

**AKKUYU NÜKLEER SANTRALİNİN LİSANSLANMASINDA ESAS ALINACAK  
MEVZUAT, KILAVUZ VE STANDARTLAR LİSTESİ**

**(List of Licensing Basis for Akkuyu Nuclear Power Plant)**

**Revision 1**

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**i. TAEK Regulations**

1	Law on Turkish Atomic Energy Authority (Türkiye Atom Enerjisi Kurumu Kanunu), No: 2690, 9/7/1982	1982	General requirements
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**Decree**

1	Decree on Licensing of Nuclear Installations (Nükleer Tesislere Lisans Verilmesine İlişkin Tüzük), No: 83/7405, 18/11/1983	1983	General requirements
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**Regulations**

1	Regulation on Working Procedures of Atomic Energy Commission (Atom Enerjisi Komisyonu Çalışma Esasları Yönetmeliği), No: 17927, 13/1/1983	1983	General requirements
2	Regulation on the Establishment and Working Procedures of Advisory Committee on Nuclear Safety (Nükleer Güvenlik Danışma Komitesinin Kuruluş ve Çalışma Yöntemleri Yönetmeliği), No: 23106, 10/9/1997	1997	General requirements
3	Regulation on Radiation Safety (Radyasyon Güvenliği Yönetmeliği), No: 18861, 7/9/1985	1985	General requirements
4	Regulation on Physical Protection of Nuclear Materials and Nuclear Facilities (Nükleer Tesislerin ve Nükleer Maddelerin Fiziksel Korunması Yönetmeliği), No: 28300, 22/5/2012	2012	General requirements
5	Regulation on Accounting for and Control of Nuclear Materials (Nükleer Madde Sayım ve Kontrol Yönetmeliği), No: 28308, 30/5/2012	2012	General requirements
6	Regulation on Basic Requirements on Quality Management for the Safety of Nuclear Installations (Nükleer Tesislerin Güvenliği için Kalite Yönetimi Temel Gereklere Yönetmeliği), No: 26642, 13/9/2007	2007	General requirements

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7	Regulation on Nuclear Safety Inspections and Enforcement (Nükleer Güvenlik Denetimleri ve Yaptırımları Yönetmeliği), No: 26642, 13/9/2007	2007	General requirements
8	Regulation on Safe Transport of Radioactive Material (Radyoaktif Maddenin Güvenli Taşınması Yönetmeliği), No: 25869, 8/7/2005	2005	General requirements
9	Regulation on Nuclear and Radiological National Emergency Preparedness (Nükleer ve Radyolojik Tehlike Durumu Ulusal Uygulama Yönetmeliği), No: 23934, 15/1/2000	2000	General requirements
10	Regulation on Specific Principles for Safety of Nuclear Power Plants (Nükleer Güç Santrallerinin Güvenliği için Özel İlkeler Yönetmeliği), No: 27027, 17/10/2008	2008	General requirements
11	Regulation on Design Principles for Safety of Nuclear Power Plants (Nükleer Güç Santrallerinin Güvenliği için Tasarım İlkeleri Yönetmeliği), No: 27027, 17/10/2008	2008	Design
12	Regulation on Site of a Nuclear Power Plant (Nükleer Güç Santrali Sahalarına İlişkin Yönetmelik), No: 27176, 21/3/2009	2009	Engineering survey
13	Regulation on Issuing Document Base to Export Permission for Nuclear and Nuclear Dual Use Items (Nükleer ve Nükleer Çift Kullanımlı Eşyaların İhracatında İzne Esas Olacak Belgenin Verilmesine İlişkin Yönetmelik), No: 26642, 13/9/2007	2007	General requirements
14	Regulation on Protection of Outside Workers in Controlled Areas from the Risks of Ionizing Radiation (Kontrollü Alanlarda Çalışan Harici Görevlilerin İyonlaştırıcı Radyasyondan Kaynaklanabilecek Risklere Karşı Korunmasına Dair Yönetmelik), No: 27968, 18/6/2011	2011	Commissioning & Operation

## ii. Other Turkish Regulations

### Laws

1	Environmental Law (Çevre Kanunu), No: 2872, 9/8/1983	1983	General requirements
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2	Law on Establishment and Duties of the Disaster and Emergency Management Presidency (Afet ve Acil Durum Yönetimi Başkanlığı Teşkilat ve Görevleri Hakkında Kanun), No: 5902, 29/5/2009	2009	General requirements
3	Law on Work Permits for Foreigners (Yabancıların Çalışma İzinleri Hakkında Kanun), No: 4817, 27/2/2003	2003	General requirements
4	Aquatic Products Law (Su Ürünleri Kanunu), No: 1380, 22/3/1971	1971	General requirements
5	Agriculture Law (Tarım Kanunu), No: 5488, 18/4/2006	2006	General requirements
6	Law of Public Works - Construction Law - Law on Land Development and Control (İmar Kanunu), No: 3194, 3/5/1985	1985	General requirements
7	Settlement Law (İskan Kanunu), No: 5543, 19/9/2006	2006	General requirements
8	Law on Military Forbidden Zones and Security Areas (Askeri Yasak Bölgeler ve Güvenlik Bölgeleri Kanunu), No: 2565, 18/12/1981	1981	General requirements
9	Law on Protection Against Floods and Inundations (Taşkın Suları ve Su Baskınlarına Karşı Korunma Kanunu), No: 4373, 14/1/1943	1943	General requirements
10	Law on Establishment and Duties of the General Directorate of State Hydraulic Works (Devlet Su İşleri Genel Müdürlüğü'nün Teşkilat ve Görevleri Hakkında Kanun), No: 6200, 18/12/1953	1953	General requirements
11	Ground Water Law (Yeraltı Suları Hakkında Kanunu), No: 167, 16/12/1960	1960	General requirements
12	Law on Establishment and Duties of the Ministry of Interior (İçişleri Bakanlığı Teşkilat ve Görevleri Hakkında Kanun), No: 3152, 14/02/1985	1985	General requirements
13	Law on Civil Defense (Sivil Savunma Kanunu), No: 7126, 9/6/1958	1958	General requirements
14	Identity Notification Law (Kimlik Bildirme Kanunu), No: 1774, 26/06/1973	1973	General requirements

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15	Law on Private Security Services (Özel Güvenlik Hizmetlerine Dair Kanun), No: 5188, 10/06/2004	2004	General requirements
16	Residence and Travel for Foreigners in Turkey (Yabancıların Türkiye'de İkamet ve Seyahatleri Hakkında Kanun), No: 5683, 15/07/1950	1950	General requirements
17	Passport Law (Pasaport Kanunu), No: 5682, 15/07/1950	1950	General requirements
18	Law on Response to Emergencies and Compensation of Losses in Case of Pollution of Marine Environment due to Petroleum and Other Harmful Substances (Deniz Çevresinin Petrol ve Diğer Zararlı Maddelerle Kirlenmesinde Acil Durumlarda Müdahale ve Zararların Tazmini Esaslarına Dair Kanun), No: 5312, 3/3/2005	2005	General requirements
19	Law on Preparation and Implementation of Technical Regulations on Products (Ürünlere İlişkin Teknik Mevzuatın Hazırlanması ve Uygulanmasına Dair Kanun), No: 4703, 29/6/2001	2001	General requirements
20	Law on Construction Inspection (Yapı Denetimi Hakkında Kanun), No: 4708, 29/6/2001	2001	General requirements
21	Law on Road (Land, Highway) Transport (Karayolu Taşıma Kanunu), No: 4925, 10/07/2003	2003	General requirements
22	Turkish Criminal (Penal) Law (Türk Ceza Kanunu), No: 5237, 26/9/2004	2004	General requirements
23	Road (Highway) Traffic Law (Karayolları Trafik Kanunu), No: 2918, 13/10/1983	1983	General requirements
24	Coastal Law (Kıyı Kanunu), No: 3621, 4/4/1990	1990	General requirements
25	Law on Provincial Administration (İl İdaresi Kanunu), No: 5442, 10/06/1949	1949	General requirements
26	Code of Criminal Procedure (Ceza Muhakemesi Kanunu), No: 5271, 17/12/2004	2004	General requirements
27	Law on Security Investigations, Return of the Rights of Civil Servants That are Dismissed for Some Reasons and People That are not Taken for Public Office Because of Some Reasons Given and the Law Amending the Martial Law No. 1402 (Güvenlik Soruşturması, Bazı Nedenlerle Görevlerine Son Verilen Kamu Personeli İle Kamu Görevine Alınmayanların Haklarının Geri Verilmesine Ve 1402 Numaralı Sıkıyönetim Kanununda Değişiklik Yapılmasına İlişkin Kanun), No: 4045, 26/10/1994	1994	General requirements

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### Decrees

1	Decree on Rules and Procedures for Production, Import, Transport, Storage, Sales, Use, Disposal and Inspection of explosives and hunting equipment (Tekel Dışı Bırakılan Patlayıcı Maddelerle Av Malzemesi ve Benzerlerinin Üretimi, İthalı, Taşınması, Saklanması, Depolanması, Satışı, Kullanılması, Yok Edilmesi, Denetlenmesi Usul ve Esaslarına İlişkin Tüzük), No: 87/12028, 14/08/1987	1987	General requirements
2	Decree on Arrangements and Measures Related to Civil Defense (Sivil Savunma İle İlgili Teşkil ve Tedbirler Tüzüğü), No: 6/3150, 5/6/1964	1964	General requirements

### Regulations

1	Regulation on the Principles of Disaster Planning and Emergency Response Organization (Afetlere İlişkin Acil Yardım Teşkilatı ve Planlama Esaslarına Dair Yönetmelik), No: 88/12777,1/4/1988	1988	General requirements
2	Regulation on Shelters (Sığınak Yönetmeliği), No: 19910, 25/8/1988	1988	General requirements
3	Regulation on Missions of Chemical, Biological, Radiological and Nuclear Hazards (Kimyasal, Biyolojik, Radyolojik ve Nükleer Tehlikelere Dair Görev Yönetmeliği), No: 28281,3/5/2012	2012	General requirements
4	Regulation on the Employment of Foreign Personnel in Foreign Direct Investments (Doğrudan Yabancı Yatırımlarda Yabancı Personel İstihdamı Hakkında Yönetmelik), No: 25214, 29/8/2003	2003	General requirements
5	Regulation on Electricity Market Network (Elektrik Piyasası Şebeke Yönetmeliği), No: 25001, 22/1/2003	2003	General requirements
6	Regulation on Supply Reliability and Quality of Electric Transmission System (Elektrik İletim Sistemi Arz Güvenilirliği ve Kalitesi Yönetmeliği), No: 25639, 10/11/2004	2004	General requirements

Item	Title and designation	Issue date	Stages
7	Regulation on High Current Electricity Facilities (Elektrik Kuvvetli Akım Tesisleri Yönetmeliği), No: 24246,30/11/2000	2000	General requirements
8	Regulation on Fishery Products (Su Ürünleri Yönetmeliği), No: 22223, 10/3/1995	1995	General requirements
9	Regulation on Road Traffic (Karayolları Trafik Yönetmeliği), No: 23053, 18/7/1997	1997	General requirements
10	Regulation on Parking (Otopark Yönetmeliği ), No: 21624, 1/7/1993	1993	General requirements
11	Regulation on Internal Electric Wiring (Elektrik İç Tesisleri Yönetmeliği), No: 18565, 4/11/1984	1984	General requirements
12	Regulation on Buildings to be Constructed on the Earthquake Regions (Deprem Bölgelerinde Yapılacak Binalar Hakkında Yönetmelik), No: 26454, 6/3/2007	2007	General requirements
13	Regulation on Environmental Impact Assessment (Çevresel Etki Değerlendirmesi Yönetmeliği), No: 26939, 17/7/2008	2008	General requirements
14	Regulation on the Protection of Groundwater Against Pollution and Degradation (Yeraltı Sularının Kirlenmeye Ve Bozulmaya Karşı Korunması Hakkında Yönetmelik), No: 28257, 7/4/2012	2012	General requirements
15	Regulation on Environmental Permits and Licenses to be taken in Accordance with Environmental Law, (Çevre Kanunu'nca Alınması Gereken İzin ve Lisanslar Hakkında Yönetmelik), No: 27214, 29/4/2009	2009	General requirements
16	Regulation on Opening Workplace and Working Licenses (İşyeri Açma ve Çalışma Ruhsatlarına İlişkin Yönetmelik), No: 2005/9207, 14/7/2005	2005	General requirements
17	Regulation on Fire Protection of Buildings (Binaların Yangından Korunması Hakkında Yönetmelik), No: 26735 19.12.2007	2007	General requirements
18	Regulations on Firearms, Knives and Other Tools (Ateşli Silahlar ve Bıçaklar ile Diğer Aletler Hakkında Yönetmelik), No: 91/1779, 21/3/1991	1991	General requirements

