

# **Status of New Reactor and Combined License Issues**

**Industry Briefing of NRC Commission**

**August 22, 2007**



NUCLEAR  
ENERGY  
INSTITUTE

# **Industry Participants**

- **Marvin Fertel, Senior Vice President and Chief Nuclear Officer, NEI**
- **Christopher Crane, President and Chief Nuclear Officer, Exelon Nuclear**
- **Dave Christian, Senior Vice President and Chief Nuclear Officer, Dominion Generation**

# Discussion Topics

- **Key policy issues**
- **COL issues**
  - **Completion of rulemakings and guidance**
- **Critical industry activities**
- **The next 12 months**
  - **Completion of near-term priorities**

# **Key Policy Issues**

- **Publish Part 26 Rulemaking**
- **Issue Notice of Hearing after docketing each portion of an application**
  - **Facilitates the potential for earlier operational date**
- **Recognition of EP adequacy for a new unit at an existing operating site**
- **Affirm Waste Confidence position**

# **COL Issues**

- **Outstanding progress over past 10 months**
- **Limited number of open issues requiring closure...**
  - **Access Authorization**
  - **Digital I&C**
  - **New QA process for effluents**
  - **Radiological Protection**
  - **ISI/IST**
  - **PRA**
- **Commission directed transparency & accountability in the hearing process**

# **Completion of COL Related Rulemakings**

- **Limited Work Authorization**
  - Will increase focus on safety-significant construction
  - Foundation for earlier operational date
- **Aircraft Impact**
  - Industry peer review of evaluations
  - Industry taking action in advance of the rule
- **Security -- §73.55**
  - New designs incorporating insights from security evaluations on operating plants

# **Critical Industry Tasks**

- **Industry orientation on lessons learned from recent construction**
- **Supply Chain**
  - **Focus on quality**
    - **Expanding NUPIC activities**
  - **Preventing Counterfeit/substandard parts**
  - **Broadening number of qualified vendors**
- **Workforce**
  - **Prime focus on skilled craft**
  - **Regional workforce groups**
  - **Establishing partnerships with community colleges**

# **Critical Focus Areas**

- **Preparation and review of COL and design certification applications**
- **Construction Inspection Program development**
  - **Defining the ITAAC closeout process**
- **Improving the environmental review process**
- **Next phase of regulatory guide updates**
  - **Rationale for making changes**

# Summary

- **Predictability, open communications and quality applications are essential for success**
- **Industry priorities**
  - **COL and design certification applications**
  - **Construction inspection & closeout**
  - **Completion of rulemakings**
  - **Waste confidence**
- **Next 12 months are critical for credibility**



