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David Sulfredge is a Senior R&D staff member with the Modeling and Simulation Group at ORNL, where he works on facility vulnerability and various types of thermo-fluid modeling. He has developed numerous nuclear facility models together with event/fault tree algorithms for estimating downtime and calculating the probability of facility kill or radiological releases. His work also has included the design of scaled experiments to measure the blast fragility of nuclear power plant equipment and calculations with weapons effects codes. In addition to his explosives-related research, he has worked on thermal hydraulic design for the Advanced Neutron Source Reactor and Spallation Neutron Source projects, performed safety analysis for the High Flux Isotope Reactor at ORNL, and assisted in decommissioning of the Molten Salt Reactor Experiment. David Sulfredge has written or contributed to over 40 published papers, research reports, conference proceedings and book chapters, and is a member of the American Nuclear Society. He received his Ph.D. in mechanical engineering from the University of Kentucky in 1993.