Item	Title and designation	Issue date	Stages
19	Regulation on Implementation of Identity Reporting (Kimlik Bildirme Kanununun Uygulanması ile İlgili Yönetmelik), No: 14944, 13/7/1974	1974	General requirements
20	Regulation on Implementation of Law on Work Permits for Foreigners (Yabancıların Çalışma İzinleri Hakkında Kanunun Uygulama Yönetmeliği), No: 25214, 29/8/2003	2003	General requirements
21	Regulation on Municipal Fire Department (Belediye İtfaiye Yönetmeliği ), No: 26326, 21/10/2006	2006	General requirements
22	Regulation on Implementation of the Law on Emergency Response and Compensation Principles in Case of Pollution of the Marine Environment by Oil and Other Harmful Substances (5312 sayılı "Deniz Çevresinin Petrol ve Diğer Zararlı Maddelerle Kirlenmesinde Acil Durumlarda Müdahale ve Zararların Tazmini Esaslarına Dair Kanun"un Uygulama Yönetmeliği), No: 26326, 21/10/2006 (26150 26.04.2006)	2006	General requirements
23	Regulation on Taking the Waste from the Ships and Control of Wastes (Gemilerden Atık Alınması ve Atıkların Kontrolü Yönetmeliği ), No: 25682, 26/12/2004	2004	General requirements
24	Regulation on Control of Pollution from Hazardous Substances in Water and its Environment (Tehlikeli Maddelerin Su ve Çevresinde Neden Olduğu Kirliliğin Kontrolü Yönetmeliği), No: 26005, 26/11/2005	2005	General requirements
25	Regulation on Control of Soil Pollution and Sites Polluted by Point Source (Toprak Kirliliğinin Kontrolü ve Noktasal Kaynaklı Kirlenmiş Sahalara Dair Yönetmelik), No: 27605, 8/6/2010	2010	General requirements
26	Regulation on Water Intended for Human Consumption (İnsani Tüketim Amaçlı Sular Hakkında Yönetmelik), No: 25730, 17/2/2005	2005	General requirements
27	Regulation on Road (Highway) Traffic (Karayolu Taşıma Yönetmeliği), 27255, 11/6/2009	2009	General requirements
28	Regulation on Implementation of Coastal Law (3621 Sayılı Kıyı Kanununun Uygulanmasına Dair Yönetmelik), No: 20594, 3/8/1990	1990	General requirements
29	Regulation on Construction Materials (Yapı Malzemeleri Yönetmeliği), No: 24870, 8/9/2002	2002	General requirements
30	Regulation on Control of Excavation Soil, Construction and Demolition Waste (Hafriyat Toprağı, İnşaat ve Yıkıntı Atıklarının Kontrolü Yönetmeliği ), No: 25406, 18/3/2004	2004	General requirements



Item	Title and designation	Issue date	Stages
31	Regulation on Electricity Facility Projects (Elektrik Tesisleri Proje Yönetmeliği), No: 27434, 16/12/2009	2009	General requirements
32	Regulation on Grounding of Electrical Installations, (Elektrik Tesislerinde Topraklamalar Yönetmeliği), No: 24500, 21/8/2001	2001	General requirements
33	Regulation on Energy Performance of Buildings (Binalarda Enerji Performansı Yönetmeliği), No: 27075, 5/12/2008	2008	General requirements
34	Regulation on Military Forbidden Zones and Security Areas (Askeri Yasak Bölgeler ve Güvenlik Bölgeleri Yönetmeliği), No: 18033, 30/04/1983	1983	General requirements
35	Regulation on Implementation of Law on Private Security Services (Özel Güvenlik Hizmetlerine Dair Kanunun Uygulanmasına İlişkin Yönetmelik), No: 25606, 07/10/2004	2004	General requirements
36	Regulation on Protection Against Sabotages (Sabotajlara Karşı Koruma Yönetmeliği), No: 20033, 28/12/1988	1988	General requirements
37	Issued by the Council of Ministers No. 6/3048 "Principles About the Security of Classified Document and the Gadgets" (6/3048 sayılı Bakanlar Kurulu kararı ile yürürlüğe konulan "Gizlilik Dereceli Evrak ve Gerecin Güvenliği Hakkında Esaslar"), 13/05/1964,	1964	General Requirements
38	Regulation on Security Investigations and the Archive Research (Güvenlik Soruşturması ve Arşiv Araştırması Yönetmeliği), No: 2000/284, 14/02/2000	2000	General Requirements

## 2. IAEA Fundamentals and Requirements

### Safety Fundamentals

1	Fundamental Safety Principles, Series No. SF-1, 2006	2006	General requirements
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### General Safety Requirements

1	Preparedness and Response for a Nuclear or Radiological Emergency Safety Requirements, Series No. GS-R-2, 2002	2002	Operation
2	The Management System for Facilities and Activities Safety Requirements, Series No. GS-R-3, 2006	2006	General requirements

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3	Governmental, Legal and Regulatory Framework for Safety General Safety Requirements Part 1, Series No. GSR Part 1, 2010	2010	General requirements
4	Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards - Interim Edition General Safety Requirements Part 3 Series No. GSR Part 3 (Interim), 2011	2011	General requirements
5	Safety Assessment for Facilities and Activities General Safety Requirements Part 4, Series No. GSR Part 4, 2009	2009	General requirements
6	Predisposal Management of Radioactive Waste General Safety Requirements Part 5, Series No. GSR Part 5, 2009	2009	Design & Operation
7	Remediation of Areas Contaminated by Past Activities and Accidents Safety Requirements, Series No. WS-R-3, 2003.	2003	Operation
8	Decommissioning of Facilities Using Radioactive Material Safety Requirements, Series No. WS-R-5, 2006	2006	Decommissioning

### Specific Requirements

1	Safety of Nuclear Power Plants: Design, Series No. SSR-2/1, 2012	2012	Design
2	Safety of Nuclear Power Plants: Commissioning and Operation, Series No. SSR-2/2, 2011	2011	Commissioning & Operation
3	Site Evaluation for Nuclear Installations Safety Requirements, Series No. NS-R-3, 2003	2003	Engineering survey
4	Disposal of Radioactive Waste, SSR-5, 2011	2011	Operation
5	Regulations for the Safe Transport of Radioactive Material, 2009 Edition, Series No. TS-R-1, 2009	2009	General requirements

### 3. Russian Federation Regulations

#### Laws

1	On the use of atomic energy, with amendments and supplements No.170-FZ, 1995	1995	General requirements
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<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
2	On the protection of the population and territories against emergencies of natural and man-caused origin No.68-FZ,	1994	General requirements
3	On fire safety, with amendments No.69-FZ, 1994	1994	General requirements
4	On ecologic review, with amendments No.174-FZ, 1995	1995	General requirements
5	On radiation safety of the population No.3-FZ, 1996	1996	General requirements
6	On industrial safety of hazardous production facilities, with amendments and supplements No.116-FZ, 1997	1997	General requirements
7	On special ecological programs of remediation of territories with radioactive contamination No.92-FZ, 2001	2001	General requirements
8	On the protection of the environment No.7- FZ, 2002	2002	General requirements
9	On technical regulation No.184- FZ, 2002	2002	General requirements
10	On licensing of some kinds of activities No.128- FZ, 2001	2001	General requirements
11	Safety of buildings and structures Technical regulations, No.384-FZ dd.30.12.2009	2009	General requirements
12	Technical procedure on fire safety requirements No123-FZ dd.22.07.2008	2008	General requirements
13	On ensuring of measurements unification, No. 102-FZ, d.d. 26.06.2008	2008	General requirements
14	Technical regulations on safety of low-voltage equipment, No. FZ-347, d.d. 27.12.2009	2009	General requirements

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15	On safety of hydrotechnical structures, No. 117-FZ d.d. 21.07.97	1997	General requirements
16	On Countering Terrorism No. 35-FZ, 2006	2006	Operation
17	On health-epidemiological well being of population No. 52-FZ, 1999	1999	General requirements
18	On Radioactive Waste Treatment, № 190-FZ of 11.07.2011	2011	General requirements

#### **Documents of the RF President**

1	On the control of export from the Russian Federation of nuclear material, equipment and production technologies No.312, 1992	1992	Operation
2	On the operating organization of nuclear power plants of the Russian Federation No.1055, 1992	1992	Operation
3	On the fulfillment by the Russian Federation of intergovernmental agreements on cooperation in construction of nuclear power plants abroad No.472, 1993	1993	General requirements
4	On the perfection of the management of the enterprises of nuclear fuel cycle No.166, 1996	1996	Operation
5	On the approval of the List of nuclear material, equipment, special non-nuclear material and relevant production technologies, subject to export control No.202, 1996	1996	Operation
6	On the guarantees of safe and sustainable functioning of nuclear power industry in the Russian Federation No.1012, 1996	1996	Operation

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
7	On federal executive authorities authorized to perform state regulation of safety in using atomic energy No.26, 1997	1997	Operation
8	On the perfection of state management in the area of fire safety No.1309, 2001	2001	Operation
9	On special commission on the issues of import of irradiated fuel assemblies of foreign manufacture to the territory of the Russian Federation No. 828, 2001	2001	Operation
10	On the approval of the Statute of the special commission on the issues of import of irradiated fuel assemblies of foreign manufacture to the territory of the Russian Federation and its composition No. 858, 2003	2003	Operation

#### **Documents of the RF Government**

1	Regulations on the order of import to Russia of spent fuel assemblies of nuclear reactors, N 418 of July 11, 2003	2003	Operation
2	On the approval of the Regulation of export from the Russian Federation and import to the Russian Federation of radioactive substances and items on the basis thereof No. 291, 1996	1996	Operation
3	On the measures for the fulfillment of the Decree of the President of the Russian Federation of February 8, 1996 No. 166 “On the perfection of the management of the enterprises of nuclear fuel cycle” No. 677, 1996	1996	Operation
4	On the routine for the development of radiation hygiene certificates “passports” of organizations and territories No. 93, 1997	1997	Operation

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5	On the list of medical contra-indications and the list of positions which are covered by the above contra-indications, as well as on the requirements for performing medical examinations and psycho-physiological tests of the workers of nuclear facilities No. 233, 1997	1997	Operation
6	On the approval of the list of the positions of the workers of nuclear facilities who must get the permission of the Federal Supervision of Russia for nuclear and radiation safety for the right of performing works in the area of atomic energy use No. 240, 1997	1997	Commissioning & Operation
7	On the approval of the Rules of physical protection of nuclear material, nuclear installations and nuclear material storage facilities No. 456,2007	2007	General requirements
8	On the Rules for decision-making on siting and construction of nuclear facilities, radiation sources and storage facilities No. 306, 1997	1997	General requirements
9	On the approval of the Regulation on licensing of activities in the area of atomic energy use No. 865, 1997	1997	General requirements
10	On the approval of the Regulation on the development and approval of federal norms and rules in the area of use of atomic energy and the list of federal norms and rules in the area of use of atomic energy No. 1511, 1997	1997	General requirements
11	On the use of technical devices at hazardous production facilities No. 1540, 1998	1998	General requirements
12	On export and import of nuclear material, equipment, special non-nuclear material and relevant production technologies No. 973, 2000	2000	Operation

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13	On the approval of the Regulation on executing control of foreign trade activities in relation to the dual-purpose equipment and materials as well as relevant production technologies used for nuclear purposes No. 462, 2001	2001	General requirements
14	On the approval of the Statute of the Federal Environmental, Industrial and Nuclear Supervision Service No. 401, 2002	2002	General requirements
15	On the routine of import to the Russian Federation of irradiated fuel assemblies of nuclear reactors No. 418, 2003	2003	Operation
16	Procedure for Authorising Activities in the Field of Nuclear Energy Uses to be Carried out by Personnel of Nuclear Cycle Facilities Posing Potential Nuclear and Radiation Hazards, Companies Organisations Operating Commercial Reactors, Companies Organisations Transporting Nuclear Materials, Radioactive Substances or Associated Products – approved by Minprirody of Russia on July 22, 2009, Order No. 222;	2009	Operation
17	Procedure for Authorising Activities in the Field of Nuclear Energy Uses to be Carried out by Personnel of Nuclear Plants – approved by Minprirody of Russia on January 29, 2009, Order No. 13	2009	Operation
18	Administrative Regulation on Implementation of the State Function of Licensing Activities in the Field of Nuclear Energy by the Federal Environmental, Industrial and Nuclear Supervision Service– approved by Minprirody of Russia on October 16, 2008, Order No. 262	2008	General requirements
19	Procedure for Technical Investigation of the Causes of Accidents and Incidents at Facilities under Jurisdiction of the Federal Environmental, Industrial and Nuclear Supervision Service-approved by Minprirody of Russia on June 30, 2009, Order No. 191	2009	General requirements

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20	Order for justification of applicability for construction purposes of new materials, products, structures and technologies, №1636 d.d. 27.12.1997, Gosstroy of Russia №18-23 d.d. 27.03.1998, Gosstroy of Russia №76 d.d. 01.07.2002	1997	General requirements
21	On composition of design documentation sections and requirements to its contents, № 87 d.d. 16.02.2008	2008	Design
22	Order of the Prime Minister from 21.06.2010 № 1047-p List of national standards and codes as a result of which is provided on a compulsory basis, compliance with the requirements of the Federal Law of 30.12.2009 № 384-FZ	2010	General requirements
23	Technical regulations on safety of equipment and machinery, № 753 d.d. 15.09.2009	2009	General requirements

