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GE Nuclear Energy

***Introduction and Schedule
– TRACG application for ESBWR***

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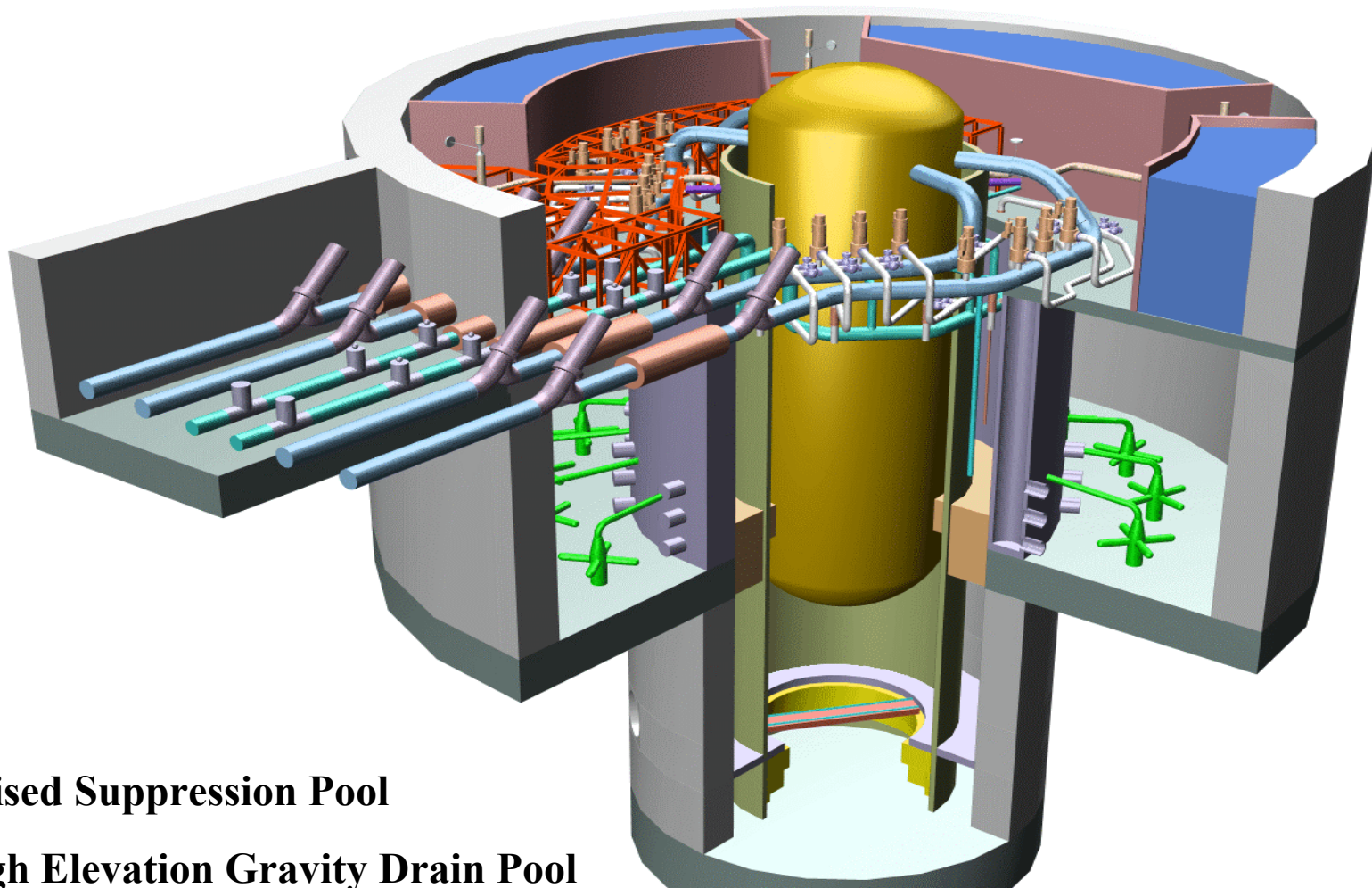
Outline

- 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