Waste Safety Standards Committee
37th Meeting
23-27 June 2014

Agenda Item 12.3

For Information
Monika Kinker
WES/NSRW
DS447 Background

• Revision of WS-G-2.6, Predisposal Management of High Level Radioactive Waste (RW)

• Scope is broad – applicable to all types of fuel cycle facilities (FCFs) & Centralized RWM facilities (excl. min&mill, SNF sto, NPPs, RR)

• DPP approved by CSS in October 2010

• 275 comments received NSGC, NUSSC, WASSC

• Approved by WASSC35 in July 2013 for submittal to MS

• MS comments were due Dec 2013
DS447 Content

1. Introduction
2. Protection of Human Health & Environment
3. Roles & Responsibilities
4. Integrated Approach to Safety
5. Safety Case & Safety Assessment
6. General Safety Considerations

Appendices
1. Facility Specific RWM Programme
2. Examples of Hazards Associated with RWM Activities at FCFs
3. Examples of Hazards Associated with Centralized RWM Facilities
4. Waste Specific Safety Considerations of FCFs
5. Examples of Management System Lifetime Provisions
6. Development of Specifications For RW Packages
MS Comments on DS447

• 365 comments from 16 countries, ENISS

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Progress

- Consultancies
  - 16-20 June 2014
  - 14-18 July 2014

- All comments being addressed
- Majority of comments accepted
Waste Management Strategies

• No generic predisposal waste management scheme is provided.
• A description on the Waste Characterization Methods and Procedures …. Inclusion of recommended waste acceptance criteria will be helpful.
• Explanation require regarding chemical adjustment, size reduction, packaging and decontamination.
  • Consider predisposal waste management schemes used in other existing documents (RS-G-1.10, DS454)
  • Considering referring reader to lower tiered documents (e.g., TECDOCs) for more detailed information
“The operating organization can and must ensure safety of installations and activity within their own enterprise (site) only, but can not ensure safety of the third-party contractor enterprise, in particular, if it is located abroad.”

- The licensee is responsible for all activities performed under conditions of their authorization
- If waste is transferred to another licence holder transfer agreements need to be in place (ownership)
- Cross boundary transfers in combination with long time frames needs to be considered
- **GS-R-3 under revision (DS456)**
Clarifications in Terminology

- Waste generation facility (4.11), waste generating facility (4.17), facility that generates radioactive waste (5.2)
  - waste generator: The operating organization of a facility or activity that generates waste. For convenience, the scope of the term waste generator is sometimes extended to include whoever currently has the responsibilities of the waste generator

- Operational States
  - SSG-27 (SG on Criticality Safety): normal operation, anticipated operational occurrences, design basis accidents (or equivalent)
  - NS-R-5 (rev.1) 2012: normal operations, anticipated operational occurrences, accident conditions
Next Steps

- Finalized draft to be posted on WASSC website
- For approval at WASSC 38