

Biographies of the Panelists for the Panel on Seismic Issues for Dry Cask Storage Systems and Industry Update on Existing Technical Issues

Bhasker “Bob” Tripathi

Bob Tripathi has more than 44 years of experience in varying capacity e.g.: from December 2003 to present, he has been a Senior Structural Engineer at NRC's NMSS/SFST/TRD/SMMB. From January 1992 to December 2003, he was the Chief Engineer, Science Applications International Corporation (SAIC). He also worked as a Consulting Engineer at Bechtel, San Francisco CA, and as a Structural Engineer at Sargent & Lundy, Chicago, IL.

Bob has a Master of Science (MS) Civil Engineering from University of Cincinnati, in 1969, a Bachelor of Science (BS) Civil Engineering from Gujarat University, India, in 1967. He is a Registered Professional Engineer (PE) in California, Maryland, and Virginia. He is a FELLOW of American Society of Civil Engineers (ASCE), and a Member - Earthquake Engineering Research Institute (EERI).

His technical skills include: evaluation of structures built with structural concrete and structural steel for adequacy to withstand normal loads and natural phenomena hazards (NPH) such as earthquake, wind, tornado, flood; building blast resistance and aircraft crash analysis. He has performed deterministic and probabilistic structural integrity analysis, site-specific seismic hazard analysis, structural failure analysis, fracture mechanics, and fragility evaluation of nuclear power plant structures, systems, and components.

He has presented more than 50 technical papers at National and International Conferences (such as: ASME, PVP, EERI, SMiRT etc.) throughout the world on Nuclear Power Plant SSCs. He is also a member of the International Scientific Committee addressing issues related to structural mechanics of SSCs for reactor technology.

Dr. Gordon Bjorkman

Dr. Bjorkman has a broad background in structural mechanics gained through 35 years experience as a consultant, expert witness, university professor, National Science Foundation principal investigator, and Nuclear Regulatory Commission Branch Chief. He has extensive experience in the analysis and design of nuclear power plant structures, spent fuel storage and transportation casks, reactor pressure vessels and piping, and the analysis and design of structures to resist blast, earthquake, and aircraft impact. Dr. Bjorkman is founder and Chairman of the ASME, Section III, Division 1 Special Working Group on Computational Modeling for Explicit Dynamics, a member of the Working Group on Design of Spent Fuel Storage and Transportation Containments, and Subgroup NUPACK. He began his career in the aerospace industry at Grumman Aircraft working on the final design of the Lunar Landing Module. He received his Bachelor of Science in Civil Engineering from Princeton University, a Masters in Structural Engineering from Cornell University, and PhD in Applied Mechanics from

the University of Delaware. He is currently Senior Technical Advisor for Structural Mechanics in the Spent Fuel Storage and Transportation Division of the NRC.

Keith Waldrop

Keith Waldrop received a Bachelor of Science degree in Nuclear Engineering from the Georgia Institute of Technology. He is a registered Professional Engineer (PE) in the state of North Carolina. Mr. Waldrop is a Senior Project Manager at the Electric Power Research Institute (EPRI). He is responsible for research related to management, storage, and transportation of spent nuclear fuel. His current areas of research include extended storage of spent fuel in dry casks and spent fuel criticality.

Prior to joining EPRI in 2011, Mr. Waldrop was a Senior Engineer at Duke Energy where he was responsible for the management of spent fuel at McGuire Nuclear Station.

Brian Gutherman

Brian Gutherman is the President of his own consulting firm, Gutherman Technical Services. Mr. Gutherman has nearly 30 years of experience in the nuclear industry in a variety of engineering and management positions for an architect/engineering firm, a nuclear utility, and a spent fuel storage and transportation cask vendor. For the past seven years, Brian has been a consultant to the nuclear industry, with a focus on spent fuel storage and transportation licensing, training, and operations. Mr. Gutherman earned a B.S. degree in Mechanical Engineering from Rutgers University in 1982 and is a registered Professional Engineer in the states of New Jersey and Florida.