

NRC REGULATORY GUIDES REFERENCING AMERICAN NATIONAL STANDARDS INSTITUTE/AMERICAN NUCLEAR SOCIETY STANDARDS

STANDARD	LEAD U.S. NUCLEAR REGULATORY COMMISSION (NRC) OFFICE	STATUS OF REGULATORY GUIDE (RG) ENDORSEMENT
<p>American National Standards Institute (ANSI)/American Nuclear Society (ANS) 2.3-2011, "Estimating Tornado, Hurricane, and Extreme Straight Line Wind Characteristics at Nuclear Facility Sites," issued 2011</p>	<p>Office of New Reactors (NRO)/Division of Site and Environmental Reviews/Siting and Accident Consequences Branch</p>	<p>RG 1.76, "Design-Basis Tornado and Tornado Missiles for Nuclear Power Plants." The NRC revised and published RG 1.76 in March 2007. RG 1.76 does not endorse ANSI/ANS 2.3-2011 because ANSI/ANS 2.3-1983, "Standard for Estimating Tornado and Extreme Wind Characteristics at Nuclear Power Sites," issued 1981, was withdrawn in 1993; no current or active version was available when the NRC revised RG 1.76. The staff will review RG 1.76 in 2012 to decide whether the current version is acceptable or whether the NRC should revise it to endorse ANSI/ANS 2.3-2011.</p> <p>RG 1.221, "Design-Basis Hurricane and Hurricane Missiles for Nuclear Power Plants." The NRC will issue RG 1.221 in 2011. The agency issued Draft Regulatory Guide (DG)-1247 for public comment in September 2010 before ANSI/ANS 2.3-2011 was published. Therefore, RG 1.221 will not endorse ANSI/ANS 2.3. The staff will review RG 1.221 in 2016 to decide whether the current version is acceptable or whether the NRC should revise it and endorse ANSI/ANS 2.3-2011</p>

ANSI/ANS 5.4-2011, "Method for Calculating the Fractional Release of Volatile Fission Products from Oxide Fuel," issued 2011	Office of Nuclear Reactor Regulation(NRR)/Division of Safety Systems/Nuclear Performance and Code Review Branch	RG 1.183, "Alternative Radiological Source Terms for Evaluating Design-Basis Accidents at Nuclear Power Reactors." The NRC last revised RG 1.183 in July 2000. The NRC is currently revising RG 1.183 using ANSI/ANS 5.4-2011 and will publish the guide in 2011.
ANSI/ANS 8.21-1995, "Use of Fixed Neutron Absorbers in Nuclear Facilities outside Reactors," issued 1995 and reaffirmed 2001	Office of Nuclear Material Safety and Safeguards (NMSS)/Division of Spent Fuel Storage and Transportation/Technical Review Directorate/Criticality, Shielding and Dose Assessment Branch	RG 3.71, "Nuclear Criticality Safety Standards for Fuels and Material Facilities." The NRC revised and published RG 3.71 in January 2011. RG 3.71 endorses all criticality-related ANS standards, including ANSI/ANS 8.21-1995 (reaffirmed 2001). The staff will review RG 3.71 in 2016 to decide whether the current version is acceptable or whether the NRC should revise it to endorse ANSI/ANS 8.21-1995 (reaffirmed 2011).
ANSI/ANS 58.14-2011, "Safety and Pressure Integrity Classification Criteria for Light-Water Reactors," issued 2011	NRO/Division of Engineering/Engineering Mechanics Branch 2	<p>RG 1.26, "Quality Group Classifications and Standards for Water-, Steam-, and Radioactive-Waste-Containing Components of Nuclear Power Plants." The NRC published Revision 4 to RG 1.26 in March 2007. RG 1.26 does not endorse ANSI/ANS 58.14-2011 because the guidance includes details in areas in which the staff does not provide guidance. The staff will review RG 1.26 in 2013 to decide whether the current version is acceptable or whether the NRC should revise it.</p> <p>RG 1.29, "Seismic Design Classification." The NRC published Revision 4 to RG 1.29 in March 2007. RG 1.29 does not endorse ANSI/ANS 58.14-2011 because the guidance includes details in areas in which the staff does not provide guidance. The staff will review RG 1.29 in 2013 to decide whether the current version is acceptable or whether the NRC should revise it.</p>
ANSI/ANS-2.17-2010, "Evaluation of Subsurface Radionuclide Transport at Commercial Nuclear Power Plants," issued 2010	NRR/Division of Inspection and Regional Support/Health Physics and Human Performance Branch	RG 1.21, "Measuring, Evaluating, and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste", and RG 4.1 "Radiological Environmental Monitoring for Nuclear Power Plants", are referencing ANS 2.17, and were last updated in June 2009. The staff

		is planning to review the new standard and determine if there is a need to revise RG 1.21 and RG 4.1, prior to 2014, and reference ANSI/ANS-2.17-2010.
ANSI/ANS-3.11-2005 (R2010), “Determining Meteorological Information at Nuclear Facilities,” issued 2005 and reaffirmed 2010	NRO/Division of Site and Environmental Reviews/Sitting and Accident Consequences Branch	RG 1.23, “Onsite Meteorological Programs”, was revised in 2007 and references, in part, ANS-3.11. There staff is planning to review this RG again in 2012 and determine if it should be revised to reference ANS-3.11 (R2010).
ANSI/ANS-8.6-1983 (R2010), “Safety in Conducting Subcritical Neutron-Multiplication Measurements in Situ,” issued 1983 and reaffirmed 2010	NMSS/Division of Fuel Cycle Safety and Safeguard/Special Projects and Technical Support Directorate/Technical Support Branch	RG 3.71, “Nuclear Criticality Safety Standards for Fuels and Material Facilities.” The NRC revised and published RG 3.71 in January 2011. RG 3.71 endorses all criticality-related ANS standards, including ANSI/ANS 8.6-1983 (reaffirmed 2010).
ANSI/ANS-8.12-1987 (R2011), “Nuclear Criticality Control and Safety of Plutonium-Uranium Fuel Mixtures Outside Reactors,” issued 1987 and reaffirmed 2011	NMSS/Division of Fuel Cycle Safety and Safeguard/Special Projects and Technical Support Directorate/Technical Support Branch	RG 3.71, “Nuclear Criticality Safety Standards for Fuels and Material Facilities.” The NRC revised and published RG 3.71 in January 2011. RG 3.71 endorses all criticality-related ANS standards, including ANSI/ANS 8.12-1987 (reaffirmed 2002). The staff will review RG 3.71 in 2016 to decide whether the current version is acceptable or whether the NRC should revise it to endorse ANSI/ANS 8.12-1987 (reaffirmed 2011).