41st Meeting of the Waste Safety Standards Committee

20 and 23 June 2016

Agenda Item W1.7
Waste Safety Standards (WSS) status and future steps

Sandra Geupel
WASSC Scientific Secretary
WES/NSRW
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

GSR Part 1 Rev. 1
- IAEA Safety Standards for protecting people and the environment
- General Safety Requirements
  No. GSR Part 1 (Rev. 1)
  2016

GSR Part 2
- The Management System for Facilities and Activities
  DS 456
  Step 14

GSR Part 3
- Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards
  2014

GSR Part 4 Rev. 1
- Safety Assessment for Facilities and Activities
  2016

GSR Part 5
- Predisposal Management of Radioactive Waste
  2009

GSR Part 6
- Decommissioning of Facilities
  2014

GSR Part 7
- Preparedness and Response for a Nuclear or Radiological Emergency
  2016

SSR-5
- Disposal of Radioactive Waste
  2011

NS-R-5 Rev. 1
- Safety of Nuclear Fuel Cycle Facilities
  Step 10
WSS on Management of Environmental Releases

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

2006

DS 442
Regulatory Control of Radioactive Discharges

2006

Step 11

2004

DS 427
Prospective Radiological Environmental Impact Assessment

Step 11

2005

DS 432
Radiation Protection of the Public and Protection of the Environment

Step 11

2014
WSS and related SSs for Predisposal Management at NFCF

- **DS 478**: IAEA Safety Standards for Predisposal Management of RW from NFCF, 2014
- **DS 447**: IAEA Safety Standards for Criticality Safety in the Handling of Fissile Material, 2014
- **DS 489**: IAEA Safety Standards for Storage of Spent Nuclear Fuel, 2012
- **2006**: IAEA Safety Standards for Predisposal Management of Radioactive Waste
- **2009**: IAEA Safety Standards for General Safety Requirements Part 5
- **2006**: IAEA Safety Standards for General Safety Requirements Part 3
- **2014**: IAEA Safety Standards for General Safety Requirements Part 3 (Rev. 1)

Steps:
- Step 10: 2014
- Step 14: 2006
- Step 5: 2009
## WSS on Disposal of Radioactive Waste

<table>
<thead>
<tr>
<th>Year</th>
<th>Document Title</th>
<th>Description</th>
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<td>2011</td>
<td>IAEA Safety Standards</td>
<td>Disposal of Radioactive Waste</td>
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<td>Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards</td>
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### IAEA Safety Standards

**Classification of Radioactive Waste**
- General Safety Guide No. GSG-1
- Specific Safety Guide No. SSG-29

**Near Surface Disposal Facilities for Radioactive Waste**
- Specific Safety Guide No. SSG-14

**Geological Disposal Facilities for Radioactive Waste**
- Specific Safety Guide No. SSG-1

**Borehole Disposal Facilities for Radioactive Waste**
- Specific Safety Guide No. SSG-23

- Specific Safety Guide No. SSG-31

**Monitoring and Surveillance of Radioactive Waste Disposal Facilities**
- Specific Safety Guide No. GS-G-3.4

**The Management System for the Disposal of Radioactive Waste**
- Specific Safety Guide No. GS-G-3.4

### IAEA Safety Standards

- 2009
- 2014
- 2011
- 2009
- 2012
- 2014
- Step 5

**IAEA**

**IAEA Safety Standards**

- For protecting people and the environment

- Disposal of Radioactive Waste

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

- Specific Safety Requirements No. SSG-5

- General Safety Requirements Part 3
  No. GSR Part 3

- Fundamental Safety Principles No. SF-1

- Safety Fundamentals
WSS on Management of Radioactive Waste / Residues from mining / NORM industries

- IAEA Safety Standards
  - Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards
  - General Safety Requirements Part 3
    No. GSR Part 3

- IAEA Safety Standards
  - Fundamental Safety Principles
    No. SF-1

- 2006

- IAEA Safety Standards
  - Predisposal Management of Radioactive Waste
    General Safety Requirements Part 5
    No. GSR Part 5

- 2009

- IAEA Safety Standards
  - Disposal of Radioactive Waste
    Specific Safety Requirements
    No. GSR-5

