TRANSSC 27 REPORT

TRANSSC Part 1
TRANSPORT TECHNICAL
ISSUES DISCUSSED IN WORKING GROUP(s)

OPENING 11 NOVEMBER 2013 10:00
CLOSE 13 NOVEMBER 2013 17:00

TRANSSC Part 2
TRANSSC DISCUSSION AND DECISION ON MATTERS
REQUIRING TRANSSC ACTION

OPENING 14 NOVEMBER 2013 09:00
CLOSE 15 NOVEMBER 2013 13:00

IAEA, C1 ROOM
1.0 OPENING SESSION: TRANSSC Part 1 – TRANSPORT TECHNICAL ISSUES DISCUSSED IN WORKING GROUP(s)

1.1. Opening Remarks and Introduction of Working Group Chair(s)

1.1.1 Mr Bill Brach, TRANSSC Chair

Mr Brach welcomed all the participants, and noted the arrival of Mr Stephen Whittingham as the new Unit Head for the Transport Safety Unit at IAEA. Mr Brach briefly described the new format of the TRANSSC meeting for TRANSSC 27, with the introduction of the working groups for Part 1 of the TRANSSC meeting, followed by Part 2 of the TRANSSC meeting where the committee would receive and act upon the recommendations provided by the working groups and conduct other TRANSSC business. Working Group 1 would involve all attendees and would be considered a “plenary” working group. Mr Brach also mentioned the arrangements for hospitality for meeting participants.

1.1.2 Mr Steve Whittingham, TRANSSC Scientific Secretary

Mr Whittingham also welcomed the participants and wished them a productive meeting.

1.1.3 Administrative Meeting Arrangements

Mr Whittingham briefly described the administrative arrangements for the meeting.

1.1.4 Working Group Chairs

The Working Group Chairs were introduced: Mr George Sallit (UK), for WG1, Mr Frank Nitsche (Germany) for WG 2, and Dr Bernhard Droste (Germany) for WG 3. It was stressed that the meeting of WGs 2 and 3 would be contingent on the completion of work by WG1.

2.0 WORKING DISCUSSIONS

2.1. Working Group 1 (WG1)

2.1.1 Approval of WG 1 Terms of Reference

Working Group 1 members accepted the terms of reference.

2.2 Transport standards review cycle

2.2.1 Review of proposals for change

The working group reviewed all the proposals for change offered for the 2013 review cycle.

2.3 Conclusions of WG1

2.3.1 Decision on change proposals and recommendations to revise SSR-6 or not. WG1 reviewed over 60 proposed changes to the transport regulations, SSR-6. WG1 noted that many of the proposals were not specific recommended changes to the regulations, but were proposals identifying
issues for which further work and study are necessary. WG1 concluded that a revision of SSR-6 2012 Edition was not warranted based on the working group’s review of the proposed changes and when evaluated with the TRANSSC approved decision criteria for safety significance.

See Section 5.6.1 below for a more detailed discussion of the WG1 conclusions.

2.4 Working Groups 2 and 3

2.4.1 Approval of Terms of Reference

WG 2 and 3 terms of reference were agreed to by the WG members.

2.5 Conduct of WGs 2 and 3

These working groups met following the conclusion of WG1 on 13 November.

2.6 Conclusions of WGs 2 and 3

The conclusions and recommendations of these working groups were presented to the TRANSSC 27 Part 2 plenary and are described below in Sections 4.4 (Agenda Item 2.6) and 4.3.1, respectively.

3.0 OPENING OF TRANSSC 27 - TRANSSC Part 2 – TRANSSC DISCUSSION AND DECISION ON MATTERS REQUIRING TRANSSC ACTION

3.1 Opening Remarks

3.1.1 Mr Pil-Soo Hahn, Director, NSRW

Mr Hahn welcomed all participants. He identified that this was the second meeting under the restructured TRANSSC meeting agenda that was revised in response to the recommendations of the Office of Internal Oversight Services (OIOS) internal review of the transport safety program, and suggestions from TRANSSC members. He noted that the term of the TRANSSC chair, Mr Bill Brach, will be ending and that this would be his last TRANSSC meeting as Chair. He complimented and thanked Mr Brach for his outstanding work as the Chair of TRANSSC for the last 6 years. Mr Hahn presented Mr Brach with a letter of appreciation from the Agency. A full copy of his opening statement is included in Annex 1.

