

May 13, 2003

MEMORANDUM TO: Jacqueline E. Silber, Deputy Chief Information Officer
Office of the Chief Information Officer

FROM: Glenn M. Tracy, Director /RA/
Division of Nuclear Security
Office of Nuclear Security
and Incident Response

SUBJECT: CAPITAL PLANNING AND INVESTMENT CONTROL
DOCUMENTATION FOR THE JOINT CONFLICT AND TACTICAL
SIMULATION SYSTEM PROJECT FOR THE OFFICE OF NUCLEAR
SECURITY AND INCIDENT RESPONSE

The Office of Nuclear Security and Incident Response (NSIR) is beginning the process of acquiring the Joint Conflict and Tactical Simulation System (JCATS) for use in its force-on-force security evaluation program. A Project Charter following the System Design and Life Cycle Methodology (SDLCM) format and an Independent Government Cost Estimate have been prepared and reviewed by Mr. Myron Kemerer and Ms. Kathleen Allen of your staff. A Business Case Kickoff Meeting was conducted on March 26, 2003, during which the JCATS project was characterized as Tier 2 according to Office of the Chief Information Officer's procedures for Capital Planning and Investment Control (CPIC). The Tier 2 determination was based primarily on JCATS' use of the Linux operating system and NSIR's requirements for the system to process sensitive unclassified and Safeguards Information.

In accordance with CPIC Tier 2 project requirements, NSIR is submitting abbreviated CPIC Screening Form Appendices A and B as Attachment 1. The JCATS Project Charter is also being submitted as Attachment 2 to satisfy CPIC Tier 2 project requirements for abbreviated versions of a Business Needs Statement and a Project Plan. Under the SDLCM approach, NSIR will develop and implement a detailed Project Plan following CPIC approval.

Attachments: As stated

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*See previous concurrence

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DATE	5/8/03	5/8/03	5/12/03	5/13/03

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Screening Form Appendix A - Project Characteristics/Government-wide Impacts

Will the project involve collaborative efforts with other agencies?	Yes	Yes, NRC will establish an Economy Act agreement with the US Secret Service to effect a memorandum of agreement with Lawrence Livermore National Laboratory/University of California
Will the project have any stakeholders external to NRC?	Yes	Facility licensees will use the project as part of NRC's Force-on-Force exercise program.
Will the project provide any E-Government, or E-Business (i.e., interactive Internet presence) components?	No	The project will be stand-alone with no Internet interface.
Does the project directly support either the Services to Citizens Support Delivery of Services Business Areas defined in the Federal Enterprise Architecture (FEA)?	No	The project supports neither of the business areas mentioned.
Is the project an integral part of the NRC's agency modernization (Enterprise Architecture) blueprint?	No	The project is stand-alone.
Does the Project have significant program or policy implications?	Yes	The project affects the NSIR Force-on-Force security evaluation program. The project also employs the Linux operating system which could have support policy implications for OCIO.
Does the project have high executive visibility?	No	The project is not a critical success factor for its parent program.

Screening Form Appendix B - Project Characteristics/NRC-Specific Impacts

Will the project require any changes to the current NRC infrastructure including the need for any additional operational support?	Yes	The project will require support for the Linux operating system and routine operational support for configuration control, backups, equipment maintenance.
Will the project result in or affect Web pages on NRC's public, internal, or other Websites? (If so, which Web domains will be affected?)	No	The project is stand-alone. There is no Web interface.
Will the project require a waiver from compliance with any NRC standards?	No	No waiver requirements have been identified.
Are there any issues related to project inclusion on or conformance with the NRC enterprise architecture?	No	The project will be stand-alone. No interface with the NRC enterprise architecture is anticipated.
Will the project involve the processing of any classified, sensitive, or privacy data?	Yes	The project will involve processing of Sensitive Unclassified and Safeguards Information.
Will the project need to use any acquisition vehicles other than those already available at the NRC?	No	NRC standard acquisition vehicles will be used.

PROJECT CHARTER

NSIR/JCATS

1 INTRODUCTION

This document is used to initiate a new project under the System Design Life Cycle Methodology (SDLCM). The Project Charter is developed in accordance with SDLCM Standard S-1051.

1.1 Background Summary

NSIR/DNS/SPES is responsible for various aspects of security performance evaluation including:

- tabletop exercises
- force-on-force exercises
- take-back strategies.

Historically, tabletop exercises have been conducted only at power reactor facilities and have not had benefit of real-time, interactive simulation of combat and tactics. Integration of these capabilities into the planning for force-on-force exercises and the development of take-back strategies will increase both the efficiency and effectiveness of the respective programs. Additionally, these capabilities can be used in the context of Category I fuel facilities and other NRC-licensed facilities for which security performance evaluation might be required.

