

Mr. Kevin D. Kimball retired from Consolidated Nuclear Security, LLC as the Senior Director of Nuclear Safety for the Department of Energy (DOE) National Nuclear Security Administration (NNSA) Y-12 National Security Complex and the DOE Pantex Plant. Mr. Kimball was the senior technical authority over all safety analysis including nuclear criticality safety, nuclear facility safety, as well as the safety in design of the new Uranium Processing Facility. Mr. Kimball has over 40 years of nuclear safety experience with nuclear facilities. Mr. Kimball received his Master of Science in nuclear engineering from the University of Illinois at Urbana-Champaign (1982) and his Bachelor of Science in nuclear engineering from the University of Virginia (1976).

His prior experience included being 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:

- 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 American 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.
- Established the strategy for diffusion plant equipment disposal at waste burial cells.

Mr. Kimball has the following regulatory related experience:

- DOE-STD-3009-2014, *Preparation of Nonreactor Nuclear Facility Documented Safety Analysis* – member of the writing group for nuclear criticality safety
- DOE-STD-1189-2016, *Integration of Safety into the Design Process* – member of the writing group
- DOE-STD-1020-2016, *Natural Phenomena Hazards Analysis and Design Criteria for DOE Facilities* – Technical Reviewer for nuclear safety application of the standard
- DOE-STD-3007-2017 *Preparing Criticality Safety Evaluations at Department of Energy Nonreactor Nuclear Facilities*– member of the writing group
- DOE-HDBK-1224-2018, *Hazard and Accident Analysis Handbook* – Contributor

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 through serving as a member of the Nuclear Criticality Safety Consensus Committee (NCSCC) for NCS national standards and he is also a member of the Non-Reactor Nuclear Facilities Consensus Committee (NRNFCC). His past ANS standards experience includes serving as Working Group Chair of ANS-8.7, "Guide for Nuclear Criticality Safety in the Storage of Fissile Materials," and working group member of ANS-8.24, "Validation of Neutron Transport Methods for Nuclear Criticality Safety Calculations."