

TECHNICAL QUALIFICATIONS

Dr. Kammerer is an expert in seismic hazard and risk and integrated performance-based, risk-informed engineering, particularly as applied to nuclear power plants and LNG facilities. She is an independent consultant, as well as a visiting scholar at the Pacific Earthquake Engineering Research Center at the University of California, Berkeley. From November 2013 to December 2014, she was Principal Seismologist for Bechtel focused on seismic hazard assessment for nuclear and LNG facilities.



From 2006 to 2013, she spent 7 years at the US Nuclear Regulatory Commission, where she developed and coordinated the NRC Seismic Research Program and the NRC Tsunami Research Program. She was the project manager and contributing author of the current US guidance on seismic hazard assessments for nuclear facilities (Regulatory Guide 1.208 and NUREG 2117) and the most recent guidance on Seismic Margin Assessments (JLD-ISG-2012-04). Her work on tsunami hazard assessment forms the basis for review of tsunami hazard for new reactors on the Atlantic and Gulf coasts.

Dr. Kammerer spent 6 weeks on the reactor safety team during the NRC's emergency response to the Fukushima accident and was a member of the NRC's seismic technical team tasked with developing post-Fukushima reevaluation activities and guidance. She was responsible for NRC review of structural engineering, equipment screening, and peer review elements of EPRI 102528, which provides guidance on seismic hazard and reevaluation for NRC's Near Term Task Force (NTTF) Recommendation 2.1. She was also responsible for NRC technical input and review of EPRI 1025286, which provided guidance on the conduct of seismic walkdowns in response to NTTF Recommendation 2.3. From 2012 to 2013, she was the technical lead for the NRC's Recommendation 2.3 Seismic Walkdown program that involved seismic walkdowns on 104 operating US nuclear plants. As part of this work she also developed NRC protocols for the review of the walkdown submittals and trained NRC resident inspectors who observed the process and performed independent walkdowns on site.

Dr. Kammerer is active internationally. From 2011 to 2013, she chaired an International Atomic Energy Agency (IAEA) Working Group on Seismic Re-evaluation of Operating Reactors, as well as special committee developing new guidance on use of seismic isolation technology in nuclear plants. From 2007 to 2010, she was co-chair of an IAEA Extra Budgetary Program on Tsunami and is a co-author of IAEA guidance on tsunami hazard assessment (IAEA Safety Standard Guide 18). She is currently a consultant to IAEA developing new guidance for performing Tsunami Probabilistic Safety Assessment. She has sat on the technical and/or organizing committees of international symposiums and conferences and is currently on the International Scientific Committee as Division IV (Loading Characterization) co-coordinator for the Structural Mechanics in Reactor Technology conference series. She sits on the Working Group 5 (Standard for External Events PRA) under the ANS-ASME Joint Committee on Nuclear Risk Management, where she works on guidance related to seismic and tsunami hazard assessment.

Prior to joining the NRC in 2006, she was a consultant in the Risk and Advanced Technology groups in the international design firm, Arup. As seismic hazard lead for the Americas, her consulting work encompassed a wide variety of technical areas including geotechnical earthquake engineering, structural dynamics, seismic hazard assessments and facility risk assessment.