

Jan 98

# STATEMENT OF WORK

## FOR

### EUROPEAN THEATER NUCLEAR FORCES IMPROVEMENT PROGRAM

#### 1.0 Background:

1.1 The Defense Special Weapons Agency (DSWA) has conducted mission-oriented research and development (R&D) programs in the European Theater since the mid 1970's. These programs provide operational support to USEUCOM and its subordinate commands and NATO (NATO IS/IMS/USMission) and SHAPE and the major subordinate commanders for the development and maintenance of WMD counterforce options, strategy development, planning systems development and support of the nuclear deterrent component of the NATO Strategic Concept. This operational support is accomplished by in-theater contract support from Daumerie Caserne in Chievres, Belgium.

1.2 This will be a DSWA level of effort contract to provide R & D technical support to US European Command (USEUCOM), NATO Supreme Headquarters Allied Powers Europe (SHAPE), and other U.S./NATO commands with the focus on improving the operational effectiveness, responsiveness, and survivability/security of theater forces supporting the deterrence of WMD threats and/or attacks on NATO and the maintenance of the nuclear deterrent component of the NATO Strategic Concept supported by USEUCOM and SHAPE and SACLANT.

1.3 The contractor shall work through Technical Instructions (TIs) that will be issued as required to provide support to the European theater in performing technical analyses on relevant WMD and deterrence related issues of critical importance to U.S./NATO commands. The issues to be examined include: deterrence with sub-strategic forces; NATO WMD defense requirements; force planning and employment systems support; nuclear deterrence planning options; technical support to US/NATO WMD policy option development; and US/NATO WMD and Alliance C2 issues. The TIs shall direct the Contractor on the requirements, level of effort, the deliverables and the time schedule. TIs shall be for major projects only, written by the Technical Manager and signed by the Contracting Officer.

#### 2.0 Applicable Documents: N/A.

3.0 Tasks: The contractor shall be required to provide support in the following task areas. This is a representative list, but not all inclusive, of the specific areas where support may be required. The contract level of effort will be one full time Principal Investigator (1 Manyear) and 6 manyears of analyst effort.

#### 3.1 TASK 1: WMD Defense/Deterrence Requirements

When directed, the contractor shall assist designated US and NATO commands in examining nuclear weapons requirements issues in Europe.

3.1.1. Contractor assistance may include assistance to commands/staffs in nuclear weapons

requirements analysis and evaluation of nuclear force mix issues.

3.1.2. Nuclear requirements such as the impact of advanced conventional munitions, arms control impacts and the possible effects of new technology may will be examined as required.

3.1.3. The contractor shall help identify, describe the areas in need of improvement, and recommend suitable solutions to shortcomings in WMD and nuclear deterrence planning.

3.1.4. Contractor will, as directed, provide direct technical support to exercise and planning software systems fielded by DSWA in support of USEUCOM, SHAPE and NATO which support WMD offense and defense options and the nuclear deterrent forces.

3.1.5. The contractor shall provide direct in-theater support to DSWA Advanced Concept Technology Demonstrations in theater and provide assistance to the promulgation of ACTD results as directed by DSWA to NATO elements.

### 3.2 TASK 2: WMD Threat Mitigation--Safety, Security, Survivability

The contractor shall examine nuclear survivability, security, and safety issues as directed.

3.2.1 The contractor shall participate in nuclear S3 reviews and other related DSWA or Theater sponsored activities which evaluate systems implications and alternatives relevant to S3 issues.

3.2.2. The contractor shall help identify and describe the areas in need of improvement, and recommend suitable solutions to shortcomings. Assistance under this task may include the Contractor reviewing future exploratory software developments that affect current or past software developed under DSWA sponsorship.

3.2.3. Direct support of the Joint Theater Surety Management Group (JTSMG) will be accomplished in support of the USEUCOM Co-Chairman of the JTSMG to include technical analysis of JTSMG issues approved by DSWA COTR and the taking, preparation and dissemination of the minutes of the JTSMG.

### 3.3 TASK 3: US/NATO WMD Command, Control and Communications (C3)

Command, Control and Communications in a nuclear environment presents a unique set of problems at all levels of command. Within this large set of problems are a series of issues that are unique to the European Theater. To assist DSWA in planning, implementation, integration, and application of its R&D programs the contractor shall:

3.3.1 Assist designated US and NATO Commands in identifying and articulating deficiencies or areas requiring improvements pertaining the C3 of WMD and nuclear deterrent options for defensive and offensive military options.. This evaluation shall include both current and proposed C3 systems in critical headquarters (e.g. Peace, War, Mobile, etc.). The contractor shall help identify and describe the areas in need of improvement, and recommend suitable solutions to shortcomings.

3.3.2 Assist designated US and NATO Commands in identifying theater requirements for automation to improve the command and control of nuclear assets. The contractor shall help identify and describe the areas in need of improvement, and recommend suitable solutions to

shortcomings.

3.3.3 The contractor shall participate in reviews and other related activities to evaluate systems implications and alternatives relevant to WMD C3 issues.

#### 3.4 TASK 4: Support of NATO Sub-Strategic Nuclear Forces/USEUCOM Nuclear Forces

The contractor shall assist US and NATO commands in studying nuclear environments, forces, and intelligence information to evaluate the implications of alternative nuclear attack or defense strategy operations and tactics. The contractor shall participate in reviews and other related activities to evaluate systems implications and alternatives relevant to the NATO defense posture and plans.

#### 3.5 TASK 5: General Support of Theater Liaison Activities

3.5.1. In support of DSWA theater liaison activities, the contractor shall maintain a theater contacts listing as well as projects(s) summary description listings oriented on each U.S. and NATO command supported.

3.5.2. The contractor shall periodically develop briefings for DSWA senior level management and theater commanders on topics of current interest as they relate to program objectives. These briefings may range from general overview on theater organizations, activities, linkages to selected task/task effort activities.

3.5.3. The contractor shall provide liaison for DSWA with USEUCOM command group and the EUCOM J-5 Nuclear Office on all WMD and nuclear matters as directed by the COTR.

#### 3.6 Options

OPTION NO. ONE: Contractor shall provide support for Tasks 1 - 5 as described in the Statement of Work from 2000 October 01 - 2001 September 30.

OPTION NO. TWO: Contractor shall provide support for Tasks 1 - 5 as described in the Statement of Work from 2001 October 01 - 2002 September 30.

OPTIONS THREE Contractor shall provide support for Tasks 1 - 5 as described in the Statement of Work from 2002 October 01 - 2003 September 30.

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