

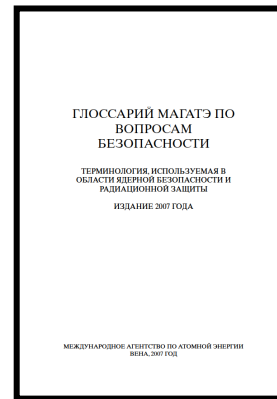
Status on 24 February 2023 – Double-Click on the relevant cover page to open the corresponding pdf file – You may also search for words or SS number in the title

Draft standards recently endorsed by the CSS are also available at the following address: <http://www-ns.iaea.org/committees/css/default.asp?fd=1084&dt=0>

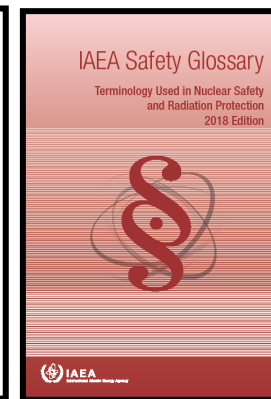
Existing Standards under revision and new Standards under development are also highlighted by “UR” and “UD”, respectively, followed by the number of the project



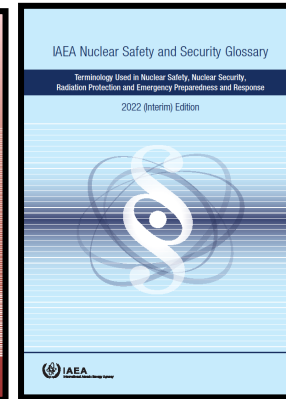
Fundamental Safety Principles



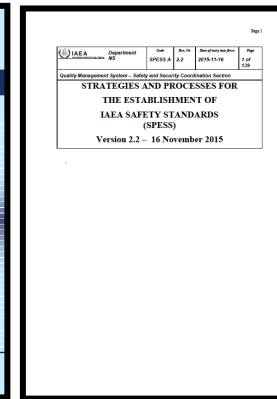
Glossary 2007



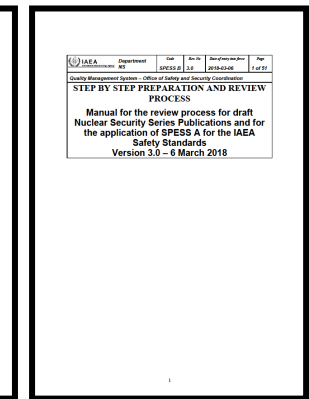
Glossary 2018



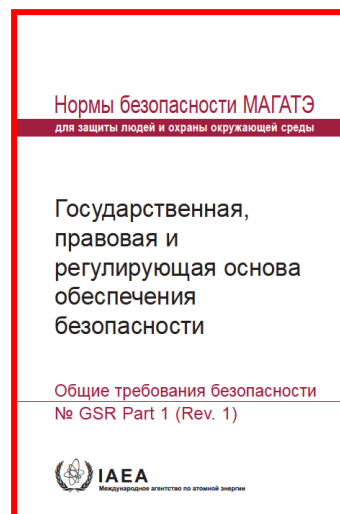
Nuclear Safety and Security Glossary



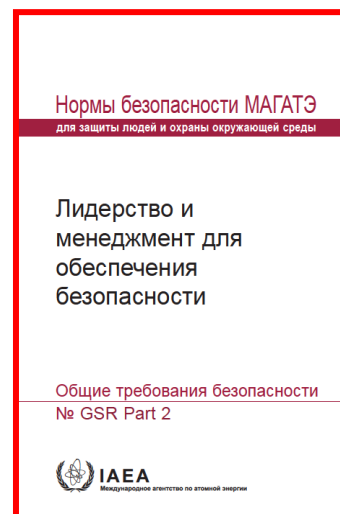
SPESS A



SPESS B



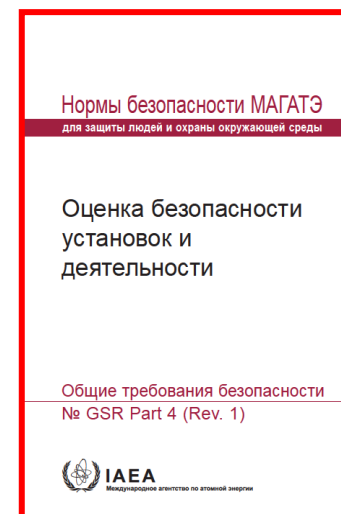
GSR Part 1 (Rev. 1) Governmental, Legal and Regulatory Framework for Safety



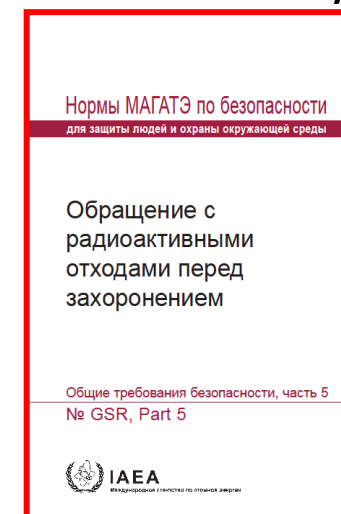
GSR Part 2 Leadership and Management for Safety



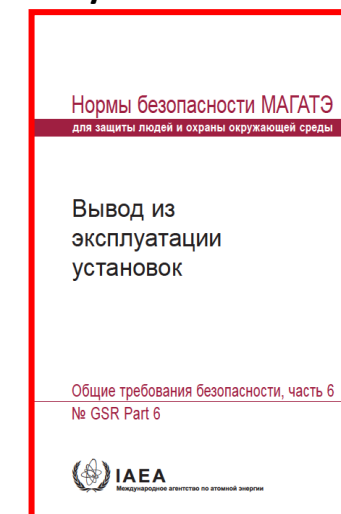
GSR Part 3 Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards



GSR Part 4 (Rev. 1) Safety Assessment for Facilities and Activities



GSR Part 5 Predisposal Management of Radioactive Waste



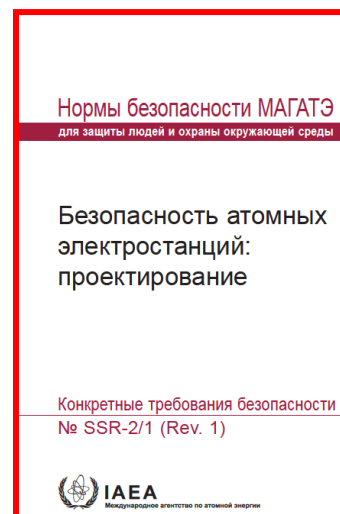
GSR Part 6 Decommissioning of Facilities



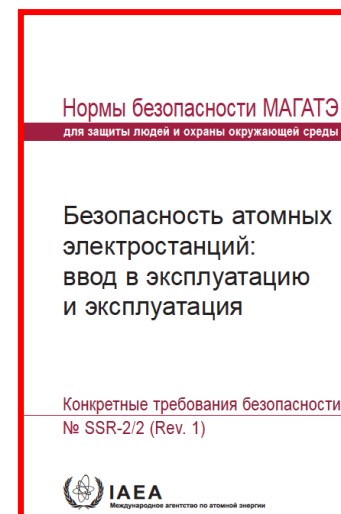
GSR-Part 7 Preparedness and Response for a Nuclear or Radiological Emergency



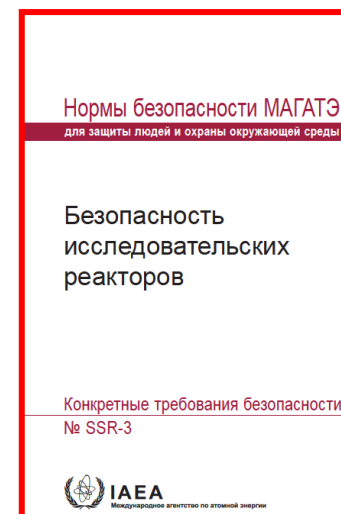
SSR-1 Site Evaluation for Nuclear Installations



SSR-2/1 (Rev. 1) Safety of Nuclear Power Plants: Design



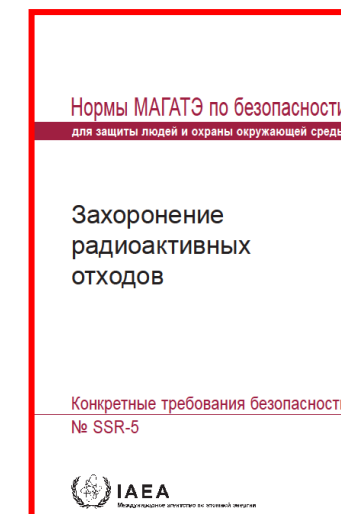
SSR-2/2 (Rev. 1) Safety of Nuclear Power Plants: Commissioning and Operation



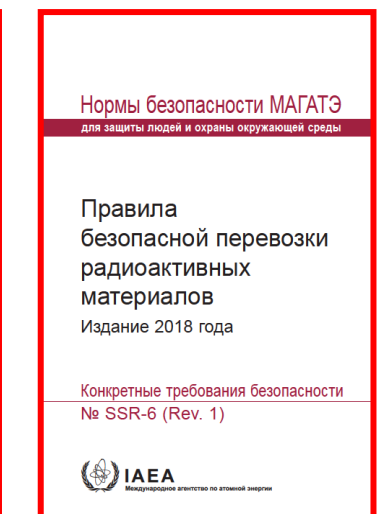
SSR-3 Safety of Research Reactors



SSR-4 Safety of Nuclear Fuel Cycle Facilities

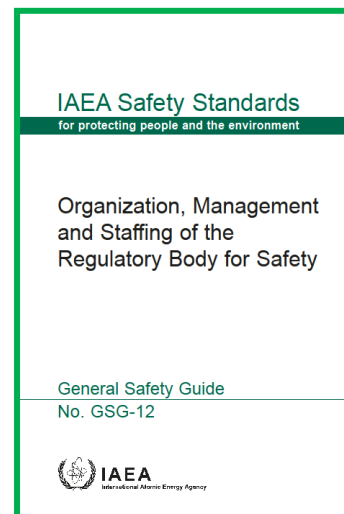


SSR-5 Disposal of Radioactive Waste

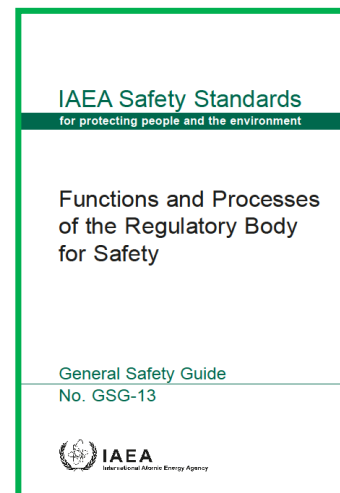


SSR-6 (Rev. 1) Regulations for the Safe Transport of Radioactive Material (2018 Edition)

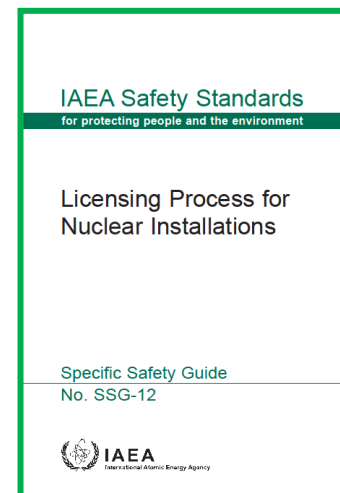
## Governmental, Legal and Regulatory Framework – Safety Infrastructure



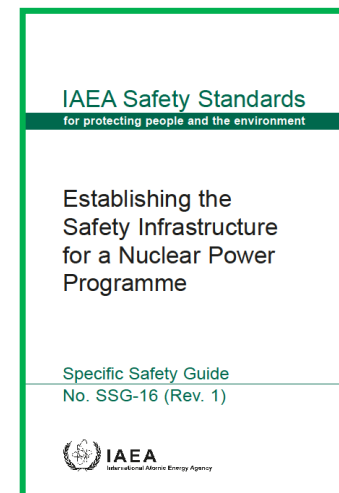
**GSG-12: Organisation, Management and Staffing of a Regulatory Body for Safety**



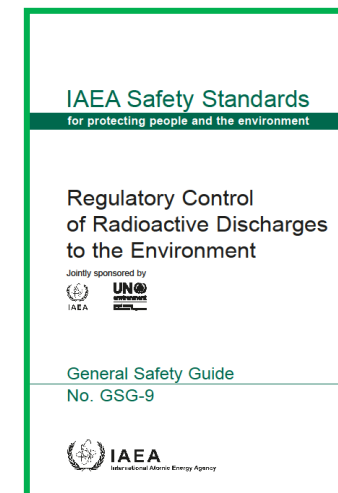
**GSG-13: Functions and Processes of the Regulatory Body for Safety**



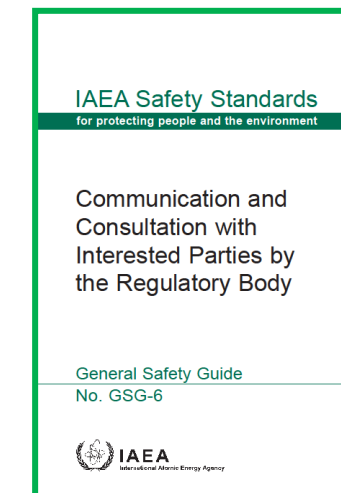
**SSG-12 Licensing Process for Nuclear Installations**  
Partially revised by GSG-13  
**UR DS539**



