DESIGN REVIEW PROCESS TRAINING

CLASSROOM INSTRUCTOR

Michael Shlyamberg, P.E. Mr. Shlyamberg has over forty years of progressive engineering and management experience in the design, analysis, startup, maintenance, operation and inspection of nuclear (BWR, PWR, CANDU, RBMK) and fossil power plants, industrial facilities, and DOE installations. Since 1993 he's been providing independent consulting services to the NRC, Utilities and the DOE.

He developed this training to address recurring, industry-wide experiences, that demonstrated a lack of understanding and appreciation of basic knowledge of regulatory framework, plant specific licensing basis and their impact on design basis and plant documents by engineers and the first line supervisors. This training is based on his hands-on engineering experience and participation in over one hundred (100) of the NRC engineering inspection, utilities self-assessments, and utilities support the NRC inspections (IDI, SSEI, EDSFI, SWSOPI, E&TS, SSDPCI, CDBI, Pl&R, etc.).

CONTACT INFORMATION

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INTENDED AUDIENCE

 Engineering (Design, Systems and Procurement), Licensing personnel with 1 to 8 years of experience, and their first-line supervisors
STAs

CONRESS



TYPE

 Classroom
Options to "buy" classroon sessions or to acquire a license for use of material after a "train-the-trainer" session





ABSTRACT

This training builds on the knowledge acquired from the Design & Licensing Basis Fundamentals training; completion of which is a Prerequisite Requirement for this training. It is recommended that this and Design & Licensing Basis Fundamentals to be delivered as a single 2-days training session to maximize both the training and cost efficiencies.

TERMINAL LEARNING OBJECTIVES

- 1. Comprehend purpose of Design Review process.
- 2. Identify Top Down elements of Design Review process:
 - Licensing Basis
 - Design Basis
- 3. Identify Bottom Up elements of Design Review process:
 - Plant Procedures
 - Corrective Actions
- 4. Identify the causes and barriers to engineering errors.
- 5. Apply Design Review process in case study examples. The breakout work group sessions for each case study utilize INPO training techniques of dynamic learning activities.
- 6. Recognize the potential consequences of non-compliance.

KEY INDUSTRY DOCUMENTS

- 1. 10 CFR 50, 10 CFR 52, 10 CFR 54
- 2. 10 CFR 50, Appendix A & B
- 3. Regulatory Guides, Generic Letters, Bulletins, Information Notices, Regulatory Issue Summaries
- 4. ANSI N45.2.11-1974; NQA-1 1994 Edition

OTHER RELATED INFORMATION

A 2-day version of this training has been successfully implemented at:

- 1. Southern (SNC) a licensed user, utility wide rollout implemented
- 2. TVA initial training completed, utility wide rollout pending
- 3. Grand Gulf 4 classes completed, more pending