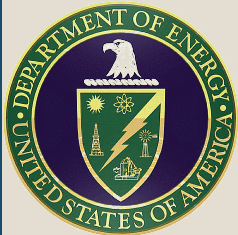


DOE Nuclear Safety Research and Development Program



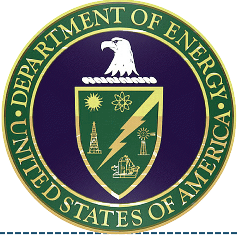
**PRESENTED AT THE
NATIONAL ORGANIZATION OF
TEST, TRAINING AND RESEARCH REACTORS
2013 ANNUAL CONFERENCE**

**ALAN LEVIN
MANAGER, NSR&D PROGRAM
OFFICE OF NUCLEAR SAFETY
OFFICE OF HEALTH, SAFETY AND SECURITY
U.S. DEPARTMENT OF ENERGY**



SEPTEMBER, 2013



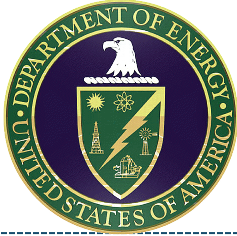


Presentation Overview



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- **Nuclear Safety Research and Development (NSR&D) History**
- **NSR&D Program Goals**
- **NSR&D Program Operating Plan**
- **Current Program Activities**
- **Near-Term Objectives**
- **Anticipated Program Activities**
- **Funding NSR&D**
- **Conclusion**
- **Contact Information**

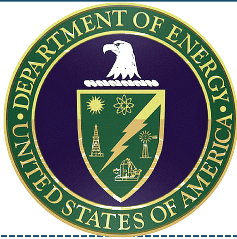


NSR&D History



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- **Defense Nuclear Facilities Safety Board Recommendation 2004-1: “[E]nsure continued integration and support of research, analysis, and testing in nuclear safety technologies.”**
- **2004 – Implementation Plan included commitments to develop a plan to**
 - **Identify NSR&D needs and assess if they are met**
 - **Ensure NSR&D needs are budgeted and share results**
- **2006 – Updated plan assigned NNSA as the responsible organization**
- **2011 – Responsibility transferred to Office of Health, Safety and Security (HSS) under the Office of Nuclear Safety, to develop corporate NSR&D Program covering both civilian and defense nuclear facilities**

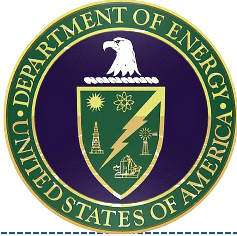


NSR&D Program Goals



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- **A focused, DOE-wide corporate effort on NSR&D**
- **Coordination across the complex of the NSR&D efforts (completed, ongoing, and proposed)**
- **Comprehensive determination and prioritization of needs and assessment of research results**
- **A vehicle to disseminate NSR&D results and information**

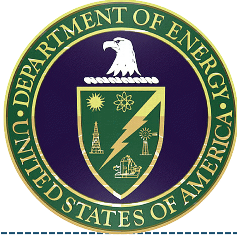


NSR&D Program Operating Plan



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- **The NSR&D Program is managed by the Office of Nuclear Safety, HSS**
 - **Process developed for identification and prioritization of NSR&D needs, activities, and results**
 - **NSR&D website and database to disseminate results and inform the NSR&D community of NSR&D activities**
- **NSR&D Committee chartered by HSS, with representation from all DOE program offices responsible for nuclear facilities, to coordinate activities across the complex**
- **DOE's Nuclear Safety Council provides guidance to the NSR&D Program, Committee, and activities**
- **Office of Nuclear Safety projects support policy, directives, and technical standards development**
 - **ONS projects do not replace program office-funded NSR&D projects**

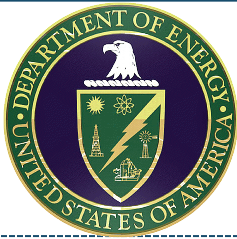


Current Program Activities



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- **NSR&D webpage established under ONS webpage**
- **Plan for NSR&D database to collect and disseminate results, reports, and program contacts under development**
- **First call for proposals for NSR&D projects distributed in 2013**
 - **Three projects selected for support**
 - **Current projects involve non-reactor safety issues, but future projects may also consider issues relevant to DOE reactor facilities**

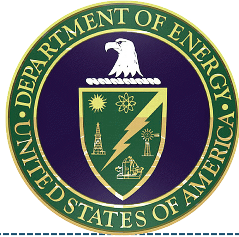


Near-Term Objectives



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- **Implement the NSR&D Program Operating Plan**
- **Initiate the development of the NSR&D database**
- **First Annual Report on NSR&D activities across DOE/NNSA**

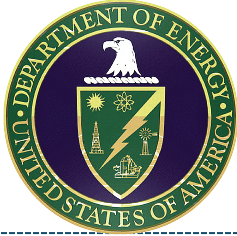


Anticipated Program Activities



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- **Annual proposal solicitation and project selection**
- **NSR&D Annual Report**
- **Annual briefing to the DNFSB**
- **NSR&D Conference for communication and integration of projects**
- **Enhance methods for identifying and prioritizing NSR&D needs**
- **Expand outreach, networking, and information exchange on NSR&D with national and international organizations**

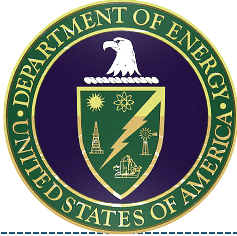


Funding NSR&D



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- **Funding for national laboratory-based NSR&D should utilize program and laboratory-directed R&D support before seeking NSR&D Program funds**
- **NSR&D Program-funded projects should have cross-cutting benefit to multiple program offices, potential for cost savings, and advance the fundamental understanding of nuclear safety science and technology**
- **Proposals must have endorsement from appropriate site and program offices**

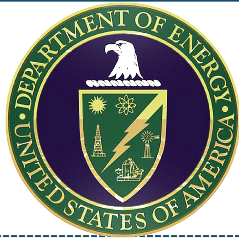


Conclusion



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- **The Office of Nuclear Safety looks forward to expanding both the number and scope of DOE NSR&D projects in coming years**
- **Contacts with organizations such as TRTR will enhance the Office of Nuclear Safety's ability to identify nuclear safety issues and support appropriate R&D to address those issues**



Contact Information



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Dr. Alan E. Levin
Senior Technical Advisor
NSR&D Program Manager
Office of Nuclear Safety
301-903-1315
alan.levin@hq.doe.gov