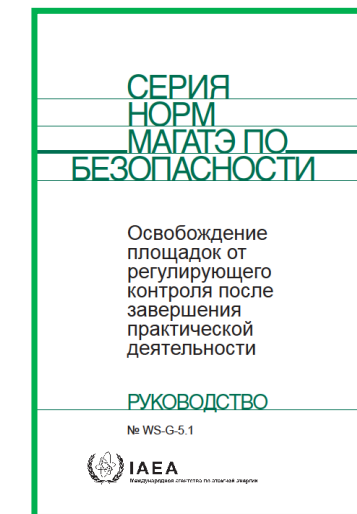
**SSG-16 (Rev. 1) Establishing the Safety Infrastructure for a Nuclear Power Programme**



**GSG-9 Regulatory Control of Radioactive Discharges to the Environment**

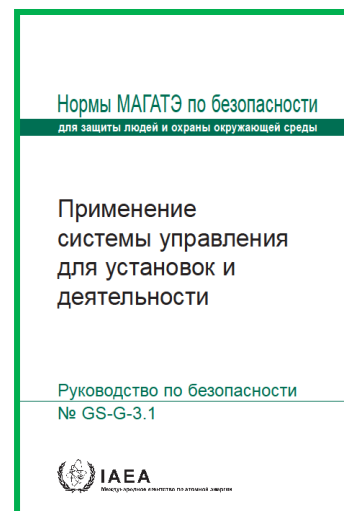


**GSG-6 Communication and Consultation with Interested Parties by the Regulatory Body**

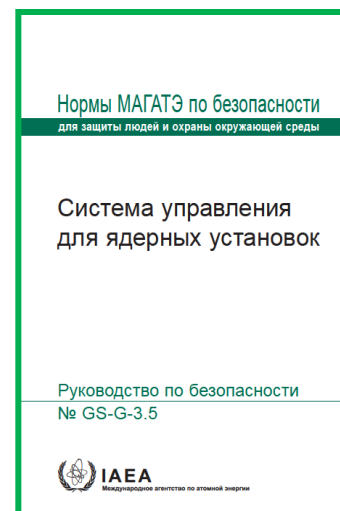


**WS-G-5.1 Release of Sites from Regulatory Control on Termination of Practices**  
Partially revised by GSG-13

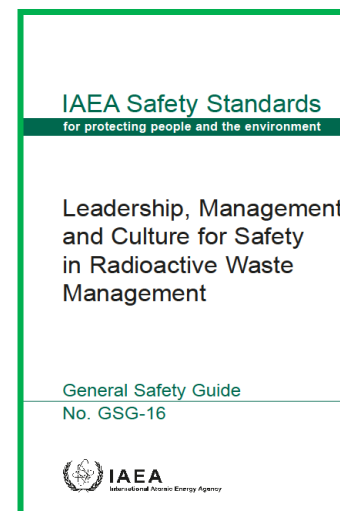
## Management Systems



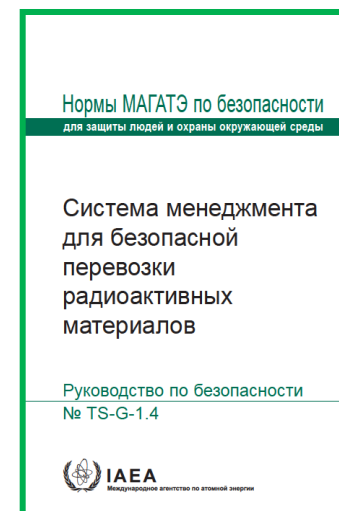
**GS-G-3.1 Application of the Management System for Facilities and Activities**  
**UR DS513**



**GS-G-3.5 The Management System for Nuclear Installations**

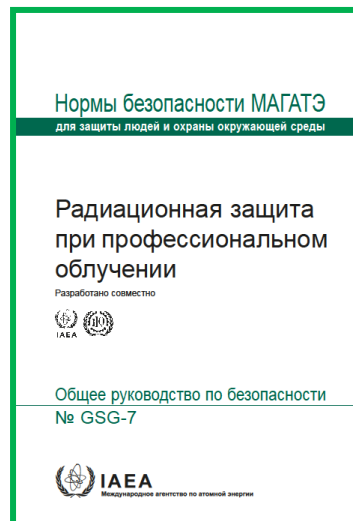


**GSG-16 Leadership, Management and Culture for Safety in Radioactive Waste Management**



**TS-G-1.4 The Management System for the Safe Transport of Radioactive Material**  
**UR DS530**

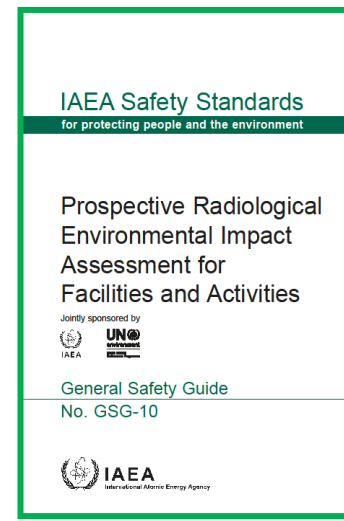
# Radiation Protection and Safety of Radiation Sources Remediation



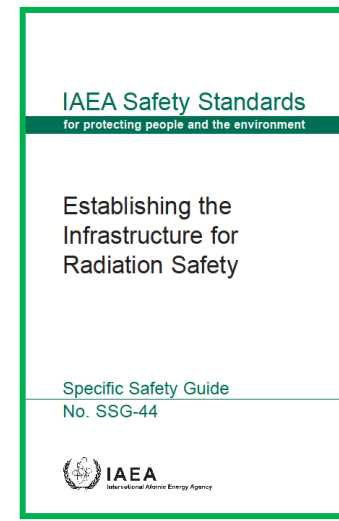
**GSG-7 Occupational Radiation Protection**



**GSG-8 Radiation Protection of the Public and the Environment**



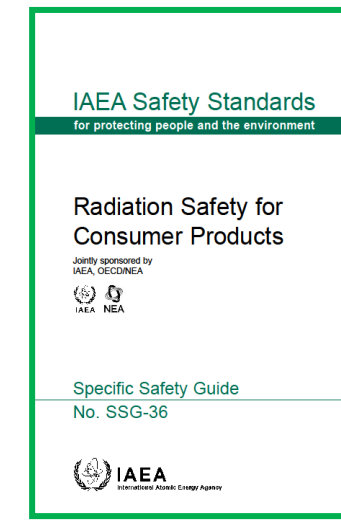
**GSG-10 Prospective Radiological Environmental Impact Assessment for Facilities and Activities**



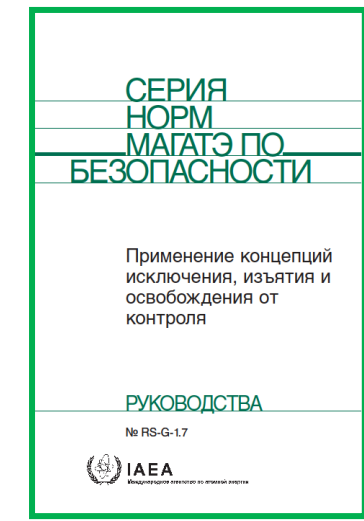
**SSG-44 Establishing the Infrastructure for Radiation Safety**



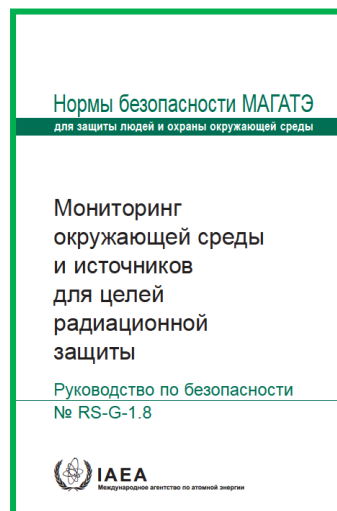
**SSG-46 Radiation Protection and Safety in Medical Uses of Ionizing Radiation**



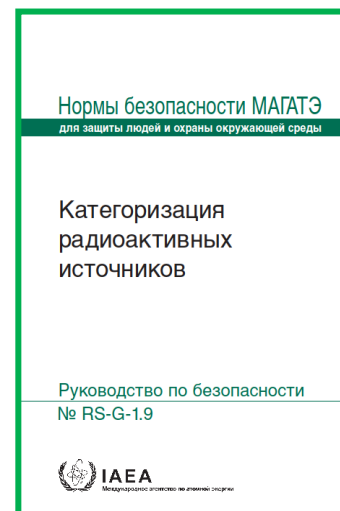
**SSG-36 Radiation Safety for Consumer Product**



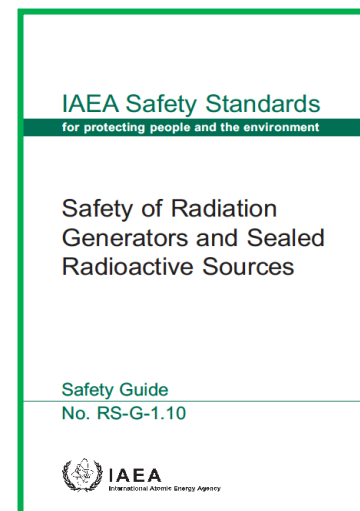
**RS-G-1.7 Application of the Concepts of Exclusion, Exemption and Clearance  
UR DS499 and DS500**



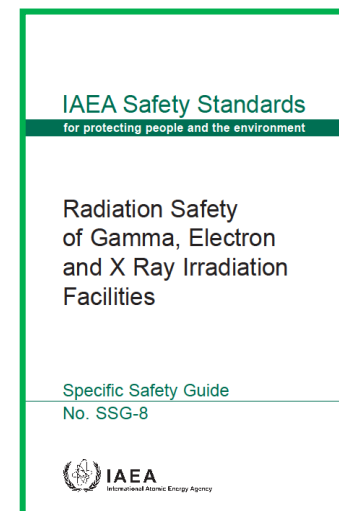
**RS-G-1.8 Environmental and Source Monitoring for Purposes of Radiation Protection  
UR DS505**



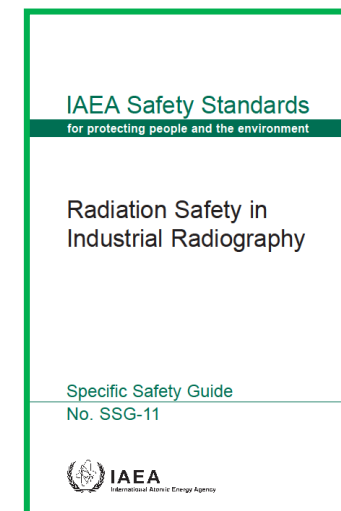
**RS-G-1.9 Categorization of Radioactive Sources**



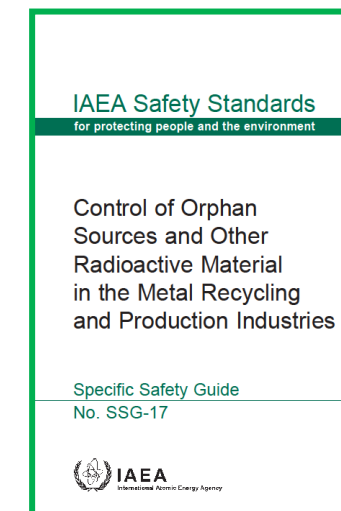
**RS-G-1.10 Safety of Radiation Generators and Sealed Radioactive Sources**



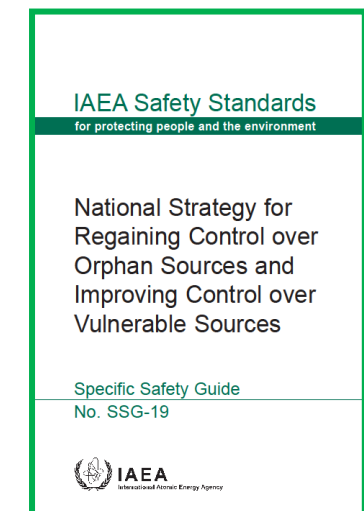
**SSG-8 Radiation Safety of Gamma, Electron and X Ray Irradiation Facilities**



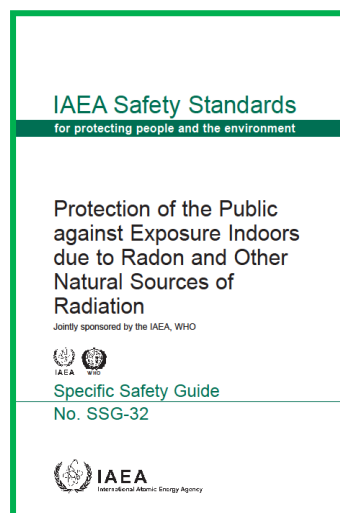
**SSG-11 Radiation Safety in Industrial Radiography  
UR DS540**



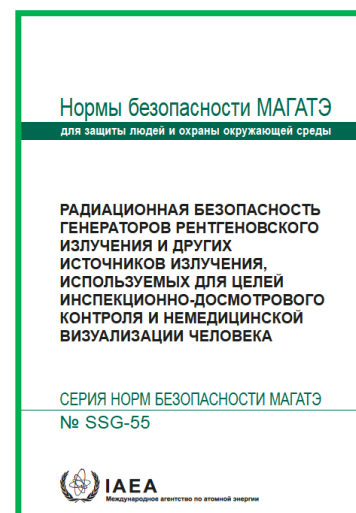
**SSG-17 Control of Orphan Sources and Other Radioactive Material in the Metal Recycling and Production Industries**



