

# Peer Review and Design Competition in the NNSA National Security Laboratories



The National Nuclear Security Administration (NNSA) is responsible for providing and maintaining the capabilities necessary to sustain a safe, secure, and reliable nuclear weapons stockpile for the nation and its allies. Major responsibility for meeting the NNSA missions falls to the three NNSA laboratories: Los Alamos National Laboratory (LANL), Lawrence Livermore National Laboratory (LLNL), and Sandia National Laboratories (SNL). The NNSA National Security Laboratories contribute to that goal by maintaining the skills and capabilities necessary for stewardship of a reliable nuclear stockpile and also by maintaining a high level of technical credibility, which is a component of the nuclear deterrent. Since 1992 it has been U.S. policy not to conduct explosion tests of nuclear weapons. The resulting technical challenges have been substantial. Whereas a nuclear test was in some sense the ultimate peer review of the performance of a particular NEP design, the cessation of nuclear testing necessitated a much greater reliance on both intralab and interlab expert peer review to identify potential problems with weapon designs and define the solution space. This report assesses the quality and effectiveness of peer review of designs, development plans, engineering and scientific activities, and priorities related to both nuclear and non-nuclear aspects of nuclear weapons, as well as incentives for effective peer review. It also explores how the evolving mission of the NNSA laboratories might impact peer review processes at the laboratories that relate to nuclear weapons.

**Peer Review and Design Competition in the NNSA National Security** National Academies of Sciences, Engineering, and Medicine. 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. **4 The Future: Responding to Evolving Challenges** Peer Review Competition in the NNSA National Security Laboratories, a study by the of peer review and design competitions related to nuclear weapons at its nation-. **Peer Review and Design Competition in the NNSA National Security** - Google Books Result National Academies of Sciences, Engineering,

and Medicine. 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. **Federal Laboratories - The National Academies of Sciences** The NNSA National Security Laboratories contribute to that goal by maintaining peer review of the performance of a particular NEP design, the cessation of **1 Introduction and Charge Peer Review and Design Competition in** Jan 12, 2016 National Academies Study on Peer Review and Design Competition in the NNSA National Security Laboratories. Date: Tuesday, January 12 **Peer Review and Design Competition in the Nnsa National Security** 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. Washington, DC: The National Academies Press. doi: 10.17226/21806. Peer Review and Design Competition in the NNSA National Security Laboratories. The National Academy of Sciences was established in 1863 by an Act of Congress **The Quality of Science and Engineering at the NNSA National** Jan 31, 2016 Peer Review and Design Competition in the NNSA National Security Laboratories by Engineering National Academies of **Peer Review and Design Competition in the NNSA National Security** National Academies of Sciences, Engineering, and Medicine. 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. **Summary Peer Review and Design Competition in the NNSA** **Peer Review and Design Competition in the NNSA National Security** Jan 12, 2016 Peer Review and Design Competition in the NNSA National Security Laboratories. Congressional Hearing Testimony. January 12, 2016. **Peer Review and Design Competition in the NNSA National Security** Peer Review and Design Competition in the Nnsa National Security Laboratories: : Committee on Peer Review and Design Comp, Laboratory **Peer Review and Design Competition in the Nnsa National Security** National Academies of Sciences, Engineering, and Medicine. 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. **Aligning the Governance Structure of the NNSA Laboratories to** 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. Washington, DC: The National Academies Press. doi: 10.17226/21806. **National Academies Study on Peer Review and Design Competition** 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. Washington, DC: The National Academies Press. doi: 10.17226/21806. **Peer Review and Design Competition in the NNSA - Pinterest** Major responsibility for meeting the NNSA missions falls to the three NNSA laboratories: Los Alamos National Laboratory (LANL), Lawrence Livermore National **3 The Present: From 1992 Until Today Peer Review and Design** Peer Review and Design Competition in the NNSA National Security Laboratories (2015). Download a free PDF at **2 The Past: Before the 1992 Nuclear Explosion Testing Moratorium** The NNSA laboratories will remain a critically important resource to meet Cover Image: Peer Review and Design Competition in the NNSA National Security **Peer Review and Design Competition in the NNSA National Security** Project Scope. For the National Nuclear Security Administrations three national security laboratories--Los Alamos National Laboratory, Lawrence Livermore **Appendix A: Biographical Sketches of Committee Members** **Peer** National Academies of Sciences, Engineering, and Medicine. 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. **National Academies Study on Peer Review and Design Competition** Peer review and design competition contribute essentially to that quality. the NNSA national security laboratories have benefited from peer review of several **Comments on NAS Report\_v2 - House Docs** Jan 12, 2016 National Security Laboratories. Committee on Peer Review and Design Competition Related to Nuclear Weapons Division on Engineering **Project: Peer Review and Design Competition Related to Nuclear** Jan 12, 2016 Hearing: National Academies Study on Peer Review and Design Competition in the NNSA National Security Laboratories. Subcommittee on **Managing for High-Quality Science and Engineering at the NNSA** National Academies of Sciences, Engineering, and Medicine. 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. **Download Free PDF - The National Academies Press** Description: The three National Nuclear Security Administration (NNSA) Despite this broadening of substance and support, these laboratories remain the Cover Image: Peer Review and Design Competition in the NNSA National Security **Appendix C: Authorizing Language for the Study** **Peer Review and** National Academies of Sciences, Engineering, and Medicine. 2015. Peer Review and Design Competition in the NNSA National Security Laboratories. **Peer Review and Design Competition in the NNSA National Security** Download a PDF of Peer Review and Design Competition in the NNSA National Security Laboratories by the National Academies of Sciences, Engineering,