

APPROVED
by the Order of Federal Environmental,
Industrial and Nuclear Supervision
Service

of 22 December 2014. No. 593

Action Plan
of Federal Environmental, Industrial and Nuclear Supervision Service
on Implementation of Recommendations and Suggestions from
the IAEA Integrated Regulatory Review Service (IRRS) Follow-up Mission in the Russian Federation of November 2013

| Item No. | Activity | Responsible Units (Organisations)/ Participants/ Deadlines | Grounds |
|---|---|---|---|
| <u>1. Activities on matters pertaining to the Government of the Russian Federation</u> | | | |
| 1. | Development and justification of proposals to rectify the salary gaps that exists between the employees of Rostechndzor and the operating organisations, by way of, among other things, augmenting the salary and increasing the manpower of inspectorial staff at the regional departments for supervision of nuclear and radiation safety of Rostechndzor in order to recruit highly qualified staff to provide for efficient state supervision over nuclear and radiation safety in condition of the developing national nuclear power industry. Drawing up and submission of a letter of the proposals to the Government of the Russian Federation. | Responsible: 3Dept.* Participants: 4Dept, 5Dept, 6Dept, 11Dept. Deadline: II qtr 2015 | <u>2013 Follow up Mission executive summary:</u> Part I of the recommendation R2 and the recommendation R6 of the 2009 Mission in regard to addressing the needs for Rostechndzor to ensure adequate staff, remains open. <u>2013 Follow up Mission recommendation RF1:</u> The Government of the Russian Federation should rectify the salary gap that exists between the employees of Rostechndzor and the operating organisations to make sure that Rostechndzor is able to recruit competent staff, especially inspectors. |
| 2. | Development and justification of proposals on the issue of effective distribution of all regulatory functions in the area of transport of radioactive material among the independent authorities. Drawing up and submission of a letter of the suggestions to the Government of the Russian Federation. | Responsible: 6Dept. Participants: SEC NRS. Deadline: IV qtr 2015 | <u>2013 Follow up Mission executive summary:</u> the recommendation R4 of the 2009 Mission still remains open, as the issue of effective distribution of regulatory functions in the area of transport of radioactive material among the independent authorities has not been resolved. |

| Item No. | Activity | Responsible Units (Organisations)/ Participants/ Deadlines | Grounds |
|--|--|--|---|
| <u>2. Activities on matters pertaining to Rostechnadzor</u> | | | |
| 3. | Development of the proposals to improve legal framework for safety regulation in the remediation of the nuclear legacy sites and territories. Proposals to the State Corporation “Rosatom” as per the Resolution of the Government of the Russian Federation. | Responsible: 6Dept. Participants: 11Dept, SEC NRS Deadline: IV qtr 2017 | <u>2013 Follow up Mission executive summary:</u> the suggestion S6 of the 2009 Mission remains open despite the progress made. |
| 4. | Finalization of the interagency agreements and updating of the already concluded agreements between Rostechnadzor and other federal executive authorities (Rospotrebnadzor, Rosprirodnadzor, Ministry of Transport, FMBA of Russia, and EMERCOM of Russia) as regards effective cooperation. | Responsible: 6Dept. Participants: 5Dept Deadline: III qtr 2016 | <u>2013 Follow up Mission executive summary:</u> the suggestions S2, S3 S4, S5 and S7 of the 2009 Mission remain open due to the need in further development and coordination of cooperation with the federal executive authorities. |
| 5. | Amendments to the Federal Regulations and Guides on decommissioning of nuclear facilities as regards establishing requirements, including clearance criteria for nuclear installations and sites. Coordination with FMBA of Russia on the above criteria. | Responsible: 5Dept. Participants: 6Dept, SEC NRS Deadline: IVqtr 2017 | <u>2013 Follow up Mission executive summary:</u> the recommendation R25 of the 2009 Mission remains open due to the need in the development of requirements for establishing safety criteria for the clearance of nuclear sites and facilities. |
| 6. | Development of a Comprehensive Program of Training and Further Education of Rostechnadzor’s Staff on a systematic basis taking into account the IAEA guides. | Responsible: 4Dept. Participants: 5Dept, 6Dept, SEC NRS, FSUE VO «Safety». Deadline: III qtr 2015 | <u>2013 Follow up Mission executive summary:</u> the suggestion S10 of the 2009 Mission remains open as a systematic approach to training is still being under development. |
| 7. | Clarification of documents regulating the Rostechnadzor Quality Management System taking into account the IAEA guides. | Responsible: SEC NRS. Participants: 5Dept, 6Dept, 15Dept, 11Dept, 12Dept, FSUE VO «Safety». Deadline: IV qtr 2016 | <u>2013 Follow up Mission executive summary:</u> the recommendation R8 and suggestion S15 of the 2009 Mission remain open as the Quality Management System should reflect the actual status of Rostechnadzor, and consider reallocation of regulatory functions to it from the MNRE of Russia. |