#### **Norms and Rules in Nuclear and Radiation Safety**

1	PNAE G-01-011-97, NP-001-97 (OPB-88/97) General regulations on ensuring safety of nuclear power plants	1997	General requirements
2	PNAE G-9-026-90 General provisions of arrangement and operation of emergency power supply systems for NPPs	1990	Operation
3	PNAE G-9-027-91 Rules of designing of emergency power supply systems for NPPs	1991	Design
4	PNAE G-7-008-89 Rules of arrangement and safe operation of equipment and pipelines for nuclear power facilities	1989	Design & Operation
5	PNAE G-7-003-87 Rules of certification of welders of equipment and pipelines for nuclear power facilities	1987	Operation
6	SanPin 2.6.1.2523-09 NRB-99/2009. Radiation safety standards	2009	Engineering survey & Design



Item	Title and designation	Issue date	Stages
7	PNAE G-5-40-97 (NP-003-97) Requirements to full scope simulators for training of NPP control room operators	1997	Operation
8	NP-004-08 Regulation on order of investigation and accounting of NPP operational events	2008	Operation
9	NP-005-98 Regulation on the order of emergency annunciation, operative information transfer and arrangement of urgent assistance to nuclear power plants in case of radiologically hazardous situations	1998	Operation
10	NP-012-99 Rules to ensure safety of NPP unit decommissioning	1999	Decommissioning
11	NP-014-2000 Rules for investigation and accounting of events occurred during handling of radioactive substances and ionization sources applicable in general economy	2000	Operation
12	NP-015-2000 General contents of the plan of activities for NPP personnel protection in case of accident	2000	Operation
13	NP-020-2000 Collection, reprocessing, storage and conditioning of solid radioactive wastes. Safety requirements	2000	Design & Operation
14	NP-021-2000 Management of gaseous radioactive wastes. Safety requirements	2000	Design & Operation
15	NP-026-04 Requirements for control systems important to the safety of nuclear power plants	2004	Operation
16	NP-030-05 General rules for accounting and inspecting of nuclear materials	2005	Operation
17	NP-032-01 Nuclear power plant siting. main criteria and safety requirements	2001	Engineering survey

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
18	NP-034-01 Rules for physical protection of ionization sources, storage facilities and radioactive substances	2001	Operation
19	NP-035-02 Spent nuclear fuel dry storage facilities. Safety requirements	2002	Operation
20	NP-036-05 Rules for design and operation of NPP safety significant ventilation systems	2005	Design & Operation
21	NP-038-02 General provisions to ensure safety of radiation sources.	2002	Operation
22	NP-045-03 Rules for design and safe operation of steam and hot water pipelines at nuclear power facilities	2003	Design & Operation
23	NP-046-03 Rules for design and safe operation steam and water heating boilers at nuclear power facilities	2003	Operation
24	NP-053-04 Safety rules for transportation of radioactive materials	2004	Design & Operation
25	NP-055-04 Deposition of radioactive waste. Principles, criteria and general safety requirements	2004	Design & Operation
26	NP-058-04 Safety of radioactive waste management. General provisions	2004	Design & Operation
27	NP-064-05 Consideration of external natural and man-caused impacts on projects of nuclear power application	2005	Engineering survey & Design
28	NP-061-05 Safety rules at nuclear fuel storage and transporting at nuclear power utilization facilities	2005	Design & Operation

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
29	NP-067-05 General rules for accounting and reporting of radioactive substances in the organization	2005	Design & Operation
30	NP-070-06 Rules for design and safe operation of equipment and pipelines at nuclear power facilities	2006	Design & Operation
31	NP-071-06 Rules for compliance assessment of the equipment, spareparts, materials and subproducts to be deliverable to the nuclear power facilities	2006	Design & Operation
32	NP-073-11 Rules for physical protection of radioactive substances and ionization sources during transportation	2012	Operation
33	NP-074-06 Requirements to ensure preparedness for emergency aftermath mitigation during transportation of nuclear materials and radioactive substances	2006	Operation
34	NP-040-02 Regulations for ensuring hydrogen explosion protection at a nuclear power station	2002	Design & Operation
35	NP-019-2000 Collection, reprocessing, storage and conditioning of liquid radioactive wastes. Safety requirements	2000	Design & Operation
36	NP-002-04 Safety regulations for handling radioactive wastes from nuclear power stations	2004	Design & Operation
37	NP-031-01 Standards for design of seismic resistant nuclear power plant	2001	Engineering survey & Design
38	NP 34-70-118-87 Standards for design of thermal insulation for equipment and pipelines of nuclear and fossil fuel power plants	1987	Design
39	NPB 114-2002 Fire protection of nuclear power plants. Design regulations	2002	Design
40	NPB 113-2003 Fire safety of nuclear power plants. General requirements	2003	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
41	NPB 105-03 Determining the categories of premises, buildings, and outdoor installations as to explosion-fire and fire safety	2003	Design
42	NPB 151-2000, "Fire-fighting cabinets. Technical requirements of fire safety. Test Methods"	2000	Design
43	NPB 152-2000, "Fire Equipment. Fire hose. Technical requirements of fire safety. Test Methods"	2000	Design
44	NPB 154-2000, "Fire Equipment. Fire valves. Technical fire safety requirements. Test Methods"	2000	Design
45	NPB 160-97 "Signal colors. Fire safety signs. Types. Dimensions. Common technical demands"	1997	Design
46	NPB 238-97 Flame-retardant cable coating. General technical requirements and test methods	1997	Design
47	NPB 242-97 "Classification and test methods of electrical cable line fire hazard"	1997	Design
48	PPB AS-95* Fire safety regulations for the operation of nuclear power plants	1995	Operation
49	SP 2.6.1.2612-10 (OSPORB-99/2010) Basic sanitary rules for ensuring radiation safety	2010	Design & Operation
50	SanPin 2.6.1.24-03 Sanitary rules for nuclear plants design and operation (SP AS-03)	2003	Design & Operation
51	Sanitary and technical requirements for design and operation of district heating systems (STT SOT AS-91 Supplement to SP AS-88/93)	1991	Design
52	SP 2.6.6.1168-02 (SPORO-2002) Sanitary rules for radioactive waste management	2002	Design & Operation
53	SP 2.6.6.2572-2010 "Radiation safety when managing NPP industrial wastes containing technogenic radionuclides"	2010	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
54	SanPiN 2.2.8.46-03 Sanitary rules for decontamination of individual protection aids	2003	Operation
55	SanPiN 2.2.8.48-03 Respiratory individual protection aids for the personnel of radiation hazardous facilities	2003	Design & Operation
56	SanPiN 2.2.8.49-03 Skin individual protection aids for the personnel of radiation hazardous facilities	2003	Operation
57	SanPiN 2.1.4.1110-02 "Sanitary protection zones of water supply sources and drinking water supply lines. Sanitary standards."	2002	Design
58	SanPiN 2.1.5.980-00 Hygienic requirements for surface water protection	2000	Design
59	SanPiN 2.2.1/2.1.1.1200-03 Sanitary and protection zones and sanitary classification of enterprises, buildings and other facilities. Sanitary and epidemiological rules and standards	2003	Design
60	SanPiN 2.6.1.1281-03 Sanitary rules for personnel and public radiation protection during transportation of radioactive materials (substances)	2003	Operation
61	PNAE G-7-009-89 Equipment and pipelines for nuclear power facilities. Welding and overlay cladding. Basic provisions	1989	Design, Construction & Operation
62	PNAE G-7-010-89 Equipment and pipelines for nuclear power facilities. Welding joints and overlay cladding. Basic provisions	1989	Design, Construction & Operation
63	PNAE G-7-002-86 Norms of strength calculation for pipelines for nuclear power facilities	1986	Design & Operation
64	PNAE G-7-025-90 Steel castings for nuclear power facilities. Rules of control.	1990	Construction & Operation

Item	Title and designation	Issue date	Stages
65	PNAE G-10-031-92 Main provisions on welding of NPP localizing safety systems elements	1992	Design, Construction & Operation
66	PNAE G-10-032-92 Rules of control of NPP localizing safety systems elements welded joints	1992	Design, Construction & Operation
67	PNAE G-7-014-89 Unified methods of control of main materials semi-finished items, welded joints and overlay cladding of equipment and pipelines for nuclear power facilities. UT. Control of main materials semi-finished items	1989	Construction & Operation
68	PNAE G-7-015-89 Unified methods of control of main materials semi-finished items, welded joints and overlay cladding of equipment and pipelines for nuclear power facilities. MPT	1989	Construction & Operation
69	PNAE G-7-016-89 Unified methods of control of main materials semi-finished items, welded joints and overlay cladding of equipment and pipelines for nuclear power facilities. Visual and instrumentation inspection	1989	Construction & Operation
70	PNAE G-7-017-89 Unified methods of control of main materials semi-finished items, welded joints and overlay cladding of equipment and pipelines for nuclear power facilities. Radiographic testing	1989	Construction & Operation
71	PNAE G-7-018-89 Unified methods of control of main materials semi-finished items, welded joints and overlay cladding of equipment and pipelines for nuclear power facilities. Capillary testing	1989	Construction & Operation
72	PNAE G-7-019-89 Unified methods of control of main materials semi-finished items, welded joints and overlay cladding of equipment and pipelines for nuclear power facilities. Tightness testing. Gas- and liquid- involving methods	1989	Construction & Operation

Item	Title and designation	Issue date	Stages
73	PNAE G-7-030-91 Unified methods of control of main materials semi-finished items, welded joints and overlay cladding of equipment and pipelines for nuclear power facilities. UT. Testing of welded joints and overlay cladding	1991	Construction & Operation
74	PNAE G-7-031-91 Unified methods of control of main materials semi-finished items, welded joints and overlay cladding of equipment and pipelines for nuclear power facilities. UT. Monometal, bimetal and corrosion-protection coating thickness measurement	1991	Construction & Operation
75	PNAE G-7-032-92 Unified monitoring control of main materials (prefabricated elements), welded joints, and hard-facing of NPP equipment and pipelines, Ultrasound monitoring, Monitoring of welded joints from austenite class steel	1992	Construction & Operation
76	PNAE G-10-007-89 Regulations on design of reinforce concrete structures in NPP localization safety systems	1989	Design
77	PNAE G-10-012-89 Standards for strength computation of steel protective vessels at nuclear power plants	1989	Operation
78	PNAE G-7-013-89 Rules on design and safe operation of actuators of reactivity control devices	1989	Operation
79	NP-010-98 Rules for arrangement and operation of nuclear power plant localizing safety systems	1998	Design & Operation
80	NP-068-05 Pipeline valves for NPPs. General technical requirements	2005	Design & Operation
81	NP-044-03 Codes for the design and safe operation of pressure vessels at nuclear power facilities	2003	Design & Operation

Item	Title and designation	Issue date	Stages
82	NP-043-03 Requirements for the design and safe operation of load-lifting cranes for nuclear power facilities	2003	Design & Operation
83	PiN AE 5.10-87. Rules and Regulations in Atomic Energy. Foundations for the reactor compartments of nuclear power plants	1987	Engineering survey
84	PiN AE-5.6 1986 Standards of NPP construction designing for different types of reactors	1986	General requirements
85	NP-082-07 Nuclear Safety Rules for Reactor Installations of Nuclear Power Plants	2007	General requirements
86	NP-006-98 (PNAE G-01-036-95) Requirements to Contents of Safety Analysis Report of Nuclear Power Plant with VVER Reactors	1998	General requirements
87	PNAE G-14-038-96 Requirements to safety analysis report of radioactive waste storage facilities with respect to accounting of external hazardous impacts	1996	Design
88	NP-011-99 Requirements to the Quality Assurance Program for NPP	1999	General requirements
89	PBYa-06-09-90 Nuclear safety rules for storage and transportation of nuclear hazardous and fission materials	1990	Operation
90	PBYa-06-10-99 Rules for design and operation of self-sustaining chain reaction emergency alarm system and arrangement of the activities to mitigate its aftermath	1999	Design
91	NRP-93 Standards for strength computation of transportation packing sets for nuclear fission materials	1993	Operation
92	SPPNAE-93 (i.4.2.) Requirements to the development of feasibility study for construction of a nuclear power plant. Regulation on the order of site selection	1993	Design
93	ST GO AS-92 Sanitary requirements to the order of the personnel access into containment during operation of the NPP unit with VVER-1000	1992	Operation



<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
94	RB-002-97 (RB G-12-43-97) Water chemistry of nuclear power plants. General safety requirements.	1997	Design & Operation
95	RB-004-98 Requirements to certification of NPP safety significant control systems	1998	Operation
96	RB-005-98 Requirements to certification of safety significant construction structures at nuclear power facilities	1998	Construction
97	RB-007-99 Accounting of fast neutron fluence in VVER vessels and witness specimen for further forecasting of the vessel radiation lifetime	1999	Operation
98	RB-009-99 Methodology for assessment of physical protection vulnerability at nuclear materials and facilities	1999	Operation
99	RB-013-2000 Requirements to the NPP unit decommissioning program	2000	Decommissioning
100	RB-018-01 Methodology of neutron monitoring at external surface of the NPP pressurized water reactor vessels	2001	Operation
101	RB-019-01 Evaluation of seismic hazards of sites intended for nuclear and radiation hazardous installations based on geodynamic data	2001	Engineering survey
102	RB-020-01 Methodology for assessment of Iodine atmospheric releases during accidents at VVER-1000 NPPs	2001	Operation
103	RB-021-01 Assessment of the reactor core heavy damage frequency	2001	Design
104	RB-023-02 Recommendations for establishment of acceptability criteria for storage and deposition of the conditioned radioactive waste	2002	Operation

