Proposal on cooperation in the area of radiation safety

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RASSC-41 Meeting, IAEA’s Headquarters
21-23 November 2016
Vienna, Austria
PRACTICAL ARRANGEMENTS between IAEA and ROSATOM

Start at September 2015

Objective
The objective of Practical Arrangements is to set forth the framework for non-exclusive cooperation between the Parties and to provide broad and extensive assistance in the Russian Federation, in areas related to the radiation safety of workers, in order to ensure on-going protection of individuals against ionizing due to exposure of ionising radiation.
Scope of Cooperation

The Parties have identified the following areas and activities:

- Assessment and management of radiation health risks for workers of “Rosatom”, due to planned occupational exposure to external radiation.
Requirement 26: Information, instruction and training

3.110. Employers, in cooperation with registrants and licensees:

(a) Shall provide all workers with adequate information on health risks due to their occupational exposure in normal operation, anticipated operational occurrences and accident conditions

«2.3. … Under standard conditions of operation with sources of ionizing radiation annual limits of radiation doses are set on the basis of individual lifetime risk:

- Workers - $1.0 \times 10^{-3}$, year$^{-1}$;
- Public - $5.0 \times 10^{-5}$, year$^{-1}$.»
BASICS
of the State Policy on Ensuring Nuclear and Radiological Safety in the Russian Federation for the period to 2025

The basic principles of a state policy in the field of ensuring nuclear and radiation safety are:

... realization of the principle of socially acceptable risk, aimed on minimization of the nuclear and radiation risks
Last week joint meeting on execution of Practical Arrangements was done in Vienna:

- General discussion on the draft document from ROSATOM
- Technical discussion on the draft document with IAEA’s expert
- Work plan
- It is suggested to give a proposal to have an IAEA document on risk communication with workers by the Russian representative to RASSC in the upcoming RASSC meeting.
- Upon the approval of the proposal by RASSC, the preparation for the DPP for the document will be initiated; more Member States and international organizations will be invited.
The approach of calculating cumulative lifetime risks and annual risks for the incidence of all solid cancers and leukemia from external exposure for ROSATOM nuclear workers, following the recommendations of ICRP publication 103 (2007), was presented in clear and reproducible manner.
<table>
<thead>
<tr>
<th>Action description</th>
<th>Principal actor (ROSATOM/IAEA)</th>
<th>Deadline</th>
<th>Output</th>
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<tbody>
<tr>
<td>The Representative of the Russian Federation at RASSC will conduct the proposal at the RASSC meeting (2016) on the development of the IAEA Technical document (TECDOC) with the title of “Assessment of individual radiation health risk due to the planned occupational exposure to external radiation”</td>
<td>Mr. S. Mikheenko</td>
<td>21st – 24th November 2016</td>
<td>discussion at RASSC meeting and RASSC recommendation</td>
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<td>The document draft (see Annex I) will be discussed at the meeting of Russian Scientific Commission on Radiological Protection (RSCRP) together with results of the discussions with the IAEA experts.</td>
<td>Mr V. Ivanov and Mr S. Chekin</td>
<td>December 2016</td>
<td>RSCRP conclusion</td>
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<td>The draft document (see Annex I) will be published as a scientific paper in Radiation and Risk Journal</td>
<td>Mr V. Ivanov</td>
<td>2nd quarter of 2017</td>
<td>Publication</td>
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<td>Topic</td>
<td>Responsible Person</td>
<td>Timeframe</td>
<td>Information letter</td>
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<td>The information letter from the ROSATOM SCAE will be sent to ROSATOM nuclear facilities on the application of the ARMIR technique (described in the Annex I) for the evaluation of individual radiation health risks for their employees.</td>
<td>Mr S. Mikheenko</td>
<td>2nd quarter of 2017</td>
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<td>Introduction of amendments and modifications to “Methodological guidance on the reporting in the ROSATOM SCAE” with regard to the evaluation of individual radiation health risks.</td>
<td>Mr S. Mikheenko</td>
<td>Deadline: 2nd – 3rd quarters of 2017</td>
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<td>Joint preparation of the draft DPP by ROSATOM and IAEA for submission to the IAEA approval (Coordination Committee) and if approved submission to RASSC</td>
<td>Mr. Ivanov, Mr Mikheenko, and Mr Pinak</td>
<td>Deadline: 31 March 2017 – draft DPP; 30 April 2016 – for submission to RASSC</td>
<td>Modified Methodological guidance</td>
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<td>Presentation of the DPP of the TECDOC (see item 1.1. above) for adoption at RASSC-42 meeting (June 2017).</td>
<td>Mr M. Pinak and Mr T. Colgan</td>
<td>May 2017</td>
<td>Product: DPP for the TECDOC development</td>
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<td>Discussion of the TECDOC draft at the PAs working meeting with expert involvement, subject of RASSC approval</td>
<td>Mr M. Pinak and Mr S. Mikheenko</td>
<td>4th quarter of 2017</td>
<td>Revised TECDOC draft</td>
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<td>Technical and editorial work under PAs (2017 – 2019)</td>
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Action requested

To support our proposal for preparation TECDOC IAEA on individual radiation health risks assessment for occupational workers. It will be fruitful for all of the MS and international organization.
Thank you for your attention