



ACQUISITION,
TECHNOLOGY
AND LOGISTICS

THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

NOV 3 2006

MEMORANDUM FOR CHAIRMAN, DEFENSE SCIENCE BOARD CHAIRMAN, THREAT REDUCTION ADVISORY COMMITTEE

SUBJECT: Terms of Reference -- Joint Defense Science Board (DSB)/Threat Reduction Advisory Committee (TRAC) Task Force on the Nuclear Weapons Effects (NWE) National Enterprise

Request you form a Joint DSB/TRAC Task Force to assess the Nation's NWE Enterprise.

An April 2005 DSB Task Force on "Nuclear Weapons Effects Test, Evaluation and Simulation" identified the need for the Department of Defense (DoD) and the Department of Energy (DoE) to define and support a "national" enterprise for NWE modeling, simulation, test, and evaluation capabilities. Defense Threat Reduction Agency (DTRA) in DoD and the National Nuclear Security Administration (NNSA) in DoE, have signed a Memorandum of Understanding to coordinate on such matters and are discussing the integrated set of capabilities as envisioned in the national enterprise model. Still, the model has not yet been realized.

The need has recently grown more acute as Agencies and Services that have sponsored key simulator capabilities -- lacking a requirements pull from the Combatant Commanders and Services -- are facing simulator facility closures because of lack of paying users. The DSB report contends the capabilities are not ones the government should expect to be underwritten entirely by defense industry or Service customers, and, as a result, the government must be prepared to underwrite to some degree such national capabilities. At the same time, however, the Combatant Commands and Services must step up to the responsible consideration of nuclear survivability as part of the capabilities planning and resourcing process in DoD.

I request the joint DSB/TRAC task force elevate nuclear survivability as an important "requirement" and ensure a viable NWE assessment capability for the future. To this end, the task force is to:

1. Review and assess for adequacy of the:
 - a. Existing DoD standards for nuclear survivability, based on an assessment of current and emerging nuclear capabilities of potential adversaries.



b. Lists in DoD of critical warfighting and enabling systems and capabilities that must function through, or immediately after, a nuclear event.

c. Present and planned DoD programs and procedures for assessing these critical systems and capabilities against the applicable standards. Consider how well the DoD addresses vulnerabilities through the tradeoffs between hardening and other mitigation schemes.

d. Present and planned suite of test and simulation facilities used by DoD to support the DoD survivability programs.

2. Recommend a “national enterprise” for DoD and DOE to meet nuclear survivability program objectives in the future (2015 and beyond) that:

a. Includes DoD and DOE infrastructure.

b. Emphasizes a modeling and simulation-based approach, augmented by the necessary experimental capability necessary to develop, validate, and verify the models.

c. Provides for a transition from the current enterprise to the new approach without loss of present capability to support survivability program objectives.

d. Includes a viable business model that would provide sustained support for a baseline effort coupled to “campaigns” for:

(1) New or modified major systems.

(2) Hardness surveillance and maintenance programs of existing critical systems.

3. Evaluate the need for an ongoing oversight body or other management approach to assure the needed transformation to the modern national enterprise occurs.

The task force should coordinate with and/or leverage the:

1. Second phase of the congressionally sanctioned EMP Commission due to complete its work in 2007.

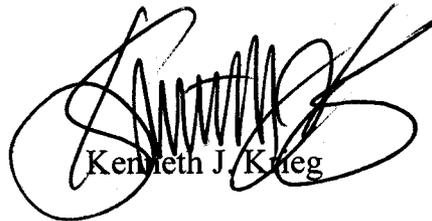
2. Army’s effort to address EMP issues.

3. Commercial space sector approach to radiation hardening using COTS components.

The task force will be sponsored by me as USD(AT&L) and the Assistant to the Secretary of Defense for Nuclear and Chemical and Biological Programs. Request the

NNSA Administrator support NNSA involvement. The task force will be co-chaired by Dr. Miriam John and Dr. Joseph Braddock. The executive secretaries will be Ms. Joan Pierre from DTRA and Dr. Ralph Schneider from NNSA. Commander Cliff Phillips will serve as the Defense Science Board representative.

The Task Force will operate in accordance with the provisions of Public Law 92-463, the "Federal Advisory Committee Act," and DOD Directive 5105.4, the "DoD Federal Advisory Committee Management Program." It is not anticipated that this Task Force will need to go into any "particular matters" within the meaning of title 18, United States Code, section 208, nor will it cause any member to be placed in the position of acting as a procurement official.



Kenneth J. Krieg

cc:
Administrator, NNSA