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
105	RB-036-06 Monitoring of geotechnical conditions of siting of nuclear fuel cycle facilities	2006	Engineering survey
106	RB-039-07 Ensuring of safety in transpiration of radioactive materials (Reference materials to the Rules of ensuring of safety in transpiration of radioactive materials, NP-053-04)	2007	Operation
107	RB-046-08 Safety guides. Monitoring of meteorological and aerological conditions in nuclear facility host regions	2008	Engineering survey
108	RB-054-09 Regulation on contents and composition of the radiation safety report for the organizations applied radionuclide sources	2009	Operation
109	STO 1.1.1.01.0678-2007 General rules for ensuring operation of nuclear power plants	2007	Design & Operation
110	RTD 2730.300.02-91 Equipment and pipelines of nuclear power facilities. Welding, deposition and thermal treatment of weld joints, parts made of steels 10GN2MFA, 10GN2MFAL, 15X2NMFA and 15X2NMFA-A	1991	Operation
111	TPKME-20-96 General program for inspection of metal mechanical features in the pipelines of VVER-1000 NPPs after 100 thousand hours of operation	1996	Operation
112	Provisions for temporary suspension of NPP units construction, 1992	1992	Construction
113	Sanitary rules for industrial and household laundries for decontamination of special cloths and other aids of individual protection, 1989	1989	Operation
114	NP-080-07 Main Requirements for Fuel Rods and Fuel Assemblies with Uranium-Plutonium (MOX) Fuel for Nuclear Plants	2007	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
115	NP-017-2000 Basic Requirements For Nuclear Power Plant Unit Lifetime Extension	2000	Operation
116	NP-024-2000 «Requirements for the Analysis of Potential Extension of the Assigned Service Life of Nuclear Facilities»	2000	Operation
117	NP-072-06 «Rules for Transferring Nuclear Materials to the Category of Radioactive Waste»	2006	Operation & Decommissioning
118	SP 2.6.1.28-2000 Radiation safety rules at nuclear power plant operations (PRB AS-99).	2000	Design, Operation & Decommissioning
119	RB-026-04 Methodological Recommendations for the Conduct of Physical Inventory of Nuclear Materials at Nuclear Installations and in Nuclear Materials Storage Facilities	2004	Operation
120	RB-027-04 Structure and Content of Report on the Results of Comprehensive Examination of a Nuclear Unit for the Purpose of Its Lifetime Extension	2004	Operation
121	RB-028-04 Analysis of Non-conformance of a Nuclear Plant Unit to the Requirements of Existing Regulatory Documents	2004	Operation
122	RB-029-04 Structure and Substantiation of Materials for the Justification of Residual Lifetime of Nuclear Unit Elements for the Purpose of Its Lifetime Extension	2004	Operation
123	RB-030-04 Analysis of Operating Experience when Extending Nuclear Unit Lifetime	2004	Operation

Item	Title and designation	Issue date	Stages
124	RB-031-04 Structure and Content of the Safety Analysis Report for Nuclear Unit Decommissioning	2004	Decommissioning
125	RB-001-05 Recommendations on the Content of the In-depth Safety Assessment Report for Operating Nuclear Units (OUOBAS)	2005	Operation
126	Interim rules for calculating the strength of the internals of WWER, 1993	1993	Design
127	Interim rules for calculating the strength of the elements of control and protection of water-moderated reactors, 1993	1993	Design
128	Computer aids for nuclear power stations. General technical requirements General Designer NPP APCS, 1988	1988	Design
129	STK-5-2005 Nuclear reactors. Organizational and technical procedure for developing and putting in the production of active zones and their constituent parts, TVEL, 2005	2005	Construction
130	M-TPR-01-93 Methods of calculation of pipelines of nuclear power installations within the framework of the “Leak before break” concept.	1993	Construction & Operation
131	ATPE-9-03 Standard program on operational monitoring of main metal condition and condition of welded joints of equipment and pipelines of nuclear power plants with WWER-1000 (with supplement No: 1)	2003	Operation
132	The principal requirements to the instrumentation means of control of nuclear safety parameters, Minatomenrgoprom of the USSR, 1991	1991	Design
133	STEO-06-44-2005 On the order of acquisition and operational training of plant personnel, Rosenergoatom, 2005	2005	Operation

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
134	Qualification handbook for managers and specialists of nuclear power plants (for employees who must receive permission from the federal oversight Russia, Russian Ministry of Labor, 2001	2001	Operation
135	NP-083-07 Requirements for Physical Protection Systems of Nuclear Materials, Nuclear Facilities and Nuclear Storage Facilities	2007	Design

**4. Third Party Regulations**

To be determined later

**B. Standards**

**1. Turkish National Standards**

To be determined later

**2. APC Proposed Standards**

**International Standards**

1	IEC 60639 1979 Nuclear reactors – Use of the protection system for non-safety purposes	1979	Design
2	IEC 60643 1979 Application of digital computers to nuclear reactor instrumentation and control	1979	Design
3	IEC 60709 1981 Separation within the reactor protection system	1981	Design
4	IEC 60812 1985-07 Analysis technique for system reliability – Procedure for Failure Mode and Effect Analysis FMEA	2007	Design
5	IEC 60860 1987 Warning equipment for criticality accidents	1987	Design
6	IEC 60960 1988 Functional design criteria for a safety parameter display system for NPP	1988	Design
7	IEC 60964 1989 Design for control rooms of NPP	1989	Design
8	IEC 60965 1989 Supplementary control points for reactor shutdown without access to the main control room	1989	Design
9	IEC 61025 1990-10 Fault Tree Analysis FTA	1990	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
10	IEC 61226 1993-05 Nuclear power plants - Instrumentation and control systems important for safety – Classification	1993	Design
11	IEC 61500 1996 Nuclear Power Plants - Instrumentation and control systems important for safety -Functional requirements for multiplexed data transmission	1996	Design
12	IEC 61508-1,2,4 1998 / 2000 Functional safety of electrical / electronic / programmable electronic safety-related systems, Part 1, 2, 4	1998	Design
13	IEC 61513 2001-03 Nuclear power plants - Instrumentation and control for systems important to safety - General requirements for systems	2001	Design
14	IEC 60605 1978 Equipment reliability testing. Part 1: General requirements	1978	Design
15	IEC 60671 1980-01 Periodic tests and monitoring of the protection system of nuclear reactors	1980	Design
16	IEC 60780 1998-10 Nuclear power plants - Electrical equipment of the safety system - Qualification	1998	Design
17	IEC 62138 2004 Nuclear Power Plants - Instrumentation and control important for safety - Software aspects for computer-based systems performing category B or C functions	2004	Design
18	EN / IEC 61000-4 1995 - 02 Electromagnetic compatibility EMC Series, VDE 0847 Ed. 1.0 to Ed. 2	1995	Design
19	ISO 9001:2008 Quality management systems - Requirements	2008	Design
20	ISO 10007:2003 - Quality management systems - Guidelines for configuration management	2003	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
21	ISO 9000:2005 - Quality management systems - Fundamentals and vocabulary	2005	Design
22	IEC 60980 1989-06 Recommended practices for seismic qualification of electrical equipment of the safety system for nuclear generating stations	1989	Design
23	IEC 60987 1989-12 Programmed digital computers important to safety for nuclear power stations	1989	Design
24	IEC 60880 1986-09 Software for computers in the safety systems of nuclear power stations	1986	Design
25	IEC 60880-2 2000-12 Software for computers important to safety for nuclear power plants Part 2: Software aspects of defense against common cause failures, use of software tools and of pre-developed software	2000	Design
26	IEC 61131 Series 1992-10 Ed. 1.0, Programmable controllers	1992	Design
27	IEC 61326 2002-02, Electrical equipment for measurements, control and laboratory use Ed. 2.0 -EMC requirements	2002	Design
28	EN 1990 Basis of design	1990	Design
29	EN 1991 Eurocode 1: Actions on structures	1991	Design
30	EN 1992 Eurocode 2: Design of concrete structures	1992	Design
31	EN 1993 Eurocode 3: Design of steel structures	1993	Design
32	EN 1994 Eurocode 4: Design of composite steel and concrete structures	1994	Design
33	EN 1996 Eurocode 6: Design of masonry structures	1996	Design
34	EN 1997 Eurocode 7: Geotechnical design	1997	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
35	EN 1998 Eurocode 8: Design of structures for earthquake resistance	1997	Design

#### **Russian National Standards**

1	GOST 26291-84 Reliability of NPPs and their equipment. General provisions and indicators nomenclature	1984	Design
2	GOST R 51102-97 Protective polymeric decontaminated coatings. General technical requirements	1997	Design
3	GOST 14254-96 Degrees of protection provided by enclosures (IP code)	1996	Design
4	GOST 17137-87 Systems of monitoring, control and protection at nuclear reactors. Terms and definitions.	1987	Design
5	GOST 17138-81 Equipment for in-core fuel integrity monitoring in the reactors of nuclear power plants. General technical requirements and methods of testing	1981	Design
6	GOST 17516.1-90 Electrotechnical products. General requirements for resistance to external mechanical impacts	1990	Design
7	GOST 23765-79 Equipment of radiation safety monitoring at nuclear power plants. General technical requirements to the data transmission channels	1979	Design
8	GOST 26344.0-84 Equipment for production of nuclear instrumentation for nuclear power plants. General provisions.	1984	Design
9	GOST 26635-85 Power nuclear pressurized water reactors. General requirements to in-core monitoring system	1985	Design
10	GOST 27751-88 "Reliability of constructions and foundations. Principal rules of the calculations"	1988	Design



Item	Title and designation	Issue date	Stages
11	GOST 27445-87 Neutron flux monitoring system for protection and control of nuclear reactors. General technical requirements	1987	Design
12	GOST 27451-87 Measurement instrumentation for ionizing radiation. General technical provisions.	1987	Design
13	GOST 27452-87 Equipment for radiation safety monitoring at nuclear power plants. General technical requirements.	1987	Design
14	GOST 28195-89 Software quality assessment. General provisions.	1989	Design
15	GOST 29075-91 System for production of nuclear instrumentation for nuclear power plants. General provisions.	1991	Design
16	OTT 08042462 Instrumentation and automation tools for nuclear power plants. General technical requirements	1985	Design
17	Requirements (OTT) 1988. Computer hardware for nuclear power plants. General technical requirements	1988	Design
18	<p>TI 1L-84 Standard instruction for carrying out local tests of penetrations, stop valves of process systems, lock hatches, and other sealing equipment pertaining to accident localization systems at NPPs with VVER-1000 reactors</p> <p>* Note: the pipeline and its elements may be used both in safety-related system and non-safety-related systems. Thus, depending on system relation to safety, the corresponding codes for welds production, codes for welds inspection and codes for piping strength analysis are used.</p>	1984	Operation
19	GOST 34.603-92. Kinds of tests of automated systems	1992	Construction

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
20	GOST 9.401-91 Varnish-and-paint coatings. General requirements and methods of quick tests on climatic factors effects withstandability	1991	Construction
21	GOST 9.402-2004 Varnish-and-paint coatings. Metal surfaces preparation for painting	2004	Construction
22	GOST 12.3.016-87 Anticorrosive works. Safety requirements	1987	Design & Construction
23	GOST 21.501-93 Rules of execution of architectural and construction working drawings	1993	Design
24	GOST R 21.1101-2009 System of construction design documentation. Rules for performance of architecture and construction work drawings	2009	Design
25	GOST R 15.201-2000 Procedure of production development and fabrication	2000	Construction
26	GOST 15.005 Making of products of individual and small-serial production	1986	Construction
27	GOST 4.472-87 Water treatment equipment for power boilers and industrial enterprises boilers	1987	Construction
28	GOST 2.601-2006 ESKD. Operation documents	2006	Operation
29	GOST 29074-91. Equipment for monitoring radiation environment. General requirements	1991	Operation
30	GOST 8.377-80 GSI. Magnetically soft materials. Measuring methods at static magnetic characteristics determination	1980	Operation
31	GOST 26843-86 General requirements to reactor CPS	1986	Operation
32	GOST R 27.002-2009 Dependability in technics. Terms and definitions	2009	Operation

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
33	GOST R 8.563-2009 State system for ensuring the uniformity of measurements. Procedures of measurements	2009	Design & Operation
34	GOST 9.014-78 ESZKS. Provisional anticorrosive protection of items. General requirements	1978	Operation
35	GOST 12.3.019-80 SSTB. Electrical tests and measuring. General safety requirements	1980	Operation
36	GOST 27.003-90 Reliability in techniques. Contents and general rules of reliability requirements assignment	1990	Operation
37	GOST 15150-69 Machines, instruments and other technical items. Performance for different climatic regions. Categories, operation, storage and transportation conditions in the part of external environment climatic factors effects	1969	Design & Operation
38	GOST 25100-95 Soils. Classification	1995	Engineering survey
39	GOST 12071-2000 Soils. Sampling, packing, transportation and storage of samples	2000	Engineering survey
40	GOST 12248-96 Soils. Laboratory Methods for Determination of Strength and Strain Characteristics	1996	Engineering survey
41	GOST 19912-2001 Soils. Field Test Methods by Static and Dynamic Sounding	2001	Engineering survey
42	GOST 20276-99. Soils. Methods for Field Determination of Strength and Strain Characteristics	1999	Engineering survey
43	GOST 20522-96. Soils. Methods of statistical treatment of test results	1996	Engineering survey
44	GOST 21.302-96 System of Design Documentation for Construction. Graphic Symbols for Engineering Geological Investigation Documents	1996	Engineering survey
45	GOST 21153.2-84 Rocks. Test Methods For Uniaxial Compressive Strength (Amendment No.1 1986)	1984	Engineering survey
46	GOST 21153.5-88 Rocks. Test Method for Ultimate Compression Shear Strength	1988	Engineering survey

