Commission on Safety Standards (CSS)

29th meeting

25 – 27 May 2011

Agenda Item 4.4
Transport Safety Standards Committee

Bill Brach - TRANSSC Chairman
Jim Stewart – Transport Safety Unit Head and TRANSSC Coordinator
Overview of TRANSSC 21 (November 2010)

- Main discussion topics:
  - Preliminary review of Member State comments on proposed changes to TS-R-1 and TS-G-1.1
  - Resolution of TRANSSC final comments on revised BSS (DS379)
  - Review/approval of plan to work with UN Subcommittee of Experts on Transport of Dangerous Goods to harmonize TS-R-1 and UN Model Regulations

- Additional topics:
  - Review draft Safety Standards and DPPs, coordination work with WASSC, Oct 2011 transport conference
Proposed Revisions to TS-R-1 and TS-G-1.1

- Over 300 Member State comments received on TS-R-1 (TS-G-1.1 open for comment at time of meeting)
- Provide early TRANSSC advice and direction on 18 complex substantive Member State comments
- With exception of criticality issues, TRANSSC provided consensus direction
- Criticality issues addressed by experts at Feb 2011 CSM
- Conforming changes for TS-G-1.1 also addressed in Feb 2011 CSM
- Next step for TS-R-1 is final review/approval by four committees at June 2011 meetings
Schedule and Status of TS-R-1 and TS-G-1.1 Revisions

- **Schedule for TS-R-1 revision:**
  - Late March 2010 - internal IAEA review 
  - Mid April 2010 - post for four Committees to review at June meetings
  - June 2010 - four Committees approve TS-R-1 for 120-day MS review
  - July 2010 - issue revised TS-R-1 for 120-day MS review
  - Spring 2011 - four Committees review/approve the final revised TS-R-1
  - Fall 2011 - CSS approves revised TS-R-1 (subsequently translated to official languages)
  - Early 2012 - BOG approves revised TS-R-1 *(will complete a 2-year process)*
  - Mid to late 2012 - Revised TS-R-1 published

- **Schedule for TS-G-1.1 revision:**
  - April/May 2010 - develop draft TS-G-1.1 to conform with proposed revisions to TS-R-1 and post for TRANSSC review
  - June 2010 - TRANSSC review/approval to post for 120-day MS review
  - August 2010 - internal IAEA review
  - August 2010 - issue revised TS-G-1.1 for 120-day MS review
  - Fall 2011 - TRANSSC reviews and approves final revised TS-G-1.1
  - Spring 2012 - CSS approves revised TS-G-1.1
  - Mid to late 2012 - Revised TS-G-1.1 published *(to be published in parallel with TS-R-1)*

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*Red* indicates an update/change
Approved:

- DS-407 (Criticality Safety) approved for 120-day Member State review
- DS414 (Safety of Nuc Pwr Plants) approved to send to CSS
- DS 429 (Ext Expert Support on Safety Issues) approved for 120-day Member State review
- DS 450 DPP (Safety Req on Decomm and Termination Activities) approved to send to CSS
- DS 451 DPP (Addendum to TS-G1.6, Schedules) approved to send to CSS
- DS451 (draft Addendum to TS-G-1.6) approved for 120-day Member State review, pending CSS approval of DPP
- TRANSSC/WASSC forum for coordination on issues of common interest and interface (Working Group, CSMs TMs)
- October 2011 IAEA conference on Safe and Secure Transport of Radioactive Material
Overview of TRANSSC Three Year Term Report Accomplishments

- Completed and published for the 1st time the entire suite of IAEA Transport Safety Standards
- Completed the 2009 TS-R-1 biennial review cycle in 7 months
- Based on safety significance of proposed changes to TS-R-1, initiated revision cycle with revised TS-R-1 prepared in 6 months
- For 1st time prepared proposed revisions to Safety Guide, TS-G-1.1 in parallel with TS-R-1 revision
- On track to achieve approval and publication of TS-R-1 and TS-G-1.1 in tandem in 2012 (approx 24 months from DPP approval and 36 month from start of review cycle)
- Accomplishments achieved through “outstanding” Member State support of 15 TMs, 36 CSMs and 2 RCs
TRANSSC Three Year Term Report
Future “Near Term” Challenges

- Highest priority on transport safety (TS-R-1 and six associated safety guides)
- Timely translation of safety standards and training material
- Complete review and final approval of TS-R-1 and TS-G-1.1
- Complete ongoing revisions of TS-G-1.2 (EP) and TS-G-1.6 (Schedules)
- Consider areas that would benefit from new/revised guidance, including:
  - Transport of large components and special arrangements.
  - Design, manufacture and use of transport packages not requiring regulator approval.
  - Transport of spent fuel after long term storage (dual purpose casks).
  - Self-assessment tools for regulators.
  - International Member State TS-R-1 applicant review guide
  - Develop/update training materials and improve outreach tools and activities (e.g., web site, e-learning, regional training/workshops, handouts, and videos)
TRANSSC Three Year Term Report
Future “Additional” Challenges

- Work more closely with other UN organizations to improve harmonization of international transport regulations (e.g., SCETDG, ICAO, IMO)
- Support working group initiative with UN Subcommittee of Experts on Transport of Dangerous Goods to achieve harmonization of TS-R-1 and UN Orange Book
- Increase focus on learning from world-wide transport operational experience
- Determine if new/revised transport safety standards are needed to address unique challenges of long term storage of spent fuel
- Determine if new/revised transport safety standards are needed to support small transportable power reactors
- Determine if new/revised transport safety standards are needed to support new generation power reactors, and transport of new fuel designs and fuel types
- Maintain and improve transport safety and security interface
Next Steps/Actions for TRANSSC (TRANSSC 22 June 2011)

- Planning a “new TRANSSC Member” orientation and training session at TRANSSC 22
- Review/approve final revisions to TS-R-1 at TRANSSC 22
- Review TRANSSC Three Year Term Report list of Future Challenges
- Decide/agree on near term actions
- Chart course for future additional TRANSSC actions
- Two-year “review cycle” for TS-R-1 continues to be suspended while TS-R-1 “revision cycle” is ongoing
- Continue work with UN Subcommittee of Experts on Transport of Dangerous Goods to achieve harmonization of TS-R-1 and UN Orange Book