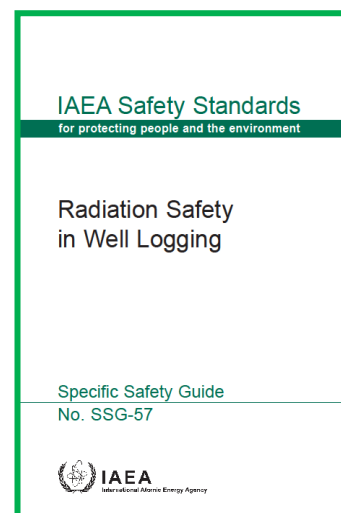
**SSG-19 National Strategy for Regaining Control over Orphan Sources and Improving Control over Vulnerable Sources**



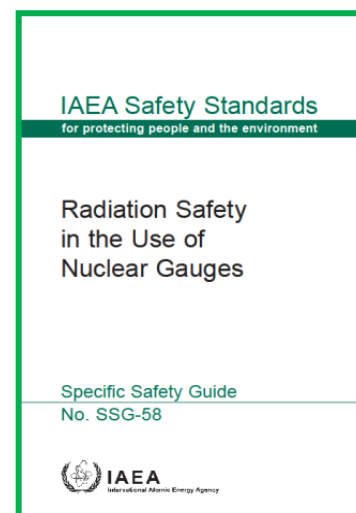
**SSG-32 Protection of the Public against Exposure Indoors due to Radon and Other Natural Sources of Radiation**



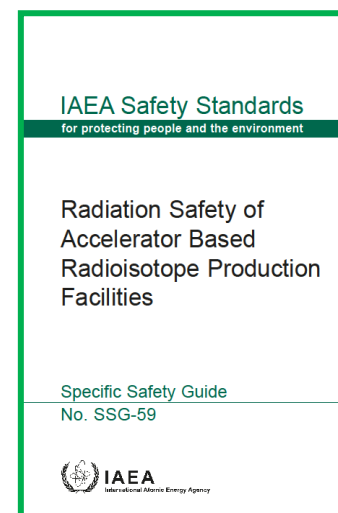
**SSG-55 Radiation Safety of X Ray Generators and Other Radiation Sources Used for Inspection Purposes and for Non-medical Human Imaging**



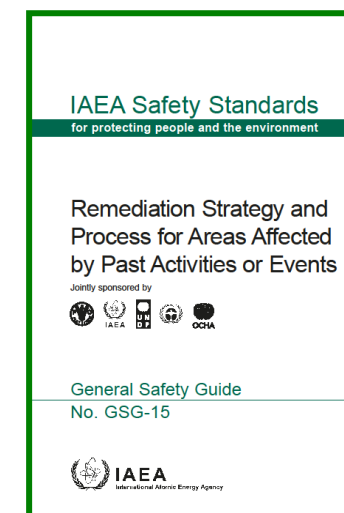
**SSG-57 Radiation Safety in Well Logging**



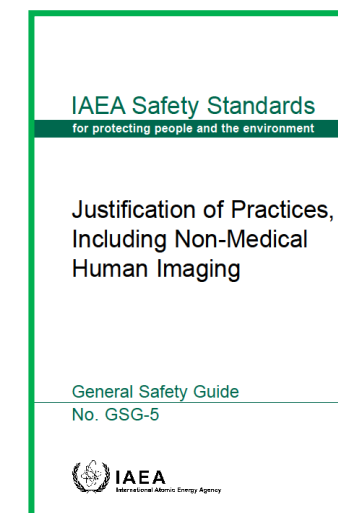
**SSG-58 Radiation Safety in the Use of Nuclear Gauges**



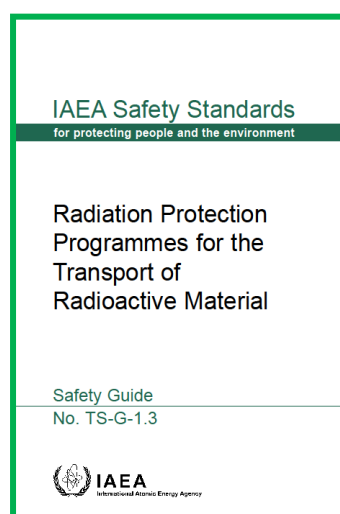
**SSG-59 Radiation Safety of Accelerator Based Radioisotope Production Facilities**



**GSG-15 Remediation Strategy and Process for Areas Affected by Past Activities or Events**



**GSG-5 Justification of Practices, Including Non-Medical Imaging**



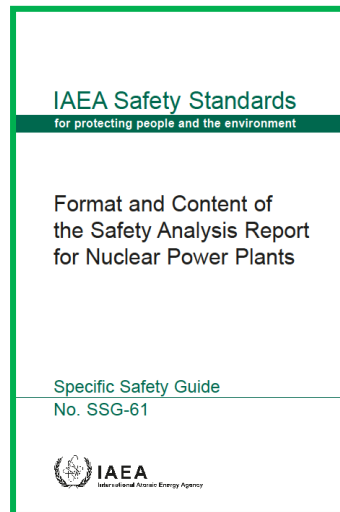
**TS-G-1.3 Radiation Protection Programmes for the Transport of Radioactive Material**  
**UR DS521**

**DS470 Radiation Safety of Radiation Sources used in Research and Education**  
**UD**

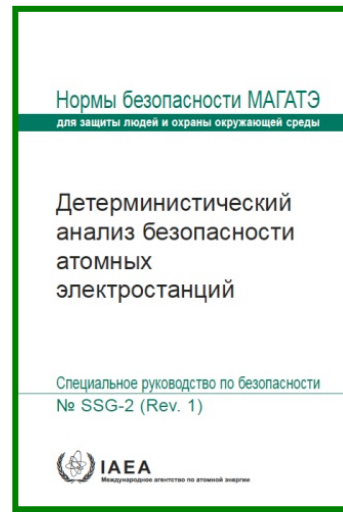
**DS519 Protection of Workers against Exposure due to Radon**  
**UD**

**DS538 Long Term Post Remediation Management of Areas Affected by Past Activities and Events**  
**UD**

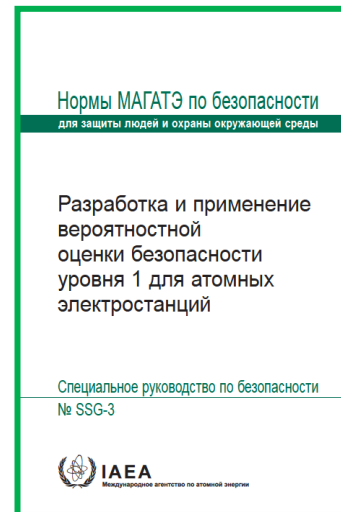
# Safety Assessment



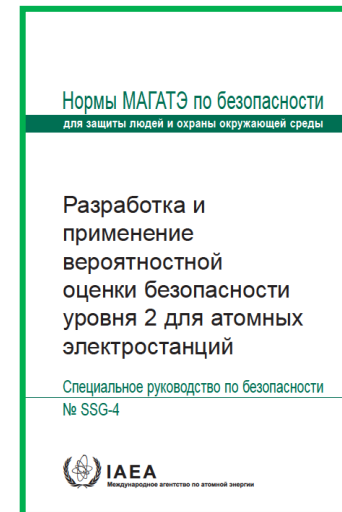
**SSG-61** Format and Content of the Safety Analysis Report for Nuclear Power Plants



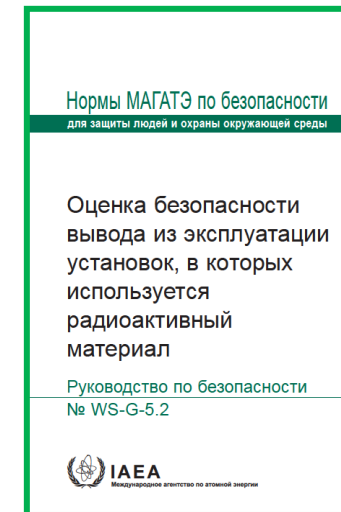
**SSG-2 (Rev. 1)** Deterministic Safety Analysis for Nuclear Power Plants



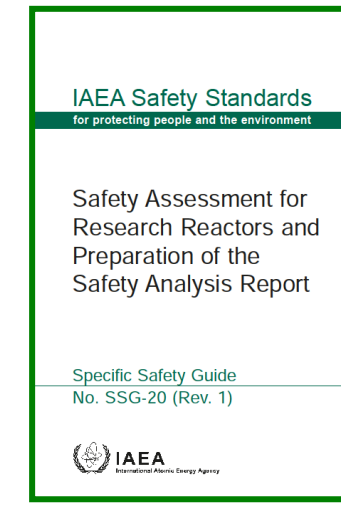
**SSG-3** Development and Application of Level 1 Probabilistic Safety Assessment for Nuclear Power Plants **UR DS523**



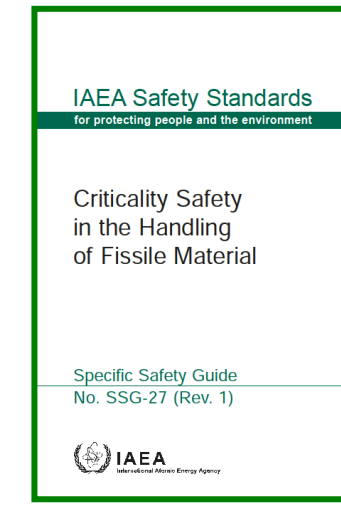
**SSG-4** Development and Application of Level 2 Probabilistic Safety Assessment for Nuclear Power Plants **UR DS528**



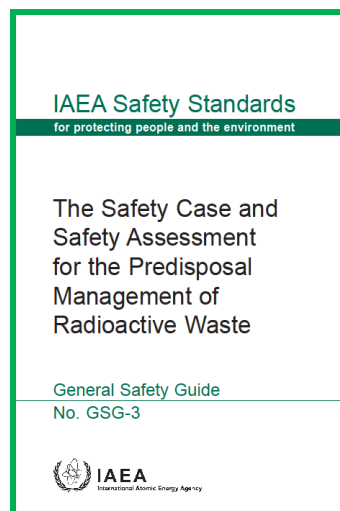
**WS-G-5.2** Safety Assessment for the Decommissioning of Facilities Using Radioactive Material



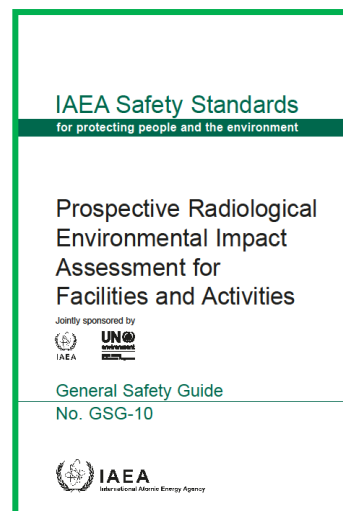
**SSG-20 (Rev. 1)** Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report



**SSG-27 (Rev. 1)** Criticality Safety in the Handling of Fissile Material



**GSG-3** The Safety Case and Safety Assessment for the Predisposal Management of Radioactive Waste

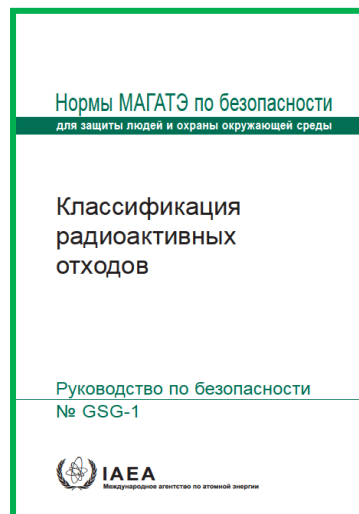


**GSG-10** Prospective Radiological Environmental Impact Assessment for Facilities and Activities

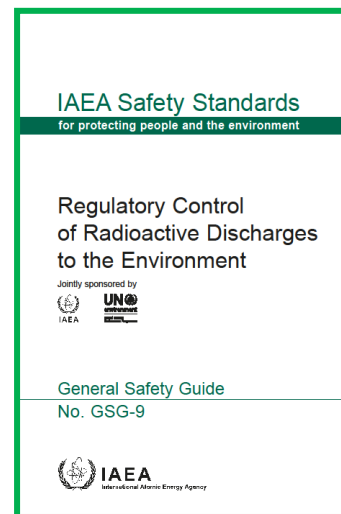
**DS537** Safety Demonstration of Innovative Technology in Power Reactor Designs **UD**



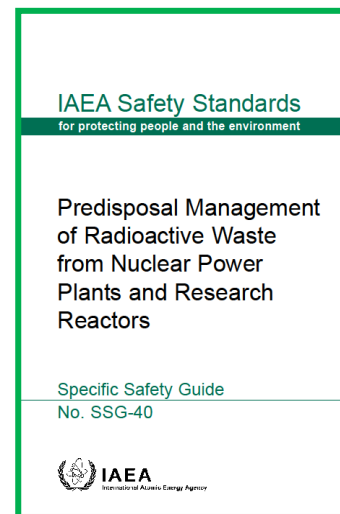
# Radioactive Waste Management, Decommissioning & Remediation



