

Industry Views on Safety Driven Research

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Role of RES at the NRC

- Develop the technical basis for regulatory decision-making
 - Evaluate new technical concerns that warrant attention
 - Develop and maintain needed tools (data, computer codes and evaluation techniques)
 - Prepare for new industry activities
- Industry understands the importance of RES
- Recommendations for enhanced efficiency

Evaluate New Technical Concerns

- Safety is paramount to the industry and NRC
- Evaluation of a new issue must consider Backfit Rule
- Tests and analyses should be prototypic and realistic
 - This practice is not always the case
 - Promoted through coordination with the industry (e.g. EPRI MOU)
- International research programs with limited applicability to U.S. facilities should be off the fee base

Develop and Maintain Needed Tools

- Not all NRC tools are needed
 - Tools should be shared when feasible
 - Top to bottom assessment of NRC tool set would be timely
 - Independence maintained through sensitivity studies and NRC specific analyses – advanced reactor approach
- Tools should not be used outside their applicability
 - Human reliability analysis technique applied ex-control room with extensive time available for action – Clinton white finding
 - Pragmatic approach used when a shared tool is not available

Prepare for New Industry Initiatives

- Industry plans to deploy new technology
- RES plays a key role in preparing for NRC review
 - RES awareness of industry plans is vital
 - Collaboration results in thorough and cost-effective research
 - Research scope should be limited to what is necessary for a regulatory decision
- Development of advanced reactor infrastructure should be a priority