Document Preparation Profile (DPP)
Version 1 dated 23.04.2013

1. IDENTIFICATION

Document Category **Safety Guides**

Working ID: **DS477**

Proposed Title: **The Management System for the Predisposal and Disposal of Radioactive Waste**

Proposed Action: **To combine and supersede the following Safety Guides;**

- **"The Management System for the Processing, Handling and Storage of Radioactive Waste", 2008, Safety Guide, IAEA No. GS-G-3.3**
- **"The Management System for the Disposal of Radioactive Waste", 2008, Safety Guide, IAEA No. GS-G-3.4**

Review Committee(s) or Group: **WASSC, NUSSC, RASSC, TRANSSC, NSGC (interface document)**

Technical Officer(s): **Y. Kumano, NSRW**

2. BACKGROUND

The ROADMAP on the Long-Term Structure of Safety Standards (May 2008) points out that the Safety Standards should be user-friendly with a view to facilitating the use of the Safety Standards by Member States.

In order to meet this, the following goal has been clarified to guide work on Safety Guides;

To have a manageable number of standards by:

− Limiting the number of Safety Guides in the thematic areas to those of a generic nature;

− Developing Safety Guides in the facility specific areas that cover the whole lifetime of the facility (site evaluation, design, commissioning, operation and decommissioning);

− Identifying among the facility specific guides those that may be applicable to several types of facilities so as to avoid the establishment of guides addressing the same topical issue for different types of facilities/activities;

− Including, wherever possible, additional topics as part of the revision of existing Safety Guides, rather than by developing new Safety Guides.

Requirement 6 of GSR Part 5 (Safety Requirements on Predisposal Management of Radioactive Waste) states that "Interdependences among all steps in the predisposal management of radioactive waste, as well as the impact of the anticipated disposal option, shall be appropriately taken into account." "Owing to the interdependences among the various steps in the predisposal management of radioactive waste, all activities from the generation of radioactive waste up to its disposal, including its processing, are to be seen as parts of a larger entity, and the management elements of each step have to be selected so as to be compatible with those of the other steps." In addition, Requirement 7 of GSR Part 5 states that "Management systems shall be applied for all steps and elements of the predisposal management of radioactive waste

Currently, there are two IAEA Safety Guides on the management system for waste management:

- GS-G-3.3 on the Management System for the Processing, Handling and Storage of Radioactive Waste
- GS-G-3.4 on the Management System for the Disposal of Radioactive Waste.

These two Safety Guides provide recommendations on the management systems for predisposal and disposal of radioactive waste to meet the requirements established in the Management System for Facilities and Activities, GS-R-3.

Recently, the revision of GS-R-3 was initiated. This revision, which will reinforce safety, ensure a better alignment with the Safety Fundamentals, SF-1, and take into account the feedback from Member States' application, will be published as a new General Safety Requirement, GSR Part 2. .

In order to keep consistency with the corresponding safety requirements, and in agreement with the outcomes of the 29th meeting of the WASSC it is proposed to review and combine GS-G-3.3 and GS-G-3.4 into a Safety Guide on The Management System for Predisposal and Disposal of Radioactive Waste.

3. JUSTIFICATION FOR THE PRODUCTION OF THE DOCUMENT

The revision of GS-G-3.3 and GS-G-3.4 is in line with the revision process of related safety requirement, GS-R-3. The proposal to review and combine two existing guidance documents into one single document is in line with the discussion and agreement at the WASSC 29th meeting. It is also consistent with the concept of the ROADMAP on the Long-Term Structure of Safety Standards to pursue user-friendliness by maintaining a manageable number of Safety Standards.

4. OBJECTIVE AND SCOPE

The objective of the Safety Guide on the Predisposal and Disposal of Radioactive Waste is to provide updated guidance on developing and implementing management systems for both pre-disposal and disposal of radioactive waste. It is intended to be applied to the processing, handling, long term periods of storage, and also to the lifecycle of radioactive waste disposal facilities.

The Safety Guide is intended to be used by regulatory bodies, organizations that are directly involved in the waste management activities, and the suppliers of the waste.

