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October 15, 2019

Ms. Louise Lund
Director of the Division of Engineering,
Office of Nuclear Regulatory Research
NRC Standards Executive
United States Nuclear Regulatory Commission
MS T10A36
11555 Rockville Pike
Rockville, MD 20852

Dear Ms. Lund,

At a recent meeting of the IEEE Nuclear Power Engineering Committee (NPEC) members who work at the US NRC requested that NPEC provide the NRC with a list of IEEE nuclear standards for which NPEC requests NRC give priority for endorsement. After getting input from all of the NPEC subcommittees, we request NRC to consider the following recently revised IEEE standards in light of the evolving industry needs, as a priority for endorsement:

IEEE Std 60780-323-2016 “IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations” due to the treatment reassessing qualified life of electrical equipment in support of plant life extension and its harmonization of IEEE and IEC qualification practices as a joint logo standard.

IEEE Std 60980-344-2013 “IEEE Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations” due to the expansion and clarification of guidance for developing programs to qualify Seismic Category I equipment.

IEEE Std 1819-2016 “Standard for Risk-Informed Categorization and Treatment of Electrical Equipment in Nuclear Facilities” due to the increased emphasis on risk-informed categorization within the NRC.

IEEE Std 741-2017 “IEEE Standard Criteria for the Protection of Class 1E Power Systems and Equipment in Nuclear Power Generating Stations” due to industry-wide regulatory issues with degraded voltage relay setpoints and analysis.

IEEE Std 387-2017 “IEEE Standard Criteria for Diesel-Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations” due to additional details being provided for criteria in the areas of qualification, no-load and light-load operation, testing and surveillance.

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IEEE Std 1786-2011 “Human Factors Guide for Application of Computerized Operating Procedure Systems at Nuclear Power Generating Stations and Other Nuclear Facilities” due to the incorporation of computerized procedures in main control room designs (for both new plants and those modernizing their control rooms) and NRC’s current reliance on interim staff guidance for reviews concerning these systems.

IEEE Std 7-4.3.2-2016 “Standard Criteria for Programmable Digital Devices in Safety Systems for Nuclear Power Generating Stations” due to addition of unique requirements for programmable digital devices that are not computers, addition of more specific criteria on the use of software tools and addition of criteria for secure development environments.

IEEE Std 379-2014 “IEEE Standard Application of the Single-Failure Criterion to Nuclear Power Generating Station Safety Systems” due to clarifications of design basis events and the involvement of single failures and clarification of common-cause failures and to clearly state that they are not considered in a single failure analysis.

Thank you for your consideration in endorsing these standards. If you need any further information, please feel free to contact me.

Sincerely,



Daryl Harmon
NPEC Chair