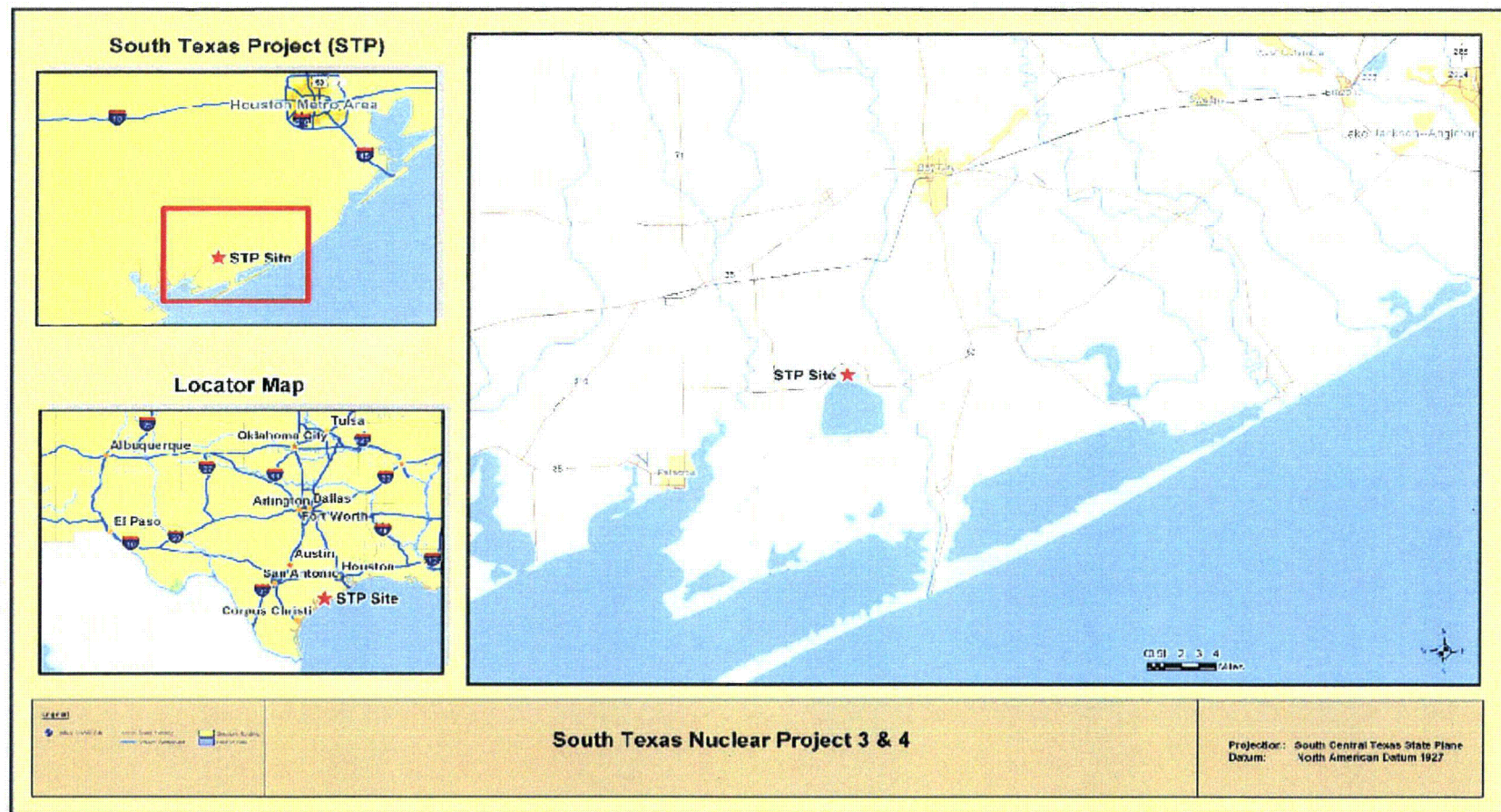
# **Impacts of New Nuclear Units in Matagorda County**

**August 22, 2007**

**Richard Knapik**

**Mayor of Bay City Texas**

# Matagorda County



# **Matagorda County**

- **Description**
- **Demographics**
- **Economy**

# **Key Impacts**

- **Housing**
- **Schools**
- **Traffic**
- **Infrastructure**

# **Benefits of New Plants**

- **Education**
- **High paying jobs**
- **Clean industry**
- **Economic growth**
- **Emergency Preparedness**
- **Corporate support for local needs**