3.1.2 Mr Bill Brach, TRANSSC Chair

Mr Brach also welcomed the participants and briefly reviewed the important tasks that would be carried out at the meeting. He acknowledged the work of the working groups that met in the Part 1 of the TRANSSC meeting. Mr Brach acknowledged Kasturi Varley and thanked her for service in the IAEA Transport Safety Unit and for her many accomplishments to improve the international transport safety program. Mr Brach also thanked the TRANSSC members and the Transport Safety Unit for their help and support during his tenure as TRANSSC Chair for the past 6 years. He also thanked the IAEA for giving him the opportunity to serve as TRANSSC Chair. A full copy of his opening statement is included at Annex 2.
4.0 ADMINISTRATION ITEMS
During the conduct of TRANSSC 27 Part 2, several agenda items were presented out of order to accommodate TRANSSC member and IAEA staff schedules. However, the summary of each item is provided under the appropriate section in accordance with the revised agenda.

4.1 Conduct of the Meeting

4.1.1 Conduct of meeting and agenda – Bill Brach
Mr Brach reviewed the changes to the agenda that were proposed since the posting of the draft agenda on 11 September 2013. A copy of the revised agenda was provided to TRANSSC members on Monday, 11 November at the start of Part 1 of TRANSSC 27. Mr Brach noted that the presentation on WG2 and the information report from the UN SCETDG would be moved to agenda item 4.3 due to limited availability of the presenters. The revised agenda is attached as Annex 3.

TRANSSC APPROVED the revised meeting agenda

4.1.2 Terms of Reference – Bill Brach
Mr Brach identified the TRANSSC Terms of Reference that were posted on the TRANSSC 27 web page. He also noted that these are the same Terms of Reference as used in the previous TRANSSC meetings during this three year term.

4.2 Review of Previous Meetings

4.2.1 Previous meeting report – Bill Brach
Mr Brach noted that the draft TRANSSC 26 meeting report had been available for review since July 2013. No TRANSSC member comments had been posted and no comments were offered on the report at TRANSSC 27. The final approved meeting report for TRANSSC 26 is attached as Annex 4.

TRANSSC APPROVED the report of TRANSSC 26

4.2.2 Action Record Sheet – Steve Whittingham
Mr Whittingham presented the Action Record Sheet and provided updates for previously open action items. Mr Whittingham also proposed to start a new Action Record Sheet for the new TRANSSC three year term beginning in 2014. The new record would carry forward any remaining open TRANSSC actions and include actions resulting from TRANSSC 27. The revised Action Record Sheet was approved and is attached at Annex 5.
TRANSSC APPROVED the revised Action Record Sheet

In consideration of the offer from Brazil to host TRANSSC 29 in Brazil (TRANSSC Action 26.7), Mr Whittingham stated that scheduling a TRANSSC meeting in a regional location may encourage greater participation of Member States in that region, but he raised a concern if the regional location may limit participation of other Member States to travel to that region. He asked TRANSSC members to check on their availability to travel to Brazil in November of 2014 and inform him of their planned attendance at TRANSSC 29 if held in Brazil.

TRANSSC ACTION TRANSSC members to inform secretariat of intent to attend the TRANSSC 29 meeting in Brazil, by end of February 2014.

4.2.3 Feedback from the Commission on Safety Standards – Dominique Delattre
Mr Delattre provided an information presentation on the meeting of Committee Chairs held 4 November 2013, and the 34th meeting of the Committee on Safety Standards held 5-6 November 2013. A summary of the Interface Group activities was also provided. A copy of Mr Delattre’s presentation was posted on the TRANSSC 27 web page.

4.2.4 Review Committee Chairs Meeting
Mr Brach stated that Mr Delattre’s presentation under 4.2.3 provided a complete summary of the Chair’s meeting and unless there were any questions, he did not have any additional information to offer.

