Agenda item W3.4
Waste Safety Standards (WSS) status and future steps

Sandra Geupel
WASSC Scientific Secretary
Waste and Environmental Safety Section
Safety Fundamentals
Fundamental Safety Principles

General Safety Requirements
- Part 2. Leadership and Management for Safety
- Part 3. Radiation Protection and the Safety of Radiation Sources
- Part 4. Safety Assessment for Facilities and Activities
- Part 5. Predisposal Management of Radioactive Waste
- Part 6. Decommissioning and Termination of Activities
- Part 7. Emergency Preparedness and Response

Specific Safety Requirements
- 1. Site Evaluation for Nuclear Installations
- 2. Safety of Nuclear Power Plants
  - 2.1. Design and Construction
  - 2.2. Commissioning and Operation
- 3. Safety of Research Reactors
- 4. Safety of Nuclear Fuel Cycle Facilities
- 5. Safety of Radioactive Waste Disposal Facilities
- 6. Safe Transport of Radioactive Material

Collection of Safety Guides
Steps in the development process

STEP 1: Preparing a Document Preparation Profile (DPP)
STEP 2: Internal review of the DPP
STEP 3: Review of the DPP by the SSC(s)
STEP 4: Review of the DPP by the CSS
STEP 5: Preparing the draft safety standard
STEP 6: First internal review of the draft safety standard
STEP 7: First review of the draft safety standard by the SSC(s)
STEP 8: Soliciting comments by Member States
STEP 9: Addressing comments by Member States
STEP 10: Second internal review of the draft safety standard
STEP 11: Second review of the draft safety standard by the SSC(s)
STEP 12: Review of the draft safety standard by the CSS
STEP 13: Establishment as an IAEA safety standard (by the Publications Committee and/or Board of Governors (for SF and SR only))
STEP 14: Publication of the safety standard
Current status of Safety Requirements for WM

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Step 13
WSS on Predisposal Management of Radioactive Waste

IAEA Safety Standards
for protecting people and the environment

Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards

General Safety Requirements Part 3
No. GSR Part 3

Steps:
2006
2014
2009
2016
2013
2008
2016

IAEA Safety Standards
for protecting people and the environment

Fundamental Safety Principles

Predisposal Management of Radioactive Waste

General Safety Requirements Part 5
No. GSR Part 5

IAEA Safety Standards
for protecting people and the environment

The Management System for the Predisposal and Disposal of RW

DS 454

DS 477

The Safety Case and Safety Assessment for the Predisposal Management of Radioactive Waste

Management of Waste from the Use of Radioactive Material in Medicine, Industry, Agriculture, Research and Education

Storage of Radioactive Waste

Predisposal Management of Radioactive Waste from Nuclear Fuel Cycle Facilities

Predisposal Management of Radioactive Waste from Nuclear Power Plants and Research Reactors

Classification of Radioactive Waste

General Safety Guide
No. GSG-1

Specific Safety Guide
No. GSG-40

Specific Safety Guide
No. GSG-41

Safety Guide
No. WS-G-6.1

Safety Guide
No. WS-G-2.7

Safety Guide
No. GSG-3

General Safety Guide
No. GS-G-3.3

Step 14
2006

Step 5
2008
WSS and related SSs for Predisposal Management at NFCF

**Step 13**


**Step 5**

# WSS on Disposal of Radioactive Waste

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**Step 5**

**The Management System for the Predisposal and Disposal of RW**

**DS 477**
WSS on Management of Radioactive Waste and Residues from Uranium Production and other NORM Industries

Step 9

2002
Management of Radioactive Residues from Uranium Production and Other NORM Activities

2006
DS 459

2009
IAEA Safety Standards
Predisposal Management of Radioactive Waste

2011
IAEA Safety Standards
Disposal of Radioactive Waste

2014
IAEA Safety Standards
Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards

2009
IAEA Safety Standards
Fundamental Safety Principles

2011
IAEA Safety Standards
General Safety Requirements Part 5
WSS on Decommissioning

- **DS 500**: Application of the Concept of Clearance
  - 2004
  - **Step 3**

- **DS 452**: Decommissioning of NPPs, Research Reactors and other Nuclear Fuel Cycle Facilities
  - 1999 / 2001
  - **Step 14**

- **DS 403**: Decommissioning of Medical, Industrial and Research Facilities
  - 1999
  - **Step 11**
Application of the Concept of Clearance

Remediation Process for Areas Affected by Past Activities and Accidents

Step 3

Step 9
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**Regulatory Control of Radioactive Discharges**
- **Step 3**
- **DS 442**
- **2006**

**Application of the Concept of Clearance**
- **Step 3**
- **DS 500**
- **2004**

**Prospective Radiological Environmental Impact Assessment**
- **Step 14**
- **DS 427**
- **2005**

**Radiation Protection of the Public and Protection of the Environment**
- **Step 14**
- **DS 432**
- **Application of the Concept of Clearance**
- **2004**
... where you can find the status of Safety Standards

Updated monthly

Important to note
Welcome

- To look at available files and open them simply select a folder from the left hand menu.
- To add a comment in the ‘Drafts for comment’ folder you need to login with your username and password (if you have already registered).
- If you need to upload a comment but do not have a username then you can request one by clicking on this registration link.

Next Meeting
The 43rd meeting of WASSC will be held in Vienna from 12 to 16 June 2017.
General Information

- Draft document on interfaces between WSS & related docs (1,150kb) - 23/02/2010
- DS489 - Track Changes (683kb) - 14/02/2017
- Frequently Asked Questions on IAEAs SS (32kb) - 03/03/2011
- How to submit comments on drafts (49kb) new! - 12/06/2017
- Status of IAEA Waste Safety Standards (43kb) new! - 12/06/2017

Contact email: IAEA Safety Standards
Updated Work Plan
(2014 – 2017)
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### WASSC Work Plan 2014 – 2017 (3/3)

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WSS and related SSs in future meetings

WASSC-44 (November 2017)

WSS for approval:
- DS459 (S11), Management of Radioactive Residues from Uranium Production and Other NORM Activities
- DS477 (S7), The Management System for the Predisposal and Disposal of Radioactive Waste

Other SSs for approval:
- DS486 (S11), Establishing the Safety Infrastructure for a Nuclear Power Programme
- DS419 (S11), Radiation Protection and Safety in Well Logging
- DS420 (S11), Radiation Protection and Safety in Nuclear Gauges
WSS and related SSs in future meetings

WASSC-45 (June 2018)

WSS for approval:
• DS468 (S11), Remediation Process for Areas with Residual Radioactive Material
• DS489 (S11), Storage of Spent Nuclear Fuel

Other SSs for approval:
• …
Thank you!