| Item No. | Activity | Responsible Units (Organisations)/ Participants/ Deadlines | Grounds |
|----------|---|---|---|
| 8. | Preparation of proposals to make amendments to the legislation of the Russian Federation after the form of the compliance assessment for third parties (external organisations) who engage in work for, and provide services to the operating organisations (licensees), is established. | Responsible: 5Dept. Participants: 6Dept, 11Dept, 2Dept, SEC NRS. Deadline: II qtr 2016 After the compliance assessment system in atomic energy use is established. | <u>2013 Follow up Mission executive summary:</u> the recommendation R9 of the 2009 Mission in regard to the existing practice of licensing external organisations, which provide services and products to licensees, remains open. |
| 9. | Preparation of proposals to make amendments to the Federal law <i>On the Use of Atomic Energy</i> and other normative legal acts (or development of new ones) with a view to establish a differentiated approach to licensing activities associated with the use of radiation sources in dependence on the stage of the life-time taking into account their radiation hazard class. | Responsible: 6Dept. Participants: 11Dept, SEC NRS. Deadline: III qtr 2016 | <u>2013 Follow up Mission executive summary:</u> the suggestion S17 of the 2009 Mission in regard to licensing stages of the life-time of radiation sources, remains open. |
| 10. | Incorporation in licensing activity of Rostekhnadzor of inclusion of volume limits and activity limits for waste to be stored into the licence terms for radioactive waste storage facilities of FSUE "Radon" and FSUE "RosRAO". | Responsible: 6Dept. Participants: SEC NRS. Deadline: I qtr 2017 | <u>2013 Follow up Mission executive summary:</u> the suggestion S19 of the 2009 Mission as to establish limits and conditions for radioactive waste to be stored in the supervised facilities, remains open. |
| 11. | Development of a safety guide to provide recommendations for performing safety culture assessments at NPPs. | Responsible: 5Dept. Participants: 6Dept, SEC NRS, FSUE VO «Safety». Deadline: III qtr 2017 | <u>2013 Follow up Mission executive summary:</u> the suggestion S20 of the 2009 Mission as to develop the safety culture assessment guide for nuclear power plants, remains open. |