4.3 Topical briefing and discussion on Member States presentations sharing of operational experience and use of IAEA Safety Standards

Mr Brach noted that Mr Sakar, Australia, sent his regrets that office needs precluded his attendance at TRANSSC 27. The Secretariat will ask if he could possibly give his presentation on the Australian program and experience at a future TRANSSC meeting. Under this agenda item, Dr Droste presented the outcome of Working Group 3 deliberations and Ms Mansion gave an information update on the Subcommittee of Experts on Transport of Dangerous Goods (UN SCETDG) activities. Additional information on these presentations is presented under agenda items 5.9.2 and 5.11.1 respectively.

4.4 Plenary questions/clarification on posted Information Papers –

The opportunity for questions on the INF papers posted for TRANSSC 27 was provided. No immediate questions or comments were received from the TRANSSC members.

5.0 THE DEVELOPMENT OF DOCUMENTS/PRODUCTS
5.1. **DPP Approval**
Mr Brach summarized the practice TRANSSC would use in reviewing/approving/clearing all proposed Document Preparation Profiles (DPP) and draft safety and security documents. If there are no TRANSSC member comments and no transport related comments submitted on the documents during the requested 60 day comment period, TRANSSC would conclude the document is acceptable and would approve the DPP or draft document without any further discussion, presentation, or review. The following DPPs were approved by TRANSSC following this review/approval process:

5.1.1 TRANSSC APPROVED DPP DS476 - Safety of Research Reactors (revision of NS-R-4)
5.1.2 TRANSSC APPROVED DPP DS478 - Safety of Fuel Cycle Facilities (rev. of NS-R-5)
5.1.3 TRANSSC APPROVED DPP DS479 SG Operating Experience Feedback for Nuclear Inst.
5.1.4 The DPP for DS480 pertaining to the revision of SSR-6 was withdrawn based on the decision of TRANSSC not to initiate a review cycle for SSR-6 (see Section 5.6.1).

5.2. **DPP clearance**
Following the TRANSSC process described in 5.1 above:

5.2.1 TRANSSC CLEARED DPP NST044 - IG Security of Radioactive Material in Transp.
5.2.2 DPP NST045 - Nuclear Security Rec. for Computer Security Document withdrawn by NSGC

5.3. **Draft Safety Standards Approval**
Following the TRANSSC process described in 5.1 above:

5.3.1 TRANSSC APPROVED DS453 on Occupational Radiation Protection
5.3.2 TRANSSC APPROVED DS460 - Communication and Consultation with Interested Parties
5.3.3 TRANSSC APPROVED DS419 Radiation Protection and Safety in Well Logging
5.3.4 TRANSSC APPROVED DS420 Radiation Protection and Safety in Nucleonic Gauges
5.3.5 TRANSSC APPROVED DS458 Radiation Safety for Consumer Products

5.4. **Draft Security Recommendations clearance**
Following the TRANSSC process described in 5.1 above:
5.4.1. NST013 – Radiological Crime Scene Management - Draft Implementing Guide -
No comments related to transport had been submitted to this point. However the 60 day period for TRANSSC member comments is still open.
TRANSSC ACTION TRANSSC members to provide comments on NST013 to Secretariat by November 23, 2013.
TRANSSC ACTION TRANSSC Chair to clear document following TRANSSC member review and comment.

5.4.2. NST017 – Security Of Nuclear Material in Transport - Draft Implementing Guide -
No comments related to transport had been submitted to this point. However the 60 day period for TRANSSC member comments is still open.
TRANSSC ACTION TRANSSC members to provide comments on NST017 to Secretariat by November 23, 2013
TRANSSC ACTION TRANSSC Chair to clear document following TRANSSC member review and comment.