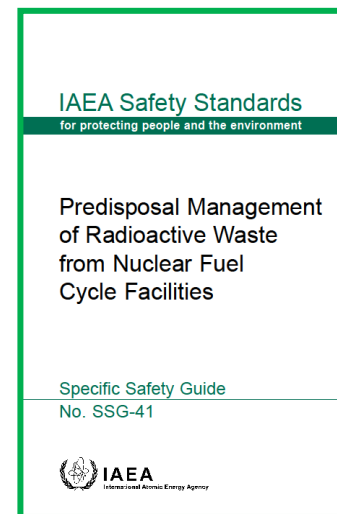
**GSG-1 Classification of Radioactive Waste**



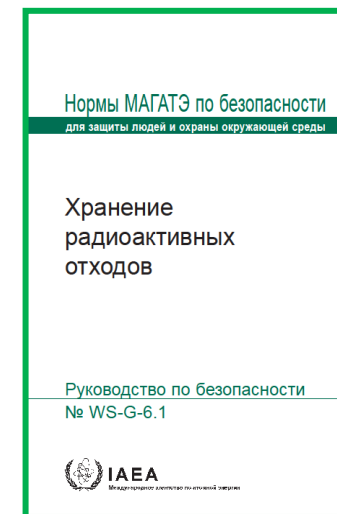
**GSG-9 Regulatory Control of Radioactive Discharges to the Environment**



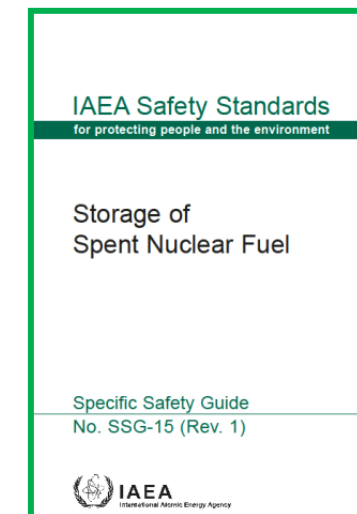
**SSG-40 Predisposal Management of Radioactive Waste from Nuclear Power Plants and Research Reactors**



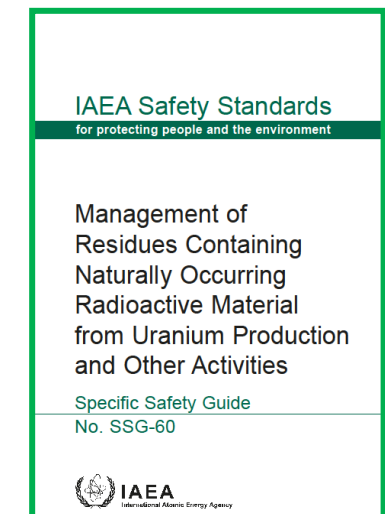
**SSG-41 Predisposal Management of Radioactive Waste from Nuclear Fuel Cycle Facilities**



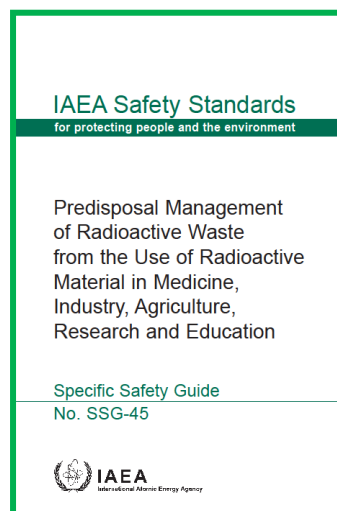
**WS-G-6.1 Storage of Radioactive Waste**



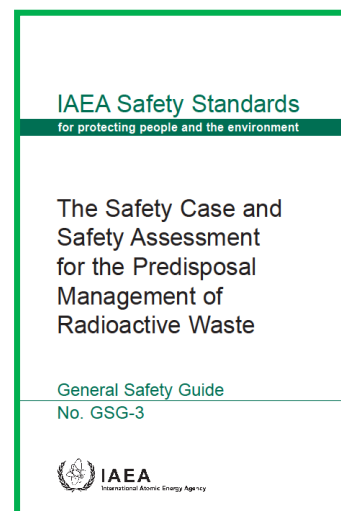
**SSG-15 (Rev. 1) Storage of Spent Nuclear Fuel**



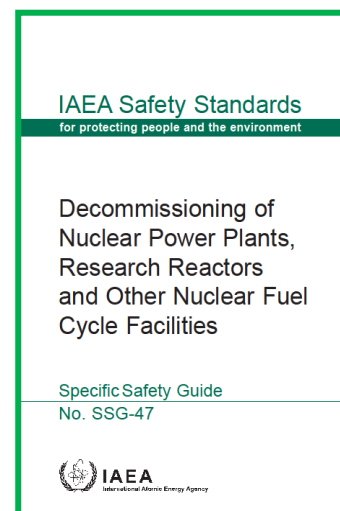
**SSG-60 Management of Residues Containing Naturally Occurring Radioactive Material from Uranium Production and Other Activities**



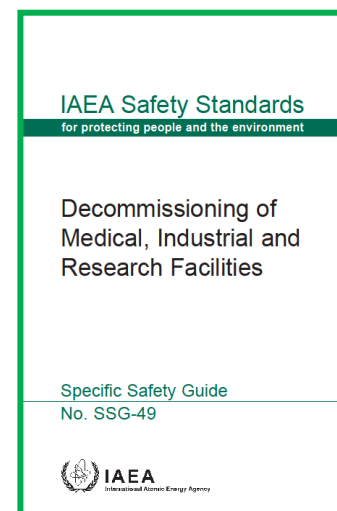
**SSG-45 Predisposal Management of Radioactive Waste from the Use of Radioactive Material in Medicine, Industry, Agriculture, Research and Education**



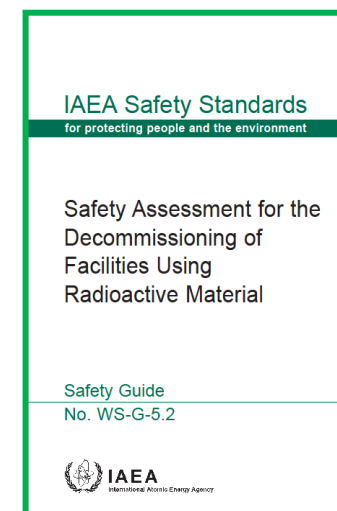
**GSG-3 The Safety Case and Safety Assessment for the Predisposal Management of Radioactive Waste**



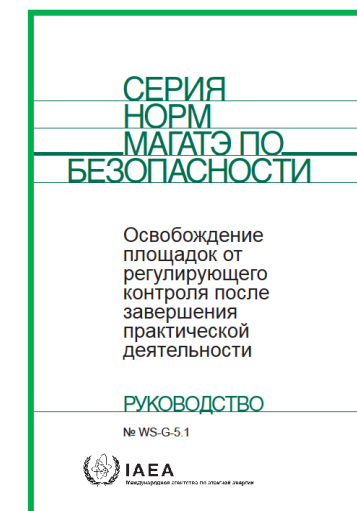
**SSG-47 Decommissioning of Nuclear Power Plants, Research Reactors and other Nuclear Fuel Cycle Facilities**



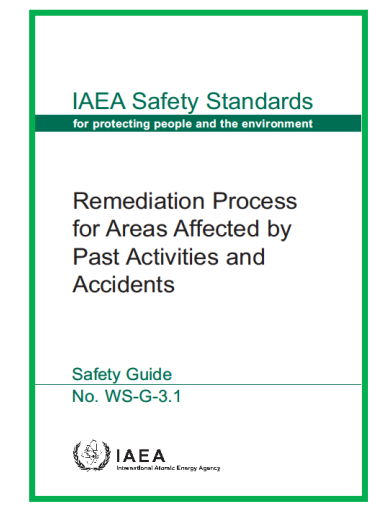
**SSG-49 Decommissioning of Medical, Industrial and Research Facilities**



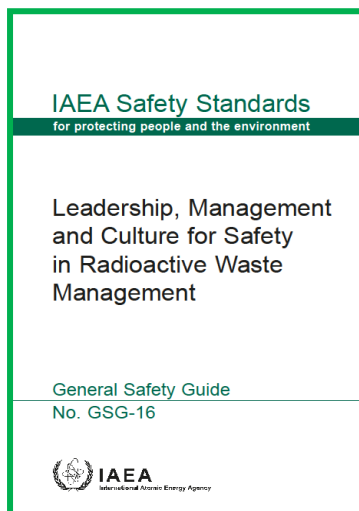
**WS-G-5.2 Safety Assessment for the Decommissioning of Facilities Using Radioactive Material**



**WS-G-5.1 Release of Sites from Regulatory Control on Termination of Practices**  
**Partially revised by GSG-13**



**WS-G-3.1 Remediation Process for Areas Affected by Past Activities and Accidents**  
**UR DS468**



**GSG-16 Leadership, Management and Culture for Safety in Radioactive Waste Management**

**DS526: National Policies and Strategies for the Safety of Radioactive Waste and Spent Fuel Management, Decommissioning and Remediation UD**

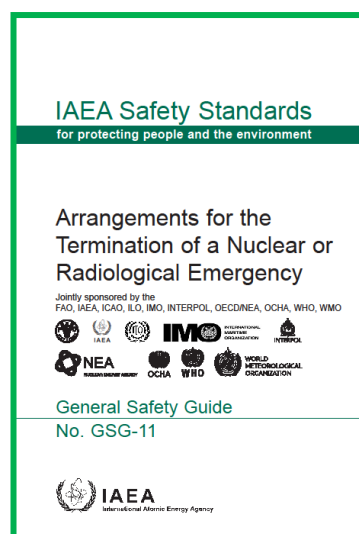
## Emergency Preparedness and Response



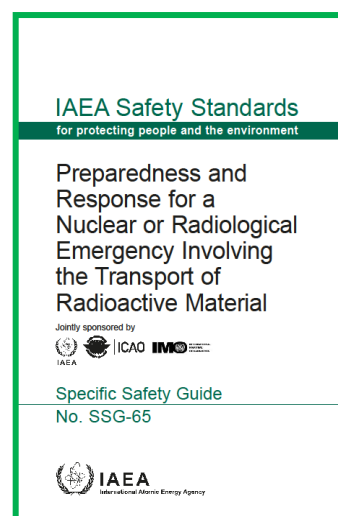
**GS-G-2.1 Arrangements for Preparedness for a Nuclear or Radiological Emergency UR DS504**



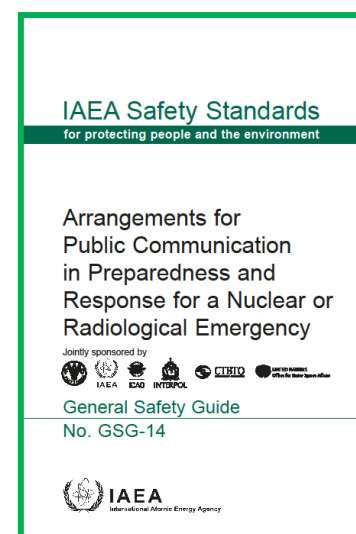
**GSG-2 Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency UR DS527**



**GSG-11 Arrangements for the Termination of a Nuclear or Radiological Emergency**

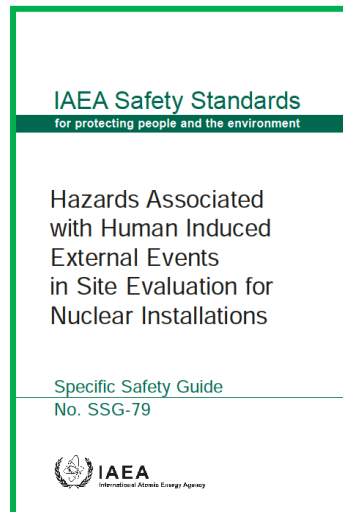


**SSG-65 Preparedness and Response for a Nuclear or Radiological Emergency involving the Transport of Radioactive Material**

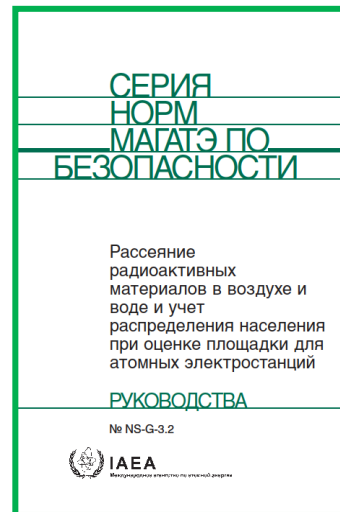


**GSG-14 Arrangements for Public Communications in Preparedness and Response for a Nuclear or Radiological Emergency**

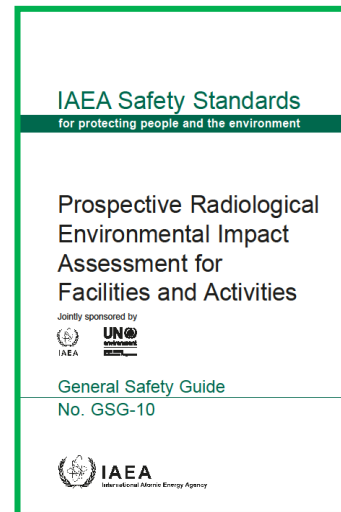
# Site Evaluation



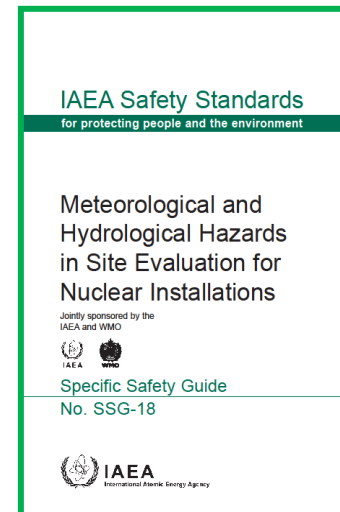
**SSG-79 Hazards Associated with Human Induced External Events in Site Evaluation for Nuclear Installations**



