

International Conference on Human and Organizational Aspects of Assuring Nuclear Safety – Exploring 30 Years of Safety Culture



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Safety Culture Activities of Russian Regulator (Rostechnadzor) TSOs

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Synopsis

Currently, the Federal Environmental, Industrial and Nuclear Supervision Service of Russia (Rostechnadzor) has two Technical and Scientific Support Organizations (TSOs):

- FSUE VO “Safety”;
- Scientific and Engineering Centre for Nuclear and Radiation Safety (SEC NRS).

Both TSOs provide Rostechnadzor with scientific and technical support in the area of safety culture.

In November, 2013 the IAEA follow-up regulatory review mission was held in the Russian Federation. Rostechnadzor developed an action plan on the implementation of recommendations and suggestions provided upon follow-up mission results. The plan also presupposes the development of a safety guide including recommendations concerning NPP safety culture. SEC NRS develops the safety guide on safety culture assessment in cooperation with FSUE VO “Safety” specialists.

When developing the safety guide, requirements of federal regulations in the field of atomic energy use [1], IAEA documents [2, 3], RF national standards [4, 5] are taken into account.

Besides, FSUE VO “Safety” is developing a training course “Safety Culture for Rostechnadzor Inspectors and Personnel”. The program of the training course includes the following issues:

1. Introduction to safety culture course. Origin and development of safety culture concept.
2. Regulations in the field of safety culture. Safety culture definition.
3. Safety culture as a part of organizational culture.
4. Causes of accidents at nuclear facilities and their investigation.
5. Psychological aspects of safety culture and human factor.
6. Main stages of safety culture development in organizations.
7. Role of management system in the development and support of strong safety culture.
8. Approaches to safety culture assessment.

During the development of the training course special attention is paid to safety culture assessment, where it is understood as a complex of activities related to self-assessment, independent assessment (for instance, IAEA OSART mission [6]) and check (inspection) of nuclear facilities safety culture.

It is impossible to overestimate IAEA role in the development of safety culture concept in world atomic energy field. Owing to this concept IAEA member-states have an opportunity to learn about new approaches to ensuring safety of nuclear facility and to apply the approaches in practice.

References

- [1] General Regulations of Ensuring Safety of Nuclear Power Plants. NP-001-XX (draft federal codes and regulations).
- [2] Safety Culture. A report by the International Nuclear Safety Advisory Group. SAFETY SERIES No.75-INSAG-4. IAEA, VIENNA, 1991.
- [3] INSAG-15. Key Practical Issues in Strengthening Safety Culture. A report by the International Nuclear Safety Advisory Group. IAEA, 2002.
- [4] GOST R 22.3.07-2014. Safety in Emergency Situations. Vital Activity Safety Culture. General Provisions.

[5] GOST R 22.3.08-2014. Safety in Emergency Situations. Vital Activity Safety Culture. Terms and Definitions.

[6] OSART guidelines. 2005 Edition. Reference Report for IAEA Operational Safety Review Teams (OSARTs). Vienna, July 2005. Services Series 12.

Country or International Agency

Russian Federation

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