



**FEDERAL ENVIRONMENTAL, INDUSTRIAL AND NUCLEAR
SUPERVISION SERVICE OF RUSSIA**

**Experience and Results
of the IAEA Integrated Regulatory Review Service
Follow-Up Mission conducted in the Russian Federation
in November 2013**

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International Workshop on Lessons Learned from IRRS Missions
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IRRS Mission-2009

**The IAEA Integrated Regulatory Review Service (IRRS) Mission to the
Russian Federation**

Moscow, November 16 – 27, 2009

IAEA-NS-IRRS-2009/02

- ✓ Responsibilities and functions of the Government
- ✓ Global Nuclear Safety Regime
- ✓ Responsibilities and functions of the Regulator
- ✓ Management system of the Regulator
- ✓ Authorization
- ✓ Review and assessment
- ✓ Inspections
- ✓ Enforcement
- ✓ Regulations

25 recommendations

34 suggestions

5 good practices



Implementation of the IRRS Mission-2009 recommendations and suggestions

Rostekhnadzor Action Plan based on findings
from the IRRS Initial Mission (March 2011)



46 actions

Provision of Rostekhnadzor with the required
resources

Enhancement of legal and regulatory framework

Improvement of cooperation among regulatory
authorities





Preparation to conduct IRRS Follow-Up Mission-2013

***August
2012***

**Working Group on development and review of the
Self-Assessment Report and preparation of the
list of materials to be translated**

June 2013

Working Group on preparation and conduct of the
IAEA IRRS Follow-Up Mission (representatives from
Rostekhnadzor and its TSOs)

IAEA module “Emergency
preparedness and response”

IAEA module “Regulatory implications of
the Fukushima-Daiichi accident”



**IRRS Follow-Up Mission-2013
November 11 – 19, 2013 Moscow, Russia**

The IAEA Expert Team

10 international experts

- Representatives of senior executives of the regulatory authorities from Bulgaria, Canada, Czech Republic, Cuba, Finland, Slovakia, Ukraine, United Kingdom and USA

5 IAEA experts



Goals of IRRS Follow-Up Mission-2013

Review of the national nuclear and radiation safety regulation system in the Russian Federation, including actions taken in response to recommendations and suggestions of the IRRS Mission-2009

Share of experience and knowledge during discussions

Evaluation of additional modules not reviewed in the course of the IRRS Initial Mission

- *Emergency preparedness and response*
- *Regulatory implications of the Fukushima-Daiichi accident*



IRRS Follow-Up Mission-2013 Activity Types



Review

Expert review of
submitted
materials



Advisory support

Consultations with the
Russian experts



Observation

Field observations,
including emergency
exercises involving
visit to
Rostechnadzor's
IAC, and Emergency
Centre of
Novovoronezh NPP



IRRS Follow-Up Mission-2013 Review Areas

Progress in implementation of the IRRS Mission-2009 recommendations and suggestions

Political issue “Human resource management”

Additional modules

- Emergency preparedness and response
- Regulatory implications of the Fukushima-Daiichi accident



IRRS Follow-Up Mission 2013 results

IRRS Follow-up Mission report

Findings related to IRRS Mission-2009

- **10** recommendations & **17** suggestions – **closed**
- **8** recommendations & **6** suggestions – **closed** on the basis of progress made
- **7** recommendations & **11** suggestions – remain open

Findings of IRRS Follow-up Mission-2013

- **3** recommendations
- **1** suggestion
- **3** good practices

Emergency preparedness and response Module

- **2** recommendations
- **7** suggestions
- **2** good practices



IRRS Follow-Up Mission 2013 results

- ✓ Integrated Regulatory Self-review in the Russian Federation
- ✓ Self-review of Russian legal and regulatory documents compliance with IAEA Safety Standards
- ✓ Reliable international evaluation of Rostekhnadzor activity related to Fukushima Daiichi NPP accident lessons learnt and emergency preparedness and response
- ✓ Experience and good practice exchange on safety regulation issues
- ✓ Further guide actions on improvement of state safety regulation system in the Russian Federation defined



General findings of the IAEA experts

Enhancement of the legal framework for the state regulation of nuclear and radiation safety

- Amendments to the Federal Law FZ-170 “On the Use of Atomic Energy”
- Adoption of the Federal Law FZ-190 “On Management of Radioactive Waste...”

Change in the status and powers of Rostekhnadzor

- Rostekhnadzor is an effective independent safety regulatory authority subordinated directly to the Government of the Russian Federation



General findings of the IAEA experts (2)

Rostekhnadzor's interface with federal executive bodies was brought to a whole new level

Human resource management

- Positive structural and staff changes to provide regulatory supervision over the construction of new NPP units
- The Government of the Russian Federation should pay proper attention to provide the regulatory authority with the required human and financial resources



General findings of the IAEA experts (3)

Good practice

- 1) The proactive approach taken by Rostekhnadzor, in coordination with the other national organizations concerned, to revise the national regulations of the Russian Federation for transport of radioactive material in parallel to the revision of the relevant IAEA Safety Standards (SSR-6) is a good practice.**
- 2) The introduction of a systematic exercise evaluation tool is considered a good practice.**
- 3) The requirements for the emergency plans contents for all types of activities and practices are clearly and extensively defined in regulations.**



General findings of the IAEA experts (4)

Good practice (2)

4) The Russian Federation, through its leadership and collaboration with various international stakeholders, has contributed effectively to the development of measures and programmes that may strengthen the global safety regime in the wake of the Fukushima-Daiichi accident.

