



ACQUISITION,
TECHNOLOGY
AND LOGISTICS

THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

DEC 01 2014

MEMORANDUM FOR CHAIRMAN, DEFENSE SCIENCE BOARD

SUBJECT: Terms of Reference –Task Force on Defense Strategies for Ensuring the Resilience of National Space Capabilities

In 2000, the Defense Science Board concluded that space superiority is absolutely essential in achieving global awareness, information dominance on the battlefield, deterrence of potential conflict and superior combat effectiveness of our forces. Since then we have made efforts to assess and enhance our space situational awareness, space protection, and space defense. At the same time, our potential adversaries have significantly advanced their awareness of our dependence on space for critical defense functions such as ISR sensing, communication, PNT and strategic indications and warning, and have developed and fielded capabilities to challenge these high-value operational enablers.

This study will identify and recommend, in the context of current and projected threats, strategies to enhance the net resilience of our national security space enterprise including those critical elements provided by our international partners and the commercial sector. The study should consider all facets of space control including the balanced roles of deterrence measures, the requirements of space situational awareness, protection measures and active defense concepts. Identification of critical enabling doctrine and policy concepts must also be considered. Questions the study may address include what are the demonstrated, evolving and projected future technical threats to our space security; what are the projected future motivations and intentions of both state and non-state actors to threaten the space enterprise; how can we achieve the necessary degree of space domain awareness sufficient to enable critical resilience strategies; what does science, technology and operational art contribute to deterrence and active defense concepts; and what are the vulnerabilities of and strategies for off-setting the space system architectures of potential adversaries.

I will sponsor the study. Dr. Wanda Austin, Ph.D., and VADM David E. Frost, USN Ret., will serve as Co-chairmen of the study. Colonel Russell F. Teehan, USAF, will serve as Executive Secretary. Captain James CoBell, USN will serve as the Defense Science Board Secretariat Representative.

The study will operate in accordance with the provisions of P.L. 92-463, the “Federal Advisory Committee Act” and DoD Directive 5105.04, the DoD Federal Advisory Committee Management Program.” It is not anticipated that this study 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 action as a procurement official.

Frank Kendall