



INDEPENDENT VERIFICATION OF SAFETY BASIS CONTROLS

Presentation at 2009 EFCOG Workshop

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Presentation Overview



- Background
- Status and Schedule
- Overview of Draft Independent Verification Review (IVR) Guide
- Discussion Questions



Background



- DNFSB letter (February 2008) – DOE would benefit from requirements and guidance on independent validations
- DOE Response (July 2008) – DOE considers it appropriate to provide guidance in this area
- Guide Development (Early 2009)
 - Collected over a dozen contractor/site office procedures on conducting IVRs of safety basis control implementation,
 - Wide variations in practices noted but most performing IVRs
 - Held several meeting/telecons with DOE/contractor subject matter experts
 - Developed draft “best practices” guide
- Interim Guide Issuance (March 2009) –NNSA and EM issued IVR guide to field for trial use and comment



Status



- Six-month trial period ended September 19
- Few changes in contractor procedures (most choose to rely on current procedures)
- Contractor feedback on draft IVR guide provided to HS-21 for consideration
 - No major concerns identified
 - Recommendation to remove guidance on periodicity of re-verifications
- Next Steps
 - Incorporate feedback from the field
 - Include IVR guidance to the TSR Implementation Guide, DOE G 423.1-1, as an Appendix
 - Enter guide into RevCom



Overview of Guide



- Applicability and Scope
- Timing of IVR
 - Initial IVR
 - IVR following safety basis changes
 - Periodic IVRs to re-verify safety basis control implementation
- IVR Planning and Conduct
 - IVR team
 - Method for performing IVR
 - Design features and safety systems
 - Procedures
 - Documentation of results



Important Considerations



- Deltas between site IVR procedures and guide
 - Timing of IVRs
 - Scope of IVRs
 - Re-verification criteria
- Flow down from quality assurance requirements
- *Verification versus Validation*
- Need/Benefit of formally issued guide
- Need/Benefit of formal IVR requirement



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