5) Rostekhnadzor has initiated joint inspection activities with foreign regulatory bodies to share best practices and experience in nuclear facilities supervision.



General findings of the IAEA experts (5)

**Rostekhnadzor activities on improving
the state safety regulation in the field of
atomic energy use are recognized as
effective**



Implementation of suggestions and recommendations from IRRS Follow-up Mission-2013

- ✓ *In May 2014 Rostekhnadzor received the official Report on IRRS Follow-up Mission-2013 (IAEA-NS-10)*
- ✓ *Instruction of the Deputy Prime Minister of the Russian Federation Mr. Dmitry Rogozin in August, 2014*
- ✓ *Draft Action Plan of Rostekhnadzor was prepared for approval basing on IRRS Follow-Up Mission-2013 results*



Implementation of suggestions and recommendations from IRRS Follow-up Mission-2013 (2)

Draft Action Plan of Rostekhnadzor based on the findings of IRRS Follow-Up Mission-2013

- Covers 24 actions
- Envisaged for a 4-year period



General recommendations and suggestions included into the Action Plan of Rostechnadzor

The Government of the Russian Federation should rectify the salary gap that exists between the employees of Rostechnadzor and operating organisations to make sure that Rostechnadzor is able to recruit and retain competent staff, especially inspectors (Follow-Up Mission recommendation)

To continue development of a systematic approach to training of Rostechngadzor staff

To continue work on improvement of interaction with other federal executive authorities

To continue development of legal and regulatory framework for the control and supervision of remediation of facilities arising from past activities, including draft law on nuclear facilities decommissioning



Implementation of suggestions and recommendations from IRRS Follow-Up Mission (3)

Suggestion SF3

Rostekhnadzor is encouraged to complete the guidance document on the development of a hazard assessment and the determination of planning zone sizes in line with the international guidance



- ✓ Safety Guide RB-094-14 “Minimization of Radiological Consequences for Public and Personnel during Elimination of Accident Consequences at Different Type NPP Units. Methodology for Optimization of Measures for Public and Territories Protection” has been developed and approved



Implementation of suggestions and recommendations from IRRS Follow-Up Mission (4)

Suggestion RF2

The Government of the Russian Federation should authorize Rostekhnadzor to assist foreign regulatory bodies of countries, which are constructing or planning to construct NPPs of Russian designs, and provide Rostekhnadzor with dedicated resources to organize these activities



- ✓ The Decree of the Government of the RF No.339 dated of 15.04.2014 has been approved. In compliance with the Decree Rostekhnadzor is authorized to cooperate in accordance with the established procedure with the foreign state governmental authorities on issues related to development of the national nuclear and radiation safety regulation systems.



Implementation of suggestions and recommendations from IRRS Follow-Up Mission (5)

Recommendation RF5

Rostekhnadzor should evaluate exercises involving facilities other than NPP



- ✓ “Agreement between Federal Environmental, Industrial and Nuclear Supervision Service and SC “ROSATOM” on information exchange in the course of emergencies elimination at nuclear facilities” has been signed.



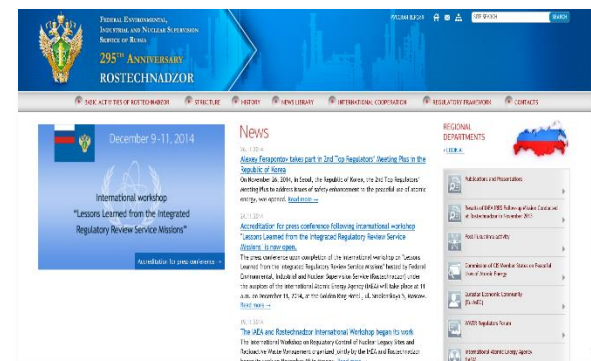
Openness and Transparency of Atomic Energy Use State Safety Regulation

Rostekhnadzor implements the State Policy of openness and transparency in the field of nuclear and radiation safety regulation of atomic energy use



IRRS Follow-up Mission Report is available on
Rostekhnadzor official web-page

<http://gosnadzor.ru>





Conclusion

IRRS Mission is an active tool for further improvement of the state safety regulation in the field of atomic energy use

IAEA MSs are recommended to:

- use IRRS services
- delegate their representatives to participate in IRRS missions as observers

IAEA is recommended to continue the practice of IRRS experts training

SARIS – an additional tool of self-assessment



**Federal Environmental, Industrial and Nuclear
Supervision Service of Russia**

Thank you for attention!