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Committee for National Security Meeting Minutes, 12/15/97

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EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20502

CC: CHRON
CNS
RINALDI

January 27, 1998

MEMORANDUM FOR KERRI-ANN JONES

THROUGH: BRUCE MACDONALD *Bum*
FROM: STEVE RINALDI *SR*
SUBJECT: CNS Meeting Minutes

The final minutes for the December 15 CNS meeting are attached. I have verified that our changes have been incorporated. I have also included a short letter of transmittal to Wes Kitchens.

RECOMMENDATION

Sign the attached minutes and letter of transmittal.

Attachments

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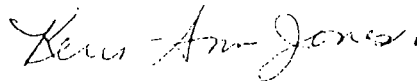
January 27, 1998

MEMORANDUM FOR CLARENCE W. KITCHENS, JR.
EXECUTIVE SECRETARY
COMMITTEE FOR NATIONAL SECURITY

SUBJECT: CNS Meeting Minutes

I approve the enclosed minutes of the July 17, 1997, meeting of the Committee for National Security.

Thanks!



Kerri-Ann Jones
Associate Director
for
National Security and International Affairs

Enclosure

NSTC COMMITTEE FOR NATIONAL SECURITY
Minutes -- Meeting of December 15, 1997

The Committee for National Security (CNS) held its fifteenth meeting on December 15, 1997. The Principals who attended are listed at Attachment 1. The primary purposes of the meeting were to discuss options proposed by the CNS Working Group on International Technology Transfer Issues and Policy, provide guidance to the group on their future direction and discuss possible new activities related to critical infrastructure protection. The meeting agenda is shown at Attachment 2.

I. INTRODUCTION

Dr. Kerri-Ann Jones introduced her co-chair, Dr. Jacques Gansler, the Under Secretary of Defense for Acquisition and Technology, who was attending his first meeting of the CNS.

II. CURRENT EFFORTS

A. International Technology Transfer Working Group

Dr. Jones introduced the subject and pointed out that international technology transfer is a complicated area, that the problem needs to be better defined, and that the group needs clear marching orders. She then introduced Dr. Steve Rinaldi of OSTP, who presented the progress report of the CNS Working Group on International Technology Transfer Issues and Policy.

Dr. Rinaldi went through the progress report, which had been included in the read-ahead package for the meeting. The working group focused its activities on evaluating existing data on and studies of technology transfer and interfaces with industry. The working group met with eight different groups as part of its review of currently existing data on technology transfer. One of the problems the group encountered was defining "critical technology," a term for which it found three different definitions. Although a considerable amount of statistical data and studies are available, these resources are not widely disseminated, and key decision makers and their staffs might not be aware of them. Furthermore, important interfaces with industry might be unknown and thus overlooked during policy deliberations. The working group contacted the Industrial College of the Armed Forces (ICAF) concerning ICAF's participation in this study. ICAF expressed interest in possible student projects, contingent on student interest, but the projects would have to be scheduled over a 6- to 12-month period to fit the academic year. The working group recommended that its focus in the next quarter be on tasks 8 (characterize benefits and risks of technology transfer) and 9 (identify effects current mechanisms have on technology import). The long-term activities should examine tasks 6 (interagency issues and differences on technology transfer) and 7 (technology transfer process improvements).

Dr. Gansler asked what the problem was that the group was trying to solve, since it wasn't clear from the stated objective. Mr. William Reinsch responded by pointing out that the Extreme Ultraviolet Lithography Cooperative Research and Development Agreement (EUV CRADA) with DOE may eventually involve foreign technology transfer, but that there is no mechanism to address the issue in a coherent fashion. Each agency is looking at the problem from the perspective of its own portfolio, but no one is looking at a national policy. Mr. Reinsch felt that the priority should be on tasks 6 and 7 rather than 8 and 9 as recommended by the group. After some discussion, the committee agreed that the group should focus on tasks 6 and 7. In particular, the group should examine mechanisms (e.g., an organizational structure) that could

consider individual cases as they developed. Dr. Gansler indicated that the group should concentrate on task 7, with nominal effort on task 6. When the group identifies a mechanism, it should be tested on a half dozen cases or so to provide validity. The principals agreed that it would not be appropriate for ICAF to undertake a major new study for the working group, given its academic schedule constraints, and that it is not a multiagency institute. Dr. Jones encouraged the members of the working group to take a more active role.

B. Non-Proliferation and Arms Control Technical Working Group

Dr. Jones introduced Ms. Sallie Mullins of ACDA, one of the three co-chairs of the Non-Proliferation and Arms Control Technical Working Group (NPAC/TWG). Dr. Jones indicated that the group had been in existence for 3 years and had done a good job of gaining ground truth in the area. She had attended the last meeting of the NPAC/TWG, in October 1997, and found policy observations and funding issues identified by the group that were beyond its scope and in need of a forum for further discussion. CNS could be such a forum. As a result, she invited Ms. Mullins to speak about some of the things that had been uncovered that might be of interest to the CNS.