5.4.3. NST022 Security of Information in Nuclear Security - Draft Implementing Guide.
TRANSSC CLEARED NST022 Security of Information in Nuclear Security - Draft Implementing Guide

5.5. Overview of Recommended Changes to SSR-6 Resulting from Technical Meeting on Transport Environment

5.5.1. Ms Marie-Therese Lizot (France) summarized the work and conclusions of the Technical Meeting on the Environment to which Packages May be Subject During Transport and Related Issues Concerning the Regulations for the Safe Transport of Radioactive Material (TM-44891) that was held in July 2013. Ms Lizot identified the recommendations from the meeting that included both specific proposals for changes to the transport regulations, SSR-6, and issues/problems that the Technical Meeting recommended be studied further. The Technical Meeting outcome and recommendations for changes to SSR-6 were considered in the review of proposals for change to SSR-6 by Working Group 1 in TRANSSC 27 Part 1. Ms Lizot’s presentation was posted on the TRANSSC 27 web page.

5.6. Review of proposed changes to SSR-6

5.6.1. The Chair of Working Group 1, Mr George Sallit, reviewed the work of the working group and reported the results to TRANSSC. The main finding and conclusion of Working Group 1 was that no revision of SSR-6 is warranted at this time, and therefore, a revision cycle should not be entered. The Working
Group noted that SSR-6 2012 Edition has not been implemented by any Member State and hence there is no feedback or experience in implementing the new regulations. The same situation exists for the Advisory Material (SSG-26) which has also at this point not been used by Member States. In addition, SSG-26 is presently not available as printed document, it is presently in publication.

Working Group 1 identified a number of issues that warrant further development, noting that some of the issues may in a future review cycle, if developed, warrant consideration for revising SSR-6. The Secretariat offered to help coordinate Member State evaluation and study of some of the issues at future consultancies and working group meetings, and offered to assist in coordinating Member State interest in participating in correspondence/working groups led by TRANSSC members. Along with the decision not to start a new revision cycle for SSR-6, there also would not be a revision of the Advisory Material (previously issued as TS-G-1.1 and soon to be published as SSG-26) There was broad TRANSSC support for the conclusion of Working Group 1 to not start a new revision cycle for SSR-6. The Working Group 1 report is attached at Annex 6.

TRANSSC APPROVED the decision that a revision cycle of the regulations in SSR-6 will not be initiated at this time.

TRANSSC ACTION Secretariat to develop a plan on how issues identified in the 2013 review cycle will be addressed in technical/consultancy meetings, working groups, and/or meetings of the inter-agency group, and to inform TRANSSC members before the end of January 2014.

TRANSSC ACTION Secretariat to provide review and revision cycle schedule document for 2015 review cycle, to be posted to TRANSSC 27 website by end of November 2013.

TRANSSC ACTION Secretariat to provide TSU meeting schedule for 2014, to be posted to TRANSSC 27 website by end of November 2013.

5.7. Transport Safety Standards status overview

5.7.1. Ms Capadona of the Transport Safety Unit (TSU) provided a status overview of the current IAEA transport safety standards. Comments were provided by TRANSSC members and discussion ensued on draft guidance documents. TRANSSC members inquired on the status and plans for revising TS-G-1.2 on transport emergency preparedness. The DPP was approved by CSS in March 2013, and the Safety Guide had been identified as a priority Safety Guide to be updated to reflect lessons learned from the Fukushima event and to bring the 10 year old guidance document up to date with the agency’s Incident Emergency Centre guidance.
TRANSSC ACTION Secretariat to provide feedback to TRANSSC members on plans and schedules related to the revision of TS-G-1.2 by end of 2013.

5.8. Final document approval


5.9. Work with other Committees/CSS

5.9.1. Terms of Reference for the next term of the Safety Standards Committees - Mr Delattre presented an overview of changes to the Terms of Reference for the next three year term, 2014 – 2016. He stated that the Terms of Reference were revised in response to Safety Standards Committee comments, including comments from TRANSSC members. He also identified that the Chairs and the CSS accepted the revised Terms of Reference at their meetings the previous week. A copy of Mr Delattre’s presentation was posted on the TRANSSC 27 web page.

5.9.2. TRANSSC work with WASSC on extended storage followed by transport

Dr Bernhard Droste, Chair of Working Group 3, provided an overview of the activities of the Working Group, related to dual purpose casks and transport after long-term storage. He discussed some of the technical challenges and the regulatory issues that must be addressed to develop a road map for transport of spent fuel after extended storage periods that could involve many decades or a century or more before the spent fuel is transported. There was much discussion among TRANSSC members related to the work of the working group. The Working Group 3 report is attached at Annex 8.

