



ANS

American Nuclear Society American National Standards – Sales List

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ANS Designation	Price
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ANS-2.3-2011 (R2016) Estimating Tornado, Hurricane, and Extreme Straight Line Wind Characteristics at Nuclear Facility Sites (Supersedes ANS-2.3-1983)	\$77
ANS-2.6-2018 Guidelines for Estimating Present & Projecting Future Population Distributions Surrounding Nuclear Facility Sites	\$147
ANS-2.10-2017 Criteria for Retrieval, Processing, Handling, and Storage of Records from Nuclear Facility Seismic Instrumentation	\$121
ANS-2.15-2013 (R2017) Criteria for Modeling and Calculating Atmospheric Dispersion of Routine Radiological Releases from Nuclear Facilities	\$188
ANS-2.17-2010 (R2016) Evaluation of Subsurface Radionuclide Transport at Commercial Nuclear Power Plants (Supersedes ANS-2.17-1980; R1989)	\$152
ANS-2.21-2012 (R2016) Criteria for Assessing Atmospheric Effects On the Ultimate Heat Sink	\$61
ANS-2.23-2016 Nuclear Power Plant Response to an Earthquake (Revision of ANS-2.23-2002; R2009)	\$180
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ANS-3.1-2014 Selection, Qualification and Training of Personnel for Nuclear Power Plants (Supersedes ANS-3.1-1993; R1999)	\$141
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ANS-3.11-2015 Determining Meteorological Information at Nuclear Facilities (Revision of ANS-3.11-2005; R2010)	\$242
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ANS-6.1.2-2013 Group-Averaged Neutron and Gamma-Ray Cross Sections for Radiation Protection and Shielding Calculations for Nuclear Power Plants (Revision of ANS-6.1.2-1999; R2009)	\$61
ANS-6.3.1-1987 (R2015) Program for Testing Radiation Shields in Light Water Reactors (LWR) (Revision of ANS-6.3.1-1980)	\$86
ANS-6.4-2006 (R2016) Nuclear Analysis and Design of Concrete Radiation Shielding for Nuclear Power Plants (Revision of ANS-6.4-1997; R2004)	\$229
ANS-6.4.2-2006 (R2016) Specification for Radiation Shielding Materials (Revision of ANS-6.4-1985; R1997; R2004)	\$86
ANS-6.6.1-2015 Calculation and Measurement of Direct and Scattered Gamma Radiation from LWR Nuclear Power Plants (Revision of ANS-6.6.1-1987; R2007)	\$158
ANS-8.1-2014 Nuclear Criticality Safety in Operations with Fissionable Materials Outside Reactors (Revision of ANS-8.1-1998; R2007)	\$105
ANS-8.3-1997 (R2017) Criticality Accident Alarm System (Revision of ANS-8.3-1986)	\$112
ANS-8.5-1996 (R2017) Use of Borosilicate-Glass Raschig Rings as a Neutron Absorber in Solutions of Fissile Material (Revision of ANS-8.5-1986)	\$70
ANS-8.6-1983 (R2017) Safety in Conducting Subcritical Neutron-Multiplication Measurements in Situ (Revision of N16.3-1975)	\$35

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ANS-8.10-2015 Criteria for Nuclear Criticality Safety Controls in Operations with Shielding and Confinement (Revision of ANS-8.10-1983; R2005)	\$61
ANS-8.12-1987 (R2016) Nuclear Criticality Control and Safety of Plutonium-Uranium Fuel Mixtures Outside Reactors (Revision of ANS-8.12-1978)	\$105
ANS 8.14-2004 (R2016) Use of Soluble Neutron Absorbers in Nuclear Facilities Outside Reactors	\$52
ANS-8.15-2014 Nuclear Criticality Control of Selected Actinide Nuclides (Revision of ANS-8.15-1981; R2005)	\$121
ANS-8.17-2004 (R2014) Criticality Safety Criteria for the Handling, Storage, and Transportation of LWR Fuel Outside Reactors (Revision of ANS-8.17-1984; R1997)	\$52
ANS-8.19-2014 Administrative Practices for Nuclear Criticality Safety (Revision of ANS-8.19-2005)	\$56
ANS-8.20-1991 (R2015) Nuclear Criticality Safety Training	\$52
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ANS-8.22-1997 (R2016) Nuclear Criticality Safety Based on Limiting and Controlling Moderators	\$62
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ANS-8.24-2017 Validation of Neutron Transport Methods for Nuclear Criticality Safety Calculations (Revision of ANS-8.24-2007; R2012)	\$135
ANS-8.26-2007 (R2016) Criticality Safety Engineer Training and Qualification Program	\$44
ANS-8.27-2015 Burnup Credit for LWR Fuel (Revision of ANS-8.27-2008)	\$103
ANS-10.2-2000 (R2009) Portability of Scientific and Engineering Software (Revision of ANS-10.2-1988)	\$52

