

FEDERAL SUPERVISION SERVICE OF RUSSIA
ON NUCLEAR AND RADIATION SAFETY
(GOSATOMNADZOR OF RUSSIA)

REGULATORY DOCUMENTS

TYPE PROGRAM
OF INITIAL TRAINING OF STATE INSPECTOR
FOR SUPERVISION OVER RADIATION SAFETY OF
NUCLEAR POWER PLANTS

APPROVED BY:

Order of Director of
Gosatomnadzor of Russia
No. 90 of 19.10.2001

MADE EFFECTIVE:

Since 01.01.2002

RD-04-11-2001

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I. GENERAL PROVISIONS

1. Type program of initial training of the state inspector for supervision over radiation safety of nuclear power plants (hereinafter referred to as the Program) has been developed in accordance with the Statute on Federal supervision of Russia on nuclear and radiation safety. Statute on professional training of employees of Gosatomnadzor of Russia (RD-03-21-99), Generic job description of Chief State inspector and State inspectors of Gosatomnadzor of Russia (RD-03-30-98).
2. The Program shall determine the type scope and essence of academic and practical training of national inspectors appointed to relevant job positions in the units of Interregional Territorial Offices of Gosatomnadzor of Russia (hereinafter referred to as the Offices), Departments for supervision over nuclear and radiation safety (NRS) of nuclear plants, and inspectorates of NRS at specific nuclear power plants (NPP), and be the fundamental for creating individual programs of initial training of the mentioned employees.

Procedure for development, signing and approval of individual programs, as well as arrangement and conduct of initial training based on these programs shall be regulated by the Statute on professional training of employees of Gosatomnadzor of Russia.

3. The Program shall be recorded by officials responsible for arrangement of the initial training of subordinate inspectors, as well as persons responsible for initial training of these employees.
4. List of legislative instruments and other regulatory and legal acts of the Russian Federation, regulatory documents of Gosatomnadzor of Russia to be studied in the course of initial training.

II. GENERAL ACADEMIC TRAINING

Topic 1. Basic definitions in the field of atomic energy use.

Nuclear materials. Special non-nuclear materials. Nuclear (fresh, spent) fuel. Radioactive substances. Release and discharge of radioactive substances. Solid and liquid radioactive wastes. Radioactive aerosols (natural, artificial).

Ionizing radiation. Natural and man-caused transformed radioactivity background. Effective irradiation dose.

Nuclear facility. Radiation source. Nuclear material and radioactive substance storage facility. Radioactive waste storage.

Nuclear accident. Radiation accident. Design basis accident. Beyond design basis accident.

Safety in atomic energy use (nuclear, radiation, engineering, fire safety).

Safety assurance in atomic energy use.

Topic 2. Legal framework for regulation of relations appeared in atomic energy use

Category of objects and types of activity, which the Federal Law "On atomic energy use" is applied to.

Ownership to nuclear facilities, radiation sources, storage facilities, nuclear materials and radioactive substances.

Federal codes and regulations in the field of atomic energy use. Their purpose, procedure of development, approval and implementation.

Siting and construction of nuclear facilities, radiation sources, and storage facilities. Procedure for making decisions on these issues. Main requirements to safety of nuclear facilities of the listed categories.

Buffer area and radiation-control area. Purpose and characteristics

State management of atomic energy use and State control of safety in atomic energy use.

Competence of federal executive bodies authorized to exercise the specified functions.

Operating organizations (operators) and organizations that perform the activities (services) for the operating organizations. Their objectives, obligations and responsibilities.

Management of nuclear materials, radioactive substances, and radioactive wastes. Basic requirements to their transportation, storage and treatment.

Physical protection of nuclear facilities, radiation sources, storage facilities, nuclear materials and radioactive substances. Basic requirements to organization and maintenance of this protection.

Authorities of the President of the Russian Federation, Government of the Russian Federation, State Government bodies of the Russian Federation, entities of the Russian Federation, and local government bodies in the field of atomic energy use.

Rights of the organizations, including the public ones (associations) and citizens in the field of atomic energy use.

Recommendations of International organizations related to radiation safety. The International Committee on Radiological Protection, European Nuclear Power Engineering Association, International Atomic Energy Agency, Organization on Economic Cooperation and Development, World Health Organization, etc.

Responsibility for breach of the laws of the Russian Federation in the field of atomic energy use.

Topic 3. Basic objectives and functions of Gosatomnadzor of Russia

General information about the system of federal executive bodies of the Russian Federation.

