

SNPS Plenary Session

Nuclear Power Engineering Activities 2002 & Related Key Papers

Tuesday, 9:00 AM – 12:00 PM

Chair: J. P. Carter, Stone & Webster, Inc.

P-1 A Review of Nuclear Power Standards Activities (NPEC 2002)

J. P. Carter, *Stone & Webster, Inc.*

P-2 Research and Nuclear Regulatory Activities in Power, Control and Instrumentation: A Status Report

S. K. Aggarwal, *US NRC*

P-3 An Update of IEC Nuclear I & C Standards

G. L. Johnson, *LLNL*

P-4 Generation II Measurement Systems for Generation IV Nuclear Power Plants

D. W. Miller, *Ohio State University*; E. L. Quinn, *Consultant*; J. L. Mauck, *Consultant*
M. M. Fiorino, *Ohio State University*

P-5 Software Common – Cause Failure for Risk-Informed Digital Upgrades

R. C. Torok, *EPRI*

P-6 Status of Cyber Security Technology and Procedures for Control Systems in Nuclear Power Plants

J. M. Weiss, *KEMA*

P2 – Plant Modernization – Part 1

Tuesday, 2:00 PM – 5:00 PM

Chair: G. L. Johnson, LLNL

P2-1 The Importance of Coverage in the Safety Assessment of Digital Systems in Nuclear Power Plants

B. W. Johnson, *University of Virginia* ; J. A. Calvert, *US NRC*

P2-2 Adopting Risk Informed Techniques for Electrical Testing

D. A. Horvath, *Advent Engineering Services*; W. J. Colvin, *First Energy Corp*; T. J. Riccio, *STP Nuclear Operating Company*; G. Ballassi, *General Dynamics*

P2-3 Utilization of Plant Simulator Model as Design Confirmation Tool

S. D. Sawyer, *GE Nuclear Energy*

P2-4 Multiple Unit Instrumentation and Control (I&C) System for Generation IV Nuclear Power Systems

D. W. Miller, *Ohio State University*

P2-5 State of the Art Techniques for Emergency Planning Population Analysis

R. L. Steinman, *Advent Engineering Services*

P2-6 Revised Industry Guidance in the Area of Accident Monitoring Instrumentation for Nuclear Power Generating Stations

G. E. Lang, *Westinghouse Electric Company*; D. A. Horvath, *Advent Engineering Services*; D. L. Harmon, *Westinghouse Electric Company*; B. S. Marcus, *US NRC*; I. Rana, *Southern Company Engineering & Construction*

P3 – Plant Modernization – Part 2

Wednesday, 9:00 AM – 12:00 PM

Chair: D. A. Horvath, Advent Engineering Services

P3-1 Failure of Fast Bus Transfer Scheme on Nuclear Power Generating Stations

N. K. Trehan, *US NRC*

P3-2 Application of High-Speed Safety-Related Data Multiplexing to the Engineered Safety Features (ESF) System of the Advanced Boiling Water Reactor (ABWR)

B. H. Simon, *GE Nuclear Energy*

P3-3 Improving IEEE Standards for Nuclear Plant License Renewal

R. P. Colaianni, *Duke Energy*; D. A. Horvath, *Advent Engineering Services*

P3-4 Operation of Motors Beyond Name Plate Rating Technical Issues and Operating Considerations

R. V. Rebbapragada, R. Weronick, *Washington Group International*

P3-5 Computerized Approach to Updating Qualified Lives for EQ Equipment

M. J. Wylie, R. L. Steinman, *Advent Engineering Services*; L. Makatura, *First Energy Corp.*

P3-6 Design of a Sensor to Predict Arcing Faults in Nuclear Switchgear

B. H. Land, III, *Johns Hopkins University*