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
47	GOST 23061-90. Soils. Methods for radioisotope measurement of density and humidity	1990	Engineering survey
48	GOST 23161-78. Soils. Laboratory method for determination of subsiding characteristics	1978	Engineering survey
49	GOST 23740-79 Soils. Methods for Laboratory Determination of Organic Substances Content	1979	Engineering survey
50	GOST 24143-80. Soils. Laboratory Methods for Determination of Swelling and Shrinking Characteristics	1980	Engineering survey
51	GOST 24846-81 Soils. Methods of bedding deformation measurement for buildings and structures	1981	Engineering survey
52	GOST 24849-81 Drinking water. Field methods of sanitary and microbiological analysis	1981	Engineering survey
53	GOST 24902-81*Household and potable water. General requirements for field methods of analysis	1981	Engineering survey
54	GOST 25260-82* Rocks. Field Test Method by Penetration Logging	1982	Engineering survey
55	GOST 5180-84. Soils. Laboratory methods for determination of Physical characteristics	1984	Engineering survey
56	GOST R 51593-2000 Potable water. Sampling	2000	Engineering survey
57	GOST 12536-79 Soils. Methods of laboratory granulometric (grain-size) and microaggragate distribution	1979	Engineering survey
58	GOST 17.1.5.01-80 Nature protection. Hydrosphere. General requirements for sampling of bottom sediments of water reservoirs for analysis of pollution degree	1980	Design
59	GOST 17.1.5.05-85 Nature protection. Hydrosphere. General requirements for sampling of surface and sea water, ice, and precipitations	1985	Design
60	GOST 17.4.4.02-84 Nature protection. Soils. Methods of sampling and processing of samples for chemical, bacteriological and helminthological analysis	1984	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
61	GOST 17.2.3.01-86 Nature protection. Atmosphere. Air quality control regulations for populated areas	1986	Engineering survey
62	GOST 17.2.1.03-84 Nature protection. Atmosphere. Terms and definitions for air pollution control	1984	Engineering survey
63	GOST 17.2.4.02-81 Nature protection. Atmosphere. General requirements for determination of pollutants	1981	Engineering survey
64	GOST 17.2.6.02-85 Nature protection. Atmosphere. Automatic gas analyzers for air pollution monitoring. General technical requirements	1985	Engineering survey
65	GOST R 22.1.01-95 Safety in emergencies. Monitoring and forecasting. Basic principles	1995	Engineering survey
66	GOST R 22.1.02-95 Safety in emergencies. Monitoring and forecasting. Terms and definitions	1995	Engineering survey
67	GOST 12730.5-84 Concretes. Methods for determination of watertightness	1984	Design & Construction
68	GOST 10060.0-95 Concretes. Methods for the determination of frost-resistance. General requirements	1995	Design & Construction
69	GOST 9128-2009 Asphaltic concrete mixtures for roads and aerodromes and asphaltic concrete. Specifications	2009	Design & Construction
70	GOST 2.105-95 Unified system for design documentation. General requirements for textual documents	1995	Design
71	GOST 2.503-90 Unified system of design documentation. Rules of making modifications	1990	Engineering survey
72	GOST 2.312-72 Unified system for design documentation. Symbolic designations and representations of welds and welded joints	1972	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
73	GOST 9.602-2005 Unified system of corrosion and ageing protection. Underground constructions. General requirements for corrosion protection	2005	Engineering survey
74	GOST 12.1.030-81 Occupational safety standards system. Electric safety. Protective conductive earth, neutralling	1981	Design
75	GOST 12.2.003-91 Occupational safety standards system. Industrial equipment. General safety requirements	1991	Design
76	GOST 12.2.007.0-75 Occupation safety standards system. Electrical equipment. General safety requirements	1991	Design
77	GOST 2.105-95 Unified system for design documentation. General requirements to text documents	1995	Design
78	GOST 21.110-95 System of building design documents. Rules of developing specifications for equipment, products and materials	1995	Design
79	GOST 21.204-93 System of building design documents. Graphical symbols and signs of elements of general layouts and transport	1993	Design
80	GOST 21.502-2007 System of design documents for construction. Execution rules of design and working documents for metal structures	2007	Design
81	GOST 21.508-93 System of building design documents. Rules of fulfillment of working documentation of general layouts of enterprises, buildings and civil housing objects	1993	Design
82	GOST 380-2005 Common quality carbon steel. Grades	2005	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
83	GOST 492-2006 Nickel, nickel and copper-nickel alloys treated by pressure. Grades	2006	Design
84	GOST 6235-91 Strips and ribbons of nickel. Specifications	1991	Design
85	GOST 9454-78 Metals. Method for testing the impact strength at low, room and high temperature	1978	Design
86	GOST 9544-2005 Pipeline gate valves. Classes and rates of gates sealability	2005	Design
87	GOST R 50088-92 Water-moderated water-cooled power reactors. General requirements to performing of neutron physical calculations	1992	Design
88	GOST R 50753-95 Cylindrical helical compression (extension) springs made of special steels and alloy. General specifications	1995	Design
89	GOST R 51318.22-99 Electromagnetic compatibility of technical equipment. Man-made radio disturbance from information technology equipment. Limits and test methods	1999	Design
90	GOST R 51321.1-2007 Low-voltage switchgear and controlgear assemblies. Part 1. Type-tested and partially type-tested assemblies. General technical requirements and test methods	2007	Design
91	GOST R 52287-2004 Electrical penetration in containment structures for nuclear power generating stations	2004	Design
92	GOST 1497-84 (ISO 6892-84) Metals. Methods of tension test	1984	Design
93	GOST 2590-2006 Round hot-rolled steel bars. Dimensions	2006	Design
94	GOST 2678-94 Rolled roofing and waterproof materials. Methods of testing	1994	Design
95	GOST 2789-73 Surface roughness. Parameters and characteristics	1973	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
96	GOST 3242-79 Welded joints. Quality control methods	1979	Design
97	GOST 3262-75 Water-supply and gas-supply steel pipes. Specifications	1975	Design
98	GOST 3760-79 Reagents. Ammonia water. Specifications	1978	Design
99	GOST 5632-72 High-alloy steels and corrosion-proof, heat-resisting and heat treated alloys. Grades	1972	Design
100	GOST 5781-82 Hot-rolled steel for reinforcement of ferroconcrete structures. Specifications	1982	Design
101	GOST 6665-91 Concrete and reinforced concrete curbs. Specifications	1991	Design
102	GOST 6727-80 Cold-drawn low-carbon steel wire for reinforced concrete. Specifications	1980	Design
103	GOST 6996-66 Welded joints. Methods of mechanical properties determination	1966	Design
104	GOST R 51685-2000 Railway rails. General specifications	2000	Design
105	GOST 7338-90 Rubber and rubber-fabric sheets. Specifications	1990	Design
106	GOST 7350-77 Plate steel, corrosion-resistant, heat-resistant and high-temperature. Specifications	1977	Design



Item	Title and designation	Issue date	Stages
107	GOST 7512-82 Nondestructive testing. Welded joints. Radiography method	1982	Design
108	GOST 8239-89 Hot-rolled steel flange beams. Rolling products	1989	Design
109	GOST 8240-97 Hot-rolled steel channels. Assortment	1997	Design
110	GOST 8267-93 Crushed stone and gravel of solid rocks for construction works. Specifications	1993	Design
111	GOST 8269.0-97 Mountainous rock road-metal and gravel, industrial waste products for construction works. Methods of physical and mechanical tests	1997	Design
112	GOST 8509-93 Hot-rolled steel equal-leg angles. Dimensions	1993	Design
113	GOST 8510-86 Hot-rolled steel unequal-leg angles. Dimensions	1986	Design
114	GOST 8732-78 Seamless hot-deformed steel pipes. Range of sizes	1978	Design
115	GOST 8736-93 Sand for construction works. Specifications	1993	Design

Item	Title and designation	Issue date	Stages
116	GOST 9466-75 Covered metal electrodes for manual arc welding of steels and deposition. Classification and general specifications	1975	Design
117	GOST 9467-75 Metal covered electrodes for manual arc welding of structural and heat-resistant steels. Types	1975	Design
118	GOST 10052-75 Metal covered electrodes for manual arc welding of high-alloyed steel with special properties. Types	1975	Design
119	GOST 10434-82 Electric contact connections. Classification. General technical requirements	1982	Design
120	GOST 10704-91 Electrically welded steel line-weld tubes. Range	1991	Design
121	GOST 10705-80 Electrically welded steel tubes. Specifications	1980	Design
122	GOST 10706-76 Electrically welded steel line-weld tubes	1976	Design
123	GOST 10922-90 Welded reinforcing products and inserts, welded joints of reinforcement and inserts for reinforced concrete structures. General specifications	1990	Design
124	GOST 14098-91 Welded joints of reinforcement and inserts for reinforced concrete structures. Types, constructions and dimensions	1991	Design
125	GOST 14782-86 Nondestructive testing. Welded joints. Ultrasonic methods	1986	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
126	GOST 14918-80 Continuously galvanized sheet steel. Specifications	1980	Design
127	GOST 17494-87 Rotating electrical machines. Classification of degrees of protection provided by enclosures for rotating machines	1987	Design
128	GOST R 52776-2007 Rotating electrical machines. Rating and performance	2007	Design
129	GOST 18442-80 Nondestructive testing. Capillary methods. General requirements	1980	Design
130	GOST 19807-91 Wrought titanium and titanium alloys. Grades	1991	Design
131	GOST 19903-74 Hot-rolled steel sheets. Dimensions	1974	Design
132	GOST 19904-90 Cold-rolled steel sheets. Dimensions	1990	Design
133	GOST 20397-82 Technical facilities for minicomputers. General technical requirements, acceptance, methods of testing, marking, packaging, transportation and storage, manufacturer's warranties	1982	Design
134	GOST 22727-88 Rolled sheet. Ultrasonic test methods	1988	Design
135	GOST 23118-99 Building steel structures. General specifications	1999	Design
136	GOST 23120-78 Steel flights of steps, stair landings and railings. Specifications	1978	Design
137	GOST 23279-85 Welded reinforcing meshes for reinforced concrete structures and products. General specifications	1985	Design

Item	Title and designation	Issue date	Stages
138	GOST 23304-78 Bolts, studs, nuts and washers for flanged connections for atomic power plants. Technical requirements. Acceptance. Test methods. Marking, packing, transportation and storage	1978	Design
139	GOST 25.506-85 Design, calculation and strength testing. Methods of mechanical testing of metals. Determination of fracture toughness characteristics under the static loading	1985	Design
140	GOST 27384-2002. Water. Rated accuracy of measurements of composition and properties indices	2002	Design
141	GOST 34.003-90 Information technology. Set of standards for automated systems. Automated systems. Terms and definitions	1990	Design
142	GOST 34.201-89 Information technology. Set of standards for automated systems. Types, sets and indication of documents for automated systems development	1989	Design
143	GOST 34.602-89 Information technology. Set of standards for automated systems. Terms of Reference for automated system development	1989	Design
144	GOST 23732-79 Water for concretes and mortars. Specifications	1979	Design
145	GOST 24452-80 Concretes. Methods of prismatic compressive strength, modulus of elasticity and Poisson's ratio determination	1980	Design
146	GOST 25192-82 Concretes. Classification and general technical requirements	1982	Design
147	GOST 25820-2000 Lightweight aggregates concretes. Specifications	2000	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
148	GOST 26633-91 Heavy-weight and sand concretes. Specifications	1991	Design
149	GOST 30515-97 Cements. General specifications	1997	Design
150	GOST R 8.563-2009 State system for ensuring the uniformity of measurements. Procedures of measurements	2009	Design
151	GOST R 8.565-96 State system for ensuring the uniformity of measurements. Metrological assurance of nuclear power stations operation. General principles	1996	Design
152	GOST R 8.596-2002 State system for ensuring the uniformity of measurements. Requirements for software of measuring instruments. General principles	2002	Design
153	GOST R IEC 60073-2000 Basic and safety principles for man-machine interface, marking and identification. Coding principles for indication devices and actuators	2000	Design
154	GOST R 50746-2000 Electromagnetic compatibility of technical equipment. Technical equipment for nuclear power plants. Requirements and test methods	2000	Design
155	GOST R 53231-2008 Concretes. Rules for control and assessment of strength	2008	Design
156	GOST R 52544-2006 Weldable deformed reinforcing rolled products of A500C and B500C classes for reinforcement of concrete constructions. Specifications	2006	Design
157	GOST 5264-80 Manual arc welding. Welding joints. Main types, design elements and dimensions	1980	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
158	GOST 21.205-93 System of design documents for construction. Elements of sanitary engineering systems-symbols	1993	Design
159	GOST 21.601-79 System of design documents for construction. Water supply and sewerage. Working drawings	1979	Design
160	GOST 21.604-82 System of building design documents. Water supply and sewerage. Outside networks. Working drawings	1982	Design
161	GOST 16037-80 Welded joints in steel pipelines. Main types, design elements and dimensions	1980	Design
162	GOST R 50996-96 Collection, storage, treatment and burial of radioactive waste. Terms and definitions	1996	Design
163	GOST R 51883-2002 Cemented radioactive waste. General technical requirements	2002	Design
164	OST 10 070-95. Industrial branch standard. Soils. Procedure for determining of Sr-90 in the soils of agricultural lands	1995	Design
165	OST 10 071-95. Industrial branch standard. Soils. Procedure for determining of Cs-137 in the soils of agricultural lands	1995	Design
166	OST 10 179-96. Industrial branch standard. Defining of Cs-134, -137 in the products of plant growing and feeding stuff	1996	Design
167	OST 46 40-76 - OST 46 52-76. Methods of agro-chemical analyses of soils	1976	Design
168	OST 95.503 -2006 Welded joints and brazed products for the active zones of nuclear reactors. General technical requirements	2006	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
169	OST 95 10517 "Solid radioactive waste storage facilities. General requirements"	1995	Design
170	OST 108.109.01-92 Semi-manufactured articles of housing parts from corrosion resistant steels of austenitic class. Technical specifications	1992	Design