Mission and Status of Federal supervision services of Russia.

Objectives and authorities of Gosatomnadzor of Russia as a state control body of nuclear and radiation safety in atomic energy use.

Basic provisions of the Agreements of cooperation of Gosatomnadzor of Russia with other State bodies of safety control in atomic energy use.

The structure of Gosatomnadzor of Russia. Mission and basic objectives of Central Office divisions, Scientific and Engineering Center for Nuclear and Radiation Safety and Interregional Territorial Office for information support and protection.

Topic 4. Offices of Gosatomnadzor of Russia

Mission of the Offices of Gosatomnadzor of Russia. Type structure of the Office. Basic objectives, competence and management of the Office activity.

Liabilities, rights and responsibilities of the Office Director.

Topic 5. Office Departments of Gosatomnadzor of Russia

Mission and basic objectives of the Departments for supervision over nuclear and radiation safety (NRS) of nuclear facilities and Inspection Departments of NRS at specific NPPs. Basic objectives, competence and management of the Department activity.

Liabilities, rights and responsibilities of the Department Leaders.

Planning of works and reporting of the Departments.

Topic 6. State Inspector of the Office of Gosatomnadzor of Russia

Legal status of state inspector. Standard job description of State Inspector. Procedure for training and retraining of state inspector. Planning of works and reporting of state inspector.

Liabilities, rights and responsibilities of State Inspector.

Procedure for assignment (secondment) of State inspectors within Russia and abroad.

Topic 7. Licensing (permissive) activity of Gosatomnadzor of Russia

Purpose of the License (Permit) for the right to perform the activity in the field of atomic energy use.

Based on the Government Decrees of the Russian Federation the List of activities in the field of atomic energy use, the license to which shall be issued by Gosatomnadzor of Russia, and List of job positions of NPP employees, who shall obtain Permits of Gosatomnadzor of Russia for the right to perform the activities in the field of atomic energy use.

Authorities of Gosatomnadzor of Russia in the field of licensing (permissive) activity.

Basic components of the procedure for licensing of the organizations activity.

Type composition of the documents, the organization shall submit to obtain a license, and general procedure of review of these documents. Grounds for decisions to admit the licensing documents to examination or to reject them.

Procedure for formalizing licenses. Validity conditions of licenses and standard list of basic requirements to be included in these conditions.

Principles of distribution of the license issuance authorities between the Central Office and Territorial Offices of Gosatomnadzor of Russia.

Official of the Central Office and Territorial Offices of Gosatomnadzor of Russia that have the rights to make decisions on issuance or denial of a license.

Grounds for denial of licenses, as well as for termination of the validity conditions or their cancellation.

The circumstances that require for re-issuing a license or obtaining a license duplicate.

Procedure for issuance of duplicate licenses. Introduction of changes in the licenses.

Procedure for license maintenance.

Basic regulations on procedure for registration and issuance of permits to NPP employees for the right to perform the activities in the field of atomic energy use.

Topic 8. Supervision of activity of Gosatomnadzor of Russia

Concept content “State supervision over safety in atomic energy use” (hereinafter referred to as “the state supervision”).

Principles and regulatory and legal frameworks for organization and realization of the State supervision.

Concept content “Requirements to safety assurance in atomic energy use”

Subjects of State supervision

Forms of realization of the State supervision (analysis of safety state of nuclear facilities, inspections, application of sanctions).

Purposes of the analysis of safety state of nuclear facilities. Sources and nature of information related to the safety state of the specified facilities.

Procedure for processing and recording of such information.

Purposes of inspections. Types of inspections. Basic objectives of the complex, ad hoc, and reactive inspections.

Standard list of the documents to be developed for organizations and inspections. Content of the basic stages of preparation for and performance of the inspections.

Requirements to the structure and scope of the working program of inspection and plan of inspection.

Procedure for notification of inspected organizations about the forthcoming inspections.

General requirements to inspections.

Obligations, rights and responsibilities of inspectors.

Procedure for summarizing the inspection performed and presentation of the results thereof.

Control over rectification of drawbacks (violations) revealed in the course of the inspection.

Types of sanctions provided by the legislation of the Russian Federation to be applied by Gosatomnadzor of Russia in relation to organizations and their officials.

Basic principles and procedure of using sanctions

General procedure for registration and analysis of the State supervision results.

Topic 9. Legal status of State employees and procedure of working for public service.

