United States Nuclear Regulatory Commission Official Hearing Exhibit
In the Matter of: Entergy Nuclear Operations, Inc. (Indian Point Nuclear Generating Units 2 and 3)
ASLBP #: 07-858-03-LR-BD01
Docket #: 05000247 | 05000286
Exhibit #: NRC000044-00-BD01 Identified: 10/15/2012
Admitted: 10/15/2012 Withdrawn:
Rejected: Stricken:
Other:

NRC000044
Submitted: March 30, 2012

Joseph A. Jones, PE
Distinguished Member of Technical Staff
Sandia National Laboratories

Education:

Bachelor of Science in Civil Engineering, New Mexico State University, May 1984
Registered Professional Engineer - New Mexico PE #10846

Sandia National Laboratories, Albuquerque, New Mexico (1989 - Present)

NRC programs:

Project manager and technical lead on emergency preparedness and incident response projects related to nuclear power plant emergency response. Lead author for NUREG/CR 6953 Volumes I and II, "Review of NUREG-0654, Supplement 3, 'Criteria for Protective Action Recommendations for Severe Accidents'", NUREG / CR-6863 "Development of Evacuation Time Estimates for Nuclear Power Plants" and co-author for NUREG / CR-6864 "Identification and Analysis of Factors Affecting Emergency Evacuations" both published in January, 2005. Lead author for DRAFT NUREG/CR 7002, "Criteria for Development of Evacuation Time Estimate Studies," expected publication in 2011.

Project manager for the Pilgrim and Indian Point License Renewal projects. Provided technical review of the emergency response and evacuation time estimate elements of the project.

Sandia emergency preparedness technical lead for the NRC State of the Art Reactor Consequence Analysis (SOARCA) project. Requires developing evacuation time estimates to 20 miles from the plant for use in assessing potential radiological consequences.

Project manager and technical lead for review of Emergency Plans in support of new reactor licenses for Comanche Peak, Fermi, Victoria, Turkey Point, PSEG, and Bell Bend.

Project manager and technical lead on the Assessment of Emergency Response Planning and Implementation for Large Scale Evacuations project which included evaluation of Hurricanes Katrina, Rita, and other large scale evacuations.

Sandia emergency preparedness technical lead for the NRC in development of criteria for advanced and small modular reactors. Developed technical paper outlining criteria for establishing plume exposure pathway emergency planning zones for these reactors. Lead author in development of the Design Specific Review Standard Section 13.3, "Emergency Planning," for the mPower and NuScale small modular reactors.

Project manager and technical lead supporting the NRC Operations Center in updating response procedures, programmatic documents, and developing the incident response manual. Project includes developing an automated reactor accident analysis tool to support emergency response activities.

Project manager and technical lead for the NRC sponsored study of alternative protective actions (PAR project). Performing consequence assessments of multiple alternative protective actions to determine whether improved health and safety benefits are achieved.

Project manager responsible for decontamination and decommissioning of multiple radioactively contaminated facilities at Sandia including the Radiochemistry Laboratory in Building 805, the Toxic Machine Shop in Building 869, Building 906 General Laboratory, and other facilities. Responsibilities included developing and implementing health and safety plans, decontamination work plans, monitoring and directing decontamination field teams, and radioactive and mixed waste management. Projects included site characterization, sampling and analysis, decontamination using destructive and non-destructive techniques, radioactive waste management and radioactive waste disposal at Nevada Test Site.

Other programs:

Project manager for Department of Homeland Security project on development of removable coating for use in containing contamination from radiological dispersal devices.

Project manage for the Defense Advanced Research Projects Agency (DARPA) project on development of strippable coating for decontamination of Cs, Sr, and Co. Obtained a patent for a strippable coating capable of containing the spread of contamination and facilitating decontamination efforts.

Technical lead for the Low Level Radioactive Waste volume reduction program in Russia. Technical responsibilities included subcontractor management, design review, procurement, and system testing for major components. Design required the integration of existing regulatory and code requirements into the modification of 30 year old facilities to support subsystems required to treat the waste.

Program Manager for the Solid Radioactive Waste facility conceptual design funded by Norway and located in Northwest Russia. Included performing a requirements analysis to ensure compliance with U.S. and Russian standards was maintained. Integration of subsystem design and regulatory requirements between U.S., Norwegian, and Russian subcontractors and development of trade studies and design optimization were also required. Managed Russian, Norwegian, and US subcontractors in strict compliance with the project plan resulting in project completion within schedule and under budget.

