



NRC Digital I&C IAP MP3 Industry Oversight of SIL Process

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- Topics to be covered
 - EPRI Research on SIL Certification Process
 - Industry Oversight of Consistent Application of the SIL Certification Process

EPRI Research on SIL Certification Process



- Will describe the SIL certification process
- Will quantify the efficacy of the SIL certification process
- Will provide sufficient information for the NRC to evaluate the equivalence of this process with a commercial grade survey for EPRI TR 106439 dependability critical characteristics

Industry Oversight of SIL Certification Process



- NEI 17-06, Section 5 provides a plan for industry to oversee the SIL certification process for effectiveness and consistency in application
 - NEI will monitor any proposed changes to IEC 61508 against the EPRI TR 106439 dependability critical characteristics
 - NEI will communicate any adverse changes to be fixed in IEC 61508 to the IEC before the revision is published
 - If unsuccessful then NEI will inform the NRC and communicate a set of compensating measures to resolve the condition

Industry Oversight of SIL Certification Process



- NEI 17-06, Section 5 plan (continued)
 - NUPIC will observe the accrediting bodies for SIL certification application consistency
 - Initially on a 3 year interval
 - Consistent with the guidance in NRC Regulatory Guides 1.28 and 1.144 for auditing 10 CFR 50 Appendix B suppliers
 - Possibly reduce the frequency if it is observed that the process is demonstrably consistent
 - NRC may request to participate in observations

Summary



- From the EPRI research NRC evaluates the equivalence of the SIL certification process to a commercial grade survey per EPRI TR 106439
- NEI monitors IEC 61508 for any adverse changes
- NUPIC observes the efficacy and consistency of the SIL certification process

QUESTIONS?