5.10. Discussion IAEA documents

5.10.1. Discussion of text for Civil Liability for Nuclear Damage Resolution

Mr A. Gioia provided a presentation on the draft resolution on the exclusion of small quantities of nuclear material from the application of the nuclear liability Vienna Conventions. The draft IAEA Board of Governors resolution
establishing maximum limits for the exclusion of small quantities of nuclear material from the application of the Vienna Conventions (provided as a working document on the TRANSSC 27 website) was submitted to TRANSSC for review to ensure technical adequacy. Ms Capadona provided a follow-on presentation that detailed the changes proposed for the BoG resolution, resulting from changes in the 2012 Edition of SSR-6. Some members provided comments and questions on the proposed changes. The chair stated that the draft resolution had not been provided to TRANSSC 60 days in advance of the meeting and noted that some of the TRANSSC members also asked for more time to review the proposal. The Chair stated that TRANSSC members must have the required 60 days from the date of posting to review the proposal.

**TRANSSC ACTION** TRANSSC members to review the draft IAEA Board of Governors resolution establishing maximum limits for the exclusion of small quantities of nuclear material from the application of the Vienna Conventions and provide any comments or suggestions by electronic correspondence to the TRANSSC Scientific Secretary, by December 17, 2013.

5.11. Information from other UN/International bodies on their documents

5.11.1. SCETDG - Ms Sabrina Mansion of the United Nations Economic Council of Europe (UNECE), the Secretariat for the UN Subcommittee of Experts on Transport of Dangerous Goods, provided an update on the UN Orange Book (18th revised edition) and the ensuing translations and when those will be available. Ms Mansion provided updates on activities of the International Maritime Organization (IMO), the International Civil Aviation Organization (ICAO), and the RID/RDN/ADR related to the regulations promulgated by those bodies. Ms Mansion mentioned that the issue of the subsidiary risk of UF₆ would be discussed at the 45th meeting of the UNECE Sub-Committee of Experts on the Transport of Dangerous Goods (SCETDG) in 2 weeks. A summary of Ms Mansion’s talking points on the UNECE SCETDG activities was posted on the TRANSSC 27 web page.

5.11.2. ICAO - Ms Katherine Rooney (ICAO) presented a brief review and update on the ICAO regulations for dangerous goods transport, as well as recent additions to the ICAO website related to dangerous goods transport. Ms Rooney mentioned that her section at ICAO will be renamed from the dangerous good section to the cargo safety section, to be effective sometime next year.

5.11.3. IMO - No input was received from IMO.

6.0 TRANSSC WORK NOW AND IN THE FUTURE

6.1. Technical Meeting on Transport Environment
Ms Marie-Therese Lizot (France) provided an overview of the Technical Meeting on the transport environment under agenda item 5.5. Her presentation covered both recommendations for changes to SSR-6, and other issues that were proposed for further study that resulted from deliberations at the July 2013 Technical meeting.

6.2. Denial of Shipment

Mr Steve Whittingham provided an introduction and asked Mr Serge Gorlin, previous Chair of the International Steering Committee on Denial of Shipment (ISC) to provide an update on the issue of denials and the recently completed work of the ISC. Much of the work of the ISC will be carried over to the inter-agency group (IAG). An informal meeting of some of the previous ISC management team will convene in January 2014 to discuss plans and preparation for the first meeting of the Denial Working Group (DWG) meeting currently scheduled for March 2014.

Mr Whittingham then discussed the work the Agency has planned in the area of denials. He described the formation of the Denial Working Group that is envisioned to include about a few (2-3) TRANSSC members. He asked TRANSSC members to inform him if they are interested in participating in the Denial Working Group.

**TRANSSC ACTION** TRANSSC members to inform Secretariat of interest in participation on the Denials Working Group by end of December, 2013.

6.3. Technical Cooperation Projects

Ms Capadona provided a summary and update on the numerous IAEA technical cooperation (TC) projects that have either a transport focus or component. She asked Mr Bajwa to discuss an interregional TC project for which he is the Technical Officer. Mr Bajwa briefly described the project (INT 9180) and indicated that the Agency will be looking for partner countries to support some of the work proposed for this project, as not all of the proposed activities in the project will be funded.