| Item No. | Activity | Responsible Units (Organisations)/ Participants/ Deadlines | Grounds |
|----------|---|---|---|
| 12. | Initialization of developing by the State Corporation “Rosatom” of an Action Plan on implementation of recommendations and suggestions of the IAEA IRRS Mission on the deep well injection practice for the liquid radioactive waste in the Russian Federation. | Responsible: 6Dept. Deadline: III qtr 2015 | <p><u>2013 Follow up Mission recommendation RF3:</u> Based on the recommendations of the IAEA independent peer review on the deep well injection practice for the liquid radioactive waste in the Russian Federation, Rostekhnadzor should require its licensees to develop an action plan based on these recommendations including the revision of their safety case and, depending on the results, take the appropriate regulatory measures.</p> |
| 13. | Analysis of reviewed safety justification reports and, if necessary, making amendments to license terms taking into account suggestions of the IAEA IRRS Mission on the deep well injection practice for the liquid radioactive waste in the Russian Federation | Responsible: 6Dept. Participants: SEC NRS. Deadline: IV qtr 2016 | |
| 14. | Revision of <i>Provision For the Procedure of Announcement of Emergency, Prompt Information Communication and Arrangement for Emergency Assistance to Nuclear Power Plants in Case of Radiation- Hazardous Situations (NP-005-98)</i> to ensure the consistency with the IAEA safety standard <i>GS-R-2</i> of the criteria for announcement of emergency preparedness and emergency situation. | Responsible: 5Dept. Participants: SEC NRS. Deadline: I qtr 2016 | <p><u>2013 Follow up Mission recommendation RF4:</u> Rostekhnadzor should complete the revision of the regulation on emergency classification based on plant parameters, ensuring that it is consistent with <i>GS-R-2</i> requirements.</p> |
| 15. | Drafting and implementation of a set of methodical documents concerning the conduct of inspections for certain specific activities with the radioactive sources. | Responsible: 6Dept. Participants: SEC NRS Deadline: IV qtr 2018 | <p><u>2013 Follow up Mission final remarks:</u> the suggestion S29 of the 2009 Mission as to develop instructions (guides) to conduct inspections for certain specific activities with the radioactive sources, remains open.</p> |
| 16. | Final specification of the contents of the OLCs of safe operation of nuclear research facilities within the framework of the scheduled review of the Federal Regulations and Guides <i>Requirements to the Content of a Safety Analysis Report for Nuclear Research Installations</i> (instead of <i>NP-049-03</i>). | Responsible: 5Dept. Participants: SEC NRS. Deadline: IV qtr 2016 | <p><u>2013 Follow up Mission final remarks:</u> the recommendation R24 of the 2009 Mission remains open as legal changes relevant to this recommendation are under development.</p> |

| Item No. | Activity | Responsible Units (Organisations)/ Participants/ Deadlines | Grounds |
|--|--|--|--|
| 17. | Reviewing the legal framework and preparation of proposals concerning EPR in order to avoid overlapping of powers of Rostechнадзор and other agencies, and to ensure that such legal framework takes IAEA recommendations into account. | Responsible: SEC NRS. Participants: 5Dept, 6Dept, 11Dept. Deadline: for NPP – IV qtr 2016 for NFCF – IV qtr 2017 for RRF – IV qtr 2018 | 2013 Follow up Mission suggestions SF2 and SF7: Rostechнадзор is encouraged to review, in cooperation with other federal bodies, EPR requirements and emergency worker regulations IAEA requirements (GS-R-2). |
| 18. | Rostechнадзор provides for conducting stress-tests for the nuclear fuel cycle facilities of the State Corporation “Rosatom” that may pose major risk. | Responsible: 6Dept. Participants: 5Dept, SEC NRS. Deadline: VI qtr 2015 | 2013 Follow up Mission suggestion SF1: Rostechнадзор should require, as a follow-up to the TEPCO Fukushima Daiichi accident, the licensees to conduct additional safety analysis for the major nuclear fuel cycle facilities that may pose offsite radiological risk. |
| <u>3. Activities on matters pertaining to the safety review and other safety related issues</u> | | | |
| 19. | Completion of safety guidance <i>Mitigating Radiologic Consequences for the Population and the Staff in the Course of Accident Remediation at Power Units of Different Types. Optimization Methods for the Measures to Protect the Population and Site.</i> | Responsible: 5Dept. Participants: SEC NRS. Deadline: III qtr 2014 (Complete). | 2013 Follow up Mission suggestion SF3: Rostechнадзор 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. |
| 20. | Preparation of proposals to harmonize the categorization of radiation facilities based on potential hazard established by <i>Main Sanitary Regulations of Radiation Safety (OSPORB-99/2010)</i> with the categorization envisaged by the IAEA document <i>GS-R-2 Preparedness and response for a nuclear or radiological emergency.</i> Submission of such proposals to the Ministry of Health of the Russian Federation. | Responsible: 6Dept. Participants: 5Dept, 15Dept, SEC NRS. Deadline: I qtr 2016 | 2013 Follow up Mission suggestion SF4: Rostechнадзор is encouraged to negotiate with the Ministry of Health for a revision of the categorization of facilities based on potential hazard to make it consistent with the requirements contained in GS-R-2. |