Definitions “Public position”, “State/public employee”, “Public service”.

Principles of the public service. Classification of public positions of the public service.

Certification and qualification exams of the State employees. Skill categories of state employees.

Rights, basic obligations and responsibilities of state employees. Limitations connected with the public service. Guarantees for the State/public employees.

Financial allowance of the state/public employees.

Working for the Public service. Record of the public service and procedure for its calculation.

III. SPECIAL ACADEMIC TRAINING

Topic 10. Theoretical framework of nuclear reactors

Radioactivity, radioactive transformations, nuclear and physical properties of nuclides. Ionizing irradiation, radiation dosimetry. Concept of radionuclide activity, measurement units of activity, concept of ionizing radiation and kinds of radiation, technical terms in this field, measurement units of absorbed, equivalent dose and effective equivalent dose, interaction between ionizing radiation and substance. Bare and sealed radiation sources.

Topic 11. Protection against ionizing radiation

Biological impact of external and internal exposure on the human organism. Radiochemical toxicity of radionuclides. Means and methods of protection against radiation impact under external and internal; exposure. Calculation of external and internal exposure doses, analysis of the radiation protection.

Topic 12. Technical devices and methods for dosimetry and radiometric surveillance

Principles of operation of scintillation, ionizing, thermoluminescent and photographic paper detectors. Registration of alpha-, beta-, gamma- and neutron radiations.

Types, kinds, and parameters of available dosimeters. Measurement of air volumetric activity. Measurement of water volumetric activity. Spectrometry of gamma, beta, and alpha radiations. Methods of individual dosimetry control.

Topic 13. Foundations for radiation regulation

Classification of nuclear facilities, radiation sources and storage facilities according to potential radiation hazard. Location of nuclear facilities, radiation sources and storage facilities, zoning. Environmental impact of NPP operation. Maximum permissible releases and emission from NPPs. Concept of the main dose limit, values of dose limits for personnel and public. Categories of irradiated persons. Permissible levels that correspond to the main dose limits for irradiated persons of Categories A and B. Notion of the annual limit on intake (ALI). Notion of reference levels, their determination and application. Personnel and public exposure. Emergency exposure of the personnel and public. Monitoring of environmental state in the buffer area and radiation-control area.

Topic 14. Organizational measures for radiation safety support in operation of NPP

Orders of appointment of the persons responsible for radiation safety, registration and storage of ionizing radiation sources, radiation monitoring, as well as other organizational and regulatory documents (statutes, job descriptions, sanitary and sanitary-and-epidemiologic certificates for the right to perform the activities at ionizing radiation sources, etc.).

Topic 15. Organization of radiation safety assurance in performance of radiation hazardous activities

Permit to works. Journals of works based on the permits and orders. Persons responsible for safe performance of the works, responsibility of the works manager. Officials that have the right to issue permits and orders for performance of works. Control over issuance of the permits. Admittance of the crew to works. In-service supervision. Work breaks and completion of works.

Topic 16. Individual protective measures and personal hygiene

Individual protective measures for personnel. Insulating individual protective measures. Individual dosimetry control. Main and additional sets of individual protection. Periods for change of working clothes.

Topic 17. Organization of sanitary and access control at NPP

Division of premises and sanitary inspection rooms to categories. Peculiar features for entry (exit) to/from the controlled access area of NPP. Ventilation, gas purification of the controlled access area. Support of tightness of the non-serviced premises. Requirements to working clothes according to the levels of radiation contamination. Stationary and temporary sanitary locks. Removal of the equipment from the controlled access area and territory of NPP.

Topic 18. Decontamination of the rooms and equipment

The concept of removable and non-removable contaminations. Radiation safety requirements to decontamination of the rooms and equipment.

Topic 19. Prevention of radiation accidents and elimination of consequences

Organizational and technical measures for prevention of radiation accidents. Basic provisions of the Instruction for prevention of accident and fire and elimination of their consequences, and the Plan of measures for personnel protection in accidents. Basic requirements to elimination of consequences of the radiation accident.

Topic 20. Organization of radiation, process and dosimetry monitoring at NPP

Department of NPP radiation safety. Types of the radiation monitoring based on the parameters of radiation situation. Radiation, process and dosimetry monitoring, its types and scopes.

