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## HOMELAND SECURITY

### *Research and Development in the President's 2007 Budget*

Research and development (R&D) continue to play a key role in securing the Nation against the terrorist threat. The President's FY 2007 Budget maintains an aggressive investment of over \$4.8 billion in scientific research, technology development, and research infrastructure aimed at continuing to enhance our Nation's domestic security. Priority research areas include:

**Protecting the Nation from Nuclear Terrorism:** To continue to develop the tools necessary to prevent the terrorist use of a nuclear weapon against the United States, the President's FY 2007 budget request supports aggressive R&D and operational programs for nuclear defense, including a requested \$535 million in FY 2007 (a 70 percent increase over FY 2006 funding) to expand and support the capabilities of the Domestic Nuclear Detection Office (DNDO) within the Department of Homeland Security (DHS). DNDO is working to develop and deploy a comprehensive system to detect and mitigate any attempt to import, assemble or transport a nuclear explosive device, fissile material or radiological material intended for illicit use within the U.S.

**Countering the Threat from Explosives:** Conventional explosives used in the form of improvised or vehicle born explosive devices remain one of the most accessible weapons available to terrorists to attack and cripple critical infrastructure, or to inflict severe casualties. The President's FY 2007 budget request will provide substantial funding for R&D projects to address this threat, including \$86.5 million for explosives countermeasures research in DHS, and \$20 million within the National Science Foundation (NSF).

**Enhancing the Nation's Biological, Chemical, and Radiological Defenses:** The President's FY 2007 budget request continues to provide strong support for the development of novel medical countermeasures against biological, chemical, and radiological threats. The Department of Health and Human Services (HHS) continues to lead this effort with \$1.89 billion in funding requested to support the National Institute of Allergy and Infectious Disease's research programs. This funding will also address the challenges of bringing new countermeasures to market, and includes \$159.5 million to support advanced development.

**Securing the Nation's Information Technology Infrastructure:** The FY 2007 Budget provides additional investments in cyber security and information assurance R&D. These investments are aimed at enhancing the security of the Nation's information technology infrastructure, which underpins every sector of the economy, enables network-centric national defenses, and facilitates coordination of federal, state and local government. This includes a 28 percent increase for NSF to invest in long-term cyber security research under their Cyber Trust and related programs; and a 38 percent increase in R&D for DHS to enhance the basic security of the Internet, support large-scale cyber security test beds and data sets, and develop highly scalable identity management technology.

**Protecting the Nation's Food and Livestock:** \$539.7 million is allocated for the U.S. Department of Agriculture, HHS and DHS to continue efforts to improve food and agriculture defense. This includes funding for an interagency office to coordinate the advanced development of countermeasures to prevent and mitigate the effects of threats to our Nation's animal agricultural industry.

**Protecting Water Infrastructure and Improving Decontamination:** The President has requested a total of \$94 million to fund new and ongoing research in water security and post-incident decontamination at the Environmental Protection Agency. This includes research and development for monitoring and surveillance of terrorist threat agents in drinking water and the strengthening of decontamination capabilities.