

Briefing on the Results of the Agency Action Review Meeting

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Objectives

- Review agency actions for material and reactor licensees
- Coordinate agency actions
- Review Reactor Oversight Process self-assessment
- Review industry trends

Licensed Activities Safe and Secure

- Agency actions were appropriate for licensees with significant performance issues
- No significant adverse trends and no significant adjustments recommended for the Materials and Waste Programs
- No significant adverse trends and no significant adjustments recommended for the Reactor Oversight Process

Agenda

- Materials and Waste Performance
 Trends Laura Dudes, FSME
- Industry Trends Program and Reactor Oversight Process Self-Assessment – Allen Howe, NRR
- Reactor Licensee Discussions
 - -Browns Ferry Victor McCree, RII
 - -Fort Calhoun Marc Dapas, RIV

Materials Performance Trends

Laura Dudes, Director Division of Materials Safety and State Agreements FSME

Performance Evaluation Process

- Systematic review to identify significant:
 - Operational performance trends
 - Licensee performance issues
 - -NRC program issues/gaps

Performance Criteria

- Strategic outcomes
- Performance measures
- Trending review of Nuclear Material Events Database (NMED) data
- Abnormal occurrences
- Significant enforcement actions
- Agency Action Review Meeting Criteria

No Significant Performance Trends Identified

- 415 NMED events
- 10 Abnormal
 Occurrences
- Event numbers small compared to the millions of uses

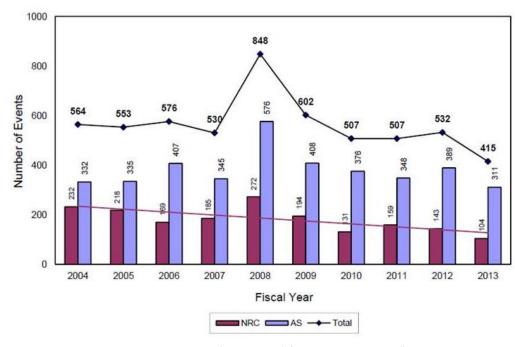


Figure 1. All NMED Events (5,634 total) from SECY 14-0035, "Annual Report to the Commission on Licensee Performance in the Materials and Waste Programs Fiscal Year 2013"

Radiography Events Special Study



Met Strategic Goals

- Two nuclear materials licensees met the Agency Action Review Meeting discussion criteria
- Materials program met safety and security performance metrics
- No significant trending issues
- No significant NRC program issues

Reactor Assessments

Allen Howe, Deputy Director Division of Inspection and Regional Support

Office of Nuclear Reactor Regulation

Industry-Wide Safety Performance Maintained

- No long-term industry trends identified with existing data
 - Ongoing review
- No short-term industry performance limits exceeded
- No events exceeded limits within Baseline Risk Index for Initiating Events

Industry Trends Program Improves

- Considering all oversight cornerstones
- Using additional Performance Indicator information
- Evaluating incorporation of new reactors performance data

Oversight Process Is Effective

 Met performance goals and achieved intended outcomes

 Appropriately focused resources based on performance

Impact of furlough

Oversight Process Deviation

- Action Matrix Deviation
 - Perry (Jan. 2013)
- Plan to add flexibility to guidance
- Revised guidance based on lessons learned from 2012 deviations

Oversight Activities

- Internal and External Activities
 - Oversight Enhancement Project
 - Independent Review
 - Other evaluations
- Incorporated safety culture common language into oversight process
- Provided recommendations for riskinforming new reactors

Future Oversight Improvements

- Evaluate feedback and implement appropriate oversight improvements
- Explore improvements to the oversight self-assessment process
- Continue emphasis on stakeholder involvement
- Transition from construction oversight to operating oversight

Review of Browns Ferry Performance

Victor McCree Regional Administrator, RII

Background



- Unit 1 Multiple/Repetitive Degraded Cornerstone Column (Column 4), since fourth quarter 2010
 - Red Finding (LPCI valve) closed
 - Confirmatory Action Letter (CAL) closed
 - Unit 1 remains in Column 4 due to additional Action Matrix inputs

Background (cont.)

- Unit 2 Degraded Cornerstone Column (Column 3), since fourth quarter 2012
 - Inspection Procedure (IP) 95002
 Supplemental Inspection completed
 - Unit 2 remains in Column 3 due to additional Action Matrix inputs

Background (cont.)