### **Non-nuclear Rules and Norms of Russian Federation**

1	PB 03-585-03 Installation rules and safety operation of process pipelines	2003	Design & Operation
2	PB 10-573-03 Installation rules and safety operation of steam and hot water pipelines	2003	Design & Operation
3	VSN 10-83 Minhimprom's Instruction for the designing of gaseous oxygen pipelines	1983	Design
4	PB 10-382-00 Codes for design and safe operation of load-lifting cranes	2000	Operation
5	PB 03-576-03 Rules for design and safe operation of pressurized vessels	2003	Design & Operation
6	NPB 250-97 Fire-fighting lifts. General technical requirements	1997	Design & Construction
7	PB 03-581-03 Rules for design and safe operation of stationary compressors, air and gas lines	2003	Operation
8	PB 03-583-03 Rules for development, production and application of membrane safety devices	2003	Operation
9	PB 03-584-03 Rules for design, production and acceptance of steel welded vessels and devices	2003	Design
10	PB 03-598-03 Safety rules for hydrogen production by water electrolysis	2003	Operation

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
11	PB 03-605-03 Rules for design of vertical cylindrical steel tanks for oil and oil products	2003	Design
12	PB 09-560-03 Rules of industrial safety for oil delivery terminals and oil products stores	2003	Design
13	PB 09-566-03 Rules of safety for stores of liquefied natural gases and ignite pressurized liquids	2003	Operation
14	PB 09-592-03 Rules for design and safe operation of cooling systems	2003	Operation
15	PB 10-558-03 Rules for design and safe operation of lifts	2003	Operation
16	PB 10-574-03 Rules for design and safe operation of steam and water heating boilers	2003	Operation
17	PB 11-544-03 Safety rules for production and consumption of air separation products	2003	Design
18	PB 12-529-03 Safety rules for systems of gas distribution and consumption	2003	Design
19	PUG-69 Codes of arrangement and safe operation of pipelines with burning, toxic and reduced gases	1969	Operation
20	PPB 01-03 Fire safety regulations in the Russian Federation	2003	Operation
21	NPB 51-96 Fire fighting gas mixes. General fire safety requirements and methods of testing	1996	Operation



<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
22	NPB 54-01 Automatic gas fire fighting installation. General technical requirements. Methods of testing	2001	Operation
23	NPB 58-97 Address-type fire alarm systems. General technical requirements. Methods of testing	1997	Operation
24	NPB 65-97 Smoke-detection optic-electronic fire annunciators. General technical requirements. Methods of testing	1997	Operation
25	NPB 67-98 Automatic powder fire fighting installations. General technical requirements. Methods of testing	1998	Operation
26	NPB 77-98 Fire annunciation and evacuation management tools. General technical requirements. Methods of testing	1998	Operation
27	NPB 80-99 Automatic module-type fire fighting installation with pulverized water. General technical requirements. Methods of testing	1999	Operation
28	NPB 88-2001* Fire fighting and signaling installations. Design norms and rules	2001	Design
29	NPB 110-03 List of buildings, structures, premises and equipment subject to protection by automatic fire fighting plants and automatic fire alarm systems	2003	Design
30	PB-09-596-03 Safety provisions at application of inorganic liquid acids and alkalis	2003	Design & Operation
31	RD 10-249-98 Chang. No. 1- RDI 10-413 249-01 Norms of stress calculation of station boilers and steam and hot water pipelines	1998	Design
32	RCN (Republic-wide Construction Norms) 60-86 Site exploration for construction. micro seismic zoning. Standards for work execution	1986	Engineering survey

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
33	RCN 65-87 Engineering survey for construction, microseismic zoning. Standards for work execution	1987	Engineering survey
34	RCN 75-90 Engineering survey for construction. Technical requirements to geophysical works performance. Well logging methods	1990	Engineering survey
35	NPB 104-03 System for emergency alarm and management of evacuation of people in fires in buildings and structures, Ministry for emergency situations of Russia, 2003	2003	Design
36	SP 12.13130.2009 Determining the categories of premises, buildings, and outdoor installations as to explosion-fire and fire safety	2009	Design
37	SP 22.13330.2011 Foundations of buildings and structures	2011	Design & Construction
38	SP 24.13330.2011 Pile foundations. Updated edition SNIIP 2.02.03-85	1985	Design & Construction
39	SNIIP 2.04.02-84* Water supply. External networks and structures	1984	Design & Construction
40	SNIIP 3.02.01-87 "Earthworks, footings and foundations"	1987	Design
41	SNIIP 2.04.01.85* Inner water-supply line and sewer system of buildings	1985	Design & Construction
42	SNIIP 11-02-96 Engineering survey for construction. Fundamentals. Sections 4 (items 4.9, 4.12, 4.13, 4.15, 4.19, 4.20, 4.22), 5 (items 5.2, 5.7 - 5.14, 5.17), 6 (items 6.1, 6.3, 6.6, 6.7, 6.9 - 6.23), 7 (items 7.1 - 7.3, 7.8, 7.10 - 7.14, 7.17, 7.18; table 7.2), 8 (items 8.2, 8.6, 8.8, 8.9, 8.16 - 8.18, 8.28); Appendices B and C.	1996	Engineering survey
43	SNIIP 21-01-97* Fire safety of buildings and structures	1997	Design & Construction
44	SNIIP 41-01-2003 Construction norms and rules. Heating, ventilation and air conditioning	2003	Design & Construction

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
45	SNiP 23-02-2003 Construction norms and rules. Thermal protection of buildings	2003	Design & Construction
46	SNiP 2.03.11-85 Anticorrosive protection of civil structures	1985	Construction
47	SNiP 2.03.13-88 Floors	1988	Construction
48	SNiP 3.04.03-85 Anticorrosive protection of civil constructions and structures	1985	Design & Construction
49	SNiP 2.04.03-85 Sewer system. External network and structures	1985	Design & Construction
50	SNiP 3.05.01-85 Inner sanitary-technical systems	1985	Design & Construction
51	SNiP 3.05.04-85 External networks and water supply and sewer system structures	1985	Design & Construction
52	SNiP II-89-80 General layouts of industrial enterprises	1980	Construction
53	SP 16.13330.2011 Steel structures. Code of Practice. Actualized edition of SNiP II-23-81	2011	Design & Construction
54	SNiP II-7-81* Construction in seismic areas SNiP II - 7 - 81* " Construction in Earthquake Areas. Design regulations. Sections 1,2 with Appendix "OSR-97 Set of maps of general seismic zoning of Russia"	1981	Engineering survey
55	SNiP 23-01-99* Building climatology Tables 1 - 5; fig. 1, 3 - 6*.	1999	Engineering survey
56	SNiP 3.01.03-84 Survey operations in construction	1984	Engineering survey
57	SNiP 3.01.04-87 Taking over of constructed facilities into operation. Basic provisions	1997	Construction
58	SNiP 22-02-2003 Engineering protection of territories, buildings and facilities against hazardous geological processes. Basic provisions. Sections 4 - 14.	2003	Engineering survey

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
59	SPPNAE-87 п. 4.1. (Nuclear Code of Practice) General requirements to the scope of investigation and survey for a place for NPP site selection	1987	Engineering survey
60	SNiP 2.01.07-85* Loads and effects	1985	Construction
61	SP 27.13330.2011 Concrete and concrete reinforced structures designated for operation under the conditions of increased and high temperatures effect. Code of Practice. Actualized edition of SNiP 2.03.04-84*	2011	Design & Construction
62	SNiP II-11 -77 Protective structures of civil defence	1977	Construction
63	SNiP 3.03.01-87 Bearing and enclosing structures	1987	Construction
64	SNiP 2.06.08-87 Concrete and concrete reinforced structures of hydraulic facilities	1987	Construction
65	SNiP 2.09.03-85 Constructions of industrial enterprises	1985	Construction
66	SNiP 52-01-2003 Concrete and concrete reinforced structures	2003	Construction
67	SP 23.13330.2011 Foundations of hydraulic structures. Code of Practice. Actualized edition of SNiP 2.02.02-85	1985	Design & Construction
68	SNiP 2.02.05-87 Foundations of machines with dynamic loads	1987	Construction
69	SNiP II-22-81 Stone and reinforced masonry constructions	1981	Construction
70	SNiP 2.03.01-84 Concrete and concrete reinforced structures	1981	Construction

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
71	SNiP 11-01-95 Instruction on procedure of development, coordination, approval and contents of design documentation on construction of enterprises, buildings and structures	1995	Construction
72	SNiP 3.05.06-85. Regulations for execution and acceptance of work. Electrical devices	1985	Construction
73	SNiP 3.05.07-85. Regulations for execution and acceptance of work. Automation systems	1985	Construction
74	SNiP 23-03-2003 Sound protection.	2003	Design
75	SNiP II-23-90 Steel structures	1990	Design
76	SNiP 2.04.05-91* Heating, ventilation and air conditioning.	1991	Design & Construction
77	SNiP 2.04.09-84 Automatic fire safety devices of buildings and facilities.	1984	Design & Construction
78	SNiP 2.05.02-85* Highways	1985	Design & Construction
79	SNiP 2.05.07-91* Industrial transport	1991	Design & Construction
80	SNiP 33-01-2003 Hydraulic engineering facilities. Main designing provisions	2003	Design & Construction
81	SNiP 2.06.05-84 Earth dams	1984	Design
82	SNiP 2.06.06-85 Concrete and reinforced concrete dams	1985	Design & Construction
83	SP 56.13330.2011 Industrial buildings. Code of Practice. Actualized version of SNIP 31-03-2001	2011	Design
84	SNIP 41-02-2003 "Heat Networks"	2003	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
85	SP 44.13330.2011 Administrative and household buildings. Code of Practice. Updated SNIp edition 2.09.04-87	2011	Design
86	SP 35.13330.2011 Bridges and culverts. Code of Practice. Updated SNIp edition 2.05.03-84*	2011	Design
87	SNIp 2.06.15-85 Engineering area protection against flooding and inundation	1985	Design
88	VSN 5-84 Use of the natural stone in marine hydraulic engineering	1984	Design
89	SNIp 2.06.07-87 Retaining walls, shipping locks, fishways and fish screen	1987	Design
90	VSN 361-85 "Installation of technological equipment on foundations"	1985	Design
91	SNIp 2.06.04-82 Loads and effects on hydraulic structures (wave, ice, and watercraft)	1982	Design
92	SN 460-75, Section 5 Provisional instruction on contents and presentation of civil working drawings and structures. Metal structures. KM drawings	1975	Construction
93	Geodetic methods of earth's crustal deformation study at geodynamical polygons.. Methodological guideline. State Department of Geodesy and Cartography, Central Surveying and Mapping Research Institute,.	1985	Engineering survey
94	GK INTP (GNTA)-03-010-03. Geodetic cartographical instructions. Standards and regulations I, II, III and IV class leveling survey instruction	2003	Engineering survey
95	GK INTP -07-016-91. Rules of laying the underground centres and benchmarks at the points of geodetic and leveling network	1991	Engineering survey
96	VSN AS-90 Acceptance into operation after the facility	1990	Construction
97	Position on conservation construction of nuclear power stations, 1992	1992	Decommissioning
98	VSN 01-87 Fire-fighting design standards for nuclear power plants.	1987	Design

Item	Title and designation	Issue date	Stages
99	GKINP (GNTA)-17-195-99 Instructions for the geodetic instruments calibration	1999	Engineering survey