Radiation monitoring of integrity of the protective barriers, non-dissemination of radioactive contamination. Radiation monitoring of the environment in the buffer area and radiation control area. Measures for reduction of the personnel dose limits, radioactive releases and discharges from NPP, restriction of the public exposure, and reduction of radioactive contamination of the environment. Radiation control devices and instruments. Individual control of personnel exposure depending on nature of the works. Cards of individual exposure recording.

Permissible and reference levels of personnel exposure (for Categories A and B). Record of the radiation control data. Support of the radiation safety requirements for fresh and spent nuclear fuel storage.

Topic 21. Radioactive waste management

Quality assurance program for radioactive waste management. Organization and state of radioactive waste record and control. Cold (low-level) radioactive liquid waste, medium-activity liquid waste, high-level liquid wastes. Solid wastes of various groups. Basic requirements to collection, sorting, packaging, and temporary storage of radioactive wastes. Control over

volume and activity of liquid radioactive wastes, norms of formation of liquid and solid radioactive wastes, registration of liquid and solid radioactive wastes. Technical means and methods of radioactive waste treatment. Radiation control during storage and treatment of radioactive wastes. Control over functioning state of the gas radioactive waste handling equipment. Control of the storage state. Measures for reduction of the radioactive waste volumes. Containers for radioactive wastes. Storage of radioactive wastes beyond the containers.

Topic 22. Transportation of nuclear fuel and radioactive substances

Radiation safety assurance for transportation of fresh and spent nuclear fuel. Types of shipping-package sets. Transport categories of radiation packages. Shipping of radiation packages by transport facilities. Requirements for transportation of radiation packages by motor transport.

Control of the radiation environment during transportation of radioactive substances and ionizing radiation sources, requirements to permissible contamination levels on the surface of transport facilities. Measures to be taken in accidents and fires during transportation of radioactive substances and ionizing radiation sources.

Topic 23. Regulatory requirements for radiation safety assurance in NPP operation

Radiation safety assurance in case of an accident at NPP. Design operating condition of the radiation control system and radiation hazard signaling. The concept of protective barriers on the way of spread of radioactive substances. Operating limits of safe operation based on the radiation parameters. Radiation safety assurance when removing the equipment for repair, transshipping the nuclear fuel. Requirements to tightness of premises within the controlled access area, boxes, as well as requirements to ventilation and has purification. Criteria of accidents and incidents at NPP. Criteria of intervention in the contaminated territories.

Topic 24. Regulatory requirements for radiation safety support in NPP decommissioning

Comprehensive investigation, substantiation of the radiation safety. Stages of NPP decommissioning. Process cards for each type of the dismantled equipment. Dismantling of heavy and high-level activity equipment. Large size radioactive wastes. Operation of the ventilation, special gas treatment systems and radiation control at all the stages of NPP decommissioning.

IV. PRACTICAL TRAINING

Topic 25. Familiarization with buildings, constructions, premises, and plants, equipment and systems located herein in the walk-down routes of the State inspector for supervision over radiation safety at NPP

Topic 26. Familiarization with equipment of the workplace of the NPP operating personnel (dosimetry control board), radiation safety documentation, instrumentation yards, spares (according to the properly approved List). Familiarization with spent nuclear fuel ponds.

Topic 27. Independent development of the working programs of ad hoc inspections of the radiation safety state at NPP (based on the standard program).

Topic 28. Participation in the complex, ad hoc and reactive inspections of radiation safety state at NPP/ Familiarization with the reporting documents. Performance of the inspection under control of a person (tutor) responsible for independent training.

Topic 29. Participation in review of the documents to be submitted to obtain licenses for kinds of activities in the field of atomic energy use (related to the job profile of State inspector).

Topic 30. Acquisition of the operating skills related to radiation and dosimetry control instruments, individual protective means

Topic 31. Acquisition of the operating skills of personnel computers (knowledge of the basic applications, text editors, database manipulation, work in the local network, etc.)

Topic 32. Acquisition of knowledge of the paper work fundamentals, methods of planning of the own activity, collection and recording of information, analysis and drawing-up of the operation results.

