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GE Nuclear Energy

Introduction and Schedule – TRACG application for ESBWR

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Outline

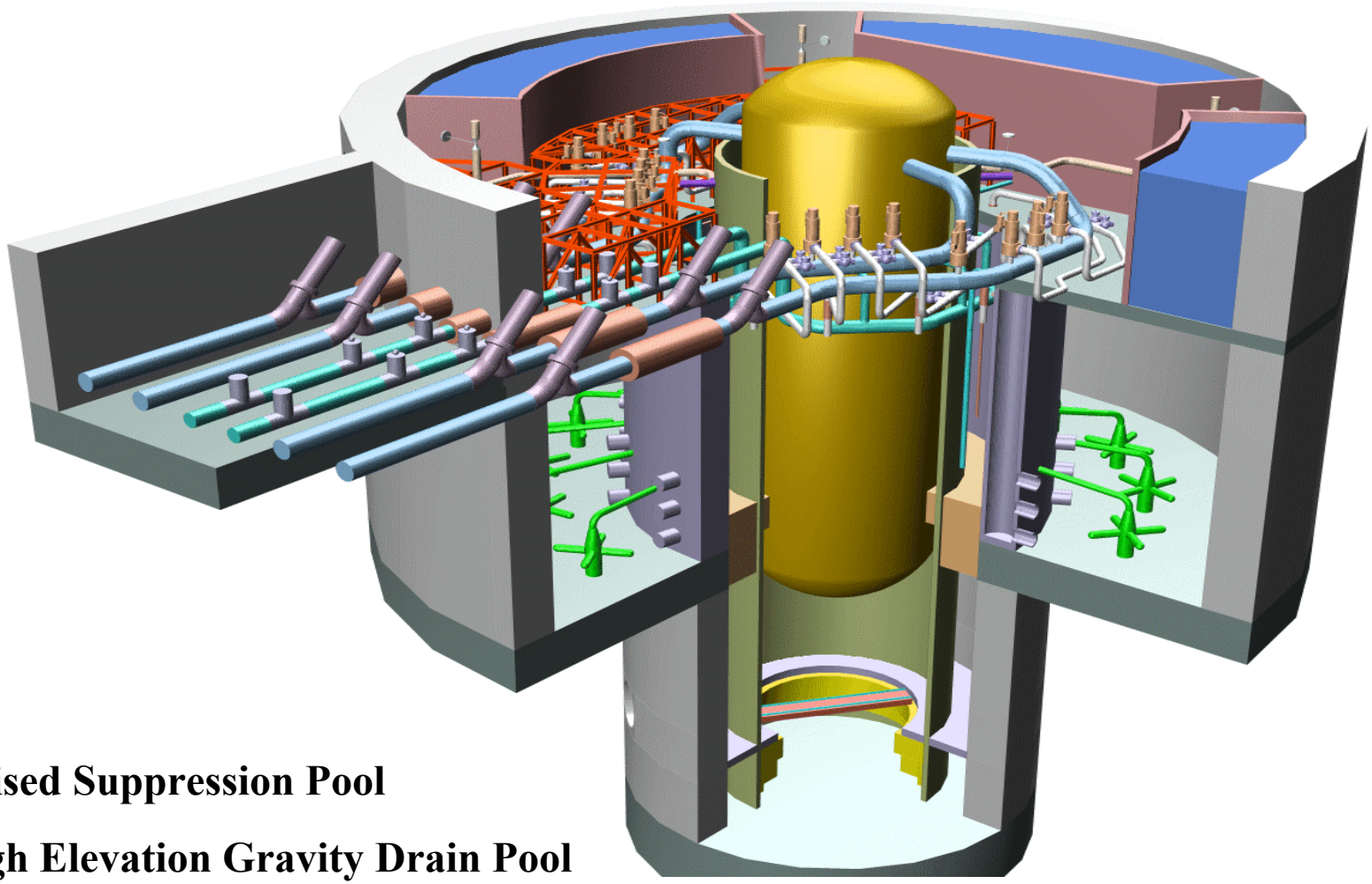
- Introduction and schedule
- Roadmap and TRACG qualification approach
- Testing overview and PCCS operation
- Responses to Questions on P series tests in PANDA
- Responses to Model Questions
- Transient application

Technology closure plan for ESBWR

- Approval of TRACG Application for LOCA
  - Based on the TAPD and its implementation
  - Based on the qualification studies
- Approval of TRACG Application for containment
  - Based on the TAPD and its implementation
  - Based on the qualification studies
- Approval of TRACG Application for AOO
  - Based on the TAPD and its implementation
  - Based on the qualification studies and operating plants
- TRACG Application for ATWS
  - Based on the TAPD and its implementation
  - Based on the qualification studies
  - Contingent on application methodology*
- ESBWR stability evaluation
  - Based on the TAPD and its implementation
  - Based on the qualification studies
  - Contingent on ODYSY/TRACG application methodology*

*Change

Safety Systems Inside Containment Envelope



- Raised Suppression Pool
- High Elevation Gravity Drain Pool
- All Pipes/Valves Inside Containment
- Decay Heat Condensers Above Drywell

ESBWR Program Summary and Conclusion

- **15+ year technology and design program**
  - a BWR with less components
- **Simplification and margins by design**
  - large vessel results in benign response
  - analysis is simplified
- **Challenges for the coming months**
  - need closure and confirmation that regulatory risk is manageable