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Safety Culture in Rosatom State Atomic Energy Corporation

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Synopsis

The paper presents Rosatom State Atomic Energy Corporation (hereinafter -Rosatom) current activity in safety culture enhancement. After Chernobyl accident individual commitment to safety, organizational factors influencing on safety were put under more significant attention.

Safety culture (hereinafter - SC) should be considered like a resource to provide safety in nuclear facilities. The resource potential is in minimization of breaches by development and existing that patterns of human performance and organizational behavior which form attitude to safety as an overriding.

During 2013-2015 Rosatom implemented the following arrangements and activities:

1. Project «SC enhancement system introduction» has been prepared and started.
2. VIII International nuclear forum with main focus on SC issues.
3. Training courses on SC are developed and agreed with Rosatom.
4. Strategic sessions on SC enhancement system introduction.
5. Rosatom policy on SC enhancement developed.
6. List of Rosatom Values developed and introduced. Safety is one of them.
7. List of KPI related to SC enhancement activity for managers developed and introduced.
8. Implementation of local SC related projects.
9. Trainings implementation.

Nowadays in Russian Federation legislation there are few documents which regulate SC activity in nuclear industry:

- ☒ State Policy Basics to support nuclear and radiation safety up to 2025 (approved by President of Russian Federation in March 2012).
- ☒ Federal Regulation "Basics of nuclear facility safety support" (approved by regulatory body in 2006).
- ☒ Safety Culture Assessment Guide (approved by regulatory body in 2006).
- ☒ Regulation on nuclear facility psychological laboratory to support personnel reliability (approved by government in August 2000).

Realizing State Policy Basics Rosatom developed and plans to introduce SC Enhancement System for all nuclear facilities in Russian Federation. Rosatom General Inspector Service is responsible to manage the activity. In order to reach the goal the project "SC Enhancement System Introduction" was launched with a main goal –to create conditions for continuous SC enhancement: on organizational level –provide organizations with processes and tools addressed to form and develop commitment for safety when human performance; on

manager level –provide with competences to develop “cultured” people; on individual level –provide with clear understanding of strong SC characteristics and attitude for safety as realized need.

The project outcomes:

- ☒ regulations and guides on SC enhancement (regulations: policy in SC, regulation on SC formation and improving; guides: SC enhancement system introduction, SC level monitoring, organizational factors influencing on SC, personnel commitment to safety improvement, informational support of safety culture issues);
- ☒ training courses;
- ☒ corporate knowledge base on SC issues;
- ☒ reports on SC enhancement system introduction;
- ☒ safety culture improvement plan;
- ☒ web-site on safety culture issues;
- ☒ safety commitment visualization means (memo, booklets, posters, videos),
- ☒ results of introducing SC enhancement system in main Rosatom divisions: nuclear energetic complex, nuclear weapon complex, uranium concentration, nuclear ice breakers, nuclear fuel manufacturing, uranium mining. The project outcome: local policies, local regulations, generalized SC models, organizational chart, trained personnel, external SC assessment reports.

Nowadays the project is in progress. In the same time some of nuclear facilities implemented activities in SC area. Moreover Joint Stock Company “Rosenergoatom”, Joint Stock Company “Rusatom Overseas”, other ROSATOM organizations implement local SC related activity.

There are few organizations in Russian Federation who support nuclear facilities in SC issues: Rosatom central institute for continuing education and training (CICET), Science Research Center “Prognoz”, Scientific and Engineering Centre for Nuclear and Radiation Safety (SEC NRS).

Main goal of CICET activity —to support nuclear facilities in competitiveness and safety increasing by personnel training, science researches and science-technical arrangements in accordance with customer’s requirements and Rosatom corporate standards.

In SC area CICET has developed few training courses.

Moreover, CICET starting from 2012 holds International Summer School on SC. The mission of the school - promotion and development of the methodology and SC practice in organizations that use dangerous technology to provide high reliability and effectiveness their operations.

Also there are few R&D organization which support Rosatom organizations: Science Research Center “Prognoz”, Scientific and Engineering Centre for Nuclear and Radiation Safety (SEC NRS).

In the nearest future ROSATOM plans to begin SC enhancement process integration into ROSATOM management system: introduce SC Policy like a part of Safety Policy, develop and introduce regulations, instructions and guides on SC enhancement.

Country or International Agency

Russian Federation

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