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ANS-10.4-2008 (R2016) Verification and Validation of Non-Safety Related Scientific and Engineering Computer Programs for the Nuclear Industry (Revision of ANS-10.4-1987; R1998)	\$143
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ANS-14.1-2004 (R2014) Operation of Fast Pulse Reactors (Revision of ANS-14.1-1975; R2000)	\$52
ANS-15.1-2007 (R2018) The Development of Technical Specifications for Research Reactors (Revision of ANS-15.1-1990; R1999)	\$105
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ANS-15.8-1995 (R2018) Quality Assurance Program Requirements for Research Reactors (Revision of ANS-15.8-1976; R1986)	\$70
ANS-15.11-2016 Radiation Protection at Research Reactor Facilities (Revision of ANSI/ANS-15.11-2009)	\$164
ANS-15.16-2015 Emergency Planning for Research Reactors (Revision of ANS-15.16-2008)	\$78
ANS-15.21-2012 (R2018) Format and Content for Safety Analysis Reports for Research Reactors (Revision of ANS-15.21-1996; R2006)	\$136
ANS-16.1-2003 (R2017) Measurement of the Leachability of Solidified Low-Level Radioactive Wastes by a Short-Term Test Procedure (Revision of ANS-16.1-1986)	\$149
ANS-18.1-2016 Radioactive Source Term for Normal Operation of Light Water Reactors (Supersedes ANSI/ANS-18.1-1999)	\$112
ANS-19.1-2002 (R2011) Nuclear Data Sets for Reactor Design Calculations (Revision of ANSI/ANS-19.1-1983; R1989)	\$77
ANS-19.3-2011 (R2017) Steady-State Neutronics Methods for Power Reactor Analysis (Revision of ANS-19.3-2005)	\$141
ANS-19.3.4-2002 (R2017) The Determination of Thermal Energy Deposition Rates in Nuclear Reactors (Revision of ANS-19.3.4-1976; R1983; R1989)	\$62

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ANS-19.4-2017 A Guide for Acquisition and Documentation of Reference Power Reactor Physics Measurements for Nuclear Analysis Verification (Supersedes ANS-19.4-1976; R2000)	\$116
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ANS-19.10-2009 (R2016) Methods for Determining Neutron Fluence in BWR and PWR Pressure Vessel and Reactor Internals	\$59
ANS-19.11-2017 Calculation and Measurement of the Moderator Temperature Coefficient of Reactivity for Pressurized Water Reactors (Revision of ANS-19.11-1997; R2011)	\$128
ANS-40.37-2009 (R2016) Mobile Low Level Radioactive Waste Processing Systems (Supersedes ANS-40.37-1993)	\$161
ANS-41.5-2012 Verification and Validation of Radiological Data for Use in Waste Management and Environmental Remediation	\$177
ANS-51.10-1991 (R2018) Auxiliary Feedwater System for Pressurized Water Reactors (Revision of ANS-51.10-1979)	\$121
ANS-53.1-2011 (R2016) Nuclear Safety Design Process for Modular Helium-Cooled Reactor Plants	\$256
ANS-55.1-1992 (R2017) Solid Radioactive Waste Processing System for Light-Water-Cooled Reactor Plants (Revision of ANS-55.1-1979)	\$164
ANS-56.8-2002 (R2016) Containment System Leakage Testing Requirements (Revision of ANS-56.8-1994)	\$149
ANS-57.1-1992 (R2015) Design Requirements for Light Water Reactor Fuel Handling Systems (Revision of ANS-57.1-1980)	\$77
ANS-57.3-2018 Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants	\$86
ANS-57.8-1995 (R2017) Fuel Assembly Identification (Revision of ANS-57.8-1978; R1987)	\$52
ANS-57.10-1996 (R2016) Design Criteria for Consolidation of LWR Spent Fuel (Revision of ANS-57.10-1987)	\$149
ANS-58.3-1992 (R2018) Physical Protection for Nuclear Safety-Related Systems and Components (Revision of ANS-58.3-1977)	\$152
ANS-58.8-1994 (R2017) Time Response Design Criteria for Safety-Related Operator Actions (Revision of ANS-58.8-1984)	\$96
ANS-58.9-2002 (R2015) Single Failure Criteria for Light Water Reactor Safety-Related Fluid Systems (Same as ANS-58.9-1981; R1987)	\$52

