**Breakout: Analog to Digital** (90 minute)

This breakout will review the design challenges in converting analog equipment to digital. Topics will include EPRI/NEI guidance, cyber security, efficient methods to complete design changes, Regulatory issues, etc.

**Agenda:**

1. Introductions
   1. Name
   2. Station
   3. Job Function
   4. Stations Main Challenge with Analog to Digital Conversion
      1. Each topic allow for 5 min open quorum for question / comment
2. Hot Topics - Open Discussion (Each topic is allowed for 5-10 minutes)
   1. Use of IEE (Item of Equivalency Evaluation) Process for Analog to Digital or Digital to Digital (EPRI 3002007023)
   2. Configuration Control of approved Digital Replacement
      1. Control of tested part and firmware/software revisions to avoid loss of configuration later
   3. Use of maintenance specification for mass equipment conversions
   4. Life Cycle Management of Digital
      1. New PM’s such as battery replacement or screen dimming
      2. Digital Obsolescence
   5. Avoidance of Digital conversions due to overcomplicated/unfamiliarity with SQA and Cyber Security requirements.
   6. Challenges with 10 CFR 50.59 Screening or Evaluation (NEI 01-01)
   7. Group Choice Topic as time permits
3. Closing Discussion
   1. Meeting recap
   2. Encouragement of networking

**Pre-meeting Questionnaire:**

1. What is the primary / hot button issue at your station with Analog to Digital Conversions? Documents
2. Does your station utilize Item Equivalency Evaluation for Analog to Digital or Digital to Digital Conversions? Not sure
3. Has your station experienced configuration issues maintaining equipment converted to Digital (i.e. spare parts with a firmware/software version different than approved during the EC)? Not sure
4. Has your station considered Maintenance (Construction) Specifications for mass digital upgrades such as recorder or indicator upgrades? yes
5. Has your station had issues with life cycle management of installed digital devices (i.e. removed calibrations due to digital stability but lack of new PM’s for digital faults such as screen dimming)? Not sure
6. Has your station experienced avoidance of Digital conversions due to overcomplicated/unfamiliarity with SQA and Cyber Security requirements. yes
7. What challenges is your station experiencing with the 10 CFR 50.59 process for digital modifications and what mitigating actions are in place or being considered? Not sure
8. Additional topics your station would like to benchmark.