RISK MANAGEMENT

Expanding Horizons in Nuclear Power and Other Industries

Ronald A. Knief
Victoria Broadhead Briant
Robert B. Lee
Robert L. Long
Jeffrey A. Mahn
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Editor
Ronald A. Knief
ERC Environmental and Energy Services Co.
Mechanicsburg, Pennsylvania

Associate Editors
Victoria Broadhead Briant
Robert B. Lee
Robert L. Long
Jeffrey A. Mahn
GPU Nuclear Corporation
Parsippany, New Jersey

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PLENARY SESSION
Session Moderator: Robert L. Long (GPU Nuclear Corp.; Parsippany, NJ)
Session Organizer: Robert B. Lee (GPU Nuclear Corp.; Parsippany, NJ)

Risk Management Symposium Welcoming Remarks / Philip R. Clark (GPU Nuclear Corp.; Parsippany, NJ)

Risk Management at GPU Nuclear / Robert L. Long (GPU Nuclear Corp.; Parsippany, NJ)

Risk Assessment and Risk Management - Basic Concepts and Terminology / Stan Kaplan (Pickard, Lowe & Garrick, Inc.; Huntington Beach, CA)

Guidelines for Communicating About the Risks of Nuclear Energy Effectively, Responsibly, and Ethically / Vincent T. Covello (Columbia University; New York, NY)

Decision and Risk Analysis at Westinghouse / Robert K Perdue (Westinghouse Electric Corporation; Monroeville, PA)

Lessons Learned from Man-Made Catastrophes / Edwin L. Zebroski (Aptek Engineering Services; Sunnyvale, CA)

Twenty Year Retrospective on Risk Management / Chauncey Starr (President Emeritus, Electric Power Research Institute; Palo Alto, CA)

SESSION I - ORGANIZATIONAL SAFETY CULTURE
Session Moderator: Sonja Haber (Brookhaven National Laboratory; Upton, NY)
Session Organizer: Victoria Broadhead Briant (GPU Nuclear Corp; Parsippany, NJ)

Risk Management Through Cultural Intervention: Experiences with Positive Discipline / Alan W. Bryant (General Electric – Nuclear Energy; San Jose, CA)

Risk Management Through Concurrency: A New Work Culture for Improving Safety and Performance / John R. Childress (Senn-Delaney Leadership Consulting Group; Long Beach, CA) and Victoria Broadhead Briant (GPU Nuclear Corp.; Parsippany, NJ)

Merging Two Safety Cultures / Samuel Mirshak (Management Consulting Services, Chadds Ford, PA)
Overview of SKI Organizational Assessment Project / Frank Landy (Landy, Jacobs and Associates; State College, PA) and Kerstin Dahlgren (Swedish Nuclear Power Inspectorate; Stockholm, Sweden)

SESSION II - MANAGEMENT SYSTEMS AND FEEDBACK
Session Moderator: Warren F. Witzig (Professor Emeritus; Pennsylvania State University; State College, PA)
Session Organizer: Jeffrey A. Mahn (GPU Nuclear Corp.; Parsippany, NJ)

Airline Industry Safety Management Systems and Feedback / Captain David A. Simmon (United Airlines; Elk Grove Village, IL)

Virginia Power's Human Performance Evaluation System (HPES) / William E. Patterson (Surry Power Station – Virginia Power Corporation; Surrey, VA)

An Integrated Approach to Safety, Including the Human Factors Element / Annick Carnino (Electricité de France; Paris, France)

Quality Improvement at GPU Nuclear Through Application of the Deming Management Method / Robert W. Keaten (GPU Nuclear Corp.; Parsippany, NJ)

SESSION III - ROLE OF HUMAN PERFORMANCE
Session Moderator: G. William Hannaman (Science Applications International Corp.; San Diego, CA)
Session Organizer: V. Broadhead Briant (GPU Nuclear Corp.; Parsippany, NJ)

Cockpit Crew Research / Barbara G. Kanki (NASA – Ames Research Center; Moffett Field, CA)

Team Skills Training: The Critical Next Step at GPU Nuclear / Richard P. Coe and Donald R. Carl (GPU Nuclear Corp.; Parsippany, NJ)

Risk Sensitivity to Human Error / James C. Higgins (Brookhaven National Laboratory; Upton, NY)

Human Reliability Methods for Enhancing Performance / G. William Hannaman (Science Applications International Corp.; San Diego, CA)

Accident Prevention - Control and Quality Research Themes / Josette Larchier-Boulanger (Electricité de France; Paris, France)

SESSION IV - APPLICATIONS OF QUANTITATIVE RISK ASSESSMENT
Session Moderator: David Carlson (Sandia National Laboratories; Albuquerque, NM)
Session Organizer: Ronald A. Knief (GPU Nuclear Corp.; Parsippany, NJ)

The Integrated Use of Probabilistic Safety Assessment in Reactor Design / Guy Freeman (Rolls Royce and Associates Limited; Derby, England)

Risk-Based Plant Performance Indicators / John L. Boccio, M. A. Azarm, William E. Vesely, and R. E. Hall (Brookhaven National Laboratory; Upton, NY)

Two Successful Applications of Probabilistic Risk Analysis to Address Regulatory Issues / Patrick M. Donnelly (Big Rock Point Plant – Consumers Power Company; Charlevoix, MI)

Something Important is Missing from PRA / David A. Ward (Consultant; North Augusta, GA)

SESSION V - SYSTEMATIC RISK MANAGEMENT
Session Moderator: G. Bruce Varnado; ERC Environmental and Energy Services Co.; Albuquerque, NM
Session Organizer: Ronald A. Knief; GPU Nuclear Corp.; Parsippany, NJ

A Programmatic Approach to Chemical Risk Management / J. J. Cramer (Stone & Webster Engineering Corporation; Cherry Hill, NJ)

Episodic Risk Management at Union Carbide / Duane Marsh (Union Carbide Corporation; Danbury, CT)

MORT-Based Risk Management / Glenn J. Briscoe (EG&G Idaho Inc.; Idaho Falls, ID)

Basic Elements of a Risk Management Program / David M. Ericson, Jr. and G. Bruce Varnado (ERC Environmental and Energy Services Co.; Albuquerque, NM)

A View on Risk Management / Vojin Joksimovich (Accident Prevention Group; San Diego, CA)


WRAP-UP
Session Moderator: Robert L. Long; GPU Nuclear Corp.; Parsippany, NJ