Project engineer for the Mobile Solid Radioactive Waste Processing Facility in northwest Russia. This is the AMEC 1.4 project to design, procure, construct and commission a mobile facility for processing radioactive waste. Responsibilities included support in development of contract requirements, design review, and consultation on solid radioactive waste processing.

Fred Denney & Associates, Consulting Engineers, Albuquerque, New Mexico (1984 - 1989)
Senior engineer in responsible charge of staff engineers, designers, field, and office technicians. General responsibilities included developing design requirements, engineering, and project management for civil engineering projects.

United States Patent: Obtained patent US 7,514,493 B1, “Strippable Containment and Decontamination Coating Composition and Method of Use,” April 7, 2009.

Publications/Papers/Reports

NUREG/CR 7002, “Criteria for Development of Evacuation Time Estimate Studies.” DRAFT Jones, Walton, and Wolshon. 2011.

NUREG/CR-6981, “ Assessment of Emergency Response Planning and Implementation for Large Scale Evacuations." Jones, Walton, Smith and Wolshon. October 2008.

NUREG/CR-6953, Vol. II, " Review of NUREG-0654, Supplement 3, “Criteria for Protective Action Recommendations for Severe Accidents – Focus Groups and Telephone Survey." Jones and Walton. October, 2008.

NUREG/CR 6953, Vol. 1, “Review of NUREG-0654, Supplement 3, ‘Criteria for Protective Action Recommendations for Severe Accidents’” Jones, Bixler, Burns, Schelling and Sullivan, December, 2007

NUREG/CR-6863. “Development of Evacuation Time Estimate Studies for Nuclear Power Plants.” Jones and Dotson, January 2005

NUREG/CR-6864. “Identification and Analysis of Factors Affecting Emergency Evacuations.” Dotson and Jones, January, 2005

SAND2006-2019P. L. Dotson, J. Jones, J. Schelling, “Analysis of a Hypothetical Radiological Dispersal Device (RDD) Event Scenario.” July, 2003

SAND2006-1921 Robert Moore, Mark Tucker, Joe Jones, “Radiological Dispersal Device (RDD) Contamination Containment Technology Project.” May, 2006

SAND2006-3133 J. Jones, J. Schelling, et. al., “Radiological Dispersal Device at the Port of Singapore.” May, 2006

SAND2004-3576 Robert Moore, Mark Tucker, Joseph Jones, et.al., “Decontamination of Chemical/Biological/Radiological Contaminated Support Equipment for the Joint Strike Fighter.” July 2004

SAND2002-3232, Joe Jones, Chris Aas, et.al., “Feasibility Study of an Integrated Systems Solution to the Potential Threat of Radiological Dispersal Devices (RDD), November, 2002

SAND2002-3114P J. Jones, G. Polansky, D. Parks (INEEL), et. al., “Nuclear Materials Management and Disposition at Argonne National Laboratory – East.” September, 2002

SAND2002-4210 J. Jones, G. Polansky, D. Parks (INEEL), et. al., “Disposition of Excess Nuclear Materials at Los Alamos National Laboratory.” February 2003

SAND2001-3001. R. Moore, J. Jones, et. al., “Bench Scale Testing of In Situ Formation of Apatite in Hanford Soils for Sorption of Uranium and Technetium”

J.H. Saloio, J.A. Jones, C.A. Aas, et al., “Low-Level Radioactive Waste Volume Reduction in Russia – Processing of Solid and Liquid Waste from Submarine Dismantlement,” Radwaste Solutions, A Publication of the American Nuclear Society, January/February, 2001

J. Jones, B. Borgaas (Kavearner Norway), Boris Lesokhin, (Nuclide Russia) et. al., “Solid Radioactive Waste Storage Facility Conceptual Design Report.” 1999

J.H. Saloio, J.A. Jones, C.A. Aas, et al., “Low-Level Radioactive Waste Volume Reduction in Russia – Processing of Solid and Liquid Waste from Submarine Dismantlement,” Presented at 4th International Conference on Environmental Radioactivity in the Arctic, Edinburgh, Scotland, September 20-23, 1999.

J.A. Jones, J.H. Saloio, et al., “Siting Criteria, Selection, and Environmental Impact of a Solid Radioactive Waste Interim Storage Facility in The Barents Region of the Arctic Far North” paper presented at 2nd International Conference on Environmental Radioactivity in the Arctic, Tromso, Norway, June 1997.