6.4. Extra Budgetary Funded Projects

Mr Bajwa provided information on transport projects and tasks funded through extra-budgetary means, followed by an update on the technical basis document. Copies of Mr Bajwa’s presentations were posted on the TRANSSC 27 web page.

6.5. Technical Basis Document
   See Section 6.4 above.

6.6. Discussion IAEA documents
   6.6.1. Radiation Protection Programmes
Mr Friedrich Kirchnawy (Austria) presented an issue that dealt with the amount of information provided in the regulations for the radiation protection programs. The example was given of the European Commission which is proposing extensive additional requirements for radiation protection programs. Mr Kirchnawy offered the opinion that if some governments feel the need to provide extensive requirements above and beyond the current transport regulations for this area, perhaps more should be incorporated in the discussion of radiation protection programs in SSR-6. The Chair asked if any specific issue or problem had been identified. A brief discussion of the issue ensued, with a diversity of views offered. The Chair summarized that based on the limited discussion, it was not clear that a specific issue or problem had been identified to warrant consideration of a change to SSR-6.


Ms Lizot (France) provided a brief presentation on the status of this project. The presentation reflected the schedule of having a draft package design safety report guidance document for TRANSSC review by TRANSSC 29. A brief discussion of the report followed the presentation.

6.6.3 Working Group 2 – Thematic Safety Area 7 on Transport

The report of Working Group 2 was provided by the working group Chair Mr Frank Nitsche (Germany). Mr Nitsche reviewed the work completed by the group. The TSA-7 Questionnaire was reviewed and suggested revisions were offered by the working group. He thanked the group members for their contributions. The WG 2 report is provided as Annex 7 of this report.

7.0 REVIEW OF DRAFT MEETING REPORT

7.1. Review of Meeting Report

The draft TRANSSC 27 meeting report was distributed to members for review of the TRANSSC APPROVALS, TRANSSC CLEARANCES, and TRANSSC ACTIONS. The draft report was reviewed in plenary. Revisions and comments are reflected in this revised draft final meeting report.

TRANSSC APPROVAL TRANSSC members agreed with the TRANSSC actions and approvals as listed in the draft TRANSSC 27 meeting report.

8.0 AGENDA FOR NEXT TRANSSC

8.1. Items of interest for TRANSSC

8.1.1. Issues for topical discussion – operational feedback

The Secretariat will follow up with Mr Sarkar (Australia) to determine his availability to present an overview of the Australian transport program and
experience feedback at TRANSSC 28 (this presentation was previously planned for TRANSSC 27). Mr Brach asked other TRANSSC members to inform the Secretariat of their interest in presenting an overview of their program and experience feedback at future TRANSSC meetings.

8.1.2. Recommended TRANSSC 28 agenda items
Mr Brach solicited feedback and input on the next TRANSSC meeting from members and asked them to provide feedback to the TSU. TRANSSC members generally expressed acceptance of the new format and indicated that the streamlining of the business portion of the meeting was of value, allowing for more discussion of relevant transport issues.

Mr Delattre recommended an inclusion of an “induction” session at the next TRANSSC meeting since it will be the first meeting of the new term and may contain new members. Mr Brach also reiterated the request that Members provide presentations of the application of the transport regulations in their own countries, to include feedback and sharing of operational experiences.

9.0 CLOSE OF MEETING
9.1. Closing Remarks

9.1.1 Bill Brach, TRANSSC Chair
Mr Brach thanked TRANSSC members for their participation and expressed his gratitude for the work done by the committee. He expressed his thanks to all the members for a productive term, highlighting a number of “firsts” in terms of the accomplishments of TRANSSC, and for supporting his efforts as the Chair for the last two terms of his Chairmanship. He especially thanked everyone for their patience and support over the past 6 years.

