Discussion Point Details

January 22, 2009 - Morning Session

Michael Magee started the meeting with introductions and introductory remarks including the purpose and objectives of the meeting.

The attendees began discussion of the Applicant responses to Safety Instrumentation and Control Topical Report Requests for Additional Information (RAIs). Issues discussed included the following:

1. Lack of Verification and Validation (V&V) of Engineering Tool
2. Identification of the scope of engineering tools
3. Design Acceptance Criteria (DAC) - On Application Software and Setpoints - specifically that DAC is not limited to Human System Interfaces Design and Operator V&V
4. Self Diagnostics
5. Mapping Software to Requirements
6. Design History
7. Software Safety Plan
8. Probabilistic Risk Assessment
9. Cyber Security
10. Reliability
11. V&V
12. Engineering Tool Repeatability

January 22, 2009 - Afternoon Session

The attendees began discussion of the Applicant responses to Mitsubishi Electric Total Advanced Controller Topical Report RAIs. Issues discussed included the following:

1. Submittal of information to be Docketed
2. Software Modules
3. Ring Configuration of Control Network - Interdivisional Communications
4. Marking and use of Nuclear Safety Related documents - Institute of Electrical and Electronic Engineers (IEEE) Standard (Std) 603/494
January 23, 2009 Morning Session

The attendees began discussion of the U.S. Nuclear Regulatory Commission staff’s Design Control Document Ch-7 Draft RAI’s. Issues discussed included the following:

1. Match the Requirement and Guidelines with the specific Conformance
2. Manual system-level initiation of Reactor Protection System (RPS) and Engineered Safety Feature functions
3. Conduction manual surveillance tests at power
4. Confirmation of self-diagnostics
5. Alarms/indications for equipment failures
6. Manual test interval
7. Compliance to General Design Criteria for plant systems
8. Compliance with Regulatory Guide 1.151 for Engineered Safety Feature Actuation System (ESFAS)
9. Equipment Qualification
10. System level manual actuation for ESFAS
11. Qualification for non-MELTAC equipment
12. Time to run test
13. Setpoint analysis for Emergency Operating Procedure action points
14. Alarms for credited manual actions
15. Pull-lock
16. Residual Heat Removal Motor Operated Valves
17. Qualification and software life cycle for undefined digital components
18. Application Scheduled Preventative Maintenance
19. RPS - Rate dependent trips
20. Engineering Workstation Connection
21. Schedule of Documents Audit Availability for Chapter 7