Image: State Stat

NRC MC&A Inspections Perspective

Rodney Likes Westinghouse Electric Company LLC *Columbia Fuel Fabrication Facility*



- Columbia, South Carolina Nuclear Fuel and Components Manufacturing
- NMMSS Reporting Information
 Symbol (RIS) = YLM
- ~1,200,000 kg 1,400,000 kg
 Uranium throughput
- Typically on the order of 50,000 discrete items containing uranium tracked daily







Uranium Accountability/Accounting Records

 Uranium receipts, shipments and discards are properly documented, and verified including independent uranium measurements

Item Control

Used to track discrete items of uranium

Measurement Control

- Guarantees the accuracy of accountability measurements
- Special Nuclear Material (SNM) Physical Inventory
 - Verification of items physically present compared to records
 - Calculation of acceptance values for Inventory Difference





- Routine Inspections
 - Review of management measures (Organization, Fundamental Nuclear Material Control Plan, Training/Qualification Program, Procedures, Corrective Action Process)
 - Review and observation of processes i.e. "Vertical Slice"
 - Item Tracking, Measurements, Operator Qualifications, Laboratory Operations, Measurement Control Practices, Standards Traceability and Instrument Calibrations, Shipper Receiver Difference Evaluations, Item Resolution Program
 - Review of inventory results and measurement error calculations

International Safeguards

- SNM Imports/Exports Foreign Obligations Tracking
- Update to Design Information Questionnaire (DIQ)





- Integration with Region II has made inspections more efficient and consistent - We know what to expect
- Challenges in retaining knowledgeable staff and consistency of inspector team – This is no different in private industry
 - Upside is new/different inspectors bring fresh eyes and questioning attitude
- Helpful with international interactions (DIQ Update, IAEA Additional Protocol Reporting, Foreign Obligations Tracking, SNM Imports/Exports)
- Need to assure risk informed response to issues, sharing of operational experience/best practices, and proactive continuous improvement

