**Analog to Digital Session Pre-meeting Questionnaire:**

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| Q1 | What is the primary / hot button issue at your station with Analog to Digital Conversions? | |
|  | V.C. Summer AP1000 will be almost completely digital. As a result our design processes will need to contain digital considerations from the very beginning. While most plants will have a subsection of their equipment with these considerations, our plant it will be the norm and not the exception. | V.C. Summer |
|  | Masterpact Breakers have replaced analog breakers for all 400A-800A 480V breakers in the plant for safety related applications. Issues with spurious trips right after breaker closure. Issue with the micrologic trip. | Hope Creek |
|  | Documents. | Vogtle/Summer |
| Q2 | Does your station utilize Item Equivalency Evaluation for Analog to Digital or Digital to Digital Conversions? | |
|  | Our station will be focusing our equivalency evaluations mainly to the function of the component. If the digital component serves the same committed functions as the previous component we will replace it using the equivalency process. | V.C. Summer |
|  | No. Always the Equivalent Change Process/ Design Change Process. | Hope Creek |
|  | Not sure. | Vogtle/Summer |
| Q3 | 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 yet… V.C. Summer has not taken design authority from WEC yet. We are working to set up a cyber program for the plant for both maintenance and design processes. | V.C. Summer |
|  | DTSQA log not up to date. Critical Software not returned to records by vendors. | Hope Creek |
|  | Not sure. | Vogtle/Summer |
| Q4 | Has your station considered Maintenance (Construction) Specifications for mass digital upgrades such as recorder or indicator upgrades? | |
|  | No. | V.C. Summer |
|  | No. | Hope Creek |
|  | Yes. | Vogtle/Summer |
| Q5 | 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 enough run time yet. | V.C. Summer |
|  | No, PMs for new recorders/indicators consider digital faults. | Hope Creek |
|  | Not sure. | Vogtle/Summer |
| Q6 | Has your station experienced avoidance of Digital conversions due to overcomplicated/unfamiliarity with SQA and Cyber Security requirements? | |
|  | Cyber security is going to be an extremely difficult program for our station. The requirements will have to be met with virtually every design, maintenance, and operations evolution. | V.C. Summer |
|  | No, avoidance of digital conversions is due to NRC ISG-06 NEI 01-01 making it difficult to use digital equipment in safety related applications. Station SQA and Cyber Security knowledge is adequate. | Hope Creek |
|  | Yes. | Vogtle/Summer |
| Q7 | 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? | |
|  | None so far. The licensing basis is based on the plant being largely digital. | V.C. Summer |
|  | Industry wide need to be more aligned on how we use the 50.59 for digital modifications and how single point vulnerability is addressed. | Hope Creek |
|  | Not sure. | Vogtle/Summer |
| Q8 | Additional topics your station would like to benchmark. | |
|  | * 1. Do any utilities have any special design processes specifically for digital modifications?   2. Do any utilities have any special screens or forms for digital modifications?   3. Are there any special CM considerations for digital components that aren’t used for other components? | V.C. Summer |
|  | Benchmark how other countries outside US are doing digital upgrades, and what the regulatory climate is like in those countries and how it might better facilitate digital upgrades. | Hope Creek |
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