



International Atomic Energy Agency

Technical meeting to review, develop and finalize the IAEA Technical Document on “Model Regulations for Decommissioning”(J9-TM-49912)

13 to 16 April 2015.

IAEA Headquarters - Vienna, Austria

Meeting Report

1. PARTICIPANTS

Sixteen participants from fourteen countries participated to the technical meeting held at IAEA Headquarters, Vienna, on the review of the Technical Document “Model Regulations for Decommissioning”.

This activity is part of the IAEA’s approved Programme and Budget for 2014-15 and is included under project 3.4.1.3 on “Decommissioning and Remediation Safety”. The activity is conducted by the IAEA, with funding from the European Union, and relates to the above-mentioned Project B.3, under the IAEA-EC Contribution Agreement 2013/313-757.

The list of participants follows:

Mr. Barker, Robert, Canada	Mr. Ahn Sangmyeon, Republic of Korea
Mr. Ma, Chenghui, China	Mr. Muneer, Muhammad, Pakistan
Mr. Zhang Hong, China	Ms. Dogaru, Daniela Maria, Romania
Mr. Medakovic, Sasa, Croatia	Ms. Steljic, Milijana, Serbia
Mr. Lietava, Peter, Czech Republic	Mr. Drahos, Miroslav, Slovakia
Ms. Helal Nadia, Egypt	Ms. Kilochytska, Tetiana, Ukraine
Mr. Francois, Patrice, France	Mr. Carter, Ted, United States of America

Mr. Yamanaka, Takeshi, Japan	Mr. Smith, Theodore, United States of America
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The IAEA was represented by Mr Jova Sed, Luis Andres and Mr Ljubenov, Vladan (NSRW).

2. OBJECTIVES OF THE MEETING

The objectives of the technical meeting were to:

- To review, develop and finalize the IAEA Technical Document on “Model Regulations for Decommissioning”.
- To review and update the draft Document Preparation Profile (DPP) of the IAEA Technical Document on “Model Regulations for Decommissioning”
- To prepare a meeting report with conclusions and recommendations.

Patrice François (France) was the chairman of the meeting assisted by Peter Lietava (Czech Republic).

3. WORK CONDUCTED

The meeting started with a welcome address by Vladan Ljubenov, followed by an introduction of the objectives of the meeting by Luis Jova Sed. Luis Jova Sed explained that the expected outcome of the B.3 project is to develop a Technical Document (TECDOC) providing an example decommissioning Model Regulations to help Member States to integrate IAEA safety standards into a national regulatory framework. This model regulation will cover the overall regulatory basis needed to address licensee’s aspects specific to decommissioning in the regulatory framework.

The model regulation is presented with notes and appendices for future drafters (reviewers) explaining technical or procedures details to be considered by the regulator or the licensee in implementing the requirements. A draft document has been sent to the participants a few weeks before the meeting for comments and remarks. Comments from several Member States were received and are attached as an appendix to this report.

The participants discussed and approved the agenda. A collective review of the draft document has been performed by the participants considering the comments and remarks sent to IAEA prior to the meeting and additional comments and remarks addressed during the discussions.

During the collective review of the draft document the participants agreed on the following points:

- **Structure of the document:** Participants discussed the structure of the document and considered possible simplifications. It was agreed to keep the same structure of the document as the one adopted to develop the IAEA TECDOC 1732 on Model Regulations for the “Use of Radiation Sources and for the Management of the Associated Radioactive Waste” published in 2013.

- **National policy and strategy:** The group considered that it is not necessary to develop a separate national policy and strategy for decommissioning, considering that it should be addressed in national policies and strategies for safety and radioactive waste management. Chapter 2 has been revised accordingly. In addition, clarifications have been provided to explain the distinction between the policy (definition of the objectives and expectations of the regulatory body) and the strategy (actions and planning to reach the objectives and expectations considering specificities of each Member state).
- **Terms and definitions:** The list of terms and definitions proposed in Article 4 has been reviewed by participants. It was decided that this list should be made consistent with the IAEA glossary which is currently under a revision process.
- **Graded approach:** The group discussed Article 8 on the use of the concept of graded approach for decommissioning. Participants agreed that all the requirements proposed in the draft Model Regulations are fully applicable and that the purpose of the concept of graded approach is to define the level of detail to be developed by the licensee to comply with the requirements according to the magnitude of the risks during decommissioning. Article 8 has been reviewed and revised accordingly. The group considers that the issue of graded approach needs more attention and could be developed in a standalone IAEA guidance document.
- **Selection of the decommissioning strategy:** The group discussed the implementation of the requirement 5.1 of GSR Part 6 on the preferred decommissioning strategy into requirements in the Model Regulations. The participants agreed that the “immediate dismantling” strategy should be the basis for the development of the initial decommissioning plan. The text has been reviewed and aligned with the GSR Part 6 requirement.
- **Facility specific decommissioning regulations:** The group discussed how to improve the draft technical document to address facility specifics (e.g. for small facilities or for “legacy situations” which need the implementation of decommissioning actions). It was decided by the participants that the requirements cannot be “facility” oriented and that these kinds of issues have to be addressed by Members States in their own national policies on safety and radioactive waste management.
- **Clean-up plan:** An appendix is attached to the draft technical document to provide an example of the structure of a clean-up plan. Clean-up plan for a site is recommended to be developed in the IAEA WS-G-5.1 for the release of site from regulatory control. “Clean-up plan for site” has been considered in the notes provided in the chapter 7 as a supporting document to the final decommissioning plan which may be required by the regulatory body. A requirement for “Clean-up plan for site” has not been included in the Model Regulations. The appendix 3 is provided to support these notes.

- **Criteria for site release:** Examples of criteria for site release have been included in the notes of the section on completion of decommissioning actions and termination of authorization.

Recommendations for further work and development:

The participants agreed on the following points:

1. The notes developed in the draft document should be reviewed to ensure a clear distinction between the recommendations which are provided for consideration by the regulatory body or by the licensees.
2. The Appendix 1 (Structure and content of a decommissioning plan) and Appendix 2 (Structure and content of the final decommissioning report) should be consistent with the relevant appendixes of DS452 and DS403.
3. IAEA should review the produced draft document to address editorial improvements.
4. A final review of the draft document should be made to check possible unnecessary repetition of similar requirements addressed in the chapter 7. Consideration should be given to the requirements developed with lists of bullets to ensure that such lists are comprehensive, consistent and cannot lead to any misinterpretation.

CONCLUSIONS AND RECOMMENDATIONS FROM THE B.3 TECHNICAL MEETING

1. The B.3 draft Technical Document has been reviewed and revised by participants. A revised document including changes agreed during the discussions has been prepared. The revisions were discussed and agreed on by all participants.
2. The DPP for the Technical Document has been reviewed and revised.
3. IAEA should send the electronic version of the draft document to the participants of the meeting to allow a final review of the draft document for mid of April 2015
4. Participants should provide comments and remarks to IAEA before the end of April 2015
5. A final version of the draft document should be prepared by IAEA considering the comments of participants and the future development of DS452, DS403 and revision of IAEA glossary.
6. The participants considered that the technical document will be helpful for the development and review of national regulations on decommissioning.