



American Nuclear Society (ANS)

What's New . . .

Project Initiation Notification System (PINS) ANS Standards

Before work on a draft can begin, a **Project Initiation Notification System (PINS)** form must be approved and submitted to the American National Standards Institute (ANSI). The following projects have completed a PINS form and are in approval process:

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

ANS-3.2-201x, "Administrative Controls and Quality Assurance for the Operational Phase of Nuclear Power Plants" (revision of ANSI/ANS-3.2-2006)

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-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, "Criteria for Radiological Emergency Response Functions and Organizations for Nuclear Facilities" (revision of withdrawn standard ANSI/ANS-3.8.1-1995)

ANS-3.8.2-201x, "Criteria for 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and Physical Characteristics of Radiological Emergency Response Facilities at Nuclear Facilities" (revision of withdrawn standard ANSI/ANS-3.8.2-1995)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, "Criteria for 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Procedures and Maintaining Emergency Response Capability for Nuclear Facilities" (revision and consolidation of withdrawn standards ANSI/ANS-3.8.3-1995 and ANSI/ANS-3.8.4-1995)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, Criteria for 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Emergency Radiological Field Monitoring, Sampling and Analysis for Nuclear Facilities (revision and consolidation of withdrawn standards ANSI/ANS-3.8.5-1992 and ANSI/ANS-3.8.6-1995)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, Criteria for 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Conduct, and Evaluation of Drills and Exercises for Emergency Preparedness at Nuclear Facilities (revision of withdrawn standard ANSI/ANS-3.8.7-1998)

ANS-6.4.3-201x, "Gamma-Ray Attenuation Coefficients & Buildup Factors for Engineering Materials" (revision of withdrawn standard ANSI/ANS-6.4.3-1991)

ANS-8.20-201x, "Nuclear Criticality Safety Training" (revision of ANSI/ANS-8.20-1991; R1999; R2005)

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

ANS-8.25-201x, "Development of Nuclear Criticality Safety Related Postings" (new standard)

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

ANS-40.21-201x, "Siting, Construction, and Operation of Commercial Low Level Radioactive Waste Burial Grounds" (new standard)

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-2.9-201x, "Evaluation of Ground Water Supply for Nuclear Facilities" (revision of withdrawn standard ANSI/ANS-2.9-1980; R1989)
- ANS-2.15-201x, "Criteria for Modeling and Calculating Atmospheric Transport of Routine Releases from Nuclear Facilities" (new standard)
- ANS-2.16-201x, "Criteria for Modeling Design-Basis Accidental Releases from Nuclear Facilities" (new standard)
- ANS-2.25-201x, "Surveys of Ecology Needed to License Nuclear Facilities" (revision of withdrawn standard ANSI/ANS-2.25-1982; R1989)
- ANS-2.30-201x, "Assessing Capability for Surface Faulting at Nuclear Facilities" (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-3.8.10-201x, "Criteria for Modeling Real-Time Accidental Releases at Nuclear Facilities" (new standard)
- ANS-5.1-201x, "Decay Heat Power in Light Water Reactors" (revision of ANSI/ANS-5.1-2005)
- 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-8.3-201x, "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-8.19-201x, "Administrative Practices for Nuclear Criticality Safety" (revision of ANSI/ANS-8.19-2005)
- ANS-8.21-201x, "Use of Fixed Neutron Absorbers in Nuclear Facilities Outside Reactors" (revision of ANSI/ANS-8.21-1995; R2001 and consolidation and revision of ANSI/ANS-8.5-1996; R2002; R2007)
- ANS-10.7-201x, "Non-Real Time, High Integrity Software for the Nuclear Industry" (new standard)

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

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

ANS-15.17-201x, "Fire Protection Program Criteria for Research Reactors" (revision of ANSI/ANS-15.17-1981; R2000)

ANS-15.19-201x, "Shipment and Receipt of Special Nuclear Material (SNM) by Research Reactors" (revision of withdrawn standard ANSI/ANS-15.19-1991)

ANS-15.21-201x, "Format and Content for Safety Analysis Reports for Research Reactors" (revision of ANSI/ANS-15.21-1996; R2006)

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-19.3-201x, "Steady-State Neutronics Methods for Power-Reactor Analysis" (revision of ANSI/ANS-19.3-2005)

ANS-19.6.1-201x, "Reload Startup Physics Tests for Pressurized Water Reactors" (revision of ANSI/ANS-19.6.1-2005)