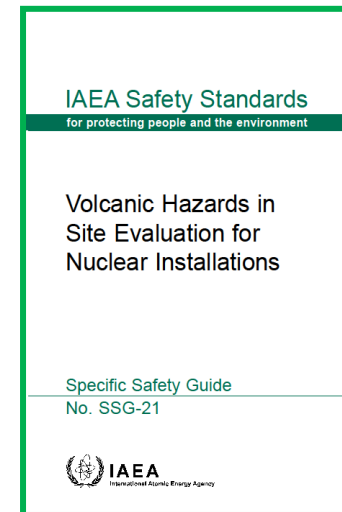
**NS-G-3.2 Dispersion of Radioactive Material in Air and Water and Consideration of Population Distribution in Site Evaluation for Nuclear Power Plants**  
 Partially revised by GSG-10  
 UR DS529



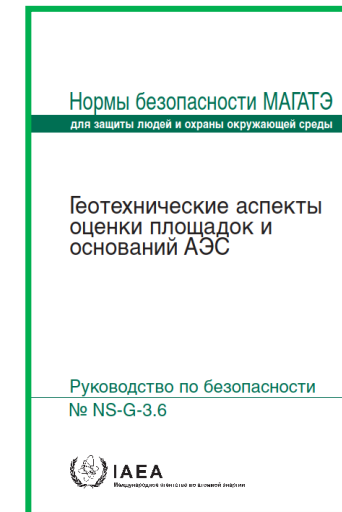
**GSG-10 Prospective Radiological Environmental Impact Assessment for Facilities and Activities**



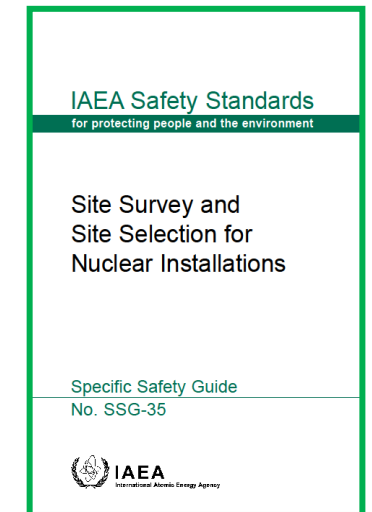
**SSG-18 Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations**



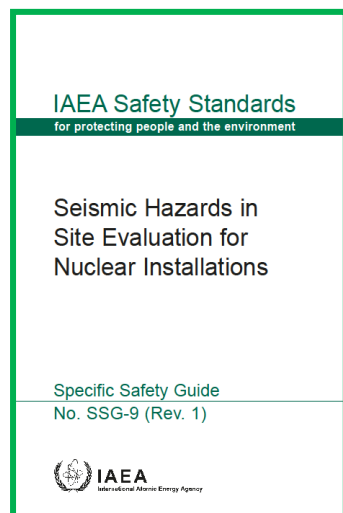
**SSG-21 Volcanic Hazards in Site Evaluation for Nuclear Installations**



**NS-G-3.6 Geotechnical Aspects of Site Evaluation and Foundations for Nuclear Power Plants** UR DS531



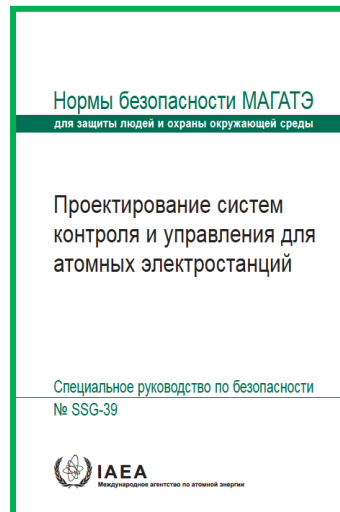
**SSG-35 Site Survey and Site Selection for Nuclear Installations**



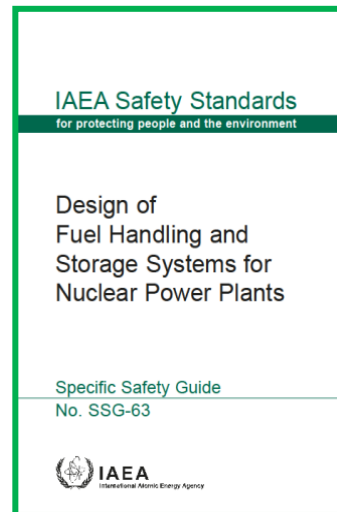
**SSG-9 (Rev. 1) Seismic Hazards in Site Evaluation for Nuclear Installations**



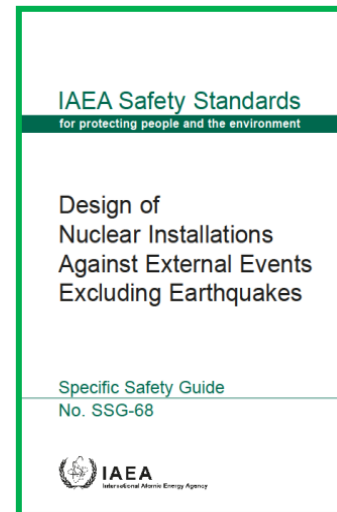
# Nuclear Power Plants



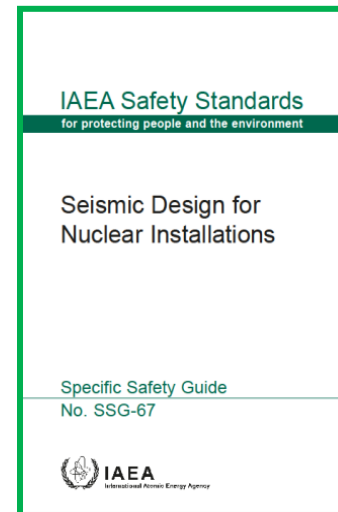
**SSG-39 Design of Instrumentation and Control Systems for Nuclear Power Plants**



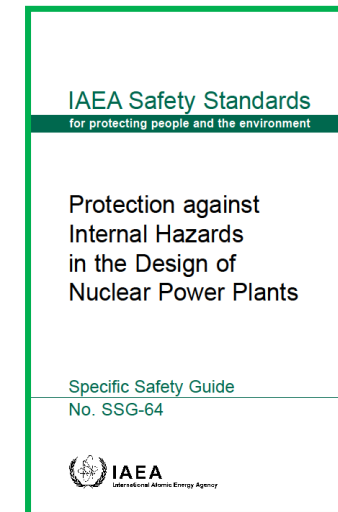
**SSG-63 Design of Fuel Handling and Storage Systems for Nuclear Power Plants**



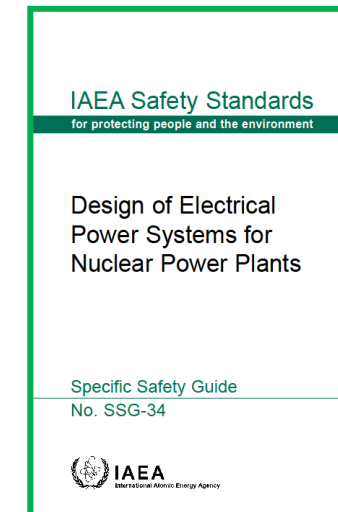
**SSG-68 Design of Nuclear Installations Against External Events Excluding Earthquakes**



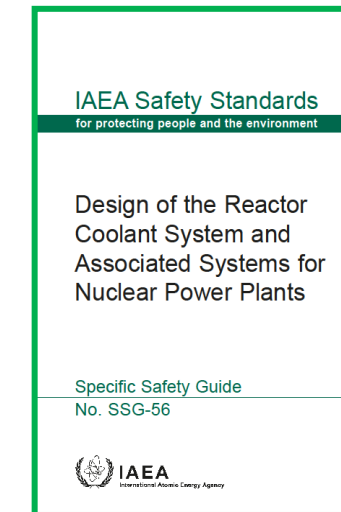
**SSG-67 Seismic Design for Nuclear Installations**



**SSG-64 Protection against Internal Hazards in the Design of Nuclear Power Plants**



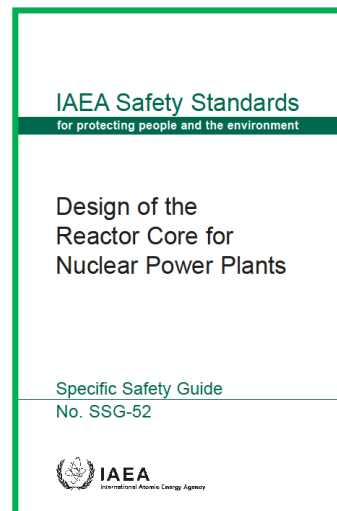
**SSG-34 Design of Electrical Power Systems for Nuclear Power Plants**



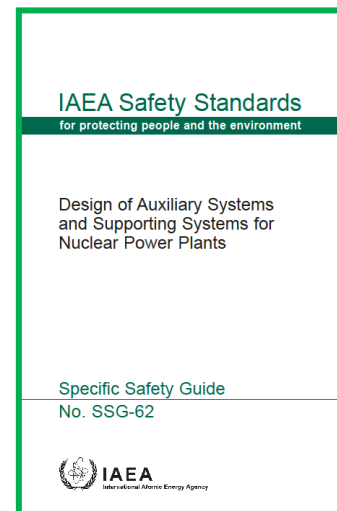
**SSG-56 Design of the Reactor Coolant System and Associated Systems for Nuclear Power Plants**



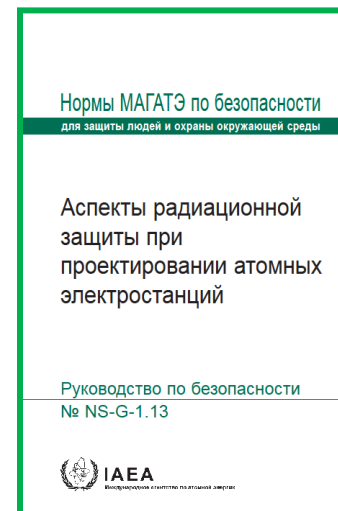
**SSG-53 Design of the Reactor Containment and Associated Systems for Nuclear Power Plants**



**SSG-52 Design of the Reactor Core for Nuclear Power Plants**

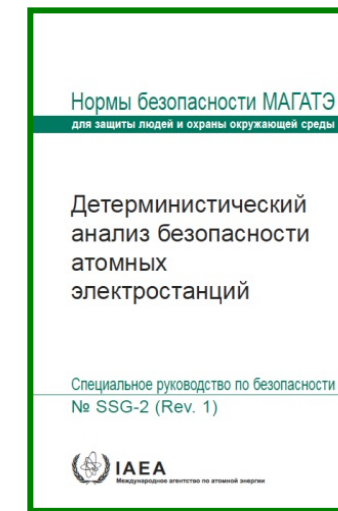


**SSG-62 Design of Auxiliary Systems and Supporting Systems for Nuclear Power Plants**

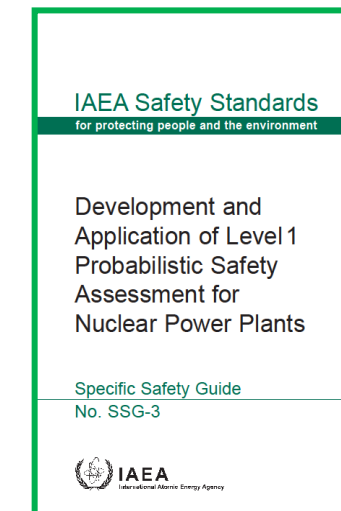


**NS-G-1.13 Radiation Protection Aspects of Design for Nuclear Power Plants**  
**UR DS524**

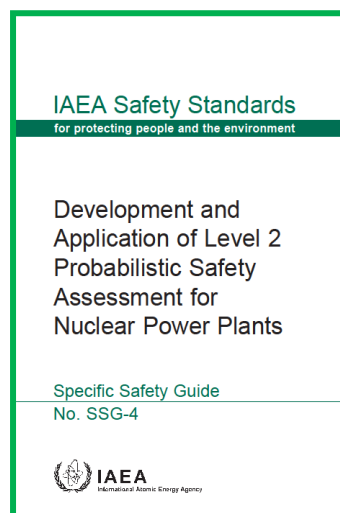
**DS508 Assessment of the Safety Approach for Design Extension Conditions and Application of the Practical Elimination Concept in the Design of Nuclear Power Plants**  
**UD**



