

## BIOGRAPHY

### Dr. Joan B. Woodard

*Executive Vice President and Deputy Laboratories Director for Nuclear Weapons  
Sandia National Laboratories*



Dr. Joan Woodard is currently Executive Vice President and Deputy Laboratories Director for the Nuclear Weapons Program at Sandia National Laboratories. This management role includes oversight of engineering support and design to the nation's nuclear weapons stockpile; research, development and testing services for our customers; and the manufacture of specialized non-nuclear products and components for national defense and security applications—to enable safe and secure deterrence through science, engineering, and management excellence. Dr. Woodard also chairs the Laboratories' management council for Nuclear Weapons, comprised of various laboratory Vice Presidents.

From 1999 to 2005, Dr. Woodard served as the Executive Vice President and Deputy Director for Sandia National Laboratories. In that role, as the Chief Operating Officer of the Laboratories, she was responsible for Sandia's programs, operations, staff, and facilities; for developing policy and assuring implementation; and for strategic planning for the laboratory mission direction and quality of program performance.

Prior to 1999, Dr. Woodard was Vice President of the Energy Information and Infrastructure Technology Division. Her responsibilities included energy-related projects in fossil and renewable energy supply technology, geosciences, nuclear power safety and severe accident analysis; environment-related programs in remediation, nuclear waste management and repository certification as well as waste minimization; information technology programs in information surety, command-and-control systems, and distributed information systems; and programs responsible for security of the transportation of nuclear weapons and special nuclear materials, and safety of commercial aviation.

Dr. Woodard joined Sandia in 1974 and conducted research in areas ranging from economic analysis of energy technologies and heat transfer phenomenon during combustion processes, to waste management and pollution prevention. As Director of the Environmental Programs Center, she managed research and development programs, including site characterization and remediation technology, radioactive material transportation technology, and mixed waste separation processes and materials. She has worked in the national security and weapons programs of the lab leading a materials support group and managing the Neutron Generator and Explosives Component Center.

Dr. Woodard currently serves on external panels and boards including the Air Force Scientific Advisory Board, the Congressional Commission to Assess the Vulnerabilities of the US Infrastructure to Electromagnetic Pulse, and the Defense Science Board (DSB) Task Force on Nuclear Capabilities. She has served as a study group member for the DSB study on Homeland Security; and as co-chair of the special study of the National Security Space Program for the DoD and CIA. She also served on the National Academy Study on S&T for Countering Terrorism, resulting in the publication report "Making the Nation Safer."

Dr. Woodard is a lifetime member of the Society of Women Engineers; a member of the New Mexico Women's Forum; a member of the University of Missouri-Rolla Dean's Engineering Advisory Board, Board of Trustees and Energy Center Advisory Council; a member of the Kirtland Honorary Commanders Advisory Council; and a member of the Family Security Group Board of Advisors Center for Security Policy. She serves on the Board of Directors of the Bosque School and also serves as a corporate director for PNM Resources, Inc. (NYSE), serving on both the Finance and Human Resources and Compensation Committees. She is a graduate of the Stanford Directors' College.

Dr. Woodard holds a Ph.D. in Mechanical Engineering (Thermal Sciences) from the University of California Berkeley; an M.S. in Engineering Economic Systems from Stanford University; and a B.S. in Applied Mathematics and Computer Science from the University of Missouri-Rolla (magna cum laude). She has been elected to the Phi Kappa Phi Honor Society.

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