Domestic Nuclear Detection Office (DNDO) Overview

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DNDO was founded on April 15, 2005 with the signing of NSPD 43 / HSPD 14. It is a jointly-staffed, national office established to improve the Nation’s capability to detect and report unauthorized attempts to import, possess, store, develop, or transport nuclear or radiological material for use against the Nation, and to further enhance this capability over time.

- Develop the global nuclear detection and reporting architecture
- Develop, acquire, and support the domestic nuclear detection and reporting system
- Characterize detector system performance before deployment
- Establish situational awareness through information sharing and analysis
- Establish operational protocols to ensure detection leads to effective response
- Conduct a transformational research and development program
DNDO: An Interagency Office

- DNDO is an interagency office comprised of detailees and liaisons from:
  - Department of Energy
  - Department of Defense
  - Department of Justice/Federal Bureau of Investigation
  - Department of State
  - Nuclear Regulatory Commission

- DNDO also has detailees from other DHS components such as the U.S. Coast Guard, and Customs and Border Protection.

- The National Labs, academia, and private industry conduct research that directly supports the DNDO mission.

- DNDO maintains strong relationships with State and local entities to help develop and deploy the domestic nuclear detection architecture.
DNDO Directorates

- Office of the Director
- Chief of Staff
- Systems Architecture
- Systems Engineering & Evaluation
- Mission Management
- Operations Support
- Product Acquisition & Deployment
- Transformational & Applied Research
- National Technical Nuclear Forensics Center
The Global Nuclear Detection Architecture

The global architecture comprises several key elements:

- A multi-layered structure of rad/nuc detection systems, deployed both domestically and overseas;
- A well-defined and carefully coordinated network of interrelationships among them;
- Guidelines governing the architecture’s design and evolution over time.

Proposed improvements in the architecture must be balanced, robust, adaptive/ responsive, cost-effective, and supported by disciplined system engineering approach.

Substantial risk reduction is the aim.
Key Mission Areas

DNDO focuses on increasing detection capabilities in key mission areas as part of a comprehensive strategy to protect the Nation against radiological and nuclear threats.

- Land Borders (including regions between ports-of-entry)
- Maritime (including Cargo Sea Ports of Entry and Small Maritime Vessels)
- Aviation (including Airports of Entry and General Aviation)
- Domestic Interior
PRND Capability Development

• PRND Target Capability
• Program Assistance
  – Preventive Rad/Nuc Detection (PRND) Program Management Handbook
    • Commercial Vehicle Inspection (CVI) module
    • Maritime module
    • Special Event module
• PRND Training
• PRND Exercises
• PRND Test Reports
DNDO Testing and Evaluation

- Establishes systems performance requirements and specifications
- Operational modeling and simulation studies to inform policy decisions
- Conducts test and evaluation campaigns of Commercial Off-the-Shelf (COTS) systems, as well as next-generation technologies under development
- Creates test reports to aid selection of PRND equipment based on mission needs
State and Local Stakeholders Working Group

- Meets semi-annually
- Over 100 representatives from 25 States
- Develops programs and products for use by Federal, State and local agencies conducting PRND operations
Welcome to the DANDO Preventive Rad/Nuc Detection (PRND) Community of Interest (COI)

The Domestic Nuclear Detection Office (DNDO) was established to substantially reduce the risk of nuclear terrorism against the United States by continuously improving capabilities to detect, respond, and attribute attacks, in coordination with domestic and international partners. To facilitate the Preventive Radiological/Nuclear Detection (PRND) mission, DNDO has created and maintains a PRND Community of Interest (COI) to provide consistent, useful PRND information to all users while fostering collaboration amongst external partners.

1. Federal Agencies - DHS/DNDO Headquarters; FEMA and other DHS components; other Federal agencies with an interest in obtaining/ sharing PRND information and collaboration.
2. State, local, territorial and tribal government agencies with an interest in obtaining/ sharing PRND information and collaboration.
3. Laboratories and academic organizations with an interest in obtaining/ sharing PRND information and collaboration.

We anticipate this COI will bring forth some great collaboration... Enjoy!

For first time visitors:
- Please go to the Contacts tab and enter your contact information.
- Please visit our Capability Development page for information related to DNDO.

Capabilities:
- Plans
- Organization
- Equipment
- Training
- Exercises
- Operations

What's New on PRND COI?

- DocuSubmit: A new multi-document submission form
- Updates on PRND COI changes
- Updates on PRND COI standards

What's New on DNDO?

- New DNDO website
- New DNDO portal
- New DNDO training courses

Contact DNDO:
- Outreach Coordinator
- Technical Coordinator
- Operations Coordinator

Take a Tour of HSIN

Training Page
Training Courses
HSIN FAQs
HSIN Help
DNDO is working to develop and deploy a global nuclear detection and reporting architecture to reduce the risk from the nuclear threat.

- DNDO is an interagency office tasked with the development of the global nuclear detection and reporting architecture.
- DNDO maintains an aggressive system development and acquisition process to rapidly deploy detection systems.
- DNDO has conducted several test series to evaluate the effectiveness of technologies and deployed systems.
- State and local entities play an important role in the global nuclear detection and reporting architecture.
- DNDO partners with Federal, State, and local agencies to develop and deploy Preventive Rad/Nuc Detection (PRND) capabilities nationwide.