



Briefing on NRR Programs, Performance, and Plans

Jim Dyer, Director
Office of Nuclear Reactor Regulation
March 8, 2007

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 Program
DOE	Department of Energy	OGC	Office of General Counsel
EIS	Environmental Impact Statement	PRA	Probabilistic Risk Assessment
EPR	Evolutionary Power Reactor	PWR	Pressurized Water Reactor
EPU	Extended Power Uprate	R&R	Roles and Responsibilities
FR	Federal Register	RAI	Request for Additional Information
FY	Fiscal Year	RES	Office of Nuclear Regulatory Research
GAO	Government Accountability Office	RG	Regulatory Guide
GEIS	Generic Environmental Impact Statement	RIS	Regulatory Issue Summary
GL	Generic Letter	ROP	Reactor Oversight Process
GSI	Generic Safety Issue	RTR	Research and Test Reactor
I&C	Instrumentation and Control	SPU	Stretch Power Uprate
INPO	Institute for Nuclear Power Operations	SRM	Staff Requirements Memorandum
IT	Information Technology	SRP	Standard Review Plan
LLTF	Lessons Learned Task Force	SWP	Strategic Workforce Planning
MD	Management Directive	TVA	Tennessee Valley Authority
MWe	Megawatt Electric		

Agenda

- Overview Jim Dyer
- Program Status Bruce Boger
- Technical Issues Jack Grobe
- Human Capital Mike Weber
- Summary Jim Dyer

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