



Quality Assurance and Vendor Inspection Program for New Reactors

Public Meeting
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Topic Areas

- Pre-COL Audits
- Lessons Learned during South Texas Project Pre-COL Audit
- Oversight of industry's vendor activities (Inspection Procedure)
- NRO Vendor Inspection Program
- Future Quality Assurance and Vendor Inspection Activities



COL Application Audit

- Manual Chapter 2502: Pre-COL Issuance Review
 - Inspection Procedure (IP) 35005: Pre-Docketing COL QA Controls Inspection
 - IP 36100: 10 CFR Part 21 and 10 CFR Part 55(e) Programs for Reporting Defects and Noncompliance
 - IP 45051: Geotechnical Activities (for applications not referencing an ESP)



COL Application Audit

- Purpose
 - Verify suitability of QA processes applied to the development of the COL application
 - Support acceptance review by staff
 - Identify any programmatic issues that could affect the completeness and accuracy of the information in the application



Audit Scope

- Review implementation of QA policies and procedures applied to the development of the COL application
- Review QA controls implemented during site characterization activities (for applications not referencing an ESP)
- Review adequacy of contractor oversight by COL applicant



Lessons Learned

- **Timing is crucial** – COL application must be sufficiently complete for a meaningful audit to be conducted
- Emphasis on design control processes (incorporation by reference, departures from DCD, and site-specific aspects)
- Contractors' scope of work needs to be clearly defined and identified
- Audit focus is **implementation** of QA programs and processes needed to yield a high quality COL application
- Early staff interaction with COL applicant and contractors fosters audit efficiency and effectiveness



Oversight of Industry's Vendor Activities

- Manual Chapter 2507: Vendor Inspection Program for New Reactors
 - Inspection Procedure 43005
- Objectives:
 - Observation of industry's activities
 - Inspection of the supplier's 10 CFR Part 21 program



Oversight of Industry's Vendor Activities

- Documentation:
 - Trip Report to document the effectiveness of the industry's activities
 - Inspection Report to the vendor to document observation and findings on the 10 CFR Part 21 program



NRO Vendor Inspection Program

- IMC 2507 – Construction Vendor Inspection Program for New Reactors
- SECY Paper
- International Regulatory Oversight
 - Currently being developed under Multinational Design Evaluation Program (MDEP)



Future Quality Assurance and Vendor Inspection Activities

- 3 Pre-COL Audits
- 2 Vendor inspections
- Allegation-related inspections
- 1 NUPIC observation