TECHNICAL MEETING UPDATE

The IEEE continues work on standards for nuclear facilities. These meeting are an opportunity for utility, engineering companies and manufacturers to understand issues with various products used in existing and new plants.

In early May, two IEEE technical meetings were held in Tucson, AZ. A report on each meeting is below.

IEEE PES/NPEC/SC2

The Nuclear Power Engineering Committee (NPEC)'s Subcommittee SC-2 – Qualification met from April 29 to May 2 in Tucson. The subcommittee treats of all matters relating to the qualifications of safety-related systems and equipment in nuclear facilities.

With respect to cables and connections, two working groups were active:

- IEEE 572 (WG 2.11) Standard for Qualification of Class 1E Connection Assemblies for Nuclear Power Generating Stations. This working group completed the revision of the standard, and it is expected to the document to be released for voting later this year after approval from NPEC.
- Working Group (WG 2.15) IEEE 1682, Standard for Qualifying Fiber Optic Cables, Connections, and Optical Fiber Splices for Use in Safety Systems of Nuclear Power Generating Plants completed work on the white paper. The paper is intended to provide more information on the current standard and suggests topics that might be included in the next revision.

  The group also approved the wording of a new Project Authorization Request so that official work can begin on the next revision. Pending approval from the IEEE, this work will commence early in 2019, with completion of the revision by 2021.

If you would like to a member of the working group, please contact me.

The next meeting of SC-2 will be in November is Clearwater Beach, FL.

IEEE PAS/ICC

Insulated Conductors Committee (ICC), in early May, also in Tucson. The Insulated Conductors Committee (ICC) is responsible for establishing good practices and standards for cables used in all types of power systems.

The ICC has long been involved in developing standards for nuclear power plant cables. The most well know is IEEE 383, which was first published in 1974. The standard was last revised in 2015.

Current projects with implications for nuclear plants include working groups on Cable Life Extension, Station Cable Installation, Cable Penetration Fire Testing, Fiber Optic Cable Installation (chaired by CableLAN's Larry Cunningham), Evaluation of Cables for Class 1E Circuits and others that are applicable to nuclear facilities.

The group is also responsible for IEEE 1202. While IEEE 1202 is not a nuclear power plant standard, it is referenced in both IEEE 383 and IEEE 1682). There is work concerning repeatability of tests from laboratory to laboratory, to achieve better consistency. It is unclear whether this will result in significant changes to the current version.

For more information, please visit the ICC website.