

DG-1122 (and associated SRP)

***“An Approach for Determining
the Technical Adequacy of PRA
Results for Risk-Informed
Activities”***

Public Meeting

November 20, 2003

AGENDA (1pm - 4pm)

- ☐ **Introduction**
- ☐ **Discuss Purpose/Goals of Pilots**
- ☐ **Identify Scope of Pilot Applications**
- ☐ **Discuss Scope/Schedule of Reviews**
- ☐ **Discuss Coordination, Next Steps, Fee Waivers, etc.**
- ☐ **Public Comments**
- ☐ **Summary/Conclusion**

BACKGROUND

- ❑ ASME published ASME RA-S-2002 “Standard for Probabilistic Risk Assessment for Nuclear Power Plant Applications”
- ❑ Most utility PRAs peer reviewed following NEI 00-02, “PRA Peer Review Process Guidance”
- ❑ NEI provided “Self-Assessment Process” to address differences between ASME standard and NEI 00-02
- ❑ DG-1122 published for public review and comment
- ❑ SONGS peer reviewed using ASME standard
- ❑ Consensus that staff should publish the regulatory guide “for trial use” and test the guide via pilot applications

OBJECTIVES OF DG-1122

❑ Current reviews:

- ▶ Somewhat subjective in scope and level of detail
- ▶ Staff relies on previous reviews
 - IPE and RES evaluations
 - Peer reviews
 - Licensee internal quality programs
 - Prior risk-informed application reviews
- ▶ Little guidance on what to submit to answer the issue of PRA quality

❑ Objectives of DG-1122 Implementation:

- ▶ Provide staff with confidence that base PRA is adequate for the decisionmaking required by the application
- ▶ Exercise ASME standard as basis for PRA quality
- ▶ Improve focus and consistency of staff reviews
- ▶ Reduce the depth of the staff review
- ▶ Increase public confidence in the adequacy of the base PRA & the staff reviews
- ▶ Provide expectations on level of detail licensees need to include in submittals
- ▶ Gain experience in resource levels needed for quality submittals & staff review
- ▶ Provide basis for crediting prior staff reviews in future applications

PURPOSE OF PILOTS

- ❑ Provide assistance in clarifying aspects of DG-1122 and SRP 19.1; for example,
 - ▶ Interpretation of documentation needs
 - ▶ Interpretation of requirements
 - ▶ Interpretation on staff position
- ❑ Assess licensees' self-assessment approaches, findings, and resolution to ensure base PRA properly evaluated
- ❑ Provide guidance on scope and level of detail of licensee application-specific submittals and staff review
- ❑ Develop industry and NRC lessons learned and identify specific improvements to DG-1122, SRP 19.1, ASME standard, and/or NEI self-assessment guidance

SCOPE OF PILOTS

□ Industry Discussion

- ▶ What applications?
- ▶ Which licensees?
- ▶ What is the timeframe for completing self-assessments?
- ▶ When will applications be ready for submittal?

STAFF REVIEW SCOPE

- ❑ Pilots involve actual plant-specific risk-informed license applications
 - Requires finding of PRA technical adequacy to support the staff development of the applications safety evaluation
- ❑ Pilots will address the full-power, internal events Level 1 and 2 PRA, as appropriate for the application
 - Other aspects, such as external events and shutdown operations, will be reviewed by the staff consistent with current practices
 - When future standards are developed for external events and shutdown operations, it is expected that these standards will be piloted after being endorsed in a revision of DG-1122
- ❑ Pilots will involve more detailed reviews than typical applications to properly “exercise” various aspects of the guidance to gain lessons learned

PILOT SCHEDULES

- ❑ Pilots involve multiple licensees, multiple types of applications, and multiple staff reviews
 - Efficiencies needed to ensure other licensee and staff activities are not adversely affected during pilot application phase
- ❑ As much as possible, the typical application pilots should be performed in parallel
 - Efficiencies gained in staff resources, lessons learned, and in regular scheduled public meetings to status activities
- ❑ Large pilot applications (e.g., 50.69, TS 4B) will be conducted on their own schedule as it is expected that they will take much longer to review
- ❑ ACRS briefings expected during and after pilots are performed

NEXT STEPS.....

Licensees and Staff

- ❑ Both - Review DG-1122/SRP 19.1 guidance
 - ▶ Identify appropriate PRA elements that need to be specifically addressed for each application
 - ▶ Identify level of detail expected in submittals
- ❑ Licensees complete self-assessments (and delta documentation) and prepare/submit applications
- ❑ Staff make final determination on pilots and fee waiver aspects
- ❑ Meet again - before or after submittals?