OVERVIEW

Mario V. Bonaca ACRS Chairman

LICENSE RENEWAL

- Reviewed three applications since April 2003
- Will review another three applications between October and December 2003
- Responded to SRM on improvements to generic license renewal guidance documents – June 2003

LICENSE RENEWAL (Cont'd)

 Will review five applications in CY 2004

 Exploring means to further streamline the ACRS review of license renewal applications

RISK-INFORMING 10 CFR 50.46

 ACRS was briefed on the Use of Expert Elicitation Process to Develop LOCA Frequencies

 Will review results of elicitation in Fall 2003

RISK-INFORMING 10 CFR 50.46 (Cont'd)

 Will review proposed rulemaking in response to March 31, 2003 SRM prior to it being forwarded to the Commission

 Will work with the Staff to reconcile challenging technical issues

PROPOSED 10 CFR 50.69

- Provided comments and recommendations on the proposed 10 CFR 50.69, March 19, 2002
- Discussed with Commission on July 10, 2002

PROPOSED 10 CFR 50.69 (Cont'd)

- Meeting planned in Fall 2003 to discuss:
 - Draft Final 10 CFR 50.69
 - Staff's resolution of public comments
 - Staff's resolution of ACRS comments and recommendations
 - NEI's implementation guidance and staff's endorsement

AP1000 DESIGN CERTIFICATION REVIEW

 Held four Subcommittee meetings and one Full Committee meeting to discuss AP1000 design aspects, PRA, Thermal-Hydraulic issues, and DSER open items

AP1000 (Cont'd)

- Reliability of ADS-4 Squib Valve still a question
- Significant number of open items remain to be resolved
- ACRS Full Committee meeting 10/2003 to discuss status of resolution of open items
- ACRS Full Committee Review of FSER—7/2004

GE/ESBWR PRE-APPLICATION REVIEW

- ESBWR Design is based on GE/SBWR and ABWR Designs with Passive Decay Heat Removal system
- Elimination of recirculation pumps, jet pumps, and associated valves and piping reduces the number of locations where reactor coolant system leakage could potentially occur

GE/ESBWR (Cont'd)

- Held one Subcommittee meeting and one full Committee meeting to review thermal-hydraulic issues and design aspects
- Will continue to review ESBWR design aspects and associated Staff review efforts

POWER UPRATE REVIEW STANDARD

- Reviewed draft final extended power uprate review standard – ACRS Report dated September 24, 2003
- Expect to review up to seven power uprate applications in CY 2004
- Revise ACRS review criteria for Power Uprate Applications (>5%) after Staff's implementation of review standard

FUTURE ACRS ACTIVITIES

- Risk-Informed and Performance-Based Regulation
- Advanced Reactor Designs
 - Design Certification Of AP1000
 - Pre-application Reviews
 - Early Site PermitProcess/Applications
- Thermal-Hydraulic Codes

FUTURE ACRS ACTIVITIES (Cont'd)

- Materials Degradation Program
- Steam Generator Action Plan
- Mixed Oxide Fuel Fabrication Facility
- License Renewal and Core Power Uprate Applications

FUTURE ACRS ACTIVITIES (Cont'd)

- High-Burnup Fuel Issues
- Safeguards and Security Matters
- Resolution of Generic Safety Issues
- Significant Reactor Operating Events
- Safety Research Program
- Fire Protection Matters

ACRONYMS

- ABWR Advanced Boiling Water Reactor
- ADS-4 Automatic Depressurization System
- DSER Draft Safety Evaluation Report
- ESBWR Economically Simplified Boiling Water Reactor
- FSER Final Safety Evaluation Report
- GE General Electric

ACRONYMS (cont'd)

- LOCA Loss of Coolant Accident
- NEI Nuclear Energy Institute
- PRA Probabilistic Risk Assessment
- SBWR Simplified Boiling Water Reactor
- SRM Staff Requirements Memorandum