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STATEMENT OF WORK FOR NUCLEAR PLANNING SYSTEMS TARGET DATA FEED -MODIFICATION TWO

1.0. SCOPE:

This modification to the Nuclear Planning Systems Target Data Feed (NPS TDF) shall involve analysis, research, investigation, and integration of the NATO Nuclear Planning System (NNPS) with Microsoft Power Point software as a presentation medium for briefings by Supreme Allied Commander Europe (SACEUR) supporting the nuclear consultation process. Specifically, the modification shall provide the Defense Special Weapons Agency (DSWA) with an annotated briefing and technical report that details development of the Nuclear Consultation Subsystem (NCS) and includes recommended sample slides for the briefs. The technical report shall identify three levels of interaction between NNPS and Powerpoint with expected cost to execute, production timelines, and strategies that can be executed under OPTION I.

1.1. PURPOSE:

DSWA's purpose is to integrate Microsoft Power Point software into the NNPS with a capability to automatically populate preformatted briefs from strikeplans.

in a training environment without affecting the operational data base of the operational system.

1.2. BACKGROUND:

NNPS is the NATO approved architecture for nuclear planning. It started as a DSWA Proof of Principle project in 1990 and was completed in 1996. Supreme Headquarters Allied Powers Europe (SHAPE) is currently purchasing equipment and software to formally incorporate NNPS into its command, control, communications, computers, and intelligence (C4I) architecture.

1.3. OBJECTIVES:

Develop an annotated briefing and a technical report based on the findings from the analysis.
Modify NNPS to automatically populate SACEUR Consultation Briefs using Powerpoint.

2.0. APPLICABLE DOCUMENTS:

- 2.1. NATO Nuclear Planning System Transition Plan 27 Dec 96.
- 2.2. NATO Nuclear Planning System Primer, 27 Oct 94.
- 2.3. Nuclear Planning Group Political Principles for Nuclear Consultation, 22 Oct 92.
- 2.4. Nuclear Planning Group Nuclear Consultation Procedures, 11 Nov 93.

2.5. NATO Nuclear Consultation Seminar--Current Nuclear Planning Issues, 17 Apr 97.

3.0. REQUIREMENTS (TASKS)

3.1. TASK 1: Requirements Analysis:

The contractor shall perform an investigation and analysis to determine the best software porting and structure for Powerpoint Consultation Briefs at SHAPE. The analysis shall consider current NNPS projects and the upcoming SHAPE NNPS effort. The contractor shall make recommendations on how to not interfere with those projects.

3.1.1. SUBTASK 1.1: Consultation Brief Requirements Analysis:

SHAPE Nuclear Operations will provide the contractor with the information to be presented in Consultation Briefs. The contractor shall provide a sample Consultation Brief as an annex to the final report. The contractor shall coordinate with SHAPE Special Weapons Branch and with the DSWA Field Office in Chievres, Belgium, as part of the investigation,.

3.1.2. SUBTASK 1.2: Data Requirements Analysis:

The contractor shall perform an investigation and analysis of the best means of developing the consultation subsystem. The contractor shall include the "Alternate World" functions, data base, and capabilities as part of the analysis. Because some Powerpoint Consultation Brief displays may have to be manually populated due to cost considerations, the contractor shall identify three separate levels of interaction in which the NCS automatically updates the preformatted the Consultation Briefs. Each level of interaction shall include estimated cost of implementation.

3.1.3. SUBTASK 1.3: Electronic Interface Analysis:

The contractor shall perform an investigation and analysis of the best technical means of moving data from NNPS into the NCS and automatically updating preformatted Powerpoint Consultation Briefs.

3.2. TASK 2: Annotated Briefing and Final Report:

The contractor shall document findings in Task 1 in an annotated briefing and in a final report. The annotated briefing and final report shall identify the technical process for integrating Powerpoint into the NNPS architecture. The annotated briefing and final report shall identify three separate levels of interaction between NNPS and the Powerpoint consultation software and shall include estimated costs for each level. The annotated briefing and final report shall identify production, development, and implementation timelines and strategies to coincide with the SHAPE infrastructure project.

OPTION I

3.3. TASK 3: Implement NCS into NNPS:

Based on the analysis performed in Task 1 and in coordination with SHAPE and NATO Command, Control, and Communications Agency (NC3A), the contractor shall implement the NCS by reengineering NNPS software as required. The contractor shall include the "Alternate

World" functions, data base, and capabilities as part of the implementation. Because some slides from the Consultation Brief may be required to be populated manually, the contractor shall design and implement the NCS to the level of interaction between Powerpoint and NNPS as specified by the DSWA Contracting Officer Technical Representative in coordination with SHAPE. The NCS shall enable SHAPE nuclear operations personnel to automatically populate Consultation Briefs from NNPS strike plans.

3.3.1. SUBTASK 3.1: Software Documentation:

The contractor shall provide full user documentation consisting of operating instructions for the electronic interface and custom developed software to be used with the NCS. The contractor shall update existing NNPS software and database documentation to reflect enhancements and changes.

3.4. TASK 4: Installation and Testing of NCS at SHAPE:

The contractor shall install and test the NCS software and NNPS software modifications at SHAPE. Installation shall include all hardware and documentation necessary to implement the modification required for automatically populated Consultation Briefs.

3.5. TASK 5: Testing and Evaluation of NCS at SHAPE:

The contractor shall develop a test plan of the NCS which will be approved by DSWA and SHAPE prior to testing. The contractor shall write the test plan in such a manner that DSWA will be able to evaluate that the NCS satisfies system objectives. Testing shall be done using real or simulated planning data following test plan approval by DSWA and SHAPE. The contractor shall also update the existing NNPS Test Plan to reflect enhancements and changes to the NNPS software and database. Upon completion of testing, the contractor shall deliver to DSWA and SHAPE all source code, executable code, and documentation developed under this effort.

OPTION II

3.6. TASK 6: Computer Administration and Support:

For a period of six months after the final delivery, the contractor shall provide computer system administration and software support for NCS. Support shall consist of assistance in configuring, troubleshooting, and managing the subsystem at SHAPE.

As part of this task, the contractor shall train SHAPE computer system personnel in the operational and maintenance aspects of the NCS such that SHAPE can assume responsibilities for the subsystem. The contractor shall submit a training plan to the COTR for approval one month prior to the test phase.

The contractor shall provide on-site technical support during SHAPE exercise ABLE ALLY 98.

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