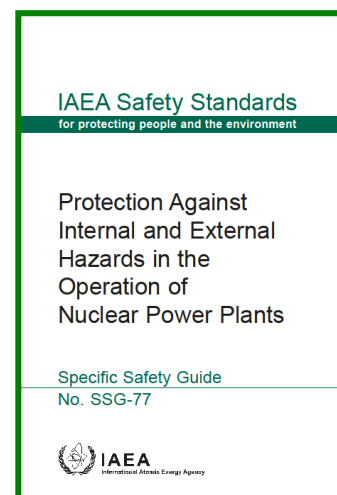
**SSG-2 (Rev. 1) Deterministic Safety Analysis for Nuclear Power Plants**



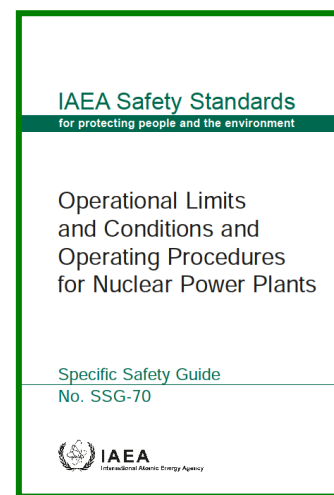
**SSG-3 Development and Application of Level 1 Probabilistic Safety Assessment for Nuclear Power Plants**  
**UR DS523**



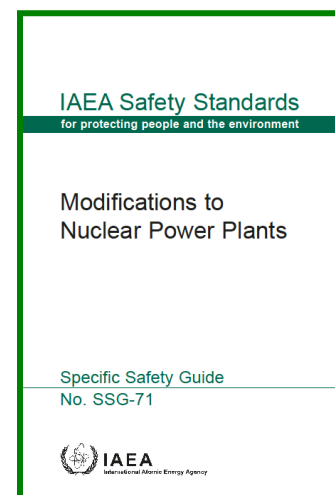
**SSG-4 Development and Application of Level 2 Probabilistic Safety Assessment for Nuclear Power Plants UR DS528**



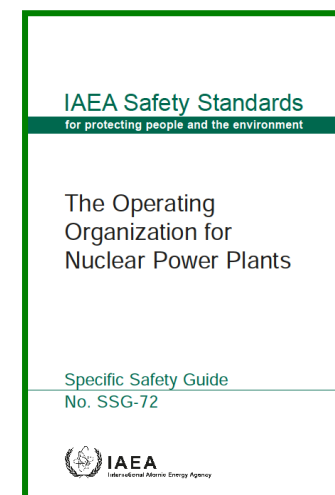
**SSG-77 Protection Against Internal and External Hazards in the Operation of Nuclear Power Plants**



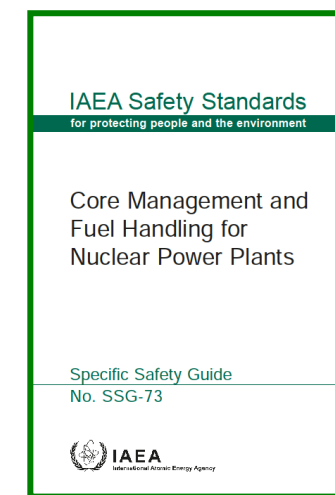
**SSG-70 Operational Limits and Conditions and operating Procedures for Nuclear Power Plants**



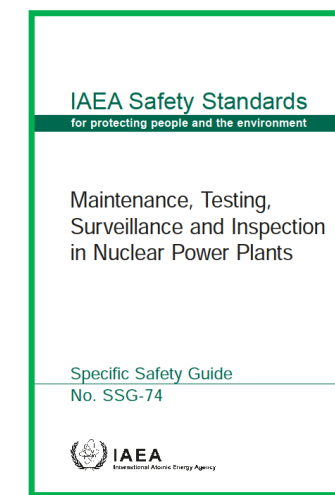
**SSG-71 Modifications to Nuclear Power Plants**



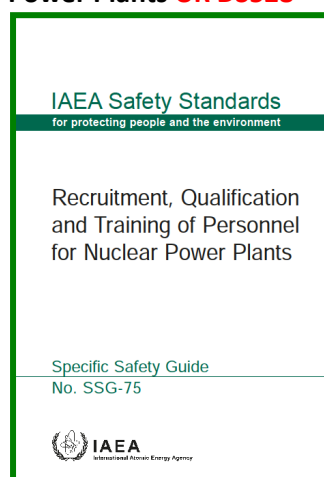
**SSG-72 The Operating Organization for Nuclear Power Plants**



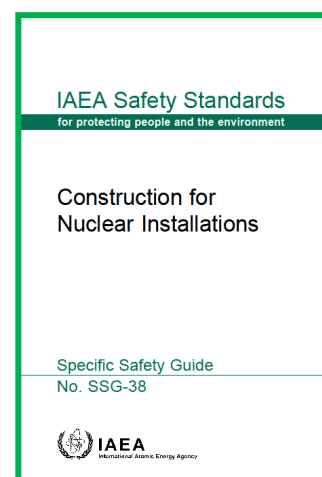
**SSG-73 Core Management and Fuel Handling for Nuclear Power Plants**



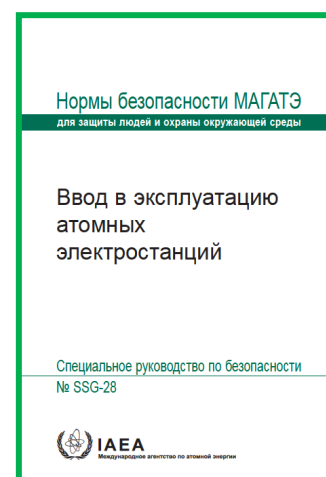
**SSG-74 Maintenance, Testing, Surveillance and Inspection in Nuclear Power Plants**



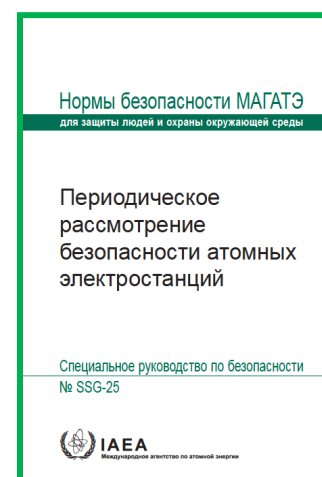
**SSG-75 Recruitment, Qualification and Training of Personnel for Nuclear Power Plants**



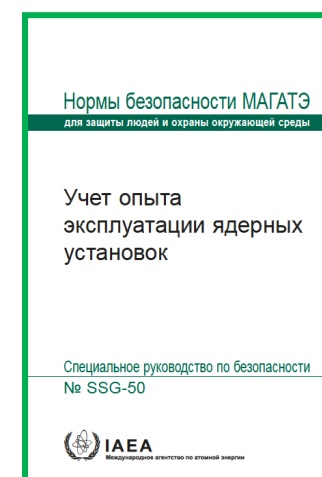
**SSG-38 Construction for Nuclear Installations**



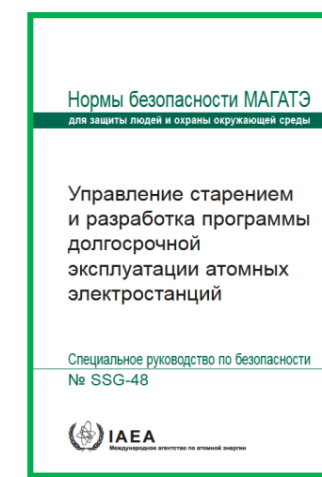
**SSG-28 Commissioning for Nuclear Power Plants**



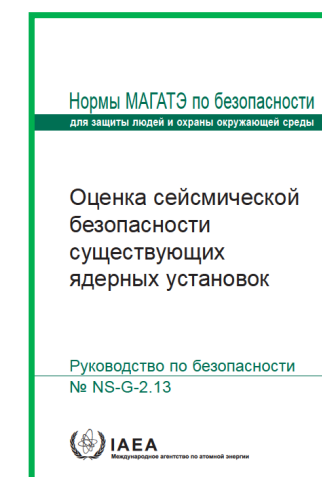
**SSG-25 Periodic Safety Review for Nuclear Power Plants UR DS535**



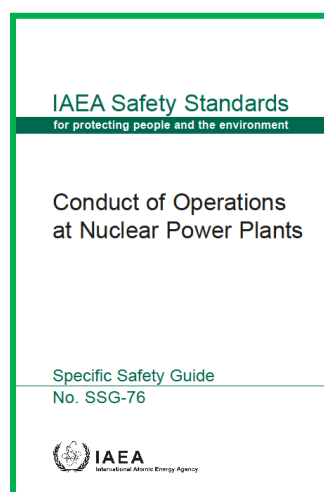
**SSG-50 Operating Experience Feedback for Nuclear Installations**



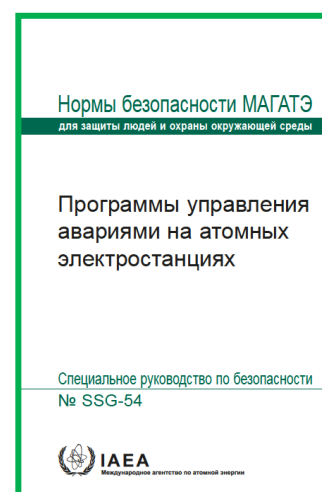
**SSG-48 Ageing Management and Development of a Programme for Long Term Operation of Nuclear Power Plants**



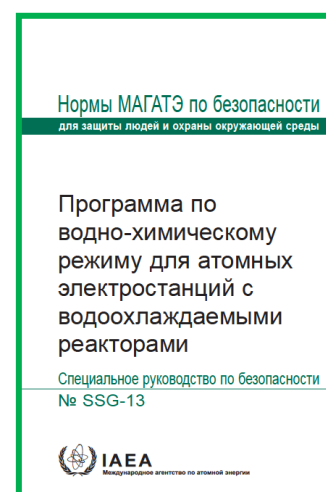
**NS-G-2.13 Evaluation of Seismic Safety for Existing Nuclear Installations UR DS522**



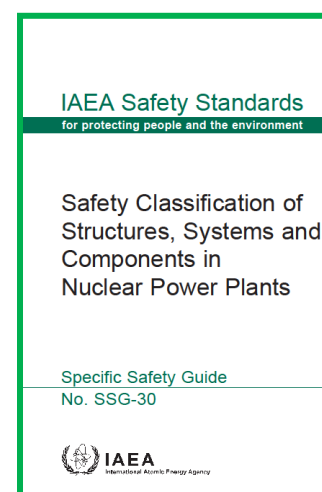
**SSG-76 Conduct of Operations at Nuclear Power Plants**



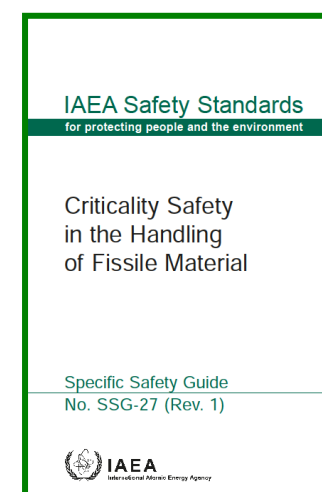
**SSG-54 Accident Management Programmes for Nuclear Power Plants**



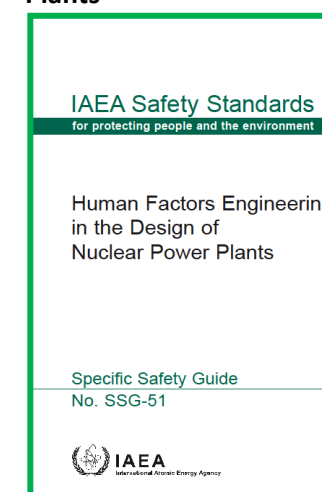
**SSG-13 Chemistry Programme for Water Cooled Nuclear Power Plants UR DS525**



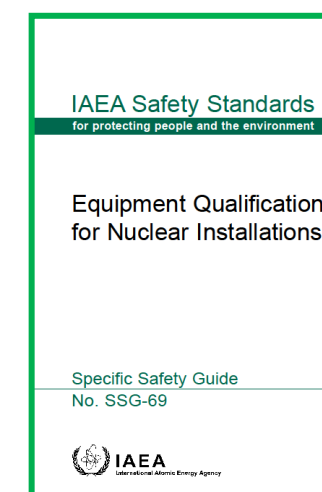
**SSG-30 Safety Classification of Structures, Systems and Components in Nuclear Power Plants**



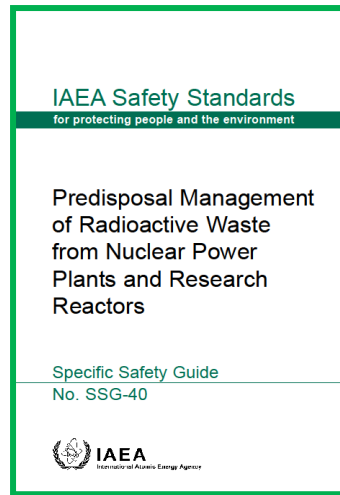
**SSG-27 (Rev. 1) Criticality Safety in the Handling of Fissile Material**



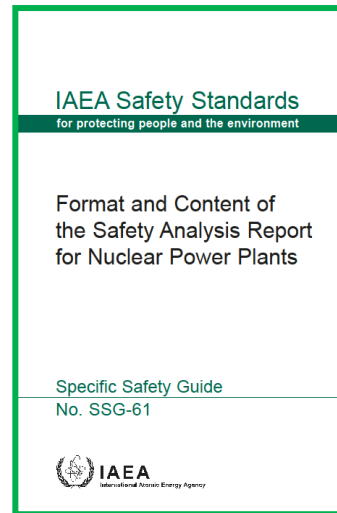
**SSG-51 Human Factors Engineering in the Design of Nuclear Power Plants**



