

LONGENECKER and ASSOCIATES

Paul B. Nesbitt

PROFESSIONAL SUMMARY

Twenty-three years' experience in electrical, and instrumentation and control engineering, and four years' experience as a senior lead quality assurance (QA) auditor. Skilled in the preparation and use of design, licensing, QA, and corrective action documentation for nuclear power plants. Experienced in nuclear power programmatic issues, such as electrical equipment qualification (10CFR50.49), fire protection (10CFR50 Appendix R), configuration control, design change control, design basis development, nuclear procurement, and quality assurance. Nine years' experience in engineering management.

PROFESSIONAL EXPERIENCE

Tennessee Valley Authority

November 1969 to October 1994

Knoxville and Chattanooga, Tennessee and Sequoyah Nuclear Plant

Senior Lead Technical Auditor

December 1990 to October 1994

Led and participated as a team member in audits and assessments covering such areas as modifications, design change control, fire protection, electrical equipment qualification, corrective actions, security, and radiological emergency preparedness. Documented audit results and conclusions in executive summaries and formal reports. Frequently met with senior site management to discuss findings, potential corrective actions, and recommendations for improvement of site processes and programs.

- Initiated improvements to the design change and corrective action processes at Watts Bar, Sequoyah, and Browns Ferry nuclear plants.
- Discovered and initiated replacement of unqualified components used in the reactor protection system at Browns Ferry nuclear plant.
- Identified and corrected several hundred deficiencies in hardware and documentation at all sites.
- Prepared three sites for radiological emergency preparedness drills with the Nuclear Regulatory Commission which received excellent ratings.

Technical Supervisor

October 1989 to December 1990

Instrumentation and Controls (I&C)

Supervised twenty engineers and associates in outage support, preparation of design changes, and corrective action document closure in support of Sequoyah Nuclear Plant.

Tennessee Valley Authority

Manager, Design Baseline and Verification and Program (DBVP),

February 1987 to October 1989

Electrical Engineering

Managed a group of over sixty utility and contractor engineers and associates in an effort to reestablish licensing and design bases and plant configuration at Sequoyah Nuclear Plant.

- Reestablished licensing and design bases for systems required to mitigate design basis accidents and assured that the plant configuration was consistent with these bases.

- Corrected over ten thousand hardware configuration and documentation deficiencies.
- Initiated improvements to the design change and drawing control processes to insure proper plant configuration and safety in the future.

Electrical Engineering Manager,**June 1986 to February 1987****Employee Concerns Program**

Supervised a group of ten engineers in a program which evaluated and resolved technical and safety concerns identified by employees. Investigated and initiated resolution of over one hundred electrical and I&C related employee concerns.

Electrical Staff Manager,**September 1985 to June 1986****Watts Bar Engineering Project**

Performed various technical and administrative functions in support of the Lead Electrical Engineer.

- Developed project budgets and schedules for a group of over one hundred project personnel and eighty support personnel.
- Reviewed and approved all corrective action documents, licensing responses, and employee concerns resolutions.
- Supervised the electrical group in the absence of the lead engineer.

Supervisor, Electrical**October 1983 to September 1985****Engineering Regulatory Staff**

Supervised a staff of five engineers responsible for regulatory and programmatic issues.

- Reviewed and approved all regulatory responses and corrective action documents.
- Developed electrical engineering procedures and standards.
- Administered the electrical equipment qualification (10CFR50.49) and fire protection (10CFR50 Appendix R) programs.

Tennessee Valley Authority**Technical Supervisor,****April 1982 to October 1983****Nuclear Steam Supply System (NSSS) Procurement**

Supervised four engineers and associates in procurement and equipment qualification functions. Administered the electrical equipment qualification program for the Nuclear Engineering Department.

Technical Supervisor,**January 1975 to April 1982****Yellow Creek Project**

Served as lead electrical engineer for the preliminary design and NSSS specification development for the Yellow Creek Nuclear Plant. Also, technically supervised fifteen people in the detail design of the computer systems, plant protection system, and other process systems.

- Involved in initiation of NSSS specification and evaluation of NSSS vendors.
- Developed design basis documents and Final Safety Analysis Report (FSAR).
- Supervised detail design of the plant computer, data acquisition, alarm and display, plant protection, and solid state control systems.

- Generated the process computer database which documented inputs from plant instrumentation to the computer and control room displays.

Design Engineer (I&C)

November 1969 to January 1975

Performed I&C design for a wide variety of nuclear power plant process systems for three nuclear plants.

The Boeing Company

Electrical/I&C Engineer

July 1968 to October 1969

Performed I&C design review and spacecraft testing for the Apollo Program.

EDUCATION/TRAINING

- BSEE, Christian Brothers College, Memphis Tennessee
- Performance Based Audit and Performance Observation Training
- Management and personal development courses, including Interaction Management, Managing Performance, Time Management, and Managing Interpersonal Relationships
- Certified as a Lead Quality Assurance Auditor