| Item No. | Activity | Responsible Units (Organisations)/ Participants/ Deadlines | Grounds |
|----------|--|--|--|
| 21. | <p>Reviewing necessity to harmonize emergency notification timing requirements established by the <i>Provision on the Procedure of Investigation and Accounting of Operational Occurrences at Nuclear Power Plants (NP-004-08)</i>, the <i>Provision on the Procedure of Investigation and Accounting of Operational Occurrences at Nuclear Research Installations (NP-027-10)</i>, the <i>Requirements for Contents of the Action Plan for Protection of Personnel in Case of an Accident at Nuclear Research Installations (NP-075-06)</i>, and the <i>Provision on the Procedure of Investigation and Accounting of Operational Occurrences at Nuclear Fuel Cycle Facilities (NP-047-11)</i>, with the categorization envisaged by the IAEA document <i>GS-G-2.1 Arrangements for Preparedness for a Nuclear or Radiological Emergency</i>.</p> | <p>Responsible: 5Dept. Participants: 6Dept, SEC NRS. Deadline: IV qtr 2016</p> | <p><u>2013 Follow up Mission suggestion SF5:</u> Rostechnadzor should consider updating its emergency notification timing requirements to bring them more in line with the suggested timing contained in GS-G-2.1</p> |
| 22. | <p>Reviewing necessity to harmonize predicted irradiation levels which necessitate immediate medical intervention, as well as criteria for urgent decision-making at the initial stage of radiological accident and criteria of radiological accident with radioactive contamination of area, established by <i>Norms of Radiation Safety (NRB-99/2009)</i>. Development and submission of proposals to Rospotrebnadzor following the review.</p> | <p>Responsible: 6Dept. Participants: 5Dept, SEC NRS. Deadline: II qtr 2016</p> | <p><u>2013 Follow up Mission suggestion SF6:</u> Rostechnadzor is encouraged to work with Rospotrebnadzor on the harmonization of the response criteria with the most recent IAEA requirements.</p> |
| 23. | <p>Updating evaluation methodology for EPR exercises that takes into consideration all criteria of exercise evaluation suggested in the IAEA Exercise 2005 <i>Preparation, Conduct and Evaluation of Exercises to Test Preparedness for a Nuclear or Radiological Emergency</i>.</p> | <p>Responsible: 5Dept. Participants: 6Dept, SEC NRS. Deadline: IV qtr 2017</p> | <p><u>2013 Follow up Mission suggestion SF8:</u> Rostechnadzor is encouraged to review and enhance its exercise evaluation methodology and include a performance-based approach (relying upon operation parameters) for all aspects of the emergency functions, consistent with the guidance provided in EPR Exercise 2005.</p> |

| Item No. | Activity | Responsible Units (Organisations)/ Participants/ Deadlines | Grounds |
|----------|--|---|--|
| 24. | 1) Implementation of 2014 Activity Plan to support operation and improvement of the IAC of Rostechnadzor for 2014. 2) Development of an annual activity plan to improve the IAC of Rostechnadzor. | 1) Responsible: 15Dept. Participants: 5Dept, 6Dept, SEC NRS. Deadline: during 2014 2) Responsible: 15Dept. Participants: 5Dept, 6Dept, SEC NRS. Deadline: I qtr annually | 2013 Follow up Mission recommendation RF5: Rostechnadzor should evaluate exercises involving facilities other than NPP. |

*

2 Dept - Department for Support of Organizational and Control & Licensing and Authorizing Activities

3 Dept – Department of Finance

4 Dept - Department of State Service and Staffing

5 Dept – Department for Safety Regulation of Nuclear Plants and Research Nuclear Installations

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

11 Dept - Legal Department

12 Dept - International Cooperation Department

15 Dept - Department of Special Security