American Nuclear Society (ANS)

What's New . . .

Approval of Proposed Standards Projects (new or revised)

Before work on a draft standard can begin, a **P**roject **I**nitiation **N**otification **S**ystem (PINS) form must be approved and submitted to the American National Standards Institute (ANSI). The following projects have completed a PINS form to approve the initiation of a new or revised draft standard:

ANS-2.32-201x, "Guidance on the Selection and Evaluation of Remediation Methods for Subsurface Contamination" (new standard)

ANS-3.13-201x, "Nuclear Plant Reliability Assurance Program (RAP) Development Guidance for Design Construction and Operation"

ANS-3.14-201x, "Process for Aging Management and Life Extension of Non-Reactor Nuclear Facilities" (new standard)

ANS-8.22-201x, "Nuclear Criticality Safety Based on Limiting and Controlling Moderators" (revision of ANSI/ANS-8.22-1997; R2006)

ANS-8.26-201x, "Criticality Safety Engineer Training and Qualification Program" (revision of ANSI/ANS-8.26-2007)

ANS-8.27-201x, "Burnup Credit for LWR Fuel" (revision of ANSI/ANS-8.27-2008)

ANS-15.16-201x, "Emergency Planning for Research Reactors" (revision of ANSI/ANS-15.16-2008)

ANS-20.1-201x, "Nuclear Safety Criteria and Design Criteria for Fluoride Salt-Cooled High-Temperature Reactor Nuclear Power Plants"

Drafts in Development

The following projects have approved PINS forms and are in development:

ANS-2.2-201x, "Earthquake Instrumentation Criteria for Nuclear Power Plants" (revision of ANSI/ANS-2.2-2002)

ANS-2.8-201x, "Determine External Flood Hazards for Nuclear Facilities" (revision of withdrawn standard ANSI/ANS-2.8-1992)

ANS-2.9-201x, "Evaluation of Ground Water Supply for Nuclear Facilities" (revision of withdrawn standard ANSI/ANS-2.9-1980; R1989)

ANS-2.16-201x, "Criteria for Modeling Design-Basis Accidental Releases from Nuclear Facilities" (new standard)

ANS-2.30-201x, "Assessing Capability for Surface Faulting at Nuclear Facilities" (new standard)

ANS-2.31-201x, "Standard for Estimating Extreme Precipitation at Nuclear Facility Sites" (new standard)

ANS-3.1-201x, "Selection, Qualification, and Training of Personnel for Nuclear Power Plants" (revision of withdrawn standard ANSI/ANS-3.1-1993; R1999)

ANS-3.5-201x, “Nuclear Power Plant Simulators for Use in Operator Training and Examination” (revision of ANSI/ANS-3.5-2009)

ANS-3.8.1-201x, “Properties of Radiological Emergency Response Functions and Organizations for Nuclear Facilities” (revision of withdrawn standard ANSI/ANS-3.8.1-1995)

ANS-3.8.2-201x, “Properties of Functional and Physical Characteristics of Radiological Emergency Response Facilities at Nuclear Facilities” (revision of withdrawn standard ANSI/ANS-3.8.2-1995)

ANS-3.8.3-201x, “Properties of Radiological Emergency Response Plans and Implementing Procedures and Maintaining Emergency Response Capability for Nuclear Facilities” (revision and consolidation of withdrawn standards ANSI/ANS-3.8.3-1995 and ANSI/ANS-3.8.4-1995)

ANS-3.8.6-201x, “Properties of the Conduct of Offsite Radiological Assessment for Emergency Response and Emergency Radiological Field Monitoring, Sampling and Analysis for Nuclear Facilities” (revision and consolidation of withdrawn standards ANSI/ANS-3.8.5-1992 and ANSI/ANS-3.8.6-1995)

ANS-3.8.7-201x, “Properties of Planning, Development, Conduct, and Evaluation of Drills and Exercises for Emergency Preparedness at Nuclear Facilities” (revision of withdrawn standard ANSI/ANS-3.8.7-1998)

ANS-3.8.10-201x, “Criteria for Modeling Real-Time Accidental Releases at Nuclear Facilities” (new standard)

ANS-3.11-201x, “Determining Meteorological Data for Nuclear Facilities” (revision of ANSI/ANS-3.11-2005; R2010)

ANS-5.1-201x, “Decay Heat Power in Light Water Reactors” (revision of ANSI/ANS-5.1-2005)

ANS-6.4.2-201x, “Specification for Radiation Shielding Materials for Nuclear Facilities” (revision of ANSI/ANS-6.4.2-2006)

ANS-6.4.3-201x, “Gamma-Ray Attenuation Coefficients & Buildup Factors for Engineering Materials” (revision of withdrawn standard ANSI/ANS-6.4.3-1991)

ANS-8.3-201x, “Criticality Accident Alarm System” (revision of ANSI/ANS-8.3-1997; R2003)

ANS-8.10-201x, “Criteria for Nuclear Criticality Safety Controls in Operations with Shielding and Confinement” (revision of ANSI/ANS-8.10-1983; R2005)

ANS-8.12-201x, “Nuclear Criticality Control and Safety of Plutonium-Uranium Fuel Mixtures Outside Reactors” (revision of ANSI/ANS-8.12-1987; R1993; R2002)

ANS-8.15-201x, “Nuclear Criticality Control of Special Actinide Elements” (revision of ANSI/ANS-8.15-1981; R2005)

ANS-8.20-201x, “Nuclear Criticality Safety Training for Fissionable Materials Operations Outside Reactors” (revision of ANSI/ANS-8.20-1991; R1999; R2005)