APPENDIX

List of legislative and other regulatory legal acts of the Russian Federation, regulatory documents of Gosatomnadzor of Russia to be studied in the course of initial training

International Treaties of the Russian Federation

1. Nuclear safety convention. 1996
2. Associated convention on safe management of spent fuel and radioactive wastes, 1997

Laws of the Russian Federation

3. Constitution of the Russian Federation
4. "On atomic energy use", No. 179-FZ of November 21, 1995 (with amendments and supplements as of February 10, 1997, No. 28-FZ, July 10, 2001 No. 94-FZ).
5. "On radiation safety of the population", No. 3-FZ of January 9, 1996.
6. "ON environmental protection", No. 2060-1 of December 19, 1991 (with amendments as of July 10, 2001, No. 93-FZ).
7. "On ecological assessment", 174-FZ of November 23, 1995.
8. On the fundamentals of the public service of the Russian Federation, No. 119-FZ of July 31, 1995.
9. Administrative Offences Code of RSFSR dated June 24, 1984
10. "On administrative liability of organizations for breach of the laws in the field of atomic energy use," No. 68-FZ of May 12, 2000.
11. Criminal code of the Russian Federation, No. 63-FZ of June 13, 1996 (with amendments of Clauses 205, 215, 220, 221 and 247).

Decrees and Order of the President of the Russian Federation

12. On federal executive bodies authorized to exercise the state safety control in atomic energy use, No. 26 of January 21, 1997.
13. Statute on Federal supervision of Russia for nuclear and radiation safety, No. 283-rp of June 5, 1992, with amendments as of 16.09.93, No. 636-rp and as of 26.07.95 No. 350-rp.
14. On operating organization of nuclear power plants of the Russian Federation, No. 1055 of September 7, 1992.

Government Orders of the Russian Federation

15. "On procedure for development of the radiation and hygiene passports of organizations and territories, No. 93 of January 28, 1997.
16. "On the list of medical contraindications and list of job position, which the contraindications are applied to, as well as the requirements to medical examinations and psychophysiologic evaluations of nuclear facilities employees," No. 233 of March 1, 1997.

17. "On approval of the list of job positions of nuclear facility employees, who shall obtain the Permits of the Federal supervision service of Russia on nuclear and radiation safety for the right to perform the activities in the field of atomic energy use," No. 240 of March 3, 1997.
18. "On approval of the Regulation for licensing of the activity in the field of atomic energy use," No. 865 of July 14, 1997.
19. "On approval of the Regulation for investigation and registration of industrial accidents," of March 11, 1999.
20. "On federal target program "Nuclear and radiation safety of Russia" for 2000-2006," No. 149 of February 22, 2000.
21. "On approval of the Rules for organization of the State accounting and control system of radioactive wastes and substances," No. 1298 of October 11, 1997.

Interdepartmental agreements of Gosatomnadzor of Russia

22. Agreement on Cooperation in the field of state radiation safety control in atomic energy use between the Ministry of Public Health of the Russian Federation and Federal Supervision service of Russia on nuclear and radiation safety (Gosatomnadzor of Russia), No. 85 of October 12, 1998.
23. Agreement on Cooperation between the Federal Supervision service of Russia on nuclear and radiation safety and Ministry of Internal Affairs related to the issues of safety control in the field of atomic energy use, made effective on May 5, 1999.
24. Agreement on Cooperation between the Federal Service of Russia on hydrometeorology and environment monitoring (Rosgydromet) and Federal Supervision service of Russia on nuclear and radiation safety, for handling challenges in the field of atomic energy use and control of radiation safety support, made effective on February 1998.

Federal Codes and Regulations in the field of atomic energy use

25. General provisions for safety assurance of nuclear power plants, OPB-88/97. NP-001-97. PNAE-G-01-011-97, Gosatomnadzor of Russia, 1998.
26. Radiation safety standards (NRB-99). SP 2.6.1. 758-99. Ministry of Public Health of Russia, 1999.

27. Basic sanitary regulations for radiation safety assurance (OSPORB-99). SP 2.6.1. 799-99. Ministry of Public Health of Russia, 2000.
28. Requirements to the quality assurance program for nuclear power plants. NP-011-99. Gosatomnadzor of Russia, 1999.
29. Safety practice for decommissioning of power plant units. Gosatomnadzor of Russia, NP-012-99.
30. Safety codes for radioactive waste management at nuclear power plants. PNAE-G-14-41.97, Gosatomnadzor of Russia, 1997.
31. Requirements to quality assurance program for radioactive waste management. RB-003-98. Gosatomnadzor of Russia. 1998.
32. Collection, treatment, storage and conditioning of liquid radioactive wastes. Safety requirements. NP-019-2000. Gosatomnadzor of Russia. 2000
33. Collection, treatment, storage and conditioning of solid radioactive wastes. Safety requirements. NP-020-2000. Gosatomnadzor of Russia. 2000.
34. Management of gaseous radioactive wastes. Safety requirements. NP-021-2000. Gosatomnadzor of Russia. 2000.
35. Requirements to justification of the criterion of prolongation of the specified operation life of nuclear facilities. NP-024-2000. Gosatomnadzor of Russia. 2000.
36. Requirements to the scope of the program for decommissioning of the power plant units. RB-013-2000. Gosatomnadzor of Russia. 2000.
37. Sanitary rules of design and operation of nuclear power plants. SP-AS-88/93. Ministry of Public Health of Russia, 1993.
38. Sanitary rules of design and operation of nuclear power plants. SP-AS-88/99. Ministry of Public Health of Russia, 2000.
39. Nuclear safety rules of nuclear power plants. PBYa RU AS-89. PNAE G-1-024-90. Gospromatomnadzor of USSR. 1990, (with due consideration of Amendment No. 1 based on Order of Gosatomnadzor of Russia No. 6 of 27.12.1999).
40. Radiation safety rules in operating nuclear power plants. PRB-AS-99. Ministry of Public Health of Russia, 2000.

