Regulatory Framework for the Maintenance of the Relevant Knowledge in the Atomic Energy Use Sector

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Strategy of Knowledge Management

- Knowledge
- Competence
- Technology

Infrastructure development, Design, Construction, Operation, Decommissioning
Legislative Basis for Granting Permits to Nuclear Industry Employees and Workers


Federal Law “Statute on the discipline of the employees of organizations operating extremely radiation- and nuclear-hazardous facilities”

Decree of the Government of the Russian Federation "On approval of the list of job positions of employees of nuclear facilities, who should obtain permits for the right to work in the field of atomic energy use”
List of Job Positions of Employees, which Should Obtain Permits

1. Nuclear power plant.
2. Organizations operating industrial and prototype reactors.
3. Nuclear research reactors, critical and subcritical stands.
4. Nuclear power facility of ships (icebreaking fleet).
5. Ship of atomic-technological service (icebreaking fleet).
6. Enterprises of ship building industry involved in the construction and repair of nuclear power facility of ships (icebreaking fleet).
7. Fuel cycle facility with nuclear and radiation hazardous sites.
8. Radioactive waste storage.
9. Organizations operating radiation sources.
10. Organizations involved in transportation of nuclear material, radioactive substances.
11. Managerial personnel of organizations involved in the accounting and control of nuclear material and radioactive substances, and in their physical protection.
Administrative Regulations on Issuing Permits for the Right to Work in the Field of Atomic Energy Use
issued by Rostechnadzor’s Order

- Delineation of responsibilities between Rostechnadzor Headquarters and Rostechnadzor ITDs for provision of the state service for issuing permits;
- The full set and forms of the documents required to apply for getting permit depending on kind of nuclear facility and specific activity;
- The order, time schedule, and procedures for applying for and getting of the permit, its registration, renewal, prolongation, and issuing a duplicate;
- The order and procedures for testing employees knowledge of the regulatory framework in the field of nuclear energy use;
- The form of the permit and attached validity conditions;
- Tracking and inspections of fulfillment of the permit validity conditions.
Issuing of Permits

HEADQUARTERS

Department for Safety Regulation of Nuclear Plants and Research Nuclear Installations

Department for Safety Regulation of Nuclear Fuel Cycle Facilities, Nuclear Power Installations of Vessels and Radiation Hazardous Facilities

Department for Special Safety (supervision of accounting and control of nuclear material and radioactive substances and physical protection, emergency preparedness and response)

Interregional Territorial Departments for Nuclear and Radiation Safety and Security Supervision (ITDs)

Central ITD

North-European ITD

Siberian and Far East ITD

Ural ITD

Don ITD

Volga ITD
Testing of Knowledge

• Examination commission of Rostechnadzor or appropriate Rostechnadzor ITDs are carrying out testing (job interview) of the applicant's knowledge of the regulatory framework.

• Questionnaires for testing knowledge of the regulatory framework are developed by Departments of Rostechnadzor Headquarters.

• The assessment of practical skill of operating personnel is conducted by an examination commission of the operating organization with attendance in the commission of observer(s) of appropriate Rostechnadzor ITD.
Structure of Permit, Conditions, Tracking

• **Formal attributes:** permit reference number, position of person, name of nuclear facility and organization, department, division, date of permit issue and date expiry.

• **Validity conditions**
  - A permit is valid only for the specified job position.
  - A permit cannot be delegated or applied to any other person.
  - A permit holder shall perform activity in compliance with the requirements of the relevant safety regulations.
  - A permit holder shall periodically be subjected to the medical and psychophysiological examinations.
  - A permit holder cannot have a break for more than six (6) months in performing job duties.
  - A permit holder shall continuously maintain and improve skill level.
  - Depending on activities to be performed by a permit holder, the permit conditions may include special requirements.
  - Rostechnadzor is entitled to amend the examination questions by new standards and regulations.

• **Tracking of permits:** personnel training/retraining, procedures for admission of personnel to performing hazardous work, and fulfillment of permits.


Rostecnadzor’s Action Plan on Implementation of Recommendations and Proposals of the IRRS Mission 2009:

R11 - Recommendation to establish qualification requirements for key positions of personnel of nuclear research facilities

IRRS Follow-Up Mission November 2013- Recommendation R11 is closed.

Rostecnadzor does not perform assessment of the training programme pertaining to nuclear facilities
System Challenges in Granting Permits

• Training programmes delivered by the Universities practically do not take deeply into account the regulatory framework and the needs of nuclear supervision and licensing activities.

• Cooperation of Rostechnadzor with the Networking University for safety in the field of industrial, nuclear and power activities.

• It was recognized the necessity to amend Administrative Regulations by procedures for knowledge management specifically for employees involved in decommissioning of nuclear facilities.

• Review the need to extend the system of granting permits to positions of workers performing building and service activities that may be critical for safety of nuclear facilities.
Closing Remarks

• Regulatory framework for safety in the field of atomic energy use has accumulated comprehensive knowledge of national and international experience.

• The regulatory system for granting permits is a practical approach to knowledge management that can be used to develop and maintain strong knowledge of regulatory requirements at organizational and national levels.

• The permit system might be useful for assistance in development of national regulatory infrastructure of countries embarking their nuclear programme and planning to construct nuclear facilities of Russian design.
Thank you for your attention!

www.en.gosnadzor.ru
(English version of the official web-site of Rostechnadzor)