6th Meeting of the Emergency Preparedness and Response Standards Committee (EPReSC)

30 October – 1 November 2018
(Agenda Item 2.3)

DPP DS517 Revision of 3 Specific Safety Guides on Nuclear Fuel Cycle Facilities as a set of publications SSG-5, 6 and 7
(revision of the SSG-5, SSG-6 and SSG-7 by amendment as a set of separate publications)

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3 SSGs on NFCFs are being revised by amendment:


Reason for revision

- Account for recently published SSR-4 (2017)
  - New and modified requirements
- Account for new or revised relevant IAEA Safety Standards
- Feedback from the use of the document by MSs
- Operating experience feedback including those from FINAS
- Experience gained from SEDO missions
Objective and Scope: Approach

• 6 SSGs related to nuclear fuel cycle facilities are to be revised by amendment

• The approach to revising the SSGs was developed in consultation with experts from MSs (TM and CSM) and was discussed and agreed within NSNI and NS

• The approach was based on assessment of the new requirements in SSR-4 and a gap analysis of the scope and content of the Guides

• The outcome was to revise the guides in three groups according to the depth of revisions needed, the resource allocated (efforts of MSs also considered), and extent of technical interlinkages
Objective and Scope: Grouping

- **Group 1 (DS517– this DPP)**
  - SSG-6, Safety of Uranium Fuel Fabrication Facilities (2010)

- **Group 2 (DS518)**

- **Group 3 (DS516)**
  - SSG-27, Criticality Safety in the Handling of Fissile Material (2014)

• The Guides will remain as separate publications
• Technical interlinkages between the Guides will be considered
Objective and Scope

• SSG-5, SSG-6 and SSG-7 were initiated to be revised
  – Address new or modified requirements of SSR-4 and relevant GSRs and SSRs
• The objective and scope of the revised Guides remain unchanged
• Target audience remains unchanged
• NUSSC is the lead committee and EPRReSC, WASSC, RASSC and NSGC are the other responsible safety committees
Interfaces with Existing and/or Planned Publications

• IAEA Safety Requirements supported by the Guides
  – SSR-4

• IAEA Safety Requirements to be considered
  – GSR Part 2, GSR Part 3, GSR Part 4 (Rev.1), GSR Part 5, GSR Part 6, GSR Part 7, NS-R-3 (Rev. 1)

• IAEA Safety Guides for technical interlinkage
The structure of SSGs will remain essentially unchanged

1. Introduction
2. General considerations
3. Management and verification of safety
4. Site evaluation
5. Design
   - General
   - Design and safety assessment
   - Design basis
   - Specific recommendations for design
   - Provisions for the lifetime of a nuclear fuel cycle facility
   - Radiation protection
   - Design for protection against non-radiological hazards
   - Instrumentation and control systems
   - Design for radioactive waste management
   - Design for the management of atmospheric and liquid discharges
   - Design for emergency preparedness and response
   - Other specific provisions
6. Construction
7. Commissioning
8. Operation
   - General
   - Organization
   - Management of operational safety
   - Facility operations
   - Maintenance, periodic testing and inspection
   - Nuclear criticality safety
   - Radiation protection programme
   - Management of radioactive waste and effluents
   - Operational safety programmes
   - Emergency preparedness and response
9. Preparation for decommissioning

References
Annex I: Typical process routes in facility
Annex II: SSCs important to safety
Planned Schedule

STEP 1: Preparing a DPP  
STEP 2: Approval of DPP by the Coordination Committee  
STEP 3: Approval of DPP by the relevant review Committees  
STEP 4: Approval of DPP by the CSS  
STEP 5: Preparing the draft  
2 consultancy meetings  
STEP 6: Approval of draft by the Coordination Committee  
STEP 7: Approval by the relevant review Committees for submission to Member States for comments  
STEP 8: Soliciting comments by Member States  
STEP 9: Addressing comments by Member States  
STEP 10: Approval of the revised draft by the Coordination Committee  
Review in NS-SSCS  
STEP 11: Approval by the relevant review Committees  
STEP 12: Endorsement by the CSS  
STEP 13: Establishment by the Publications Committee  
STEP 14: Target publication date
Comments and Resolutions

22 comments on the DPP were received from:
• France, Japan, Pakistan, UK and USA
• NUSSC and WASSC members

All comments were carefully considered
• 12 comments were accepted and DPP modified
• 7 “accepted but modified” and DPP edited
• 3 comments were rejected

No comments have been received from EPReSC members
Action Requested

EPReSC approval for submission to the CSS
Thank you!