ANS-8.21-201x, “Use of Fixed Neutron Absorbers in Nuclear Facilities Outside Reactors” (revision and consolidation of ANSI/ANS-8.21-1995; R2001 and ANSI/ANS-8.5-1996; R2002; R2007)

ANS-8.28-201x, “Administrative Practices for the Use of Non-Destructive Assay Measurements for Nuclear Criticality Safety” (new standard)

ANS-10.8-201x, “Non-Real Time, High-Integrity Software for the Nuclear Industry – User Requirements” (new standard)

ANS-15.2-201x, “Quality Control for Plate-Type Uranium-Aluminum Fuel Elements” (revision of ANSI/ANS-15.2-1999; R2009)

ANS-15.4-201x, “Selection and Training of Personnel for Research Reactors” (revision of ANSI/ANS-15.4-2007)

ANS-15.8-201x, “Quality Assurance Program Requirements for Research Reactors” (revision of ANSI/ANS-15.8-1995; R2005)

ANS-18.1-201x, “Radioactive Source Term for Normal Operation of Light Water Reactors” (revision of withdrawn standard ANSI/ANS-18.1-1999)

ANS-19.1-201x, “Nuclear Data Sets for Reactor Design Calculations” (revision of ANSI/ANS-19.1-2002)

ANS-19.5-201x, “Requirements for Reference Reactor Physics Measurements” (revision of withdrawn standard ANSI/ANS-19.5-1995)

ANS-19.9-201x, “Delayed Neutron Parameters for Light Water Reactors” (new standard)

ANS-19.11-201x, “Calculation and Measurement of the Moderator Temperature Coefficient of Reactivity for Water Moderated Power Reactors” (revision of ANSI/ANS-19.11-1997; R2002)

ANS-19.12-201x, “Nuclear Data for Isotope Production Calculations for Medical and Other Applications” (new standard)

ANS-50.1-201x, “Nuclear Safety Criteria for the Design of Stationary Light Water Reactor Plants” (new standard)

ANS-51.10-201x, “Auxiliary Feedwater System for Pressurized Water Reactors” (revision of ANSI/ANS-51.10-1991; R2008)

ANS-54.1-201x, “Nuclear Safety Criteria and Design Process for Liquid-Metal-Cooled Nuclear Power Plants” (revision of withdrawn standard ANSI/ANS-54.1-1989)

ANS-56.8-201x, “Containment System Leakage Testing Requirements” (revision of ANSI/ANS-56.8-2002)

ANS-57.2-201x, “Design Requirements for Light Water Reactor Used Fuel Storage Facilities at Nuclear Power Plants” (revision of withdrawn standard ANSI/ANS-57.2-1983)

ANS-57.3-201x, “Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants” (revision of withdrawn standard ANSI/ANS-57.3-1983)

ANS-57.11-201x, “Integrated Safety Assessments for Fuel Cycle Facilities”

ANS-58.8-201x, “Time Response Design Criteria for Safety-Related Operator Actions” (revision of ANSI/ANS-58.8-1994; R2008)

ANS/ASME-58.22-201x, “Low Power and Shutdown PRA Methodology“(new standard)

ANS/ASME-58.24-201x, “Severe Accident Progression and Radiological Release (Level 2) PRA Methodology to Support Nuclear Installation Applications” (new standard)

ANS/ASME-58.25-201x, “Standard for Radiological Accident Offsite Consequence Analysis (Level 3 PRA) to Support Nuclear Installation Applications” (new standard)

Projects at Ballot (or resolving ballot comments)

Projects at ballot have completed drafts that have been issued for formal consensus committee ballot with concurrent public review. Before proceeding, all comments must be considered. Multiple ballots may be needed before a draft is approved. The following draft standards are in the process of approval/comment resolution:

ANS-6.1.2-201x, “Neutron and Gamma-Ray Cross Sections for Nuclear Radiation Protection Calculations for Nuclear Power Plants” (revision of ANSI/ANS-6.1.2-1999; R2009)

ANS-8.1-201x, “Nuclear Criticality Safety in Operations with Fissionable Materials Outside Reactors” (revision of ANSI/ANS-8.1-1998; R2007)

ANS-8.19-201x, “Administrative Practices for Nuclear Criticality Safety” (revision of ANSI/ANS-8.19-2005)

ANS-58.16-201x, “Safety Classification and Design Criteria for Non-Reactor Nuclear Facilities” (new standard)

ANS Recently Approved Standards

The following new or revised standards have recently received ANSI approval:

ANS-2.15-201x, “Criteria for Modeling and Calculating Atmospheric Transport of Routine Releases from Nuclear Facilities” (new standard)

ANSI/ANS-2.21-2012, “Criteria for Assessing Atmospheric Effects on the Ultimate Heat Sink” (new standard approved 6/5/12 – available for purchase)

ANSI/ANS-3.2-2012, “Managerial, Administrative and quality Assurance Controls for the Operational Phase of Nuclear Power Plants” (revision of ANSI/ANS-3.2-2006 approved 3/20/12 – available for purchase)

ANS-3.4-201x, “Medical Certification and Monitoring of Personnel Requiring Operator Licenses for Nuclear Power Plants” (revision of ANSI/ANS-3.4-1996; R2002)

ANS-10.7-201x, “Non-Real Time Hi-Integrity Software for the Nuclear Industry - Developer Requirements” (new standard)

ANSI/ANS-15.21-2012, “Format and Content for Safety Analysis Reports for Research Reactors” (revision of ANSI/ANS-15.21-1996; R2006 approved 10/5/12 – available soon)

ANSI/ANS-41.5-2012, “Verification and Validation of Radiological Data for Use in Waste Management and Environmental Remediation” (new standard approved 2/15/12 – available for purchase)

Contact standards@ans.org for more details on any of the above standards.

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