US Nuclear Regulatory Commission Quality Assurance Roles and Responsibilities for Radioactive Material Transport

Robert J. Lewis
Section Chief
(Paper authored by R. Temps)
Spent Fuel Project Office
U.S. Nuclear Regulatory Commission
Regulatory Framework

- U.S. Department of Transportation
  - Regulates all radioactive material transport

- U.S. Nuclear Regulatory Commission
  - Regulates Type-B and fissile material transport
Quality Assurance Program (QAP) Requirements

- QAP description required to be submitted for review and approval by NRC

- Must address how the applicable 18 criteria will be applied to transportation and/or design activities

- QAP description cannot just repeat back the criteria and should not contain working level detail
QAP Requirements (contd.)

- NRC issues a Quality Assurance Program Approval certificate following satisfactory review of the submitted QAP description

- QAP user translates approved program description into working level procedures

- Any changes to an approved QAP description require NRC approval before implementation
Other Quality Standards

- QAP submittals based on other quality standards (e.g., NQA-1 or ISO-9000) are acceptable but will likely require supplementation.

- SECY-03-0117 provides comparison of 10 CFR 50, Appendix B criteria with ISO 9001.

- Identified differences applicable as well to Appendix H criteria in 10 CFR 71.
Inspections

- QAP user expected to ensure proper implementation of their approved program

- NRC inspection program uses qualified inspectors to conduct periodic inspections to assess implementation adequacy

- Identified non-conformances dispositioned according to their safety, risk, and severity
Summary

- NRC regulates Type-B and fissile material transport
- NRC reviews and approves QA Programs
- NRC inspects implementation of Program