Introductions – Project Team

Constellation Energy

- Pablo Guardado, Principal PM, PEA Project Management
- Steve Flickinger, Principal Reg. Specialist, Corporate Licensing
- Steve Dragovich, Sr. Digital Design Engineer

Curtiss-Wright

- Michael Kosman, Project Manager
- Robert Ammon, Technical Director, Project Engineer

Sargent & Lundy

- Pareez Golub, Project Director, Digital Licensing SME
- Rick Paese, Digital I&C and HFE Consultant

Meeting Purpose and Agenda

- Discuss the Internal Diversity of the RadICS platform as discussed in the NRC Topical Report Safety Evaluation

- Verify that the NRC TR SE credits Internal Diversity as a means to eliminate the potential for common cause failure of the RadICS platform.

- Present the Constellation Project Team's path forward with the ECCS CLS Project

Constellation.

RadICS Platform NRC TR SE

Section 3.9 "Diversity and Defense in Depth" - "RadICS Diversity Safety Conclusion"

- Based on this evaluation, **the NRC staff determined the RadICS platform design, development and test approaches provide a [ ] of the RadICS modules**. Consistent with NUREG/CR-6303, **the NRC staff determined that licensees can use these diversity attributes in future system applications of the RadICS platform for plant-specific evaluations to determine whether platform and application logic CCFs can be eliminated from further consideration.** In the absence of comprehensive testing, elimination of CCFs from further consideration is allowed by BTP 7-19 when sufficient diversity has been demonstrated by an applicant or licensee. The NRC staff further determined the RadICS platform supports inclusion of application-specific functional diversity and signal diversity, which could be implemented to achieve an additional degree of overall system diversity beyond the diversity provided by the platform design.

- Project Team's Assumption
  - Platform Diversity – Credited by the NRC TS SE **(NRC Concurrence Requested)**
  - Application Diversity – Curtis Wrights BTP7-19 section 3.1.2 Thorough testing of every executable input and output to eliminate potential for CCF **(NRC Concurrence Not Requested in this Meeting)**
  - Elimination of potential CCF for entire System Application is met **(NRC Concurrence Not Requested in this Meeting)**

Constellation

PB ECCS CLS Project Team Path Forward

- Currently, the ECCS CLS project team is evaluating this modification under the 50.59 process.

- All required Constellation digital engineering modification processes will be followed for this modification to meet all regulatory requirements.

- At this time, no further NRC HQ resources will be needed.

Constellation.