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ANS-58.16-2014 Safety Categorization and Design Criteria for Nonreactor Nuclear Facilities	\$169
ANS-59.51-1997 (R2015) Fuel Oil Systems for Safety-Related Emergency Diesel Generators (Revision of ANS-59.51-1989)	\$86
ANS-59.52-1998 (R2015) Lubricating Oil Systems for Safety-Related Emergency Diesel Generators	\$77

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ASME/ANS RA-S-1.2-2014 Severe Accident Progression and Radiological Release (Level 2) PRA Standard for Nuclear Power Plant Applications for Light Water Reactors (LWRs)	\$220
ASME/ANS RA-1.3-2017 Standard for Radiological Accident Offsite Consequence Analysis (Level 3 PRA) to Support Nuclear Installation Applications	\$220
ASME/ANS RA-S-1.4-2013 Probabilistic Risk Assessment Standard for Advanced Non-LWR Nuclear Power Plants	\$550

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ANS-1-1987 (R1992) Safety Guide for the Performance of Critical Experiments	\$44
ANS-2.2-2002 Earthquake Instrumentation Criteria for Nuclear Power Plants	\$62
ANS-2.3-1983 Standard for Estimating Tornado and Extreme Wind Characteristics at Nuclear Power Sites	\$86
ANS-2.7-1982 Criteria and Guidelines for Assessing Capability for Surface Faulting at Nuclear Power Plant Sites	\$62
ANS-2.8-1992 Determining Design Basis Flooding at Power Reactor Sites	\$189
ANS-2.9-1980 (R1989) Evaluation of Ground Water Supply for Nuclear Power Sites	\$105
ANS-2.10-2003 Criteria for the Handling and Initial Evaluation of Records from Nuclear Power Plant Seismic Instrumentation	\$52
ANS-2.11-1978 (R1989) Guidelines for Evaluating Site-Related Geotechnical Parameters at Nuclear Power Sites	\$145

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ANS-2.13-1979 (R1988)	\$131
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ANS-2.17-1980 (R1989)	\$121
Evaluation of Radionuclide Transport in Ground Water for Nuclear Power Sites	
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Guidelines for Establishing Site-Related Parameters for Site Selection and Design of an Independent Spent Fuel Storage Installation (Water Pool Type)	
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Nuclear Plant Response to an Earthquake	
ANS-2.25-1982 (R1989)	\$133
Surveys of Terrestrial Ecology Needed to License Thermal Power Plants (Formerly known as ANS-18.5)	
ANS-3.1-1993 (R1999)	\$96
Selection, Qualification, and Training of Personnel for Nuclear Power Plants	
ANS-3.2-2006	\$160
Administrative Controls and Quality Assurance for the Operational Phase of Nuclear Power Plants	
ANS-3.3-1988	\$86
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Facilities and Medical Care for On-Site Nuclear Power Plant Radiological Emergencies	
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Criteria for Radiological Emergency Response Functions and Organizations	
ANS-3.8.2-1995	\$70
Criteria for Functional and Physical Characteristics of Radiological Emergency Response Facilities	
ANS-3.8.3-1995	\$70
Criteria for Radiological Emergency Response Plans and Implementing Procedures	
ANS-3.8.4-1995	\$52
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Criteria for the Conduct of Offsite Radiological Assessment for Emergency Response for Nuclear Power Plants	
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ANS-4.5-1980 (R1986)	\$77
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ANS-5.4-1982	\$52
Method for Calculating the Fractional Release of Volatile Fission Products from Oxide Fuel	
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Neutron and Gamma-Ray Fluence-to-Dose Factors	
ANS-6.1.2-1999 (R2009)	\$44
Neutron and Gamma-Ray Cross Sections for Nuclear Radiation Protection Calculations for Nuclear Power Plants	
ANS-6.4-1997 (R2004)	\$217
Nuclear Analysis and Design of Concrete Radiation Shielding for Nuclear Power Plants	
ANS-6.4.2-1985 (R2004)	\$209
Specifications for Radiation Shielding Materials	
ANS-6.4.3-1991	\$2256
Gamma-Ray Attenuation Coefficients and Buildup Factors for Engineering Materials	
ANS-6.6.1-1987 (R2007)	\$156
Calculation and Measurement of Direct and Scattered Gamma Radiation from LWR Nuclear Power Plants	
ANS/HPSSC-6.8.1-1981	\$77
Location and Design Criteria for Area Radiation Monitoring Systems for Light Water Nuclear Reactors	
ANS/IEEE-7.4.3.2-1982 (R1990)	\$70
Application Criteria for Programmable Digital Computer in Safety Systems of Nuclear Power Generating Stations	
ANS-8.1-1998 (R2007)	\$105
Nuclear Criticality Safety in Operations with Fissionable Materials Outside Reactors	
ANS-8.3-1986	\$77
Criticality Accident Alarm System	
ANS-8.5-1986	\$70
Use of Borosilicate-Glass Raschig Rings as a Neutron Absorber in Solutions of Fissile Material	
ANS-8.7-1975 (R1987)	\$96
Guide for Nuclear Criticality Safety in the Storage of Fissile Materials (Formerly known as N16.5)	
ANS-8.9-1987 (R1995)	\$62
Nuclear Criticality Safety Criteria for Steel-Pipe Intersections Containing Aqueous Solutions of Fissile Material	
ANS-8.10-1983 (R2005)	\$61
Criteria for Nuclear Criticality Safety Controls in Operations with Shielding and Confinement	
ANS-8.15-1981 (R2005)	\$96
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ANS-8.24-2007 (R2012)	\$121
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ANS-10.3-1995	\$61
Documentation of Computer Software	
ANS-10.4-1987 (R1998)	\$152
Guidelines for the Verification and Validation of Scientific and Engineering Computer Programs for the Nuclear Industry	
ANS-10.5-1994	\$62
Accommodating User Needs in Computer Program Development	
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Fire Protection Program Criteria for Research Reactors	
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ANS-16.1-1986	\$158
Measurement of the Leachability of Solidified Low-Level Radioactive Wastes by a Short-Term Test Procedure	
ANS-18.1-1999	\$105
Radioactive Source Term for Normal Operation of Light Water Reactors	
ANS-19.1-1983 (R1989)	\$70
Nuclear Data Sets for Reactor Design Calculations	
ANS-19.3-2005	\$133
Determination of Steady-State Neutron Reaction-Rate Distributions and Reactivity of Nuclear Power Reactors	
ANS-19.3.4-1976 (R1989)	\$62
The Determination of Thermal Energy Deposition Rates in Nuclear Reactors (Formerly known as N676)	
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A Guide for Acquisition and Documentation of Reference Power Reactor Physics Measurements for Nuclear Analysis Verification (Formerly known as N652-1976)	
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ANS-19.6.1-2005	\$131
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Calculation and Measurement of the Moderator Temperature Coefficient of Reactivity for Water Moderated Power Reactors	
ANS-40.35-1991	\$121
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Nuclear Safety Criteria for the Design of Stationary Pressurized Water Reactor Plants	
ANS-51.10-1979	\$121
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ANS-52.1-1983 (R1988)	\$229
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ANS-54.1-1989	\$96
General Safety Design Criteria for a Liquid Metal Reactor Nuclear Power Plant	

