

**Dr. Jerry N. McKamy** is the Director of the Office of Facilities Operations (NA-162) within the National Nuclear Security Administration (NNSA). In this capacity Dr. McKamy manages a staff responsible for the ~\$600M/yr Readiness in Technical Base and Facilities (RTBF) Operations and Facilities budget that maintains readiness for four large NNSA sites (LLNL, SNL, KCP, NNSS). Dr. McKamy is qualified in the Department's Technical Qualification Program as a Senior Technical Safety Manager and in the functional area of Criticality Safety. Dr. McKamy holds the positions of the DOE Nuclear Criticality Safety Program (NCSP) Manager and Government Program Manager (GPM) for a Special Access Program (SAP). Dr. McKamy received his Ph.D. in experimental nuclear astrophysics from The Ohio State University (1982) and B.S., *Summa Cum Laude*, in physics from the University of Texas at Arlington (1976). Dr. McKamy was awarded the 2006 NNSA Federal Safety Professional of the Year Award and the Victor Stello, Jr. Award for Safety Leadership by the Defense Nuclear Facilities Safety Board (DNFSB) in 2010.

Dr. McKamy's areas of expertise include nuclear criticality safety and non-destructive assay. He started his nuclear career at the Critical Mass Laboratory at Rocky Flats in 1983. From 1983 through 1987 he performed critical experiments, validated Monte Carlo criticality safety codes, and was the responsible criticality safety engineer for various Rocky Flats pit production buildings. In 1987, Dr. McKamy joined the Safeguards Measurements Group as the Principal Engineer for neutron non-destructive assay. In 1989 as Manager of Safeguards Measurements, Dr. McKamy led the development and implementation of the Rocky Flat's non-destructive assay program to measure the plutonium holdup in the ventilation ducting. Late in 1990, Dr. McKamy returned to the Criticality Engineering Group at Rocky Flats as Manager. His major accomplishment as Manager of Criticality Engineering was changing to a formalized, standards based criticality safety program that was foundational to the successful Resumption of Operations in Buildings 559 and 707. During this time, Dr. McKamy worked closely with the DNFSB on Recommendation 90-6 and has continued regular and fruitful interactions with the DNFSB since. In 1994, Dr. McKamy joined the consulting firm of M.H. Chew and Associates (CAI) where he primarily provided criticality safety support to the DOE Rocky Flats Field Office.

Since joining DOE in the fall of 1996 in the Office of Environment, Safety and Health (EH), Dr. McKamy provided criticality safety assistance to most DOE Field/Site Offices including Rocky Flats, Y-12, Richland, Savannah River and Lawrence Livermore National Laboratory. The assistance provided to DOE RL was instrumental in the successful resumption of plutonium stabilization operations at the Plutonium Finishing Plant. In addition, Dr. McKamy was a principal in drafting the DOE Implementation Plan in response to DNFSB Recommendation 97-2. Dr. McKamy initiated and organized the Department's criticality safety self-improvement workshop, *Your Mission and Nuclear Criticality Safety*, held in Las Vegas in August of 1999. Dr. McKamy led the development of DOE criticality safety Technical Standards for self-assessment (DOE-STD-1158-2002), contractor criticality safety engineer qualification (DOE-STD-1135-1999), DOE criticality safety technical qualification (DOE-STD-1173-2003), and technical review of criticality safety evaluations (DOE-STD-1134-1999). He organized

and led the team of criticality safety experts that reviewed key DOE facilities as part of the Deputy Secretary's Criticality Safety Improvement Initiative in 2000 in response to the Tokai-Mura, Japan criticality accident and issued a formal report to the Secretary of Energy.

Dr. McKamy joined NNSA in March of 2005. He assumed the role of NCSP Manager and GPM shortly thereafter before becoming the Director of the Facilities Operations Division in 2008 which became the Office of Facilities Operations in 2010. Some of Dr. McKamy's accomplishments at NNSA include:

- Led the effort to develop a prioritized RTBF Ops of Facilities budget process that links to NNSA missions,
- Served a 90 day detail as the NNSA YSO Acting Deputy Manager,
- Provided technical support to the NNSA Y-12 Site Office (YSO) in the areas of criticality safety and non-destructive assay/safeguards,
- Wrote DOE Order 420.1b Section 4.3 (nuclear criticality safety),
- Served as the NA-10 Senior Technical Advisor on the Krakatau sub-crit ORR,
- Developed DOE-STD-3007-2007 for criticality safety evaluations,
- Served as the Team Leader for the comprehensive criticality safety review at the Los Alamos National Laboratory,
- Established a ground breaking agreement to jointly refurbish and operate a solution super-prompt critical assembly device jointly with the French CEA and IRSN in Valduc, and
- Established the hands-on criticality safety qualification course at the Lawrence Livermore National Laboratory.

Dr. McKamy is a member of the Nuclear Criticality Safety Division (NCSD) of the American Nuclear Society, Emeritus Member of the DOE Criticality Safety Support Group (CSSG), and Chair of the DOE Criticality Safety Coordinating Team (CSCT). He is a former member of the NCSD Executive Committee and past-chair of the NCSD Education Committee. Finally, Dr. McKamy received a NCSD Special Recognition Award in 2002 for his leadership of the DOE NCSP and a NCSD Technical Excellence Award in 2003 for work on DOE Technical Standards supporting criticality safety.