Ms. Mullins believes that there has been good coordination among the TWG members. The problem has been in acquiring the recommended funding. The NPAC/TWG is now working with the Counter Proliferation Review Committee (CPRC) to address common areas of interest. One such area is detecting, characterizing and monitoring; common issues include sensor development and deployment, and modeling. Unattended remote sensors are a useful and productive approach, but programs in this area are vulnerable within various agencies; a more stable 6.1 and 6.2 funding line is necessary for long-term success. However, there is no central leadership in the area of unattended remote sensors. The Measurement and Signature Intelligence (MASINT) office seems to be the logical organization for central leadership. The NPAC/TWG is working with the CPRC to develop an integrated R&D and acquisition plan for unattended remote sensors to improve developer coordination and user acceptance.

Plume modeling is another common area. Although many models exist, agencies tend not to trust models developed by someone else. The Defense Special Weapons Agency (DSWA) has a small effort funded through George Mason University to understand the input parameters to the various models. The TWG recommends that the effort be expanded to develop a matrix that considers a variety of situations in which the models might be used (e.g., battlefield, counterterrorism) and important parameters (e.g., altitude, particle size). The goal would be to determine which models are best suited for specific situations. It was estimated that it would cost \$1.3 million over 3 years to develop this matrix. This would include some R&D and some O&M work on the models.

As an example of why this work is needed, it was pointed out that some models may give two different answers with the same input. Validation and verification may be necessary on some models. The TWG has a proliferation modeling focus group that is monitoring this area. What is needed is better interagency coordination and a slight increase in funds. In response to a question, it was noted that other agencies (e.g., Nuclear Regulatory Commission, NOAA, National Weather Service) use plume models. Plume modeling cuts across the nonproliferation and arms control spectrum.

The NPAC/TWG seeks CNS interest and support in furthering policy discussions on such issues. Dr. Jones suggested that, in addition to its annual report, the NPAC/TWG provide a short list of policy recommendations for the CNS to consider at its next meeting. Ambassador James Sweeney recommended that the list include funding associated with each recommendation.

III. POSSIBLE NEW EFFORTS

A. Critical Infrastructure Protection

Dr. Jones cited the President's Commission report on Critical Infrastructure Protection, which states that R&D in this area is inadequate and should be doubled from the current level of \$250 million. She and Mr. Reinsch sit on the interagency working group (IWG) that is reviewing the report. Discussions have been held on what structure should be established to carry out whatever the government decides to do. The IWG is considering proposals on how to coordinate the R&D.

Dr. Jones has proposed that the CNS be tasked to coordinate the R&D program. This would require working with the Committee on Technology of the NSTC. An IWG involving the two committees would be established. It would also be necessary to have additional members (e.g., Department of Justice). Mr. Reinsch stated that he has spoken with NIST and that they are comfortable with such a group. The CNS agreed that R&D coordination is needed. Dr. Jones indicated that her office is looking into how the Commission calculated the \$250 million funding level and has asked OMB to independently identify the FY98 and FY99 critical infrastructure protection R&D funding levels.

This effort could result in a heavy staff workload, and the group should consider who from each agency would be the appropriate person to work on it. Acceptance of this task would mean that the CNS would have to meet more often, perhaps every 6 weeks. Mr. Reinsch stated that he was glad Dr. Jones was doing the ground work on critical infrastructure protection because it could become the "issue of the year" and receive more money from Congress.

There was consensus among the committee members with the recommendation that the CNS coordinate the R&D on this topic.

IV. OTHER BUSINESS

There was no other business.

V. CLOSING REMARKS

The next meeting will be scheduled for mid-February 1998.

Dr. Jacques Gansler, Chair (date)

Kerri-Ann Jones 1/27/98.
Dr. Kerri-Ann Jones, Co-Chair (date)

Attachments:

1. List of Principals attending
2. Meeting agenda
3. Progress Report Briefing of the CNS Working Group on International Technology Transfer Issues and Policy

**Principals Attending Meeting of Committee for National Security
December 15, 1997**

Dr. Jacques Gansler, Chair	Under Secretary of Defense for Acquisition and Technology
Dr. Kerri-Ann Jones, Co-Chair	Associate Director, National Security and International Affairs, Office of Science & Technology Policy
Ms. Rose Gottemoeller	Director, Office of Non-Proliferation and National Security
GEN John R. Dailey	Associate Deputy Administrator, NASA
Mr. William Reinsch	Under Secretary of Commerce for Export Administration
Dr. Ruth David	Deputy Director, Science and Technology, CIA
Ambassador James Sweeney	Special Representative of the President and Chief Science Advisor, Arms Control and Disarmament Agency
Vice Admiral Richard Herr	Vice Commandant, Coast Guard

**Agenda for the Meeting of the
NSTC COMMITTEE FOR NATIONAL SECURITY**

**December 15, 1997
2:00-3:30 PM
Pentagon, Room 3D1019**

I. INTRODUCTION

II. STATUS OF CURRENT EFFORTS

- International Technology Transfer Interagency Working Group
- Non-Proliferation and Arms Control Technical Working Group (NPAC-TWG)

III. POSSIBLE NEW EFFORTS

- Critical Infrastructure Protection

IV. OTHER BUSINESS

V. CLOSING REMARKS