCB and Link 22 C&IWG in Canada (May 2014);
 - (iii) Technical and SME includes review and possible contribution to the external meeting Agendas, drafting White Papers and/or presentations about current Link 22 related matters. Currently pending issues from these meetings are UHF EPM SPCs documentation completion (Annexes A and B to SPC SS), UHF EPM SPCs conformance testing and Link 22 Interoperability (I/O) testing (SIMPLE Protocol extension design and relevant documentation issuance required);
- (c) A NILE Test Environment/Lab as described in the PWS paragraph 5.1.2.1.7.

3.3 TASK C – PROJECT MANAGEMENT SERVICES

3.3.0.1 The contractor, throughout all the period of performance (PoP), **shall** provide following Project Management Services:

- (a) Project Structure as described in the PWS paragraph 5.1.3.1;
- (b) Project Planning and Control as described in the PWS paragraph 5.1.3.2;
- (c) Monthly Status Reports (MSR) as described in paragraph 5.1.3.3;
- (d) Electronic Data Bases and Management Tools as per PWS paragraph 5.1.3.4;
- (e) Project Reviews as per PWS paragraph 5.1.3.5;
- (f) A Post Award Conference, IPRs and IPTs as described in the PWS paragraphs 5.1.3.6, 5.1.3.7 and 5.1.3.8;
- (g) Project Risk Management as described in the PWS paragraph 5.1.3.9;
- (h) Project Security Management as described in the PWS paragraph 5.1.3.10;

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- (i) Project Configuration Management as described in the PWS paragraph 5.1.3.11 and 5.1.2.1.8 (SW Repository).
- (j) Integrated Support as described in the PWS paragraph 5.1.3.12.
- (k) Project Quality Assurance as described in the PWS paragraph 5.1.3.13;

3.3.0.2 All deliverables required within the above mentioned PWS paragraphs (CDRLs A001, A002, A004, A005 and A006) are due during the PoP of this TDL as specified on their respective CDRLs.

4 PERIOD OF PERFORMANCE (PoP)

4.0.0.1 For proposal purposes, the Contractor **shall** assume award of this task on 01 July 2013. The PoP shall be twelve (12) months, in two six-month phases. Phase I will end 31 December 2013 and Phase II will end on 30 June 2014.