Lori Ann Potts
Potts Consulting, Inc.
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EXPERIENCE

Over 30 years of experience as a technical professional in the nuclear industry in the areas of safety analysis, probabilistic safety or risk assessment (PSA or PRA), deterministic and probabilistic accident and consequence analysis, materials aging management, reactor engineering, and systems engineering.

January 2008 – Present

Consultant to Entergy Nuclear – NFPA-805 Transition Project Team
Development of products and documents associated with the ANO-1 and ANO-2 Fire PRAs.

- Plant Boundary Definition, Plant Partitioning, and Fire Ignition Frequencies
- Fire PRA Component Selection and Fire-Induced PRA Model
- Post-Fire Human Reliability Analysis
- Fire Risk Quantification
- Fire PRA Peer Reviews Preparation, Execution, and Responses
- Risk assessments of Fire Protection non-compliances and issues

February 2002 - Present

Consultant to Entergy Nuclear – License Renewal Project Team

- Providing guidance on SAMA analyses for Sequoyah Units 1 and 2 and Fermi 2
- Coordinating and reviewing evaluation of severe accident mitigation alternatives (SAMA) for ANO-1, ANO-2, Pilgrim, Vermont Yankee, J.A. Fitzpatrick, Indian Point, Cooper and Grand Gulf Environmental Reports
- Mechanical Aging Management Reviews and Development of Aging Management Programs for DC Cook, Pilgrim, Vermont Yankee, Palisades, ANO-2, J.A. Fitzpatrick, Indian Point, and Cooper License Renewal Projects
- Responding to NRC questions on submitted applications
- Peer reviewed SAMA analyses for Columbia and Palo Verde
- Developed industry SAMA guideline (NEI 05-01)

July 2007

Consultant to First Energy
Peer review of Severe Accident Mitigation Alternatives (SAMA) evaluations for Beaver Valley Power Station Units 1 and 2

January 1994 – August 2001

Consultant to Entergy Operations – Arkansas Nuclear One (ANO) Nuclear Safety Analysis

- Project Manager on ANO-2 PSA Model Update
- Risk Analysis of the ANO-2 Power Uprate
- Risk Sensitivity Analysis of alternate repair criteria for ANO-1 Steam Generator tubes containing Intergranular Attack
- Power Uprate/Steam Generator Replacement modification of ANO-2
- Updated Fortran code to calculate time to boil and time to core uncovery upon loss of shutdown cooling
- Created ANO PSA Analysts' Deskguide
- Updated ANO-1 and ANO-2 PSA models and associated analyses

November 1989 - June 1993 — Arkansas Nuclear One (ANO), Entergy Operations, Inc.

Senior Engineer, Nuclear Engineering Design (05/91-06/93)

- Lead Engineer for Unit 1 PSA
- Responsible for documentation of Design Basis for reactivity related design basis accidents on Unit 2

Reactor Engineer III, System Engineering (11/89 - 05/91)

- Responsible for Unit 2 Core Protection Calculators, Core Operating Limits Supervisory System and Excore Nuclear Instrumentation
- Defined core offload, shuffle and reload sequence for Unit 2 Cycle 9
- Performed Startup Physics Testing and Core Monitoring Surveillances

February 1988 - November 1989 — Plant A. W. Vogtle, Georgia Power Company

Senior Plant Engineer, Outage Management

- Developed Project-2 schedules for Refueling and mid-cycle Outages
- Performed Critical Path Analyses, Plots and Reports

January 1987 - August 1987 — Consultant to Pilgrim Power Station

Senior Systems Specialist, I&C (03/87 - 08/87)

- Ensured Neutron Monitoring, Radiation Monitoring, Reactor Water Level, Turbine Generator Protection and Controls, Recirculation System Controls and Communications systems were operational and ready for start-up of the plant from its extended outage
- Acted for Lead Systems Specialist, I&C and Electrical in his absence; supervising six engineers

NPRDS Administrator (01/87 - 03/87)

- Reviewed plant Maintenance Requests, Malfunction Reports and Design Changes for reportable failures and generated failure and out-of-service reports

January 1985 - December 1985 — Consultant to Arkansas Nuclear One

Principal Engineer

- Documented Research and Engineering Evaluation for all components in both units to generate a computerized Component Database
- Supervised four technicians and five engineers

April 1984 - December 1984 — Clinton Power Station, Illinois Power Company

Plant Maintenance Engineer

- Resolved abnormal condition reports, commitments and audit findings
- Walked-down systems being turned over from Start-Up to Operations
- Developed maintenance program for Environmental Qualification of equipment
- Developed Computerized Maintenance Management System

May 1981 - March 1984 — EG&G Idaho, Inc.

Three Mile Island, I&C and Electrical Program Engineer

- Developed test procedures, instructed technicians in use of equipment and directed performance of survivability testing of electrical components and instrumentation within the Unit 2 reactor building
- Presented technical reports describing the program status to DOE, NRC and the industry

June 1980 – August 1980 — EG&G Idaho, Inc.

Three Mile Island, Intern

- Participated in and graphed data from survivability testing of electrical components and instrumentation within the damaged Unit 2 reactor building

EDUCATION — B.S., Nuclear Engineering, The Pennsylvania State University, 1981