**SSG-69 Equipment Qualification for Nuclear Installations**



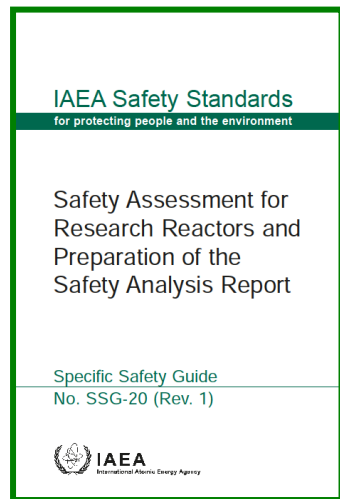
**SSG-40 Predisposal Management of Radioactive Waste from Nuclear Power Plants and Research Reactors**



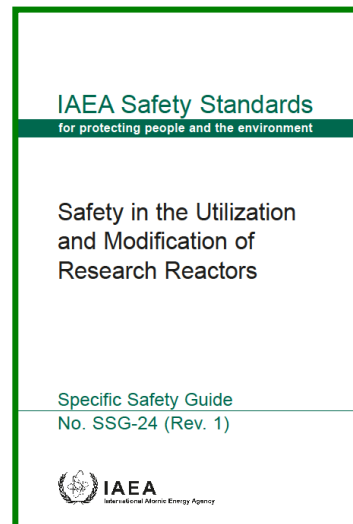
**SSG-61 Format and Content of the Safety Analysis Report for Nuclear Power Plants**

**DS537 Safety Demonstration of Innovative Technology in Power Reactor Designs UD**

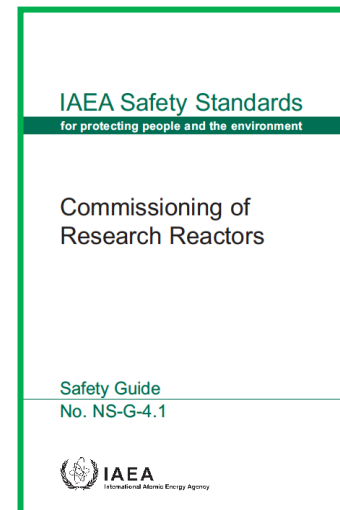
## Research Reactors



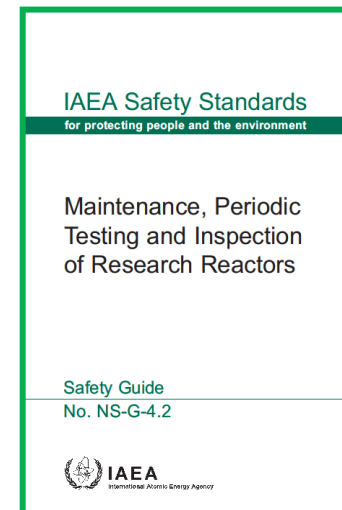
**SSG-20 (Rev. 1) Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report**



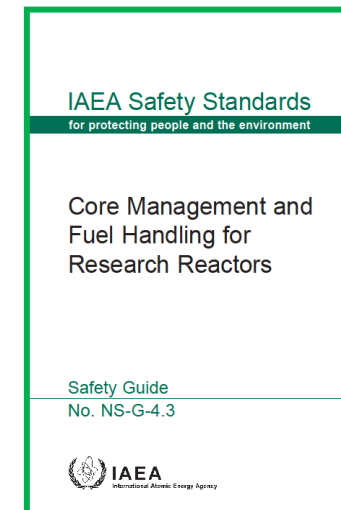
**SSG-24 (Rev. 1) Safety in the Utilization and Modification of Research Reactors**



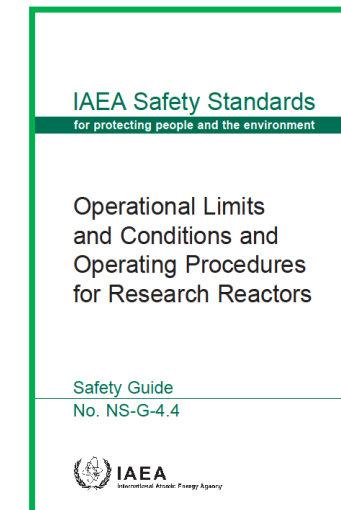
**NS-G-4.1 Commissioning of Research Reactors UR DS509**



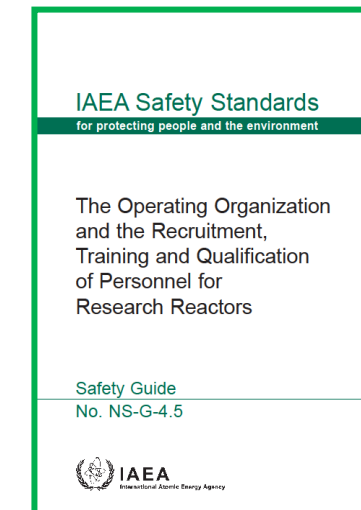
**NS-G-4.2 Maintenance, Periodic Testing and Inspection of Research Reactors UR DS509**



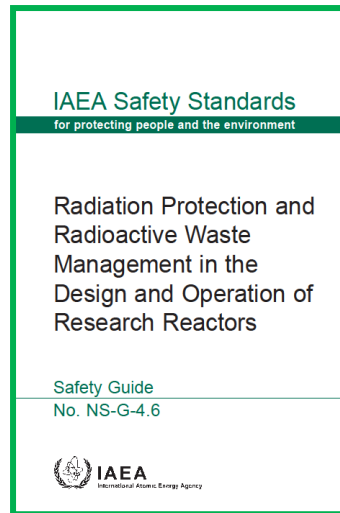
**NS-G-4.3 Core management and Fuel Handling for Research Reactors UR DS509**



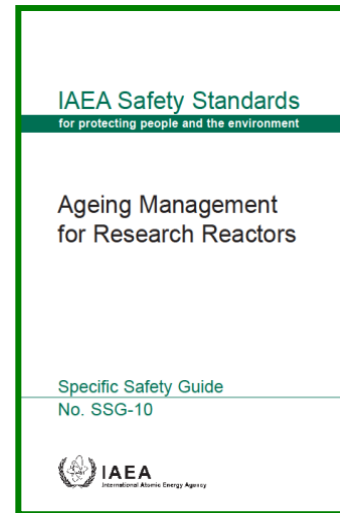
**NS-G-4.4 Operational Limits and Conditions and Operating Procedures for Research Reactors UR DS509**



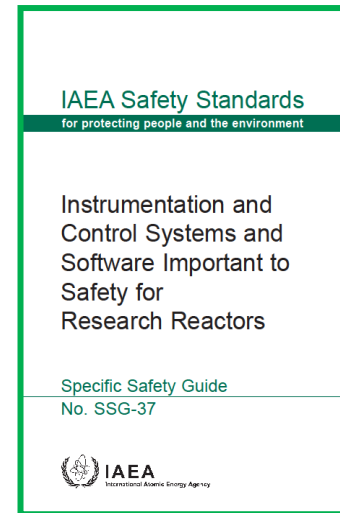
**NS-G-4.5 The Operating Organization and the Recruitment, Training and Qualification of Personnel for Research Reactors UR DS509**



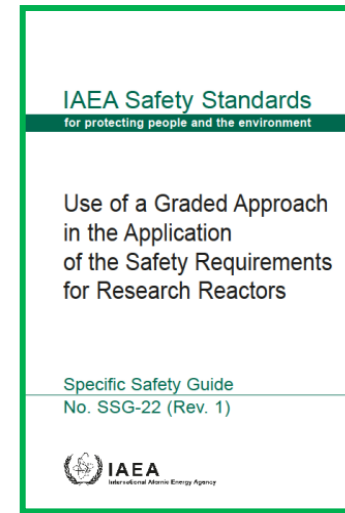
**NS-G-4.6 Radiation Protection and Radioactive Waste Management in the Design and Operation of Research Reactors**  
**UR DS509**



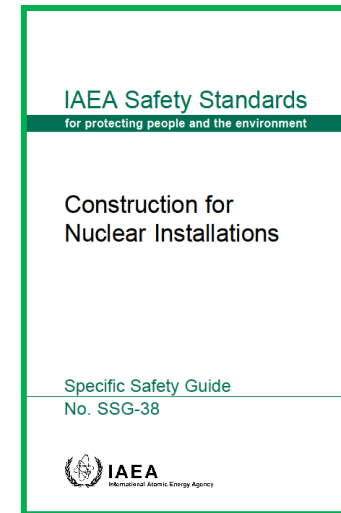
**SSG-10 Ageing Management for Research Reactors**  
**UR DS509**



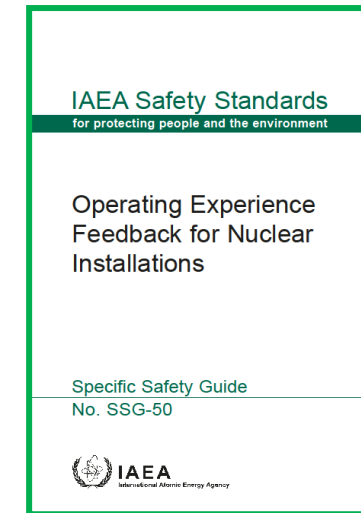
**SSG-37 Instrumentation and Control Systems and Software Important to Safety for Research Reactors**  
**UR DS509**



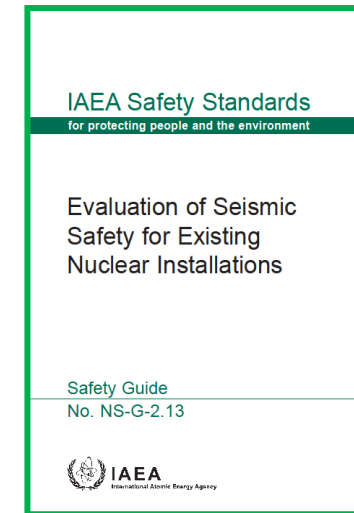
**SSG-22 (Rev. 1) Use of a Graded Approach in the Application of the Safety Requirements for Research Reactors**



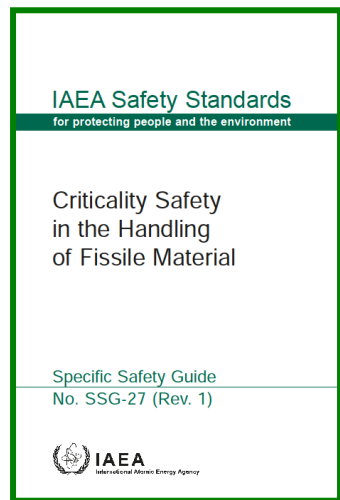
**SSG-38 Construction for Nuclear Installations**



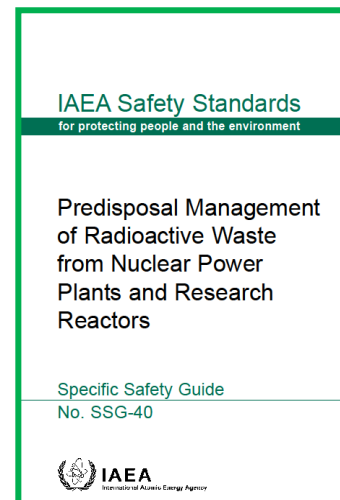
**SSG-50 Operating Experience Feedback for Nuclear Installations**



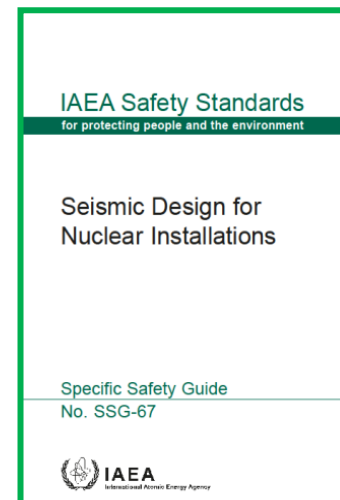
**NS-G-2.13 Evaluation of Seismic Safety for Existing Nuclear Installations**  
**UR DS522**



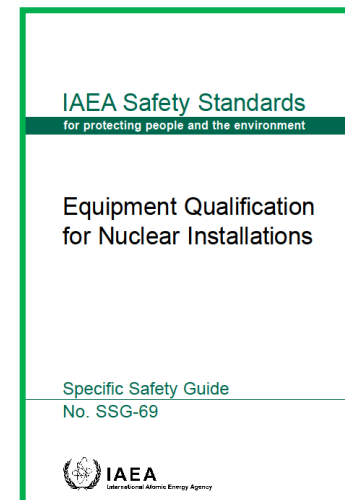
**SSG-27 (Rev. 1) Criticality Safety in the Handling of Fissile Material**



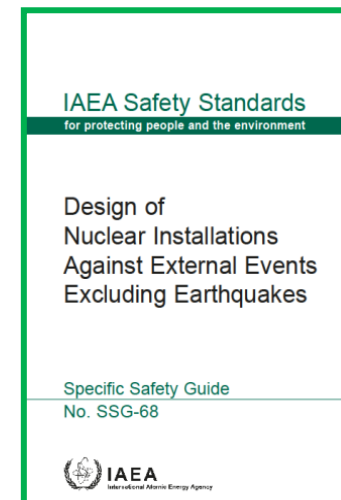
**SSG-40 Predisposal Management of Radioactive Waste from Nuclear Power Plants and Research Reactors**