# **Wharton County Junior College Extension**





---

# **STATUS OF NEW REACTOR ISSUES**

**August 22, 2007**

**Luis Reyes**

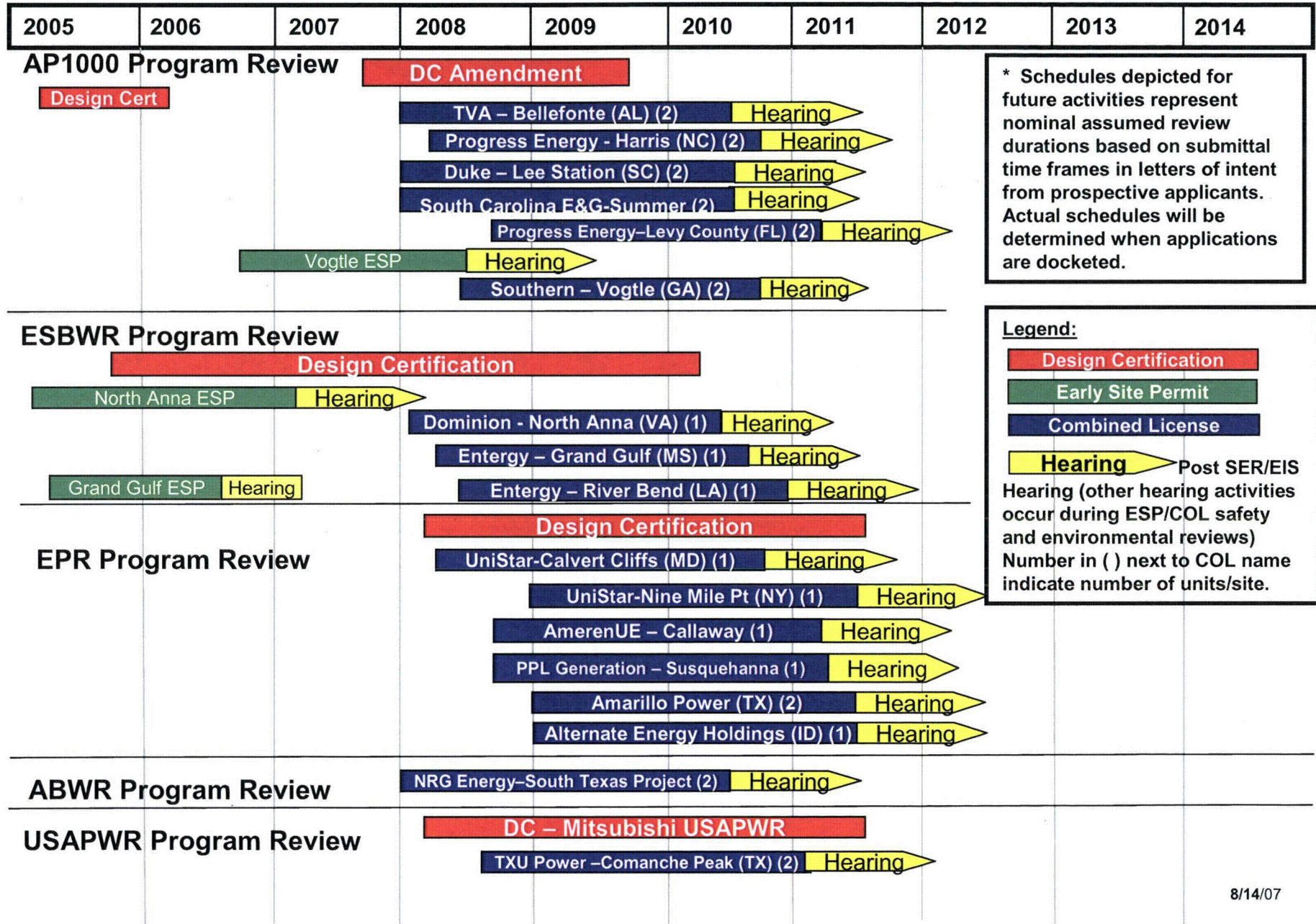
**Executive Director for Operations**

# **Agenda**

- **Overview of New Reactor Status**
- **Program Activities**
- **Reviewer Activities**
- **Stakeholder Interface**

