



Briefing on NRR Programs, Performance, and Plans

**Jim Dyer, Director Office of
Nuclear Reactor Regulation**

March 16, 2006

Acronyms

ADAMS	Agencywide Documents Access and Management System
ANPR	Advanced Notice of Proposed Rulemaking
AP1000	Advanced Plant 1000
BWR	Boiling Water Reactor
CFR	Code of Federal Regulations
COL	Combined Operating License
CWP	Centralized Work Planning
CY	Calendar Year
DC	Design Certification
DEIS	Draft Environmental Impact Statement
EIS	Environmental Impact Statement
EPR	Evolutionary Power Reactor
EPU	Extended Power Uprate
ESBWR	Economic Simplified Boiling Water Reactor
ESP	Early Site Permit
FR	Federal Register
FRN	Federal Register Notice
FY	Fiscal Year
GL	Generic Letter
GSI	Generic Safety Issue
IAEA	International Atomic Energy Agency
INPO	Institute for Nuclear Power Operations
IT	Information Technology
ITAAC	Inspections, Tests, Analyses, and Acceptance Criteria
MD	Management Directive

NEA	Nuclear Energy Agency
NEI	Nuclear Energy Institute
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NRC	Nuclear Regulatory Commission
NRR	Office of Nuclear Reactor Regulation
NTEU	National Treasury Employees Union
NSIR	Office of Nuclear Security and Incident Response
NSPDP	Nuclear Safety Professional Development Program
OEDO	Office of the Executive Director for Operations
OGC	Office of the General Counsel
OHR	Office of Human Resources
OIG	Office of Inspector General
OIP	Office of International Programs
OMB	Office of Management and Budget
OPA	Office of Public Affairs
PWR	Pressurized Water Reactor
R&R	Roles and Responsibility
RAI	Request for Additional Information
RES	Office of Nuclear Regulatory Research
ROP	Reactor Oversight Program
RTR	Research and Test Reactor
SPU	Stretch Power Uprate
SRM	Staff Requirements Memorandum
SRP	Standard Review Plan
SWP	Strategic Workforce Planning

Agenda

- **NRR Organizational Issues**
- **NRR Program Status**
- **Strategies for New Reactor Licensing**
- **NRR Human Capital Initiatives**
- **Summary**

NRR Organizational Issues

- **Anticipatory Reorganization**
 - **Prepare for New Reactor Licensing**
 - **Enhance Risk Informed Regulation**
 - **Increase first line supervision**
- **Future Adjustments**
- **2005 Safety Culture & Climate Survey Results**

NRR Program Status

- **Licensing Actions**
- **License Renewals**
- **Rulemaking**
- **Fire Protection**
- **Assessment of PWR Sump Performance Capabilities**
- **Grid Reliability**
- **Decommissioning Funding**
- **Radioactive Contamination Controls**

Proposed New Reactor Activities

Organization	Designs	Sites	Applications	Projected Date
General Electric	ESBWR		DC	8/25/2005
Framatome ANP	EPR		DC	12/2007
Southern Nuclear Operating Company	AP1000	Vogtle	ESP and COL	8/2006: ESP 3/2008: COL
Constellation	EPR	Nine Mile Point Calvert Cliffs, plus 2	COL	6/2008 and 6/2009
Dominion	ESBWR	North Anna	COL	9/2007
Duke	AP1000	TBD (2)	COL	Late 2007 or Early 2008
Progress Energy	AP1000	Harris (2) Florida (2)	COL	Late 2007
NuStart Energy	AP1000 ESBWR	Bellefonte Grand Gulf	COL COL	4 th Qtr 2007 4 th Qtr 2007 or 1 st Qtr 2008
Entergy	ESBWR	River Bend	COL	Early 2008
South Carolina Electric and Gas	AP1000	Summer (2)	COL	3 rd Qtr 2007

Strategies for New Reactor Licensing

- **Design Centered Approach**
 - **Maximize Standardization**
- **Optimize Review Process**
 - **10 CFR Part 52**
 - **Infrastructure Development**
 - **Detailed Planning**
 - **Pre-application Reviews for COLs**
 - **Accountability**
 - **Management Attention**
- **Integration of Efforts among NRC Offices**

Key Infrastructure Activities

- **Update and Revise NUREG-0800, “Standard Review Plan”**
- **Develop Construction Inspection Program**
- **Develop Combined Operating License Regulatory Guide**

Standard Review Plan

- **Accelerated efforts**
- **Identified SRP Section Prioritization**
- **Developing Generic Risk Insights to Focus Reviews**
- **High Priority Sections by December 2007**
- **Other Sections in 2007 and 2008**
- **Posted on NRC public web site:
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr0800>**

Construction Inspection Program

- **Inspection Guidance Supporting New Reactor Licensing**
 - **ESP Inspections**
 - **Pre-COL Inspections**
 - **ITAAC Inspections**
 - **Non-ITAAC Inspections**
- **Preparation for Implementation**
 - **Training**
 - **Staffing Resources**

NRR Human Capital

- **Recruiting**
- **Training**
- **Knowledge Management**

Summary

- **Safety is our Highest Priority**
- **Evolving Organization**
- **Preparing for New Reactor Licensing and Construction**