

**U.S. NRC**

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

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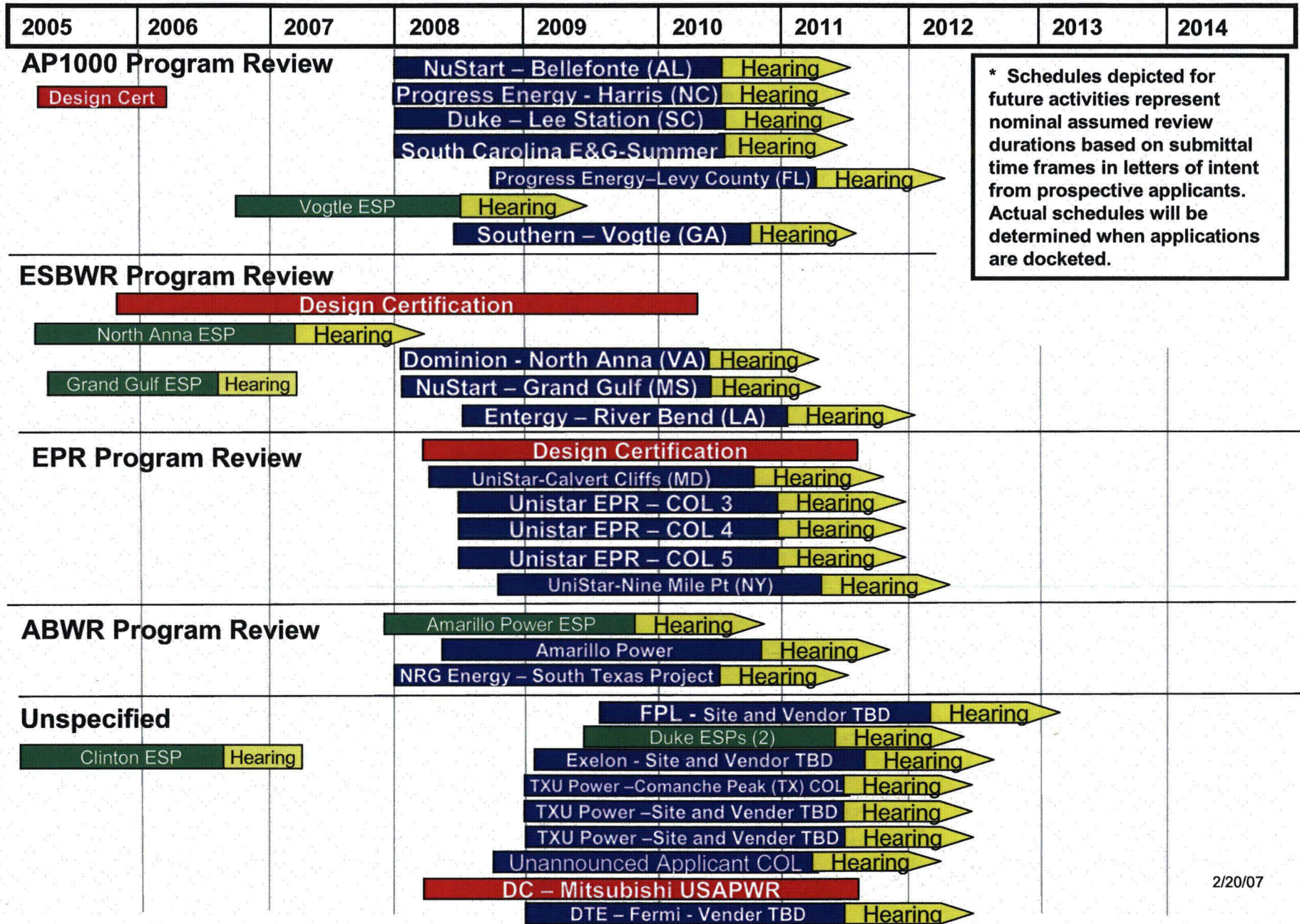
# **STATUS OF NEW REACTOR ISSUES**

