

C. M. Hopper has 34 years of experience in the operations and research of criticality safety and related health physics issues. He has served as past leader of criticality safety departments at Oak Ridge National Laboratory (ORNL), the Y-12 Plant, the Oak Ridge Gaseous Diffusion Plant, and the Texas Instruments, Inc., fuel processing fabricator for research reactor fuel. He developed a criticality safety slide rule for use in emergency response to criticality accidents. He was the technical lead for the development of DOE standard practices guide for criticality safety. Currently, he is a principal investigator and consultant for criticality safety projects for the U.S. DOE and the U.S. Nuclear Regulatory Commission. He is a member of the DOE Criticality Safety Support Group and criticality safety standards oversight committee, ANSI/ANS-8 and Chairs the ANSI/ANS Consensus Committee N16 and the International Organization for Standardization Working Group on nuclear criticality safety, ISO TC 85/SC 5/WG 8. He is known by criticality safety communities in Japan, Europe, and Russia.

Mr. Hopper has worked in the field of nuclear safety since 1968. He is employed at ORNL by the University of Tennessee - Battelle, LLC and its predecessor companies since 1984 and is currently a Distinguished Senior Development Engineer at ORNL with specialties in nuclear criticality safety process analysis, computations (validations, evaluations and limit determinations), and nuclear criticality safety program management and regulatory oversight (assessments and audits). He previously has been employed at the Texas Instruments, Inc., High Flux Isotope Reactor Project; the Oak Ridge Y-12 Plant; and the Oak Ridge Gaseous Diffusion Plant.

“Q” security clearance held by U.S. DOE Oak Ridge Operations.