- 2011

- Management of Radioactive Waste from the Mining and Milling of Ores
  - SAFETY GUIDE
    No. WS-G-1.2

- 2002

- DS 459

- 2014

- Step 7
WSS on Remediation

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

General Safety Requirements Part 3
No. GSR Part 3

2014

IAEA Safety Standards
Fundamental Safety Principles
Safety Fundamentals
No. SF-1

2006

IAEA Safety Standards
Remediation Process for Areas Affected by Past Activities and Accidents
Safety Guide
No. WS-G-3.1

2007

DS 468

IAEA Safety Standards Series
Application of the Concepts of Exclusion, Exemption and Clearance
SAFETY GUIDE
No. RS-G-1.7

2004

Step 5
IAEA Safety Standards

for protecting people and the environment

What are the Safety Standards?
The IAEA safety standards provide a system of Safety Fundamentals, Safety Requirements and Safety Guides for... read more

How are the Safety Standards developed?
The IAEA safety standards are developed by means of an open and transparent process for gathering, synthesizing... read more

What Standards are applicable to all facilities and activities?
View general safety standards.

What additional Standards are applicable for specific facilities and activities?

Nuclear Power Plants
Fuel Cycle Facilities
Research Reactors
Radioactive Waste Disposal Facilities
Mining and Milling
Application of Radiation Sources
Transport of Radioactive Material

What is the structure of the IAEA safety standards?
In 2008 a new, long-term structure for the safety standards was adopted. This structure is such that users may easily identify... read more

Resources
- Status of Safety Standards
- Superseded Safety Standards
- Strategies and Processes
- Safety Standards brochure
- Safety Standards applicable to all facilities and activities
- Download all Safety Standards in one file AR CH EN FR RU SP
- Safety Standards Poster (wheel)

Search by title text
Search by series number
e.g. TS-R-1 or SSG-2
Search by topic
select
WASSC Members Area

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 41st meeting of WASSC will be held in Vienna in the week commencing 20 June 2016.
General Information

- Draft document on interfaces between WSS & related docs (1,150kb) - 23/02/2010
- Frequently Asked Questions on IAEAs SS (32kb) - 03/03/2011
- Status of Waste Safety Standards and related standards (136kb) - 19/06/2016
  - new!
## Status file for WSS

### Waste Safety Standards under development

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<thead>
<tr>
<th>Type</th>
<th>DS</th>
<th>Title</th>
<th>Status / Short history</th>
<th>Plan</th>
<th>Officer</th>
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### Status of the WASSC-related Safety Standards under development

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<th>Type</th>
<th>Committees</th>
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<th>DS</th>
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<th>Title</th>
<th>DPP approval by WASSC</th>
<th>DPP approval by CSS</th>
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## WASSC Work Plan 2014 – 2017 (1/2)

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<td>Decommissioning of Medical, Industrial and Research Facilities (Revision of WS-G-2.2)</td>
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<td>Radiological Environmental Impact Assessment for Facilities and Activities (Revision of NS-G-3.2)</td>
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<td>Regulatory control of radioactive releases to the environment from facilities and activities (Revision of WS-G-2.3)</td>
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<td>Decommissioning of Nuclear Facilities, except facilities using NORM, medical, industrial, research and disposal facilities (Revision and consolidation of WS-G-2.1 and WS-G-2.4)</td>
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<td>Predisposal Management of Waste from the Use of Radioactive Materials in Medicine, Industry, Research, Agriculture and Education (Revision of WS-G-2.7)</td>
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WSS and related SSs in future meetings

**WASSC-42 (November 2016)**
- WSS for approval: DS403 (S11), DS468 (S7), DS489 (S7)
- Other SSs for approval: DS449 (S7), DS472 (S11), DS473 (S11), DS475 (S7), DS478 (S11), DS483 (S11), DS484 (S7), DS485 (S11), DS486 (S11), DS487 (S7)

**WASSC-43 (June 2017)**
- WSS for approval: DS459 (S11), DS477 (S7)
- Other SSs for approval: DS479 (S11), DS491 (S11), …
Thank you!