

Mr. Kevin D. Kimball is the Director of the Safety Analysis Engineering Organization for the Department of Energy (DOE) National Nuclear Security Administration (NNSA) Y-12 National Security Complex. In this capacity, Mr. Kimball is responsible for the management of all safety analysis including nuclear criticality safety, facility safety, and fire protection analysis for the Y-12 Site as well as the design of the new Uranium Processing Facility. Mr. Kimball has 20 years of experience with DOE nuclear facilities in the management of safety analysis engineering including nuclear criticality safety and nuclear safety (facility safety basis) and has experience at over 20 commercial and DOE nuclear facilities. Mr. Kimball received his Masters of Science in nuclear engineering from the University of Illinois at Urbana-Champaign (1982) and his Bachelors of Science in nuclear engineering from the University of Virginia (1976).

Mr. Kimball began his career with the United States Navy in surface warfare, with his last assignment as the associate professor of naval engineering for the Naval Reserve Officer Training Center at the University of Illinois. In 1981, he joined Impell Corporation; a large engineering services firm that provided engineering services to the commercial nuclear industry. His last position at Impell Corporation was as the Manager of Systems Analysis for the southeast region of the United States where he was responsible for areas such as licensing, safety analysis (e.g. fire protection, environmental equipment qualification, reliability/Probabilistic Risk Assessments, configuration management, design basis services), and systems analysis (e.g. thermal-hydraulic analysis, safe shutdown analysis). In 1991, Mr. Kimball joined Science Applications International Corporation as a Deputy Operations Manager responsible for development of external events analyses for commercial nuclear facilities. In 1992, Mr. Kimball started up NISYS Corporation; a small business specializing in safety analyses including nuclear criticality safety to both the commercial and government nuclear facilities. The company was acquired in 2008 by Enercon Services, Inc. and he continued with Enercon until 2011.

Mr. Kimball's areas of expertise include nuclear criticality safety and facility (nuclear) safety. Prior to his current position, Mr. Kimball was the nuclear safety manager and engineering manager for the 3019 Building U-233 Dissolution and Downblend Project at the Oak Ridge National Laboratory and also served as the Nuclear Criticality Safety manager for the Oak Ridge TRU-Waste Facility. Mr. Kimball served on the senior criticality safety review boards for Bechtel Jacobs Company, LLC and for the Y-12 National Security Complex. During his career, he qualified as a nuclear criticality safety engineer at:

- All DOE-EM Oak Ridge Facilities
- Rocky Flats Environmental Technology Site
- USEC's Portsmouth Gaseous Diffusion Plant in Piketon, Ohio, and
- Nuclear Fuels Services' Erwin Plant in Erwin, TN

Some of Mr. Kimball's accomplishments include:

- Authored a paper for the American Nuclear Society on integrating the nuclear criticality safety and safety basis disciplines that became the foundation for DOE-STD-3007-2007.

- Developed the statistical methodology for determining criticality code biases for the Savannah River Site that formed the foundation for NUREG-CR-6698.
- Developed the processes for the nuclear analysis of Criticality Accident Alarm System design at the East Tennessee Technology Park, 3019 Facility at ORNL, and the Amercian Centrifuge Plant in Piketon, OH, and initiated a new process for integrating Emergency Planning, the Documented Safety Analysis and the immediate evacuation zone strategy for criticality events.
- Performed nuclear criticality experiment reviews for the International Criticality Benchmark Evaluation Project
- Developed a guidance document on establishing the range of applicability of critical benchmark experiments for the Savannah River Site.

Mr. Kimball is a professional engineer registered in the state of Georgia and is a member of the Nuclear Criticality Safety Division (NCSD) of the American Nuclear Society (ANS). He has served as the Chair, Vice Chair, Treasurer, Secretary, and Member of the Executive Committee of the NCSD. He is also involved in the ANS-8 series of national standards including serving as Working Group Chair of ANS-8.7, "Guide for Nuclear Criticality Safety in the Storage of Fissile Materials," and is a working group member of ANS-8.24, "Validation of Neutron Transport Methods for Nuclear Criticality Safety Calculations."