**SSG-67 Seismic Design for Nuclear Installations**



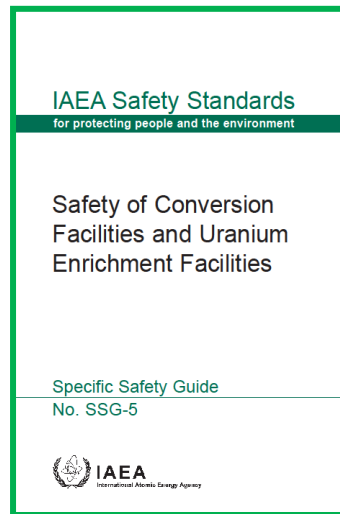
**SSG-69 Equipment Qualification for Nuclear Installations**



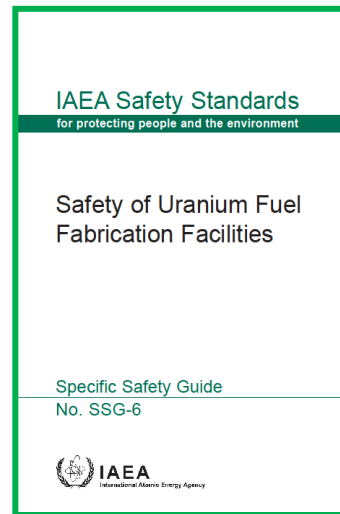
**SSG-68 Design of Nuclear Installations Against External Events Excluding Earthquakes**



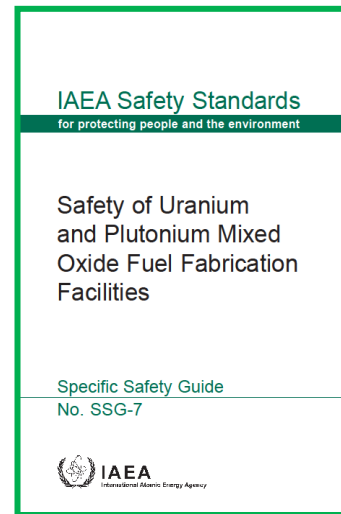
# Nuclear Fuel Cycle Facilities



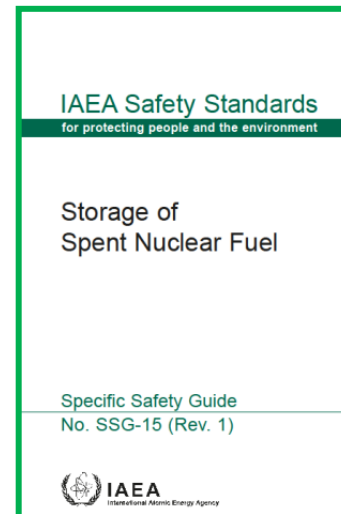
**SSG-5 Safety of Conversion Facilities and Uranium Enrichment Facilities**  
**UR DS517**



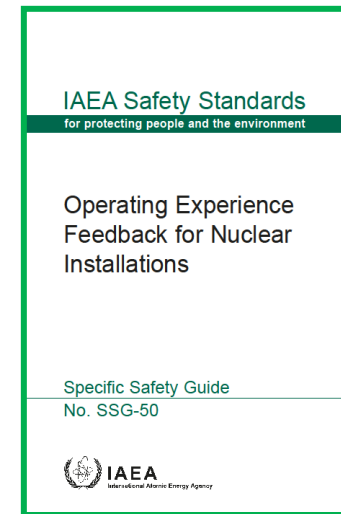
**SSG-6 Safety of Uranium Fuel Fabrication Facilities**  
**UR DS517**



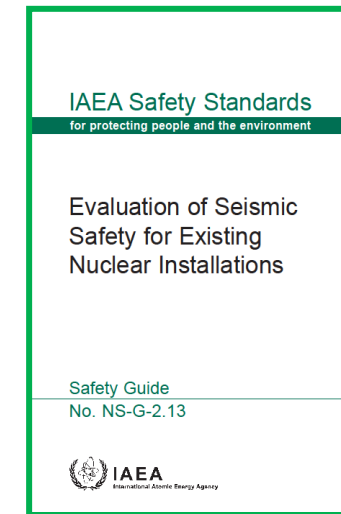
**SSG-7 Safety of Uranium and Plutonium Mixed Oxide Fuel Fabrication Facilities**  
**UR DS517**



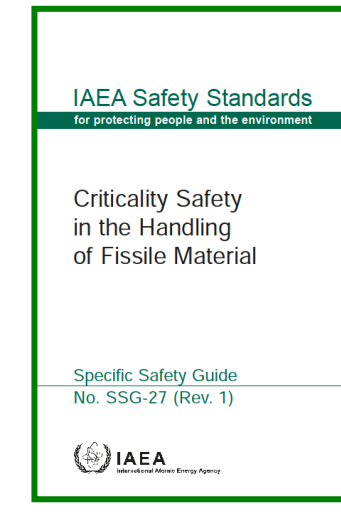
**SSG-15 (Rev. 1) Storage of Spent Nuclear Fuel**



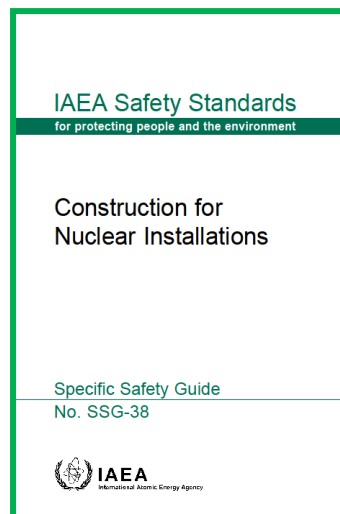
**SSG-50 Operating Experience Feedback for Nuclear Installations**



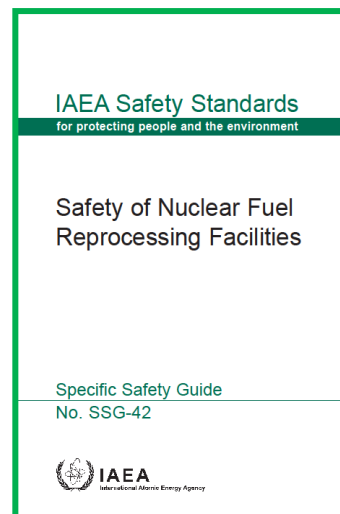
**NS-G-2.13 Evaluation of Seismic Safety for Existing Nuclear Installations**  
**UR DS522**



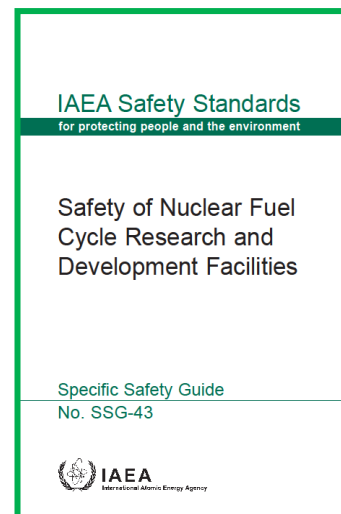
**SSG-27 (Rev. 1) Criticality Safety in the Handling of Fissile Material**



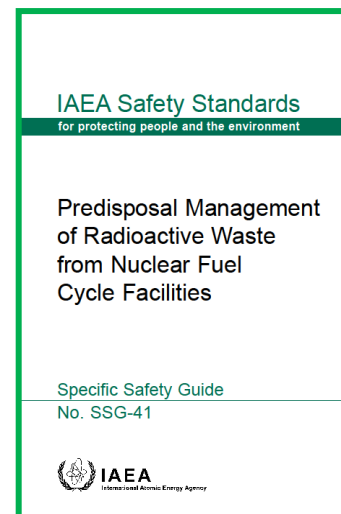
**SSG-38 Construction for Nuclear Installations**



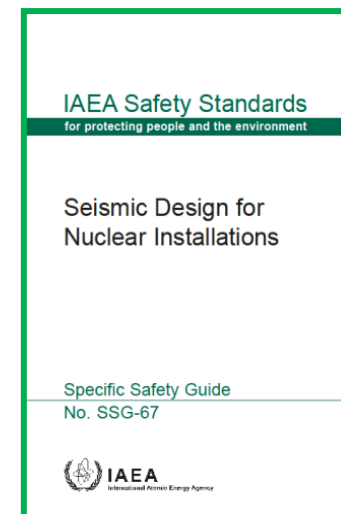
**SSG-42 Safety of Nuclear Fuel Reprocessing Facilities**  
**UR DS518**



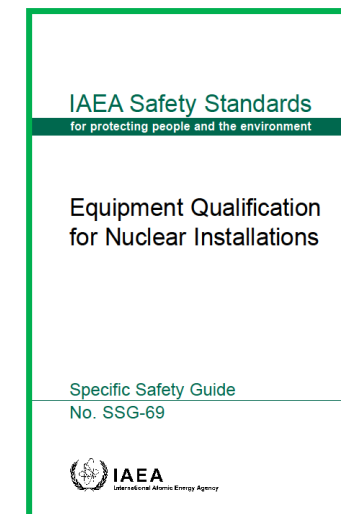
**SSG-43 Safety of Nuclear Fuel Cycle Research and Development Facilities**  
**UR DS518**



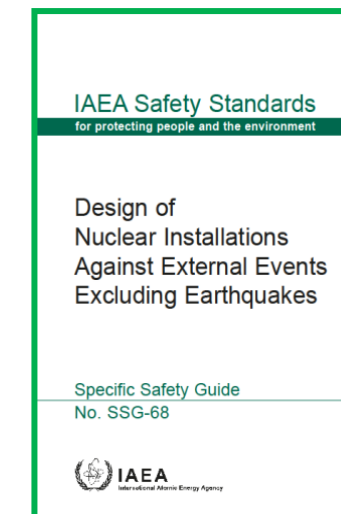
**SSG-41 Predisposal Management of Radioactive Waste from Nuclear Fuel Cycle Facilities**



**SSG-67 Seismic Design for Nuclear Installations**



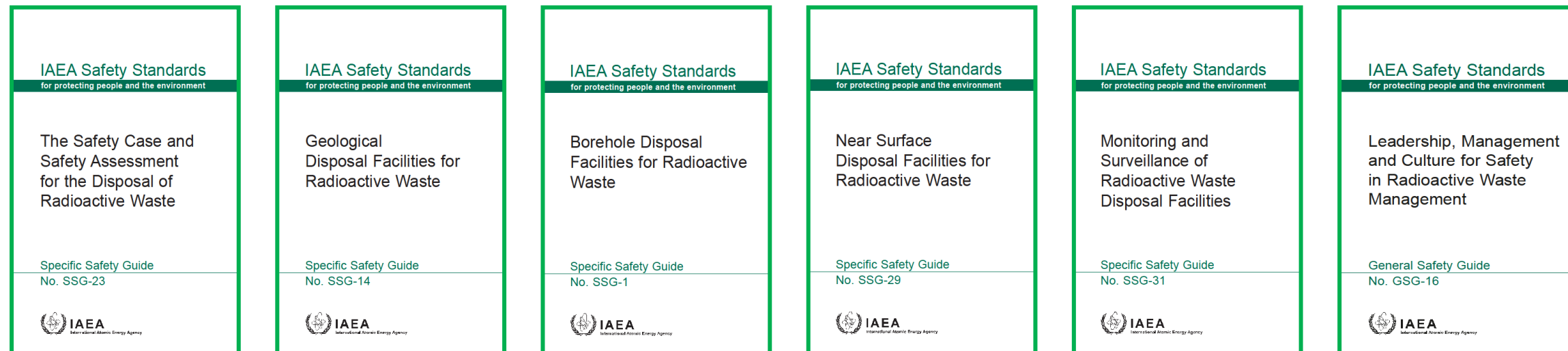
**SSG-69 Equipment Qualification for Nuclear Installations**



**SSG-68 Design of Nuclear Installations Against External Events Excluding Earthquakes**



## Radioactive Waste Disposal Facilities



**SSG-23** The Safety Case and Safety Assessment for the Disposal of Radioactive Waste

**SSG-14** Geological Disposal Facilities for Radioactive Waste

**SSG-1** Borehole Disposal Facilities for Radioactive Waste **UR DS512**

**SSG-29** Near Surface Disposal Facilities for Radioactive Waste

**SSG-31** Monitoring and Surveillance of Radioactive Waste Disposal Facilities

**GSG-16** Leadership, Management and Culture for Safety in Radioactive Waste Management

## Transport of Radioactive Material



**SSG-26 (Rev. 1)** Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material (2018 Edition)

**SSG-65** Preparedness and Response for a Nuclear or Radiological Emergency involving the Transport of Radioactive Material

**TS-G-1.3** Radiation Protection Programmes for the Transport of Radioactive Material **UR DS521**

**TS-G-1.4** The Management System for the Safe Transport of Radioactive Material **UR DS530**

**TS-G-1.5** Compliance Assurance for the Safe Transport of Radioactive Material **UR DS515**

**SSG-33 (Rev. 1)** Schedules of Provisions of the IAEA Regulations for the Safe Transport of Radioactive Material (2018 Edition)

**SSG-66** Format and Content of the Package Design Safety Report (PDSR) for the Transport of Radioactive Material