

# Briefing on NRR Programs, Performance, and Plans

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## Acronyms

ABWR	Advanced Boiling Water Reactor	NEPA	National Environmental Policy Act
ACRS	Advisory Committee on Reactor Safeguards	NFPA	National Fire Protection Association
ANPR	Advanced Notice of Proposed Rulemaking	NMSS	Office of Nuclear Material Safety and Safeguards
BWR	Boiling Water Reactor	NRC	Nuclear Regulatory Commission
CFR	Code of Federal Regulations	NRO	Office of New Reactors
CR	Continuing Resolution	NRR	Office of Nuclear Reactor Regulation
CWP	Centralized Work Planning	NSIR	Office of Nuclear Security and Incident Response
CY	Calendar Year	NSPDP	Nuclear Safety Professional Development
DOE	Department of Energy		Program
EIS	Environmental Impact Statement	OGC	Office of General Counsel
EPR	Evolutionary Power Reactor	PRA	Probabilistic Risk Assessment
EPU	Extended Power Uprate	PWR	Pressurized Water Reactor
FR	Federal Register	R&R	Roles and Responsibilities
FY	Fiscal Year	RAI .	Request for Additional Information
GAO	Government Accountability Office	RES	Office of Nuclear Regulatory Research
GEIS	Generic Environmental Impact Statement	RG	Regulatory Guide
GL	Generic Letter	RIS	Regulatory Issue Summary
GSI	Generic Safety Issue	ROP	Reactor Oversight Process
I&C	Instrumentation and Control	RTR	Research and Test Reactor
INPO	Institute for Nuclear Power Operations	SPU	Stretch Power Uprate
IT	Information Technology	SRM	Staff Requirements Memorandum
LLTF	Lessons Learned Task Force	SRP	Standard Review Plan
MD	Management Directive	SWP	Strategic Workforce Planning
MWe	Megawatt Electric	TVA	Tennessee Valley Authority

## **Agenda**

- Overview
- Program Status
- Technical Issues
- Human Capital
- Summary

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#### Licensing

- Accomplishments
  - -1659 licensing actions in FY06
  - Timeliness goals largely met
- Challenges
  - Alternate Source Term
  - Mitigating measures closure
- Projected Commission Issues
  - Revised performance metrics

#### **Reactor License Renewal**

- Accomplishments
  - Completed 48 reactors, 9 FY06
- Challenges
  - Reestablishing schedules
  - Generic Environmental Impact Statement (GEIS) update
  - Inspections prior to renewal
- Projected Commission Issues
  - Contested applications

#### **TVA Activities**

- Accomplishments
  - Browns Ferry renewals
  - Browns Ferry 1 restart review
- Challenges
  - Browns Ferry power uprates
  - Watts Bar 2 feasibility study
- Projected Commission Issues
  - Potential Watts Bar 2 issues

### Rulemaking

- Accomplishments
  - Rules final and proposed
  - Rulemaking petitions
- Challenges
  - Streamlining the process
- Projected Commission Issues
  - Rulemaking reviews
  - Process improvements

#### **Groundwater Protection**

- Accomplishments
  - Information Notice 2006-13
  - Lessons Learned Task Force (LLTF)
- Challenges
  - LLTF recommendations
  - Oversight of industry actions
- Projected Commission Issues
  - -None

## **Operating Experience**

- Accomplishments
  - Established model program
  - Influences regulatory functions
- Challenges
  - Communications in a changing organization
  - Expanding scope
- Projected Commission Issues
  - None

#### **Research and Test Reactors**

- Accomplishments
  - -Licensing conversions and renewals
  - -Security enhancements
- Challenges
  - -License renewal backlog
  - -Conversion delays
- Projected Commission Issues
  - -Streamlined renewal process

## **Power Uprate Issues**

- Accomplishments
  - Five power uprates in FY06
  - -112 total uprates (4845 MWe)
- Challenges
  - Power uprate workload
  - Resolution of technical issues
- Projected Commission Issues
  - -Status update in May

#### **Material Performance**

- Accomplishments
  - Steam generator technical specifications
  - Reactor head issues
- Challenges
  - Steam generator tube supports
  - Dissimilar metal butt welds
- Projected Commission Issues
  - None

### **Sump Performance**

- Accomplishments
  - Strainer installation and material removal
  - Plant and vendor audits
- Challenges
  - Water management strategies
  - Chemical effects and coatings
- Projected Commission Issues
  - BWR evaluation

## Digital I&C Issues

- Accomplishments
  - -Agency steering committee
  - Stakeholder interaction
- Challenges
  - Developing project plan
  - Resolving technical issues
- Projected Commission Issues
  - Commission briefing mid-year
  - Potential policy issues

#### **Risk Informed Activities**

- Accomplishments
  - Regulatory infrastructure
  - Technical specifications
- Challenges
  - PRA quality initiatives
  - -10 CFR 50.46a issues
- Projected Commission Issues
  - -10 CFR 50.46a

#### **Fire Protection**

- Accomplishments
  - Fire barriers
  - Operator manual actions
  - -NFPA 805 guidance
- Challenges
  - Spurious actuation issues
  - NFPA 805 implementation
- Projected Commission Issues
  - Closure on spurious actuations
  - Enforcement discretion

### Reorganization

- Accomplishments
  - -Created Office of New Reactors
- Challenges
  - -Resume aggressive hiring
  - -Ensuring technical consistency
- Projected Commission Issues
  - -Effectiveness review
  - -Organizational adjustments

## **Maximizing Talent**

- Accomplishments
  - Strategic workforce planning
  - -Streamlined hiring
  - Qualifications program
- Challenges
  - Large turnover
  - Qualification and training
- Projected Commission Issues
  - Continued support

## **Continuous Improvement**

- Accomplishments
  - Two major reorganizations
- Challenges
  - Enhancing performance
  - Space
- Projected Commission Issues
  - Space

### Summary

Safety is our highest priority

 Reactor Safety Regulation is a team effort

NRR will meet our challenges