### Third Party Standards

To be determined later

#### C. Guides

##### 1. Turkish National Guides

1	A Guide on Format and Content of Site Report for Nuclear Power Plants / GK-GR-01, 2009	2009	Engineering survey
2	Guide on Specific Design Principles (Özel Tasarım İlkeleri Kılavuzu), 2012	2012	Design
3	A Guide on Establishing and Implementing a Quality Assurance Programme for Safety in Nuclear Installations / GK-KYS-01, 2009	2009	General guides
4	A Guide on Management of Non-Conformance Control and Corrective Actions for Safety in Nuclear Installations / GK-KYS-02, 2009	2009	General guides
5	A Guide on Management of Document Control and Records for Safety in Nuclear Installations / GK-KYS-03, 2009	2009	General guides
6	A Guide on Inspection and Testing for Acceptance for Safety in Nuclear Installations /GK-KYS-04, 2009	2009	General guides
7	A Guide on Assessment of the Implementation of the Quality Assurance Programme for Safety in Nuclear Installations / GK-KYS-05, 2010	2010	General guides
8	A Guide on Quality Assurance in Procurement of Items and Services for Safety in Nuclear Installations / GK-KYS-06, 2010	2010	General guides

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
9	A Guide on Quality Assurance in Manufacturing for Safety in Nuclear Installations / GK-KYS-07, 2011	2011	Construction
10	A Guide on Quality Assurance in Research and Development for Safety in Nuclear Installations /GK-KYS-08, 2011	2011	General guides
11	A Guide on Establishing and Implementing a Quality Assurance Programme in Siting for Safety in Nuclear Installations / GK-KYS-09, 2010	2010	Engineering survey
12	A Guide on Quality Assurance in Design for Safety in Nuclear Installations / GK-KYS-10,2011	2011	Design
13	A Guide on Quality Assurance in Construction for Safety in Nuclear Installations / GK-KYS-11,2011	2011	Construction
14	A Guide on Quality Assurance in Commissioning for Safety in Nuclear Installations / GK-KYS-12, 2011	2011	Commissioning
15	A Guide on Quality Assurance in Operation for Safety in Nuclear Installations / GK-KYS-13,2011	2011	Operation
16	A Guide on Quality Assurance in Decommissioning for Safety in Nuclear Installations / GK-KYS-14,2011	2011	Decommissioning
17	Directive on Determination of Licensing Basis Regulations, Guides and Standards and Reference Plant for Nuclear Power Plants, 2012	2012	General guides

## **2. IAEA Guides**

1	NS-G-1.6 Seismic Design and Qualification for Nuclear Power Plants. Safety Guide. Safety Standards Series. Vienna, 2003.	2003	Design
2	50-SG-S9 Safety Standards Series. Vienna, 1985.	1985	Engineering survey
3	NS-G-3.2 Dispersion of Radioactive Material in Air and Water and Consideration of Population Distribution in Site Evaluation for Nuclear Power Plants. Safety Guide. Safety Standards Series. Vienna, 23 April, 2002	2002	Engineering survey
4	SSG-9 Seismic hazards in site evaluation for Nuclear Installations (2010)	2010	Engineering survey



Item	Title and designation	Issue date	Stages
5	NS-G-3.4 Meteorological Events in Site Evaluation for Nuclear Power Plants. Safety Guide. Safety Standards Series. Vienna, 16 July, 2003.	2003	Engineering survey
6	NS-G-3.5 Flood Hazard for Nuclear Power Plants on Coastal and River Sites. Safety Guide. Safety Standards Series. Vienna, 18 March, 2004.	2004	Engineering survey
7	NS-G-3.6 Geotechnical Aspects of Site Evaluation and Foundations for Nuclear Power Plants. Safety Guide. Safety Standards Series. Vienna, 01 April, 2005.	2005	Engineering survey
8	NS-G-1.5, External Events Excluding Earthquakes in the Design of Nuclear Power Plants, Safety Standards Series, IAEA	2003	Engineering survey
9	GS-G-2.1 Arrangements for Preparedness for a Nuclear or Radiological Emergency Safety Guide	2007	Operation
10	GS-G-3.1, Application of the Management System for Facilities and Activities, 2006	2006	General
11	GS-G-3.2 The Management System for Technical Services in Radiation Safety Safety Guide	2008	General
12	GS-G-3.3 The Management System for the Processing, Handling and Storage of Radioactive Waste Safety Guide	2008	General
13	GSG-1 Classification of Radioactive Waste General Safety Guide	2009	Operation & Decommissioning
14	GSG-2 Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency General Safety Guide	2011	Design
15	RS-G-1.1 Occupational Radiation Protection Safety Guide	1999	Operation & Decommissioning
16	RS-G-1.3 Assessment of Occupational Exposure Due to External Sources of Radiation Safety Guide	1999	Design & Operation

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
17	RS-G-1.4 Building Competence in Radiation Protection and the Safe Use of Radiation Sources Safety Guide	2001	Design & Operation
18	RS-G-1.8 Environmental and Source Monitoring for Purposes of Radiation Protection Safety Guide	2005	Design & Operation
19	WS-G-2.3, Regulatory Control of Radioactive Discharges to the Environment, 2000	2000	Design & Operation
20	WS-G-2.5 Predisposal Management of Low and Intermediate Level Radioactive Waste Safety Guide	2003	Operation
21	WS-G-2.6 Predisposal Management of High Level Radioactive Waste Safety Guide	2003	Operation
22	WS-G-5.1 Release of Sites from Regulatory Control on Termination of Practices Safety Guide	2006	Decommissioning
23	WS-G-5.2 Safety Assessment for the Decommissioning of Facilities Using Radioactive Material Safety Guide	2009	Decommissioning
24	WS-G-6.1 Storage of Radioactive Waste Safety Guide	2006	Design & Operation
25	GS-G-1.1 Organization and Staffing of the Regulatory Body for Nuclear Facilities Safety Guide	2002	General guides
26	GS-G-1.2 Review and Assessment of Nuclear Facilities by the Regulatory Body Safety Guide	2002	General guides
27	GS-G-1.3 Regulatory Inspection of Nuclear Facilities and Enforcement by the Regulatory Body Safety Guide	2002	General guides
28	GS-G-1.4 Documentation for Use in Regulating Nuclear Facilities Safety Guide	2002	General guides
29	GS-G-3.5 The Management System for Nuclear Installations Safety Guide	2009	General guides
30	NS-G-1.1 Software for Computer Based Systems Important to Safety in Nuclear Power Plants Safety Guide	2000	Design
31	NS-G-1.10 Design of Reactor Containment Systems for Nuclear Power Plants Safety Guide	2004	Design
32	NS-G-1.11 Protection against Internal Hazards other than Fires and Explosions in the Design of Nuclear Power Plants Safety Guide	2004	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
33	NS-G-1.12 Design of the Reactor Core for Nuclear Power Plants Safety Guide	2005	Design
34	NS-G-1.13 Radiation Protection Aspects of Design for Nuclear Power Plants Safety Guide	2005	Design
35	NS-G-1.3 Instrumentation and Control Systems Important to Safety in Nuclear Power Plants Safety Guide	2002	Design
36	NS-G-1.4 Design of Fuel Handling and Storage Systems in Nuclear Power Plants Safety Guide	2003	Design
37	NS-G-1.7 Protection Against Internal Fires and Explosions in the Design of Nuclear Power Plants Safety Guide	2004	Design
38	NS-G-1.8 Design of Emergency Power Systems for Nuclear Power Plants Safety Guide	2004	Design
39	NS-G-1.9 Design of the Reactor Coolant System and Associated Systems in Nuclear Power Plants Safety Guide	2004	Design
40	NS-G-2.1 Fire Safety in the Operation of Nuclear Power Plants Safety Guide	2000	Design
41	NS-G-2.10 Periodic Safety Review of Nuclear Power Plants Safety Guide	2003	General guides
42	NS-G-2.11 A System for the Feedback of Experience from Events in Nuclear Installations Safety Guide	2006	Operation
43	NS-G-2.12 Ageing Management for Nuclear Power Plants Safety Guide	2009	Operation
44	NS-G-2.14 Conduct of Operations at Nuclear Power Plants Safety Guide	2008	Operation
45	NS-G-2.15 Severe Accident Management Programmes for Nuclear Power Plants Safety Guide	2009	Operation
46	NS-G-2.2 Operational Limits and Conditions and Operating Procedures for Nuclear Power Plants Safety Guide	2000	Operation
47	NS-G-2.3 Modifications to Nuclear Power Plants Safety Guide	2001	Operation
48	NS-G-2.4 The Operating Organization for Nuclear Power Plants Safety Guide	2001	Operation
49	NS-G-2.5 Core Management and Fuel Handling for Nuclear Power Plants Safety Guide	2002	Design
50	NS-G-2.6 Maintenance, Surveillance and In-service Inspection in Nuclear Power Plants Safety Guide	2002	Operation

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
51	NS-G-2.7 Radiation Protection and Radioactive Waste Management in the Operation of Nuclear Power Plants Safety Guide	2002	Operation
52	NS-G-2.8 Recruitment, Qualification and Training of Personnel for Nuclear Power Plants Safety Guide	2002	Operation
53	NS-G-2.9 Commissioning for Nuclear Power Plants Safety Guide	2003	Commisioning
54	NS-G-3.1 External Human Induced Events in Site Evaluation for Nuclear Power Plants, 2002	2002	Engineering survey
55	SSG-12 Licensing Process for Nuclear Installations Specific Safety Guide	2010	General guides
56	SSG-13 Chemistry Programme for Water Cooled Nuclear Power Plants Specific Safety Guide	2011	Design & Operation
57	SSG-2 Deterministic Safety Analysis for Nuclear Power Plants Specific Safety Guide	2010	Design
58	SSG-3 Development and Application of Level 1 Probabilistic Safety Assessment for Nuclear Power Plants Specific Safety Guide	2010	Design
59	SSG-4 Development and Application of Level 2 Probabilistic Safety Assessment for Nuclear Power Plants Specific Safety Guide	2010	Design
60	WS-G-2.1 Decommissioning of Nuclear Power Plants and Research Reactors Safety Guide	1999	Decommissioning
61	SSG-18 Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations	2011	Engineering survey
62	RS-G-1.2 Assessment of Occupational Exposure Due to Intakes of Radionuclides Safety Guide	1999	General guides

### **3. Russian Federation Guides**

1	SP 40-102-2000 Design and mounting of water supply and sewer pipelines from polymeric materials	2000	Design & Construction
2	SP 40-103-98, "Design and installation of cold and hot water supply systems using metalpolymeric pipes"	1998	Design
3	SP 40-104-2001 "Design and assembly of underground water pipelines made of glass-reinforced plastic pipes"	2001	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
4	SP 40-105-2001 "Design and installation of underground sewer pipelines made of glass-reinforced plastic pipes"	2001	Design
5	SP 40-107-2003 "Design, assembly and operation of plumbing systems of polypropylene pipes"	2003	Design
6	SP 40-108-2004 "Design and assembly of building water supply and heating systems made of copper pipes"	2004	Design
7	SP 66.13330.2011 "Design and construction of pressure water supply and drain systems using pipes made of high-strength cast iron with spheroidal graphite"	2011	Design
8	Tables for the hydraulic calculation of sewer networks and sag pipes using the formula of Academician N. Pavlovsky. A Reference Guide. AA Lukinykh, NA Lukinykh	1974	Design
9	Tables for the hydraulic design of water supply pipes. Reference Guide. F.A. Shevelev, A.F. Shevelev	1973	Design
10	SP 1.13130.2009 "Fire protection systems. Evacuation routes and exits"	2009	Design
11	SP 2.13130.2009 "Fire protection systems. Providing fire protection facilities"	2009	Design
12	SP 3.13130.2009 "Fire protection systems. Warning system and evacuation in case of fire. Fire safety requirements"	2009	Design
13	SP 4.13130.2009 "Fire protection systems. Limit the spread of fire protection facilities. Requirements for space-planning and design solutions"	2009	Design
14	SP 5.13130.2009 "Fire protection systems. Fire alarm and fire extinguishing automated systems. Design standards and rules"	2009	Design
15	SP 6.13130.2009 "Fire protection systems. Electric equipment. Fire safety requirements"	2009	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
16	SP 7.13130.2009 "Heating, ventilation and air conditioning. Fire Requirements"	2009	Design
17	SP 8.13130.2009 "Fire protection systems. Outdoor sources for fire water supply. Fire safety requirements"	2009	Design
18	SP 9.13130.2009 "Fire Equipment. Fire extinguishers. Operating Requirements"	2009	Design
19	SP 10.13130.2009 "Fire protection systems. Internal fire water systems. Fire safety requirements"	2009	Design
20	SP 11.13130.2009 "The location of fire protection units. Procedure and method for determination"	2009	Design
21	SP 13.13130.2009 "Nuclear power stations. Fire safety requirements"	2009	Design
22	SP 17.13330.2011 Building Regulations. Part II. Design standards. Chapter 26. Roof.	2011	Design
23	SP 64.13330.2011 Wooden construction. Actualized edition of SNIIP II-25-80	2011	Design
24	SNIIP III-42-80 "Trunk pipelines"	1985	Design
25	SP 18.13330.2011 Master Plans industry. Rulebook. Actualized version of SNIIP II-89-80 *	2011	Design
26	SP 14.13330.2011 Construction in seismic regions. Code of Practice. Actualized edition of SNIIP II-7-81	2011	Design
27	SP 20.13330.2011 Loads and impact. Rulebook + Annex Ж (recommended) zoning maps of the Russian Federation on climatic characteristics. Actualized edition of SNIIP 2.01.07-85 *	2011	Design
28	SNIIP 2.03.06-85 Aluminium construction	1985	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
29	SNiP 2.04.12-86 Calculation of the strength of steel pipes	1986	Design
30	SNiP 3.04.01-87 Insulation and finish coats	1987	Design
31	SP 51.13330.2011 Protection against noise. Code of Practice. Actualized edition of SNiP 23-03-2003	2003	Design
32	SP 52.13330.2011 Natural and artificial lighting. Code of Practice. Actualized edition of SNiP 23-05-95 *	1995	Design
33	SNIP 05/31/2003 Public buildings for administrative purposes	2003	Design
34	RD 153-34.0-45.512-97 Typical manual gazomaslyanoy system hydrogen cooling of generators	1997	Design
35	RD 34.03.304-87 Rules for making fire-fire-resistant sealing requirements of cable lines	1987	Design
36	RD EO 0586-2004 Design norms of thermal insulation of equipment and pipelines of nuclear power plants	2004	Design
37	MUK 2.6.1.29-2000 Guidelines on the calculation of allowable discharges of radioactive substances into surface water plant	2000	Design
38	MU 1.3.2.06.027.0017-2010 Guidelines. Calculation and justification of the size of the sanitary protection zone and surveillance zone around the nuclear power plant	2010	Design
39	SP 11-110-99 Supervision of construction of buildings and structures	1999	Design
40	SP 11-105-97 Code of practice. Engineering geological site investigations for construction. Parts I, II, III, IV, V, VI	1997	Engineering survey
41	SP 11-104-97 Code of Practice. Engineering Geodetic Surveys for Construction	1997	Engineering survey
42	SP 11-103-97 Engineering and hydrometeorological survey for construction	1997	Engineering survey
43	SP 33-101-2003. Code of practice. Design and construction. Determination of design hydrological performance	2003	Engineering survey