- Unit 3 Regulatory Response Column (Column 2), since second quarter 2012
 - Previous IP 95001 Supplemental Inspection completed
 - Unit 3 remains in Column 2 due to
 White Emergency Preparedness Finding

Current Plant Status

- Unit 1 At power since March 2013 after degraded vacuum related scram
- Unit 2 At power since May 2013 following refueling outage
- Unit 3 At power since May 2014 after a scram from a testing issue

Browns Ferry Operated Safely

- NRC conducted Baseline, Supplemental and CAL Closure inspections in 2013
- NRC inspections identified improvements in station performance
- NRC inspections identified improved understanding of the importance of a strong safety culture

Completed Inspection Procedure 95003

- NRC identified no findings of greater-than-Green significance
- CAL issued to establish basis for closure of Red Finding
 - -Short term (Tier 1) actions
 - Longer term (Tier 2) actions for continued performance improvement

Completed CAL Closure Inspection

- Confirmed adequacy of Tennessee Valley Authority (TVA) actions to address all Tier 1 items
- No findings were identified
- Closed Red Finding and CAL

Substantive Cross-Cutting Issues Closed

- Closed two long standing Substantive Cross-Cutting Issues (SCCI) based on results of IP 95003 Supplemental Inspection
- Closed one SCCI based on results of CAL closure inspection
- No new SCCIs opened

Open Confirmatory Orders

- 2009 Confirmatory Order for Discrimination
 - TVA continues to implement actions associated with the Confirmatory
 Order

Open Confirmatory Orders (cont.)

- 2014 Confirmatory Order for 10CFR50 Appendix R Operations Minimum Staffing Level
 - Associated with White Emergency
 Preparedness Finding
 - SLIII 50.9 (Inaccurate Information)
 - SLIII 50.90 (Improper License Change)

Going Forward

- Perform IP 95001 Supplemental Inspection for Emergency Preparedness White Finding
- Perform inspections to verify adequate implementation of Confirmatory Order actions

Going Forward (cont.)

- Perform baseline inspections to verify adequate implementation of Tier 2 actions
- Assess licensee performance for expected Performance Indicator changes

Review of Fort Calhoun Station Performance

Marc Dapas Regional Administrator, RIV

Fort Calhoun Station



- Regulatory Oversight
- Restart Readiness Decision
- Going Forward

Regulatory Oversight

- Yellow Finding inadequate flood protection (Oct. 2010)
 - Transition to Reactor Oversight Process
 (ROP) Action Matrix Column 3
- Shutdown for refueling outage (Apr. 2011)
- Missouri River flood (May 2011)
- Electrical switchgear fire (June 2011)

- White Finding reactor protection system failed contactor (July 2011)
- Transition to ROP Action Matrix Column 4 (Sept. 2011)
- CAL issued (Sept. 2011)
 - post flooding recovery actions

- Transition to Inspection Manual Chapter 0350 Process (Dec. 2011)
- Omaha Public Power District/Exelon Services Agreement (Jan. 2012)
- Commission briefing (Feb. 2012)
- Red Finding for switchgear fire (Apr. 2012)

- Revised CAL Issued (June 2012)
 - added restart checklist
 - contained IP 95003 key attributes
- Commission briefing (June 2012)
- Restart Checklist Basis Document issued (Nov. 2012)

- Commission briefing (Jan. 2013)
- Revised CAL issued (Feb. 2013)
 - Added 3 Restart Checklist items
- Commission briefing (May 2013)

Restart Readiness Decision

- Restart Checklist inspection activities completed (Dec. 2013)
 - 23,000 hours of NRC inspection, assessment, and licensing activities
- Comprehensive corrective actions independently verified
- CAL closed (Dec. 2013)
- Post-Restart CAL issued (Dec. 2013)

Going Forward

- Conduct baseline and area-specific inspections
 - -Safety Culture
 - -Corrective Action Program
 - Evaluation of degraded/nonconforming conditions

Going Forward (cont.)

- Continue routine public meetings to provide for open and transparent oversight process
- Performance assessment for transition to normal level of regulatory oversight

References

 SECY-14-0035, "Annual Report to the Commission on Licensee Performance in the Materials and Waste Programs Fiscal Year 2013"

http://www.nrc.gov/reading-rm/doc-collections/commission/secys/2014/2014-0035scy.pdf

 SECY-14-0042, "Fiscal Year 2013 Results of the Industry Trends Program for Operating Power Reactors"

http://www.nrc.gov/reading-rm/doc-collections/commission/secys/2014/2014-0042scy.pdf

 SECY-14-0047, "Reactor Oversight Process Self-Assessment for Calendar Year 2013"

http://www.nrc.gov/reading-rm/doc-collections/commission/secys/2014/2014-0047scy.pdf

List of Acronyms

- CAL Confirmatory Action Letter
- FSME Office of Federal and State Materials and Environmental Management Programs
- IP Inspection Procedure
- LPCI Low Pressure Core Injection
- NMED Nuclear Material Events Database
- NRC U.S. Nuclear Regulatory Commission

List of Acronyms (cont.)

- RII Regional Office II
- RIV Regional Office IV
- ROP Reactor Oversight Process
- SCCI Substantive Cross-Cutting Issue
- SECY Office of the Secretary
- SL Severity Level

OPTIONAL BACKGROUND SLIDE

Watts Bar 2 Milestones

- Advisory Committee on Reactor
 Safeguards Meeting (Aug./Sept. 2014)
- Commission Meeting (Oct. 2014
- Commission Vote Paper Issuance of Operating License (Nov. 2015)
- Final Readiness Letter and decision on Full Power License (Feb. 2015)
- Commercial Operation (Dec. 2015)