

MP3 NEI 17-06 Status

August 21, 2019



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NEI 17-06 Rev A Summary of Changes

Section	Changes
1 Introduction	Editorial changes
2 Safety Integrity Level (SIL)	New content
3 EPRI Research of the SIL Certification Process	Not yet completed
4 Acceptance of Commercial Grade Digital Equipment for Safety Applications Certified to a Particular SIL	Not yet completed
5 Supplier's Quality Assurance Program	New content
6 US Nuclear Industry Oversight of the SIL Certification Process	Editorial changes
APPENDIX A – Quality Assurance Program Template	Not yet completed



MP3 Utilization of the EPRI Report on SIL Certification

- The technical and QA requirements involved with SIL certification are very similar to that of nuclear grade equipment.
- Certification Bodies have a standardized and rigorous evaluation process.



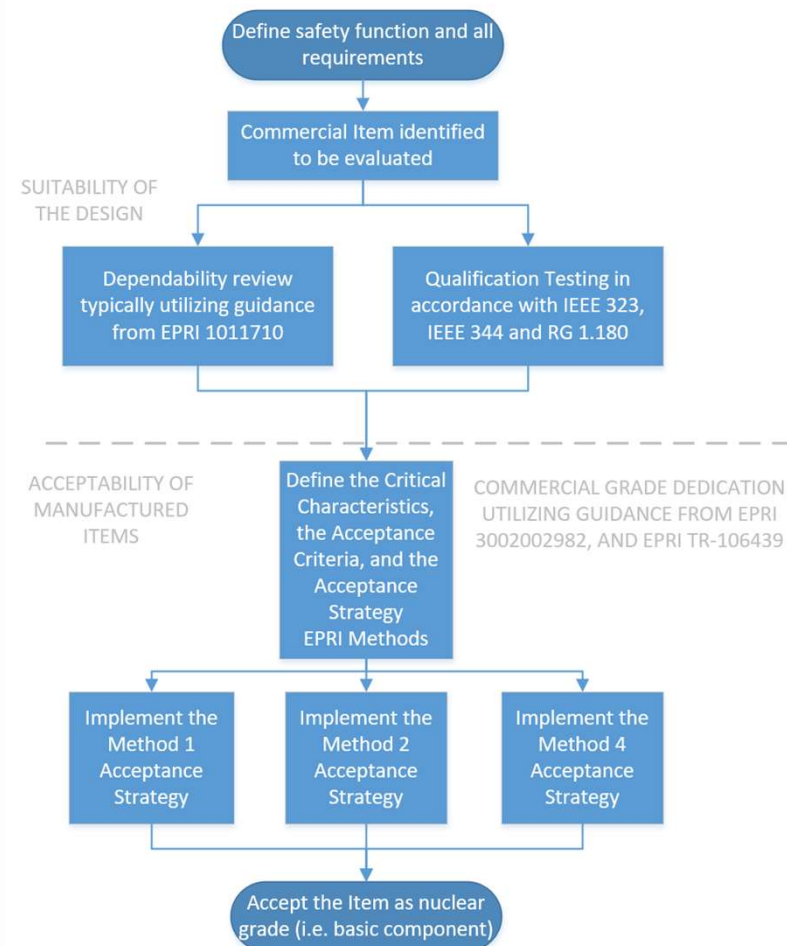
MP3 Utilization of the EPRI Report on SIL Certification

- Accreditation Bodies hold CBs accountable and maintain an internationally consistent set of expectations.
- The analysis of field failure data supports the conclusions of reliable operation of certified equipment.

Implementation

SIL certification replaces the need for:

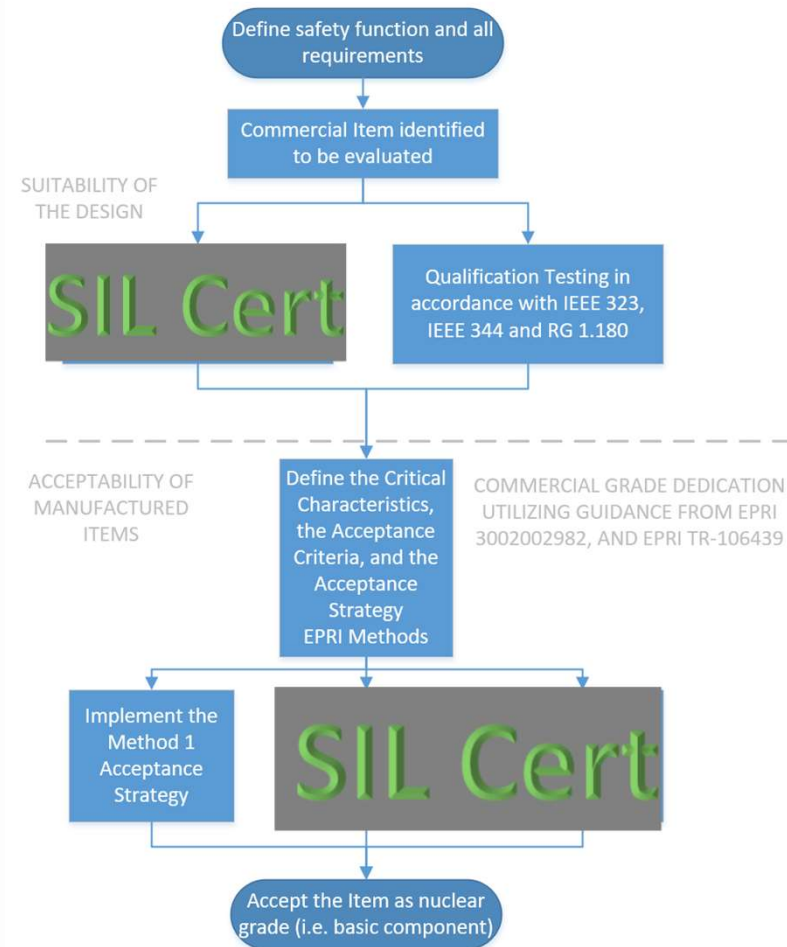
- Commercial Grade Surveys
- Operating History
- Dependability reviews (e.g. critical digital reviews [CDR])



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- Commercial Grade Surveys
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NEI 17-06 Schedule for Completion

Task	Due Date
12. NEI submits NEI 17-06 for NRC Review	
12.a NEI submits NEI 17-06 Rev B for NRC Review (Rev B will include draft of Sections 3 and 4)	9/30/2019
12.b MP3 Public Meeting to discuss Sections 3 and 4 of NEI 17-06 Rev B	End of October 2019
12.c NEI submits NEI 17-06 Rev 0 for NRC Review	~1 month after public mtg
13. NRC makes decision on technical adequacy of NEI 17-06	TBD
14. NUPIC Observation of SIL Accrediting Body with NRC staff participation	NEI is working with AB's to schedule
15. NRC formally enters NEI 17-06 into the Regulatory Guide development process (if decision is made to endorse)	TBD