1.2 Project Objectives

This project has the following objectives:

- integrate in-house capabilities to conduct Joint Conflict & Tactical Simulation System (JCATS) in a stand-alone environment

- develop capability to conduct JCATS scenarios in a conference/briefing room environment

- develop capability to conduct JCATS scenarios at regional offices and licensee sites

- establish a library of site-specific JCATS models for;
 - tabletop evaluations
 - force-on-force exercise planning
 - take-back strategy analyses

1.3 Interface Scope

The scope of the JCATS project interfaces includes:

- NSIR/DNS
- interfaces with the JCATS projects as the lead, or prime user. As such, DNS anticipates both startup costs and recurring FTE and contract monetary burden, involving:
 - project management
 - system quality assurance and configuration management
 - primary system operation

- Staffing requirements in the initial fiscal year may approach 1-1.25 FTE as the program is conceptually formed, designed, and integrated with the existing force-on-force/tabletop exercises. Short-term (2-4 year) staffing burden is expected to reduce to approximately 0.75-1.0 FTE as facility characteristics are programmed, cataloged, and placed under configuration control. Out-year staffing burden may reduce to approximately 0.5 FTE, subject to increased utilization for other tasks .

DOE/LLNL - interfaces with the JCATS projects as the prime contractor and:

- provides current supported JCATS software
- provides system requirements definition
- performs installation and provides startup support
- trains NSIR and OCIO staff

OCIO - provides project support by:

- Installation of necessary hardware at headquarters
- post-installation hardware support
- SDLCM oversight

RES - coordinates with NSIR/DNS in defining research on alternatives and industry modeling tool developments

Regions - support data requirements for JCATS facility/scenario library development

2 PROJECT ROLES AND RESPONSIBILITIES

2.1 Executive Sponsor

The Executive Sponsor is Glenn M. Tracy, Director, Division of Nuclear Security (NSIR/DNS).

2.2 Overall Project Manager

The Overall Project Manager is Alan L. Madison, Chief, Security Performance Evaluation Section, (NSIR/DNS/SPES)

2.3 Other Key Personnel and Stakeholders

The following key NSIR personnel will be assigned to the JCATS project:

Overall & Business Project Manager- Alan Madison, Chief, DNS/SPES

Technical Project Manager - Frank Collins, DNS/SPES

Development Team - Skip Kemerer, OCIO (CISSCO/SDLCM interface)
 John Sullivan, OCIO (CPIC/Business Case)
 TBD, OCIO (hardware/software integration)

Technical SME- David Orrik, DNS/SPES
 John Vanden Berghe, DNS/SPES
 Clay Johnson, DNS/SPES

Business Advocate- Jack Davis, Director, NSIR/PMDA
 Business Subject Matter Expert Lars Solander, NSIR/PMDA

Other Stakeholders- Vonna Ordaz, Chief, DNS/RSS
 Robert Nelson, Chief, DNS/FC&SSPS
 Facility Licensees

3 PROJECT APPROACH

NSIR will enter into a memorandum of agreement with the University of California through the Department of Energy (DOE) at Lawrence Livermore National Laboratory (LLNL) to obtain the current supported version of JCATS software and accompanying documentation. The agreement will include provisions for future support, technical consultation, and upgrades.

NSIR will implement an agreement with DOE/LLNL for initial setup, testing, and user training for the current supported JCATS version at NRC Headquarters. Regional participation will be encouraged.

DNS/SPES, in coordination with OCIO, will establish a stand-alone JCATS network with terminals for interactive scenario evaluation, workstations for interactive scenario development and execution, and conference room based briefings. SDLCM will be used to ensure quality assurance, configuration management, appropriate documentation, and full life cycle support.

DNS/SPES, as part of the physical design process, will establish portable JCATS capability for use at licensees' facilities to support tabletop and force-on-force exercises.

DNS/SPES, in conjunction with the Regions, will develop a library of site characteristic data for use in JCATS scenarios. Prioritization of sites will be consistent with NSIR's force-on-force exercise schedules.

DNS/SPES will support RES programs to evaluate new or alternative force-on-force models and tools.

4 CRITICAL SUCCESS FACTORS

The NSIR/JCATS project has few developmental or technical risk factors in that JCATS is a proven Commercial-Off-the-Shelf (COTS) modeling tool with no unique IT requirements.

Integration with projected TWFN physical facility planning by NSIR/PMDA will be required for establishing the JCATS stand-alone local area network.

Integration of JCATS with the existing force-on-force exercise processes, and take-back strategies is expected to be non-limiting to those existing programs. JCATS usage should be included in planning for force-on-force exercises and take-back strategy planning.

Project risk stems primarily from evolving budgetary considerations. JCATS has not been reflected in previous budget estimates. \$120K FY03 funds have been made available and JCATS is also represented in FY04-FY06 projections.