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

ANS-58.16-201x, "Safety and Pressure Integrity Classification for Non-Reactor Nuclear Facilities" (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)

The following drafts and standards are at one of the many levels of review, reaffirmation, revision, or approval:

ANS-2.3-201x, "Estimating Tornado, Hurricane, and Extreme Straight Line Wind Characteristics at Nuclear Facility Sites" (revision of withdrawn standard ANSI/ANS-2.3-1983)

ANS-2.17-201x, "Evaluation of Subsurface Radionuclide Transport at Commercial Nuclear Power Production Facilities" (revision of withdrawn standard ANSI/ANS-2.17-1980; R1989)

ANS-2.21-201x, "Criteria for Assessing Atmospheric Effects on the Ultimate Heat Sink" (new standard)

ANSI/ANS-3.11-2005 (R201x), "Determining Meteorological Information at Nuclear Facilities" (reaffirmation)

ANS-5.4-201x, "Method for Calculating the Fractional Release of Volatile Fission Products from Oxide Fuel" (revision of withdrawn standard ANSI/ANS-5.4-1982)

ANS-19.6.1-201x, "Reload Startup Physics Tests for Pressurized Water Reactors" (revision of ANSI/ANS-19.6.1-2005)

ANS-41.5-201x, "Verification and Validation of Radiological Data for Use in Waste Management and Environmental Remediation" (new standard)

ANS-53.1-201x, "Nuclear Safety Criteria and Safety Design Process for Modular Helium-Cooled Reactor Plants" (new standard)

ANS-58.14-201x, "Safety and Pressure Integrity Classification Criteria for Light Water Reactors" (revision of withdrawn standard ANSI/ANS-58.14-1993)

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

ANS Recently Approved Standards

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

ANSI/ANS-2.23-2002 (R2009), "Nuclear Plant Response to an Earthquake" (reaffirmation approved 6/15/09 – available for purchase)

ANSI/ANS-2.26-2004 (R2010), "Categorization of Nuclear Facility Structures, Systems, and Components for Seismic Design" (reaffirmation of ANSI/ANS-2.26-2004 – available for purchase)

ANSI/ANS-3.5-2009, "Nuclear Power Plant Simulators for Use in Operator Training and Examination" (revision of withdrawn standard ANSI/ANS-3.5-1998; W2008 approved 9/4/2009 – available for purchase)

ANSI/ANS-6.1.2-1999 (R2009), "Neutron and Gamma-Ray Cross Sections for Nuclear Radiation Protection Calculations for Nuclear Power Plants" (reaffirmation approved 2/23/2009 – available for purchase)

ANSI/ANS-8.17-2004 (R2009), "Criticality Safety Criteria for the Handling, Storage and Transportation of LWR Fuel Outside Reactors" (reaffirmation approved 9/14/09 – available for purchase)

ANSI/ANS-10.2-2009 (R2009), "Portability of Scientific and Engineering Software" (reaffirmation approved 8/14/09 – available for purchase)

ANSI/ANS-14.1-2004 (R2009), "Operation of Fast Pulse Reactors" (reaffirmation approved 10/27/09 – available for purchase)

ANSI/ANS-15.2-1999 (R2009), "Quality Control for Plate-Type Uranium-Aluminum Fuel Elements" (reaffirmation approved 3/23/09 – available for purchase)

ANSI/ANS-15.11-2009, "Radiation Protection at Research Reactors" (revision of ANSI/ANS-15.11-1993; R2004 approved 10/8/09 – available for purchase)

ANSI/ANS-19.10-2009, "Methods for Determining Neutron Fluence in BWR and PWR Pressure Vessel and Reactor Internals" (new standard approved 2/24/09 – available for purchase)

ANSI/ANS-40.37-2009, "Mobile Radioactive Waste Processing Systems" (revision of withdrawn standard ANSI/ANS-40.37-1993; W2004 approved 11/20/09 – available for purchase)

ANSI/ANS-55.1-1992 (R2009), "Solid Radioactive Waste Processing System for Light-Water-Cooled Reactor Plants" (reaffirmation approved 6/15/09 – available for purchase)

ANSI/ANS-58.9-2002 (R2009), "Single Failure Criteria for Light Water Reactor Safety-Related Fluid Systems" (reaffirmation approved 2/24/2009 – available for purchase)

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

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