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ANS-54.2-1985	\$77
Design Bases for Facilities for LMFBF Spent Fuel Storage in Liquid Metal Outside the Primary Coolant Boundary	
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ANS-56.2-1984 (R1989)	\$198
Containment Isolation Provisions for Fluid Systems after a LOCA	
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Overpressure Protection of Low Pressure Systems Connected to the Reactor Coolant Pressure Boundary	
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Pressure and Temperature Transient Analysis for Light Water Reactor Containments	
ANS-56.5-1979 (R1987)	\$112
PWR and BWR Containment Spray System Design Criteria	
ANS-56.6-1986	\$112
Pressurized Water Reactor Containment Ventilation Systems	
ANS-56.7-1978 (R1987)	\$131
Boiling Water Reactor Containment Ventilation Systems	
ANS-56.8-1994	\$149
Containment System Leakage Testing Requirements	
ANS-56.10-1982 (R1987)	\$142
Subcompartment Pressure and Temperature Transient Analysis in LWRs	
ANS-56.11-1988	\$77
Design Criteria for Protection Against the Effects of Compartment Flooding in LWR Plants	
ANS-57.3-1983	\$70
Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants	
ANS-57.5-1996 (R2006)	\$96
Light Water Reactors Fuel Assembly Mechanical Design and Evaluation	

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ANS-57.7-1988 (R1997)	\$164
Design Criteria for an Independent Spent Fuel Storage Installation (Water Pool Type)	
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ANS-57.9-1992 (R2000)	\$193
Design Criteria for an Independent Spent Fuel Storage Installation (Dry Type)	
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Design Basis for Protection of Light Water Nuclear Power Plants Against the Effects of Postulated Pipe Rupture	
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Physical Protection for Systems and Components Important to Safety (Formerly known as N182)	
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Criteria for Technical Specifications for Nuclear Power Stations	
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Criteria for Remote Shutdown for Light Water Reactors	
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Time Response Design Criteria for Nuclear Safety Related Operator Actions	
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Design Criteria for Safe Shutdown Following Selected Design Basis Events in Light Water Reactors	
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Safety and Pressure Integrity Classification Criteria for Light Water Reactors	
ANS-58.21-2007	\$259
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Nuclear Safety Related Cooling Water Systems for Light Water Reactors	
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