It is important that the development of the Safety Guide will be carried out in parallel to the establishment of GSR Part 2. As well, the new Safety Guide will provide recommendations to meet the safety requirements on management systems given in GSR Part 5 and SSR-5.

.5. PLACE IN THE OVERALL STRUCTURE OF THE RELEVANT SERIES AND INTERFACES WITH EXISTING AND/OR PLANNED PUBLICATIONS

The proposed Safety Guide will be developed as a part of the IAEA Safety Standards Series. The guide will derive its principles from SF-1. Due account will be given to existing safety requirements, in particular GSR Part 5, SSR-5, and GSR Part 2 that is under development. As applicable, it will also coordinate with the development and revision of other relevant IAEA Safety Standards and guidance under development.

The guide will supersede following Safety Guides;

- "The Management System for the Processing, Handling and Storage of Radioactive Waste", GS-G-3.3
- "The Management System for the Disposal of Radioactive Waste", GS-G-3.4

6. OVERVIEW

The Safety Guide will follow the structure of GSR Part 2, Leadership and Management for Safety. Related

Requirements in GSR Part 2 should be referred as they appear in this new Safety Guide so that readers can easily understand the continuity with the Safety Requirements. The Safety Guide should take care of interrelationship between the predisposal and disposal phases.

A provisional table of contents of the proposed Safety Guide is attached. Note that the attached provisional table of contents might be revised taking into account the new structure of the GSR Part 2.

7. PRODUCTION SCHEDULE: Provisional schedule for preparation of the document, outlining realistic expected dates for:

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STEP 1: Preparing a DPP	DONE
STEP 2: Approval of DPP by the Coordination Committee	Q2 2013
STEP 3: Approval of DPP by the relevant review Committees	Q3 2013
STEP 4: Approval of DPP by the CSS	Q4 2013
STEP 5: Preparing the draft	Q4 2013 - Q4 2014
STEP 6: Approval of draft by the Coordination Committee	Q1 2015
STEP 7: Approval by the relevant review Committees for submission to Member States for comments	Q3 2015
STEP 8: Soliciting comments by Member States	Q1 2016
STEP 9: Addressing comments by Member States	Q2 2016
STEP 10: Approval of the revised draft by the Coordination Committee Review in NS-SSCS	Q3 2016
STEP 11: Approval by the relevant review Committees	Q4 2016
STEP 12: Endorsement by the CSS	Q1 2017
STEP 13: Establishment by the Publications Committee and/or Board of Governors (for SF and SR only))	Q2 2017
STEP 14: Target publication date	Q1 2018

8. RESOURCES

Staff: 25 staff weeks

Consultants: 18 consultant weeks

ATTACHMENT

Proposal for the content of the draft Safety Guide on
"The Management System for the Predisposal and Disposal of Radioactive Waste"

1. INTRODUCTION
   - Background
   - Objective
   - Scope
   - Structure

2. THE MANAGEMENT SYSTEM
   - General recommendations
   - Safety culture
   - Grading the application of management system requirements
   - Documentation of the management system

3. MANAGEMENT RESPONSIBILITY
   - General
   - Management commitment
   - Satisfaction of the expectations of interested parties
   - Organizational policies
   - Planning
   - Responsibility and authority for the management system

4. RESOURCE MANAGEMENT
   - General
   - Provision of resources
   - Financial resources
   - Human resources and individual competence
   - Infrastructure and working environment

5. PROCESS IMPLEMENTATION
   - General
   - Developing processes
   - Process management and control of products
   - Control of documents
   - Control of records
   - Purchasing
   - Communication
   - Managing organizational change

6. MEASUREMENT, ASSESSMENT AND IMPROVEMENT
   - General
   - Monitoring and measurement
   - Self-assessment
   - Independent assessment

- Management system review
- Non-conformances and corrective and preventive actions
- Improvement

APPENDIX I: SPECIFIC ASPECTS ON MANAGEMENT SYSTEM FOR THE PROCESSING, HANDLING AND STORAGE OF RADIOACTIVE WASTE

APPENDIX II: SPECIFIC ASPECTS ON MANAGEMENT SYSTEM FOR THE DISPOSAL OF RADIOACTIVE WASTE