

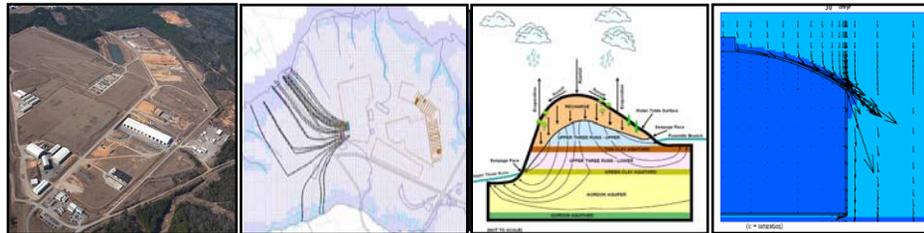
Performance Assessment Community of Practice

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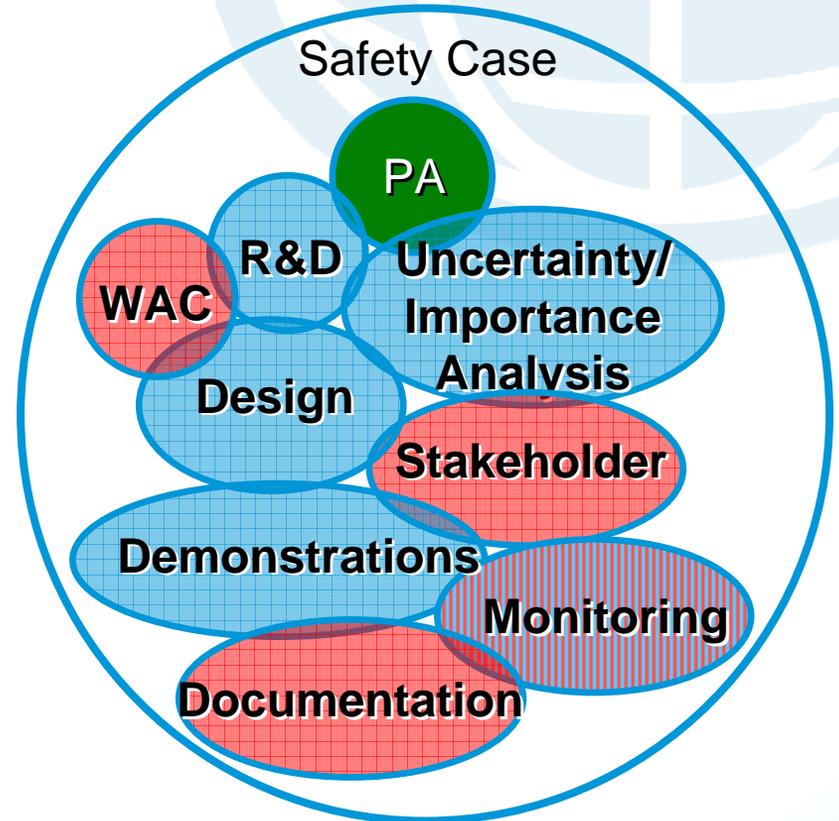
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Safety Case Concept

- IAEA, Nuclear Energy Agency and others
- Reflects use of PA as only one part of a package used to support decisions
 - *“The purpose of computing is insight, not numbers”* – Richard Hamming
- Uncertainties can be managed in many different ways in addition to modeling

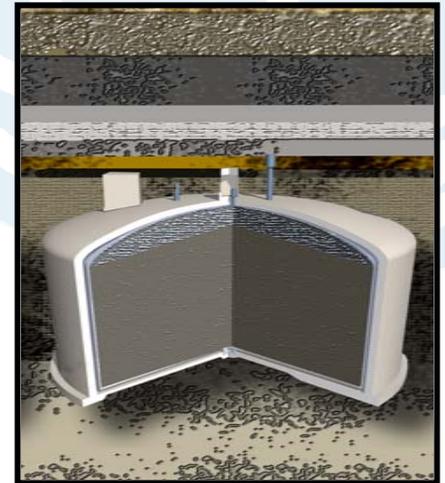


LFRG Recommendations for Improved Consistency

- **Allow Low-level Waste Disposal Facility Federal Review Group (LFRG) to refocus on original mission**
- **Address consistency early in PA process**
 - Quality cannot be inspected into a product
- **Improve communication among PA and Risk Assessment practitioners at Sites and across Complex**
- **Implement measures to improve PA consistency in DOE O 435.1 manuals and guidance**

PA Community of Practice-Related Activities

- **Technical Exchange on Modeling of Engineered Features (July 2009)**
- **Assistance for new PA work at Hanford (Tank Closure) and Idaho (Vaults)**
- **Case-by-Case support on other activities**
- **Links with Advanced Simulation Capability for Environmental Management (ASCEM) and Cementitious Barriers Project (CBP)**
- **Complex-Wide Review to support update to DOE Order 435.1**



Suggestions for Future Activities

(based on 2009 Technical Exchange discussions)

- Support for update of DOE Order 435.1
- PA Assistance Teams (Idaho and Hanford examples)
- Workshop on decision making using probabilistic results
- PA educational forum (Sr. Management and stakeholders)
- PA as a risk communication tool and role of stakeholder involvement (workshop)
- PA Information Repository
- PA CoP electronic newsletter
- Peer-reviewed topical technical reports (based on needs identified above) – need to coordinate with other initiatives

Conclusions

- **PA CoP will serve as an enduring technical vehicle for EM-30 and EM-40 to:**
 - Address consistency early and facilitate integration
 - Provide on-site technical support
 - Foster continuous technical improvement by sharing new developments in modeling and data
 - Provide an enduring data and modeling resource to minimize duplication of effort across the Complex
- **ASCEM and the CBP can benefit from participation in the PA CoP and from continuous feedback from User Community**