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Perspective on the Proposed Level 3 PRA

Stuart Lewis

Program Manager

Risk & Safety Management

EPRI Nuclear Sector

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Outline for the Presentation

- Programmatic considerations
 - Objectives
 - Overall scope
 - Timing and schedule
- Technical scope relative to potential areas of cooperation

Programmatic Considerations: Objectives

Possible Objectives	Comments
Update NUREG-1150 to reflect <ul style="list-style-type: none">• Changes to plants• Improved plant performance• Advances in methods	Worthwhile to provide better insight into risk-informed approaches
Build on SOARCA	Level 3 PRA could provide context
Further improve PRA methods	Integration into Level 3 PRA could enhance usefulness
Pilot new or untested PRA Standards	Valuable to Staff and industry for future applications
Increase Staff experience and capability	Hands-on experience in PRA is particularly valuable

Programmatic Considerations: Overall Scope

NRC Option	Comment
1. Maintain <i>status quo</i> ; continue evolutionary development	Developments beyond current plans would have value
2. Focused research to identify gaps before Level 3 PRA	Staff judged most consistent with currently availability resources
3. Comprehensive Level 3 PRA	Worthy of further consideration <ul style="list-style-type: none">• Integrated framework required to address issues and risks• Treatment of uncertainties• Full PRA vs. issue-specific analyses forces better closure

Programmatic Considerations: Schedule

Schedule requires careful consideration

- Two years seems optimistic, even for Option 2
- Longer schedule for Option 3 seems justified
- Fukushima response further complicates scheduling
 - Resources stretched (Staff and industry)
 - Scheduling of Level 3 PRA should
 - Deliberately enhance inputs to post-Fukushima activities
 - Minimize diversion of resources

Technical Scope: Potential for Cooperation

- EPRI has relevant research activities underway
- Possibility exists for EPRI to work cooperatively on elements of Level 3 PRA
- Examples of possible areas of cooperative research
 - Treatment of uncertainty
 - Human reliability analysis
 - External hazards
 - Severe-accident analyses (relative insights from MAAP and MELCOR)
 - Spent fuel pools
 - Other modes of operation

Summary

- Level 3 PRA should be a worthwhile project
- Broader scope (Option 3) should not be discarded
- EPRI would be pleased to discuss opportunities to contribute to the technical work as plans evolve