Ravi Subramaniam
Technical Director
IEEE-SA
r.subramaniam@ieee.org
732.465.6421

Biography

Ravi Subramaniam is currently serving in the role of Technical Director, IEEE-SA Conformity Assessment Program. In this role Ravi works closely with working groups on post standards implementation which encompasses test plan development and interoperability. Currently he is focused on developing programs in nuclear, telecommunications, power & energy, imaging and sensor technologies. He is the secretary for the IEEE Nuclear Power Engineering Committee (NPEC) Conformity Assessment Steering Committee.
Prior to taking on this role, Ravi has served in various technology management roles across the globe. He has previously worked for MET Laboratories, Inc., Honeywell and Ericsson. Ravi studied Electrical Engineering at Arizona State University and Johns Hopkins University.

Abstract – Update on IEEE Nuclear EQ Certification Program

The IEEE Standards Association and the IEEE Nuclear Power Engineering Committee (NPEC) formed the NPEC Conformity Assessment Steering Group (NPEC CASC) in the fall of 2014.

The NPEC CASC boasts an outstanding constituency of members in the domain of nuclear power technology who share a common vision to accelerate IEEE standards adoption through conformity assessment and certification programs. Participants in NPEC CASC include representatives from device manufacturers, test laboratories and the end-user community.

IEEE Conformity Assessment Program (ICAP) creates and implements initiatives that drive and accelerate certification programs throughout industry addressing a broad range of technologies. ICAP, along with the NPEC CASC, is looking into development of a conformity assessment program to support the IEEE 323 and other related standards. This paper will provide readers with an in depth look at the current state of equipment qualification in the nuclear industry with examples seen in China, Korea, etc. It will also present the benefits of a comprehensive certification programs and the benefits it can provide. It will provide a varied perspectives ranging from a utility, plant owner, manufacturer, test labs to regulators.

The following are considered key activities of the NPEC CASC:

· Converge on program structure for the certification of Class 1E devices
· Determine compliance levels
· Act as advisors on test methods and interpretation of standards
· Test Lab requirements and audit processes
· Test Tool Validation· Determine and stimulate demand drivers
· Validate Test Plan/Report template