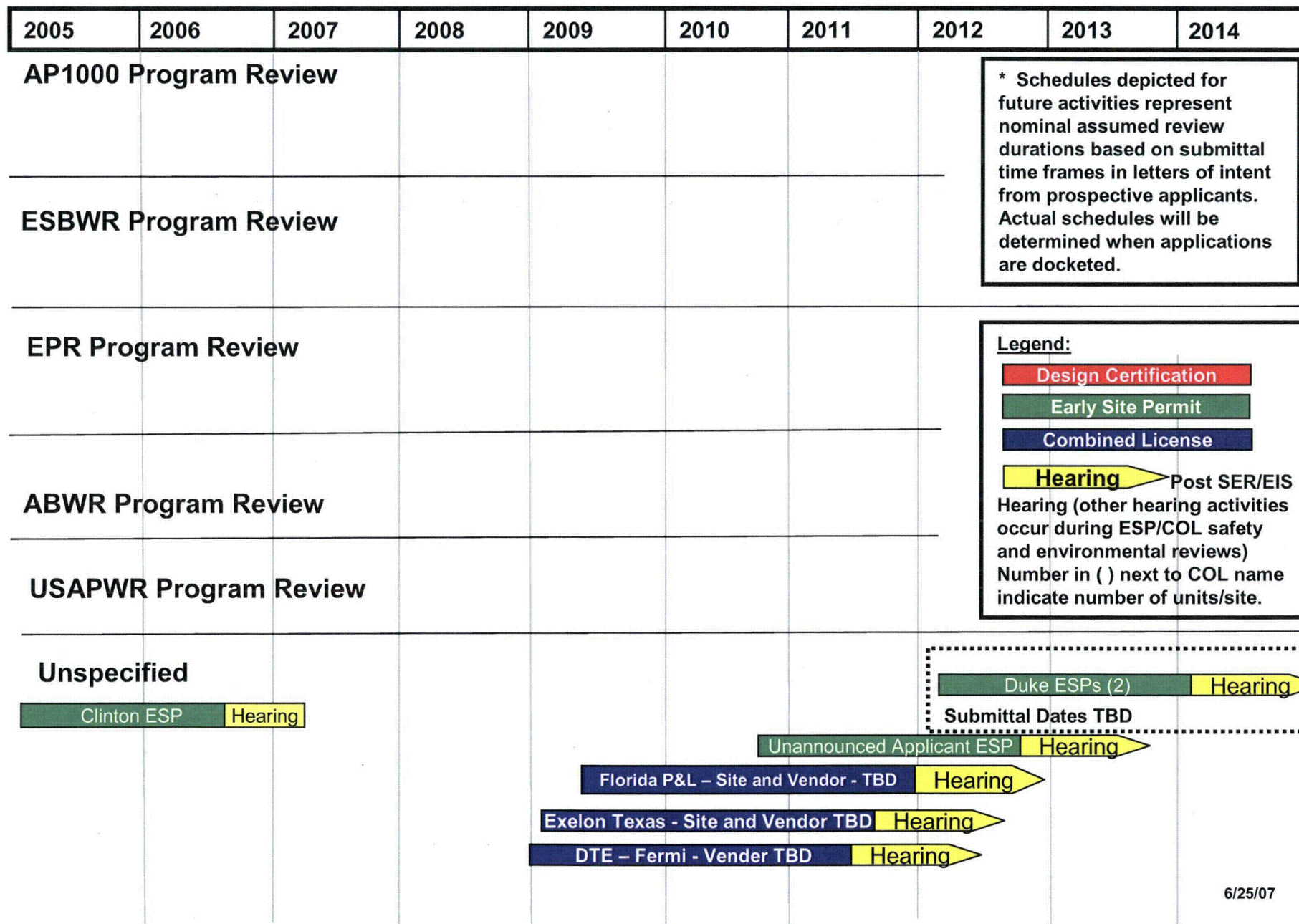
# New Reactor Licensing Applications (Site and Technology Selected)

An estimated schedule by Fiscal Year



# New Reactor Licensing Applications (Site or Technology TBD)

An estimated schedule by Fiscal Year



# **Infrastructure**

- **Contracting**
- **Licensing Program Plan**
- **Safety Evaluation Report Templates**
- **Rulemaking**
  - **Limited Work Authorization**
  - **Part 52**
  - **Security**

# **Pre-application Activities**

- **Outreach Meetings**
- **Quality Assurance Audits**
- **Pre-application Site Visits**
- **Pre-application Reviews and Interactions**
  - **Topical Reports**
  - **Design Centered Working Group Meetings**

# **Reviewer Tools**

- **Acceptance Review Process**
- **Regulatory Guides/Standard Review Plan**
- **Technical Consistency Office Instruction**
- **Knowledge Management tools (e.g., Wizard)**

# **Ongoing Technical Reviews**

- **Design Certifications**
- **Early Site Permits**
- **Pre-Application Activities**
  - **Technical Reports**
  - **Early Engagement on Long Lead Time Items**

# **Continued Focus Areas**

- **Resources**
  - **Critical skills-Hiring**
  - **Staff Development**
  - **Contracts**
- **Technical Issues**
  - **Digital Instrumentation and Controls**
  - **Seismic**
  - **Inspections, Tests, Analyses, and Acceptance Criteria**
  - **Emerging Issues**

# **Security**

- **Interactions**
  - **External: Department of Homeland Security, the public, industry, and vendors**
- **Readiness**
  - **Licensing**
  - **Schedule input**
  - **Staffing**

# **Emergency Planning**

- **Interactions**
  - **External: Federal Emergency Management Agency, the public, industry**
- **Readiness**
  - **Regulations & Guidance updated**
  - **Schedule**
  - **Staffing**

# **Government to Government Interactions**

- **Federal**
- **State**
- **Local**
- **Tribal**

# **Public Outreach Efforts**

- **Public Outreach Meetings**
- **Environmental Scoping Meetings**
- **Draft Environmental Impact Statement**
- **Technical Meetings**
- **Workshops**

# **International Communications**

- **Multinational Design Evaluation Program**
- **Bi-lateral Meetings**
- **Interactions with Chinese Regulatory Agency**

# **Conclusion**

- **Significant accomplishments**
- **Productive pre-application activities**
- **Enhancing program management**
- **Planning for contingencies**