RIC 2005 – Session G4: Risk Informed

RG 1.200 IMPLEMENTATION PILOTS

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PRA QUALITY

- ***For a given application , PRA Quality is determined by the appropriateness of***
  - ***Scope (internal and external initiating events, full power and low power and shutdown operating modes)***
  - ***Level of detail (determined by application)***
  - ***Technical adequacy***

- ***Technical adequacy addressed by:***
  - ***Application of consensus standards, including peer review and self-assessment***
  - ***Focused staff review***

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- ***Part of NRC's Phased Approach to Improving PRA Quality***

- ***Regulatory Guide 1.200, "An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities"***
  - ***Issued for Trial Use in 2004***
  - ***Currently only addresses internal events and NEI peer review process***
  - ***Next revision will also address external events, except fires***

PURPOSE of RG 1.200 IMPLEMENTATIONS PILOTS

- ***Provide Assistance in Clarifying Aspects of RG 1.200 & Associated SRP 19.1***
  - ***Interpretation of documentation needs***
  - ***Interpretation of requirements***
  - ***Interpretation on staff positions***

- ***Identify Specific Improvements to RG 1.200, SRP 19.1, ASME Standard, & NEI Self-Assessment Guidance***

- ***Assess Licensees' Self-Assessment Approaches***

- ***Gain Insights into Scope, Level of Detail, & Resources Needed for Licensee Submittals & Staff Review***

RG 1.200 IMPLEMENTATION PILOTS: CURRENT STATUS

- ***All Pilots Completed***
  - ***Columbia (EDG RI-AOT), Limerick (RI-TS 5B), South Texas (RI-TS 4B), San Onofre (Battery RI-AOT), Surry (10 CFR 50.69)***

- ***ASME is revising the ASME Standard (Addendum B)***

- ***Pending ASME Addendum B Issuance***
  - ***RG 1.200 (including Appendix C on External Events) to be revised and issued for public comment by mid-Summer 2005***
  - ***RG 1.200 to be formally issued for use by December 2005***

RG 1.200 IMPLEMENTATION PILOTS: COMMON OBSERVATIONS

- ***PRAs are Well Constructed and PRA Staff are Very Knowledgeable of Their Models***

- ***Documentation is Weakest Link***
  - ***Should not consider updates/upgrades completed until documentation is completed (i.e., need to keep documentation up-to-date)***

- ***Some Supporting Requirements are Ambiguous***
  - ***Being addressed in Addendum B to ASME Standard***

RG 1.200 IMPLEMENTATION PILOTS: COMMON OBSERVATIONS

- ***Definitions of Key Assumptions/Key Sources of Uncertainty Need to be Clarified***
- ***Some Industry Interpretations of Standard are Too Narrow***
- ***Peer Review Facts & Observations are Very Important***
- ***Having a Standard to Benchmark Against Results in Improving the Quality of the PRAs***

RG 1.200 IMPLEMENTATION PILOTS: NEXT STEPS

- ***Industry/NRC compile lessons learned from pilots (March – April 2005)***
- ***Hold workshop on lessons learned (May)***
- ***Provide feedback to ASME on Addendum B (May – June 2005)***
- ***Develop specific revisions to RG 1.200 and issue revised document (Summer 2005)***
- ***Issue revised final RG 1.200 (December 2005)***