Industry Experience and Perspective

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Day 1 Observations

- NRC Chairman Jaczko
  - LTO on radar screen
  - RPV integrity, internals, cables, buried pipe, concrete
  - Alignment with industry issues

- Julie Keys – NEI:
  - Stable and predictable regulatory platform
  - Part 54 is good enough

- Brew Barron – CENG
  - Decision making timeframe for plants to perform due diligence on future plant operations
  - 10 year planning and decision timeframe for plant upgrades
    - Long lead components: SGs, RPVs, pressurizer, core shroud, RPV internals
    - 10 Years = 5 - 2 year operating cycles
    - Plant walk downs, surveys, engineering, manufacturing, outage planning and integration considerations
Day 1 Observations

• Dr Allen Hiser – NRC
  – Industry has the point to resolve the challenges for extended operational periods

• Jim Lyash – Progress Energy
  – Existing nuclear facilities are valuable commodities to have in the community and state due to economic benefits
  – Current US nuclear fleet represents about 20% of US energy supply and 70% of clean energy generation in this country
  – Added equivalent of 28 new 1000 Mw nuclear reactors from up rates to current fleet
Industry Perspective

• General agreement, that long term plant operations is achievable and can be done safely provided the necessary research is performed and those results support continued operations.

• Recent survey of utility executives showed overwhelming support for long term operations provided it can be done safely.
Industry Objective

• Sound technical bases are established to support nuclear plant life extension
  – Identify systems and components having lives consistent with life extension with only normal monitoring and maintenance
  – Identify those systems and components likely to require repair/replacement to achieve life extension
  – Identify options to address system and component life

• Processes to frame the utility decision making for license extension and making the investments in the plant
Industry Actions and Leadership

• Leadership for LTO for US utilities is thru EPRI Nuclear Sector and its action plan committees
  – MAPC, NDE, Equipment Reliability, Advanced Nuclear (new plant), Fuels, etc

• MAPC focus on current and future RCS component and materials aging issues
  – Accomplished thru BWRVIP, MRP, WRTC, PSCR, SGMP, WCC, and others
  – Integrated long term strategic plan to focus resources and funding for RCS materials aging
Industry Strategic Plan

• Product of MDM and IMT
• Significant resources to bring closure to strategic plan gaps
  – > $50M/year (Average) on RCS material and component issues
  – Since 2004 > $ 350M on RCS materials and components
  – Technical and executive advisors to the various committees
• I&E Guidelines that go beyond Code and regulatory requirements
  – DM Butt welds to address current day issues
  – RPV Internals to address license renewal issues
Conclusion

• Applying today’s operating experience to resolve today’s issues and to plan for future safe operations is critical.

• Identifying future research and operational needs is vital to keep the LTO option open.

• Safe and reliable plant operations is the ultimate goal.