Standards Committee

555 North Kensington Avenue
La Grange Park, Illinois
60526-5592 USA

Tel: +1 708 579 8269
Fax: +1 708 352 6464
Email: standards@ans.org
www.ans.org

March 25, 2011

Mr. Michael J. Case, Standards Executive
U.S. Nuclear Regulatory Commission
M/S 10M5
Washington, DC 20555-0001

Subject: Letter of notification of ANSI approved standards for NRC review and potential endorsement

Dear Mr. Case:

The American Nuclear Society (ANS), a standards development organization under the auspices of the American National Standards Institute (ANSI), is pleased to provide you with electronic copies of ANS standards that have been recently approved or reaffirmed by ANSI. We request that these standards be reviewed by NRC staff and considered for endorsement to facilitate use in the regulatory process. Accordingly, please feel free to distribute the electronic copy to your staff as necessary. Recently approved standards include the following:

ANSI/ANS-2.17-2010, "Evaluation of Subsurface Radionuclide Transport at Commercial Nuclear Power Plants," received ANSI approval as a new American National Standard on December 23, 2010. This standard establishes the requirements for evaluating the occurrence and movement of radionuclides in the subsurface resulting from abnormal radionuclide releases at commercial nuclear power plants. This standard applies to abnormal radionuclide releases that affect groundwater, water supplies derived from groundwater, and surface waters affected by subsurface transport, including exposure pathways across the groundwater-surface water transition zone. This standard supersedes historical standard ANSI/ANS-2.17-1980.

ANSI/ANS-3.11-2005 (R2010), "Determining Meteorological Information at Nuclear Facilities," received ANSI approval for a reaffirmation on December 23, 2010. This standard provides criteria for gathering and assembling meteorological information at commercial nuclear electric generating stations, U.S. Department of Energy/National Nuclear Security Administration nuclear facilities, and other national or international nuclear facilities. Meteorological data collected, stored, and displayed through implementation of this standard are utilized to support the siting, operation, and decommissioning of nuclear facilities. The meteorological data are employed in determining environmental impacts, consequence assessments supporting routine release and design-basis accident evaluations, emergency preparedness programs, and other applications.

ANSI/ANS-8.6-1983 (R2010), "Safety in Conducting Subcritical Neutron-Multiplication Measurements in Situ," received ANSI approval for a reaffirmation of this standard on November 16, 2010. This standard provides safety guidance for conducting subcritical

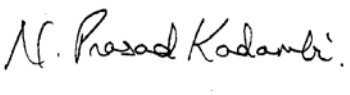
neutron-multiplication measurements where physical protection of personnel against the consequences of a criticality accident is not provided. The objectives of in situ measurements are either to confirm an adequate safety margin or to improve an estimate of such a margin. The first objective may constitute a test of the criticality safety of a design that is based on calculations. The second may effect improved operating conditions by reducing the uncertainty of safety margins and providing guidance to new designs.

ANSI/ANS-8.12-1987 (R2011), "Nuclear Criticality Control and Safety of Plutonium-Uranium Fuel Mixtures Outside Reactors," received ANSI approval for a reaffirmation on February 11, 2011. This standard is applicable to operations with plutonium-uranium oxide fuel mixtures outside nuclear reactors, except the assembly of these materials under controlled conditions, such as critical experiments. Basic criteria are presented for plutonium-uranium fuel mixtures in single units of simple shape containing no more than 30 wt% plutonium combined with uranium containing no more than 0.71 wt% 235U. This reaffirmation was processed to maintain the current standard while a revision is being completed.

ANSI/ANS-19.6.1-2011, "Reload Startup Physics Tests for Pressurized Water Reactors," a revision of ANSI/ANS-19.6.1-2005, was approved by ANSI on January 13, 2011. This standard applies to the reactor physics tests that are performed following a refueling or other core alteration of a Pressurized Water Reactor (PWR) for which nuclear design calculations are required. This standard does not address the physics test program for the initial core of a commercial PWR.

If you have any questions or would like hard copies of these standards, feel free to contact me or Ms. Pat Schroeder, ANS Standards Administrator, by telephone at 708-579-8269 or by e-mail at pschroeder@ans.org.

Sincerely,



N. Prasad Kadambi, Ph.D.
ANS Standards Board Chair
praskadambi@verizon.net

Enclosures

Cc: Donald J. Spellman, ANS Standards Board Vice Chair
ANS Consensus Committee Chairs
Thomas Marenchin, N16 NRC Representative
Patrick Madden, N17 NRC Representative
Alexander Adams, N17 NRC Alternate
C. E. (Gene) Carpenter, NFSC NRC Representative
Amy Hull, NFSC NRC Alternate
Mary Beth Gardner, Publisher, ANS Scientific Publications