41. Administrative regulations on the procedure for investigation and accounting of malfunctions at nuclear power plants. NP-004-97. PNAE G-12-005-97. Gosatomnadzor of Russia, 1997.
42. Model action plan for personnel protection in case of an accident at nuclear power plant. NP-015-2000. Gosatomnadzor of Russia, 2000.

Regulatory documents of Gosatomnadzor of Russia

43. Regulatory documentation system of Gosatomnadzor of Russia (RD-03-42-97).
44. Regulation for organization of the State safety control in atomic energy use (RD-03-43-98).
45. Type regulation on the inspection for nuclear and radiation safety at NPP (RD-04-13-94).
46. Instruction for supervision over nuclear and radiation safety of nuclear power plants (RD-04-18-99).
47. Generic job description of Chief State inspector and State inspector of Gosatomnadzor of Russia (RD-03-30-98).
48. Guidelines for organization of supervision over maintenance of the required skills of the employees responsible for operation of nuclear power plants and departmental control of nuclear and radiation safety of nuclear power plants (RD-04-28-97).
49. Model program of inspection of the radiation safety state in operating nuclear power plants (RD-04-30-2000).
50. Instruction on the procedure of application of Federal Law "On administrative liability of organization for breach of the laws in the field of atomic energy use," (RD-03-54-2000).
51. Regulation on the issuance of permits of the Federal supervision service of Russia on nuclear and radiation safety to the nuclear power plant personnel to perform the works in the field of atomic energy use (RD-04-29-99).
52. Provision on planning and reporting in Gosatomnadzor of Russia (RD-03-01-98).

Regulatory documents approved by other State safety control bodies, as well as federal executive bodies

53. Acceptance of the constructed power units of nuclear power plants for operation. VSN-AS-90. Minatomenergoprom of USSR, 1990.

54. Regulation on the procedure for reservation of construction of NPP power units. Minatomenergoprom of USSR, 1992.
55. Nuclear safety rules for nuclear power plants, PBYa-04-74 (Section 4). GKAE of USSR, 1974.
56. Basic provisions on selection, training, admittance to works and in-service control of the NPP personnel. OPKP NPP-90. Minatomenergoprom of USSR, 1990
57. Rules for personnel management at enterprises and organizations of Minatomenergo of USSR. PORP-89. Minatomenergo of USSR, 1989.
58. Sanitary rules for industrial and municipal special laundries for decontamination of the working clothes and other individual protective means. Ministry of Health, 1989.
59. Basic rules for operation of nuclear power plants. Minatom of Russia. 1998.
60. Basic regulations for decommissioning of NPP units. RD EO.0013-94. Concern Rosenergoatom, 1994.
61. Provision on annual reports on evaluation of the safety state during operation of nuclear power plant. RD EO-0143-99. Concern Rosenergoatom, 1999.
62. Sanitary rules for radiographic testing of materials using a radioisotopic source. SP No.1171-74.
63. Sanitary rules of arrangement and operation of radioisotope instruments. SP-1946-78.
64. Safety rules for radioactive substances transportation. PBTRV-73. Regulatory and legal acts of the federal executive bodies.
65. Order of Minatom of Russia No. 278 of 31.07.2000, "On approval of the Regulation on unified State system of control and accounting of individual radiation doses of citizens".
66. Regulation on state accounting and control of radioactive wastes and radioactive substances in the Russian Federation (approved by Minatom of Russia as of 11.10.99).