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
44	SP 11-102-97 Engineering environmental surveys for construction purposes	1997	Engineering survey
45	SP 52-101-2003 Code of rules "Concrete and concrete reinforced structures without prestressed valves"	2003	Construction
46	SP 53-102-2004 Code of rules "General rules of steel structures design"	2004	Construction
47	SP 50-101-2004 Code of rules "Design and arrangement of buildings pedestals and foundations"	2004	Construction
48	SP 50-102-03 Design and arrangement of pile foundations	2003	Construction
49	SP 52-102-2004 Prestressed concrete reinforced structures	2004	Construction
50	SP 53-101-98 Fabrication and quality control of concrete reinforced structures	1998	Construction
51	RDMU 34-590.41-85 Methodic guidelines on design of the arrangement and mechanization of repair works at NPPs	1985	Operation
52	RD 210.006-90 Process design codes of NPP with WWER	1990	Design
53	RB-006-98 Determining the input seismic ground motions for design bases	1998	Engineering survey
54	RD 04-15-94 Statement on the procedure for checking the knowledge of rules, regulations and instructions for safety of the personnel of nuclear power stations and operating organizations	1994	Operation
55	RB-022-01 Recommendations on evaluation of tornado characteristics for nuclear facilities	2001	Design
56	RD EO 0052-00 with change 2 Diesel Generator Plants for NPPs. General technical requirements	2000	Operation
57	RD 95 10547-99 Guidelines for the application of the leak-before-break concept to the pipelines of nuclear power installations (R-TPR-99)	1999	Operation



<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
58	RD 153-34.0-49.105.01 Design norms of automatic installations for water fire fighting of cable structures	2001	Design
59	RD EO 0586-2004 Design norms of heat insulation of NPP equipment and pipelines	2004	Design
60	RB G-05-039-96 Guidelines for analysis of the danger from accidental explosions and identification of its mechanical impact parameters	1996	Design
61	RD 10-400-01 Standards for strength computation of heat supply pipelines	2001	Design
62	RD 10-577-03 (SO 153-34.17.421-2003) General procedure for metal inspection and lifetime extension of the mail elements of the boilers, turbines and pipelines at fossil fuel power stations	2003	Operation
63	RD 36-62-00 Lifting equipment. General technical requirements.	2000	Operation
64	RD 78.143-92 Protective alarm systems and sets. Elements of the technical strength of the objects. Standards for design.	1992	Design
65	RD 95 540-88 Procedure. Order of design development and production of the nuclear reactor cores and its components	1988	Design
66	RD 95 10544-99 Systems of physical protection for nuclear materials and facilities. Procedure for design arrangements	1999	Design
67	RD EO 0554-2005 Nuclear power plants. Safety significant control systems. Design. Upgrading, operation. General provisions	2005	Design
68	Special conditions of delivery of equipment, instruments, materials and items for nuclear power engineering facilities with respect of the technical decision of 18.06.2001, approved by ZAO ASE and VO «Safety»	2001	Operation
69	MDS - 21.1-98 Prevention of fire spread	1998	Construction

Item	Title and designation	Issue date	Stages
70	MDS - 21-2.2000 Methodic recommendations on fire rating and fire safety of concrete reinforced structures	2000	Construction
71	RD 95 10528-96 Guide on parameters and loads determination on NPP steel structures	1996	Design
72	Guide on NPP buildings concrete reinforced structures calculation on external blast loads effect		Design
73	RD 95 10534-90 Guide on loads determination on NPP civil structures and equipment at containers and other bodies falling down to the pool filled with water	1990	Design
74	Rules for arrangement of electric installations PUE, 6th edition	2000	Operation
75	Rules for arrangement of electric installations PUE, 7th edition, Sections 6, 7	2002	Operation
76	PEEP (6-th edition, 2003) Rule for operation of consumption power facilities	2003	Operation
77	RB-024-11 Provisions of Main Recommendations on Conducting Level 1 Probabilistic Safety Assessment for Internal Initiating Events occurring at All Plant Operational Modes	2011	Design
78	RB-032-04 Main recommendations on NPP PSA execution, 2004	2004	Design
79	RD 95-10532-96 Manual on determination of shock waves parameters at primary circuit pipelines rupture, excessive pressure in the containment rooms and loads from stream effect on NPP enclosing structures	1996	Design
80	RD-03-34-2000 Requirements to contents and composition of verification report and justification of SW applied for justification of nuclear power utilization facilities safety	2000	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
81	RD-03-17-2001 Regulations on SW certification applied at justification or safety provision of nuclear power utilization facilities	2001	Operation
82	SO 153-34.03.603-2003 Procedure for application and testing of protection devices used at power facilities	2003	Operation
83	SO 153-34.11-7-2003 Waterworks in seismic areas	2003	Design
84	SO 153-34.21.122-2003 Procedure for design of lightning protection at buildings, structures and industrial lines	2003	Operation
85	SO 153-34.45.310 (RD 34.45.310-89) Instructions for integrated testing of generators and generator-transformer units at power plants	1989	Design
86	SO 34.45-51.300-97 (RD 34.45-51.300-97) The scope and norms of electrical tests	1997	Design
87	SO 34.35.125-99 (RD 153-34.3-35.125-99) Guidelines for protection of electrical networks 6-1150 kV against lightning and internal overvoltages	1999	Design
88	RB-044-09 Main Recommendations for Probabilistic Safety Analysis, Level 2, for Nuclear Plants with WWER Reactors	2009	Design
89	RB-045-08 Dynamic Monitoring of Structural Components at Nuclear Energy Facilities	2008	Construction
90	RB-041-07 Guide on the Conduct of Periodic Safety Assessment of a Nuclear Plant Unit	2007	Design & Operation
91	RB-040-09 Computational Correlations and Techniques for Calculating Hydrodynamic and Thermal Characteristics of Components of Water-Cooled Nuclear Power Facilities	2009	Design

Item	Title and designation	Issue date	Stages
92	RD-03-19-94 «Basic provisions for preparing, considering and decision making with regard to changes in design, engineering, process and operational documentation, which are relevant to nuclear and radiation»	1994	Design
93	RD-03-35-96 The Guide for certification of equipment, items and production technologies for nuclear facilities, radiation sources and storage facilities, Gosatomnadzor of Russia, 1996	1996	Construction
94	RD-03-36-2002 Conditions of supply of imported equipment, items, materials and utilities for nuclear facilities, radiation sources and storage facilities of the Russian Federation, Gosatomnadzor of Russia, 2002	2002	Operation
95	RD-03-41-2002 Requirements to the composition of the package and the content of the documents justifying the activity in design and manufacture of the equipment for nuclear energy facilities, Gosatomnadzor of Russia, 2002	2002	Design
96	RD-03-58-2001 Requirements to the composition and the content of the information on justification of technical safety of steam- and water-boilers, pressure vessels, steam and hot water pipes, hoisting cranes of nuclear energy facilities, Gosatomnadzor of Russia, 2001	2001	Design
97	RD-04-01-2005 The Regulations on Certificate for reactor unit of nuclear power plants	2005	Design
98	RD-04-22-96 Guidelines on assessment of reliability of the integral testing of the system of confinement of nuclear power plants	1996	General requirements
99	RD 25.818-87 General technical requirements and methods of testing for seismic resistance of instruments and means of automation being delivered to NPP.	1987	Construction

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
100	RD 34.45-51.300-97 Scope and Test standards for electric equipment, 1997	1997	Operation
101	RD 95 10527-95 Temporary design standards for physical protection systems of nuclear power plants.	1995	Design
102	RD EO 0069-972-88 Regulations on arrangement of maintenance and repair of NPP equipment.	1988	Operation
103	The organization works with the staff at nuclear power plants (Order of Rosatom from 15.02.2006 № 60. Order of the concern "Rosenergoatom" from 28.03.2006 № 23)	2006	General requirements
104	MR 1.5.2.05.999.0025-2011 Calculation and design of earthquake-resistant nuclear power plants	2011	Design
105	MR 1.5.2.05.999.0026-2011 Standards for designing main structures of nuclear power plants	2011	Design
106	MR 1.5.2.05.999.0027-2011 Design Standards for earthquake resistance for nuclear power plants	2011	Design
107	RD EO-0159-99 Provision of psycho-physiological laboratory facility to ensure the use of atomic energy (typical), Minatom of Russia, 1999	1999	Operation
108	RD-01-07-2006 Regulations on the department for the regulation of safety of nuclear fuel cycle facilities, supervision over accounting and control of nuclear materials and radioactive substances and physical protection	2006	Operation
109	OPKP AES-90 Main provisions on selection, preparation, admission to operation and monitoring in the process of operation of nuclear power plant personnel.	1990	Operation
110	RD-EO-0007-93 Typical operation manual for buildings and facilities of nuclear power plants.	2005	Operation

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
111	The technical operation of electric consumers, ed. 5-e, 1999	1999	Operation
112	Time criteria for decision making when dealing with soils, solid construction, industrial and other wastes containing gamma-emitting radionuclides, 1992	1992	Design
113	RD EO 0606-2005 (MRKR-SHR-2004) Methods of calculating the resistance of reactor vessels for VVER NPP to brittle fracture	2005	Design
114	SPiR-O-2008. Set of rules and guidelines for the supporting structures of NPP elements for VVER	2008	Design
115	RTD 2730.300.10-2000 Welding and welding parts and assembly units of nuclear power plants from corrosion-austenitic steels. Technical requirements	2000	Design
116	I-2730.91.03-92 Execution for control of surfacing and conduct destructive testing of weld metal during checking welding (surfacing) material intended for corrosion protection coatings NPP equipment and pipelines	1992	Design

#### **4. Third Party Guides**

1	US NRC Regulatory guide RG 1.97 -only for PAMS 1983 Instrumentation for light-water-cooled nuclear power plants to asses plant and environs conditions during and following an accident	1983	Design
2	Basic provisions of KKS Revision 4, 1995	1995	Design
3	Volume A. General guide on KKS application Revision 1, 1988	1988	Design

<b>Item</b>	<b>Title and designation</b>	<b>Issue date</b>	<b>Stages</b>
4	Volume B. Section B1. Guide on KKS application in heat-mechanics Revision 1, 1988	1988	Design
5	Volume B. Section B2. Guide on KKS application in the construction Revision 1, 1988	1988	Design
6	Volume B. Section B3. Guide on KKS application in electrical engineering and I&C Revision 1, 1988	1988	Design
7	Volume B. Section B4. Guide on KKS application in I&C Revision 1, 1993	1993	Design
8	KKS codes reference book 1991	1991	Design
9	US NRC NUREG-800 Standard plan for providing safety of NPP expertise	1981	Design
10	US NRC Regulatory Guide 1.165 NRC (U.S. Nuclear Regulatory Commission) (1997). Regulatory Guide 1.165. Identification and characterization of seismic sources and determination of safe shutdown earthquake ground motion, U.S. Nuclear Regulatory Commission, Office of Nuclear Regulatory Research, March 1997.	1997	Design
11	ASCE 4-98 Seismic Analysis of Safety-Related Nuclear Structures and Commentary, American Society of Civil Engineers, 1998.	1998	Design
12	ASCE 43-05 Seismic Design Criteria for Structures, Systems, and Components in Nuclear Facilities	2005	Design