**February 28, 2007**

**Luis Reyes, Executive  
Director for Operations**

# New Reactor Licensing Applications

An estimated schedule by Fiscal Year



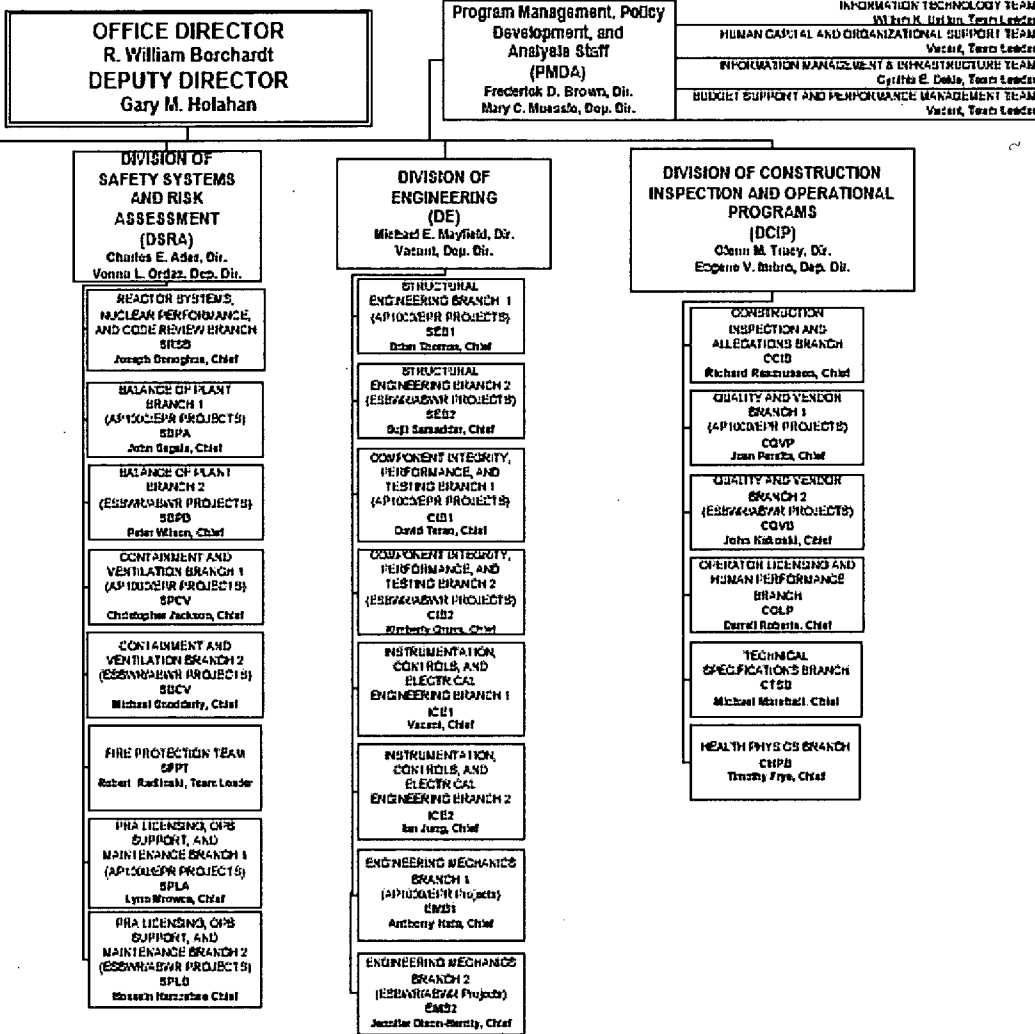
# **Agenda**

- **Transition Status**
- **Infrastructure Status**
- **Project Status**

# **NRO Mission Statement**

**The Office of New Reactors serves the public interest by enabling the safe, secure, and environmentally responsible use of nuclear power in meeting the nation's future energy needs.**

# OFFICE OF NEW REACTORS



Updated 02/13/07

# **Transition Issues**

- **Agreement with NRR on staff assignments**
- **Partnering on reorganization**
- **Office space**
- **NRO web page**

# **Staffing Milestones NRO/Region II**

- **October 2006 on board: 85**
- **December 2006 on board: 100/4**
- **February 2007 on board: 243/6**
- **Target Staffing level FY08: 355/20**

# **Coordination Issues**

- **Technical Consistency**
- **Security/Emergency Planning**
- **Multinational Design Evaluation Program**
- **Advanced Reactor Coordination**
- **Interface Committees**



# **Infrastructure Status**

- **Rulemaking**
- **Guidance Development**
- **InfrastructureTools**
- **Technical Assistance Contracting**
- **Development of Construction Inspection Program**

# Rulemaking

- **Part 52**
- **Limited Work Authorization**
- **Fitness for Duty requirements for construction**
- **Security Rulemakings**
  - **Design Basis Threat**
  - **Power Reactor Security Requirements**
  - **Security Assessments**

# **Infrastructure Status**

- **Rulemaking**
- **Guidance Development**
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# **Guidance Development**

- **SRP Update: ACRS interactions**
- **DG-1145 “Combined License Applications for Nuclear Power Plants” : Resolving public comments**
- **Regulatory Guide updates**
- **Performing consistency review between draft Part 52 rule, SRP, DG-1145, and Regulatory Guides.**

# **InfrastructureTools**

- **Licensing Program Plan**
- **Construction Inspection Program Information Management System**
- **Electronic filing, review, and distribution**
- **Tools to assist reviewers**

# **Technical Assistance Contracting**

- **Adds flexibility to address a changing workload**
- **Provides needed technical expertise**
- **Includes a mix of commercial, small businesses, and national laboratories**
- **Includes large flexible multi-year contracts**
- **Lean Six Sigma pilot application**

# **Construction Inspection Program Development**

- **ITAAC Inspection procedures**
- **Non - ITAAC Inspection procedures**
- **Early site permit inspections**
- **Vendor inspections**

# **Project Status**

- **Current Application Review Activities**
- **Pre-application review activities**
- **Multinational Design Evaluation Program**



# **Current Application Review Activities**

- **Early site permits for Clinton, Grand Gulf, North Anna, and Vogtle**
- **ESBWR design certification**

# **Pre-application Review Activities**

- **AP-1000 pre-Combined License activities**
- **Evolutionary Power Reactor (EPR) pre-design certification activities**
- **Creation of and interactions with Design Centered Working Groups**

# **Multinational Design Evaluation Program**

- **Stage 1 focused on the AREVA EPR**
- **On-going interactions with technical/regulatory counterparts in Finland and France**

# **Future Briefings**

- **Construction Inspection and Oversight program**
- **Early Site Permit Lessons Learned**
- **Technical Review Challenges**
- **External outreach activities**
- **Contracting Strategy and Process Improvements**
- **International Cooperation/MDEP**
- **Advanced reactor activities**
- **Technical consistency between operating and new reactors**
- **Environmental issues**
- **Standardization**

# Acronyms

- SRP – Standard Review Plan
- ACRS – Advisory Committee on Reactor Safeguards
- ITAAC – Inspections, Tests, Analyses and Acceptance Criteria
- ESBWR – Economic Simplified Boiling Water Reactor
- EPR – Evolutionary Power Reactor