



DESIGN & LICENSING BASIS FUNDAMENTALS TRAINING

CONTACT INFORMATION

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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.

INTENDED AUDIENCE

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



TYPE

1. Classroom
2. Suitable for CBT Conversion



DURATION

1 day

ABSTRACT

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, PI&R, etc.).

TERMINAL LEARNING OBJECTIVES

1. Comprehend the interrelationship between Licensing Basis, Design Basis, and Plant Documents.
2. Identify commonly used requirements in 10 CFR:
 - 50.59
 - 50.46
 - 10 CFR 50, Appendix A
 - 10 CFR 50, Appendix B
3. Define and discriminate between 10 CFR 50, Regulatory Guides, and Generic NRC Communications.
4. Define and discriminate between 10 CFR 50 Appendix B Requirements: (3 examples for each Criterion). The breakout work group sessions for each of the Appendix B criteria utilize INPO training techniques of dynamic learning activities:
 - Criterion III, Design Control
 - Criterion V, Instructions, Procedures, & Drawings
 - Criterion XI, Test Control
 - Criterion XVI, Corrective Action
5. 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

An expanded, 2-day, version of this training has been successfully implemented at:

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