9.1.2 Pil-Soo Hahn, Director, NSRW
Mr Hahn highlighted the decisions made at the 27th TRANSSC meeting, particularly the decision not to enter a revision cycle based on the 2013 review of SSR-6. He clearly stated that despite this decision, there remains much work to be done. Mr Hahn specifically thanked Mr Brach for his leadership for the past six years and wished him well in his retirement from the duties of the TRANSSC chair. With his comments, Mr Hahn officially closed TRANSSC 27.

List of Annexes
1. Opening Remarks by Mr Hahn, Director, NSRW
2. Opening Remarks by Bill Brach, TRANSSC Chair
3. Revised TRANSSC 27 Meeting Agenda
4. Final Approved TRANSSC 26 Meeting Report
5. Revised TRANSSC 27 Action Record Sheet
6. Working Group 1 Report
7. Working Group 2 Report
8. Working Group 3 Report
ANNEX 1

OPENING REMARKS FOR THE 27th MEETING
OF THE TRANSPORT SAFETY STANDARDS COMMITTEE (TRANSSC)
MR. PIL-SOO HAHN, DIRECTOR, NSRW

Good morning Ladies and Gentlemen.

I would like to welcome you to the 27th meeting of TRANSSC.

This the second meeting of TRANSSC to be held in the revised format of Working Groups followed by the core business meeting where formal TRANSSC decisions are made.

Part 1 of this meeting (Monday to Wednesday of this week) was very important with one Working Group reviewing over 70 proposals for changes to SSR6 and its advisory material received during the 2013 review cycle.

The recommendation from this Working Group will now be considered in the TRANSSC plenary and a decision will be made to either begin or have a revision cycle for SSR6.

Two other Working Groups have discussed the technical and regulatory issues arising from the transport of Dual Purpose Casks after long term storage, and the profile for Thematic Safety Area 7 on transport which is an important tool used by the Agency to evaluate the transport regulatory capabilities of Member States.

I have been given positive feedback on the first 3 days work and I am pleased that our adoption of the OIOS recommendations to segment the TRANSSC meeting has been well received and effective.

I wish you a successful meeting and appreciate your attendance and contribution to this very important Committee.

And now before I hand over the meeting to your Chair - Bill Brach I wish to present him with this letter of commendation on behalf of all TRANSSC members and the IAEA. Bill has served a 6 year term as TRANSSC chair and is extremely respected for his dedication and contribution to the TRANSSC meetings these past few years.

We wish him all the best for the future and life after TRANSSC.

Thank you Bill.
ANNEX 2

OPENING REMARKS FOR THE 27th MEETING OF THE TRANSPORT SAFETY STANDARDS COMMITTEE (TRANSSC)
BILL BRACH, CHAIRMAN

I want to “Thank” Mr. Hahn for opening Part 2 of our 27th meeting of TRANSSC.

Before I discuss any of the major agenda topics for this part of the TRANSSC meeting, let me more formally extend a warm welcome to Mr. Steve Whittingham who has moved to his new position as Head of the Transport Safety Unit. In this capacity, Steve also serves as our TRANSSC coordinator. Steve, you are clearly well known to us all and you are very respected in the transport community. We look forward to working with you on TRANSSC and transport safety activities. Congratulations on your new position and Welcome Steve!

As you all have already experienced during the first three days this week, we are continuing to implement the recommendations from the Office of Internal Oversight Services’ review of the Agency’s transport safety program. You will note that we have also implemented many of the suggestions that you provided on ways to improve the conduct and the efficiency of our TRANSSC meetings. We will have an opportunity later in this meeting, toward the end of our meeting agenda, for you to provide feedback on the revised meeting structure. So I ask that you start thinking now about views, recommendations, and comments that you may have on the meeting structure and agenda to help the Secretariat in planning for TRANSSC 28, in June of next year.

We have a fairly long list of draft Safety Standards and draft Nuclear Security Series documents to review at this meeting. We plan to continue our use of what I will refer to as our expedited and efficient TRANSSC process for review and approval or clearance of these documents. Again I encourage you to think about any feedback you would like to provide to help shape, change, or maintain this expedited document review process.

I want to draw your attention to one major discussion item on our agenda involving the decision TRANSSC will need to make at this meeting on whether or not to initiate a new revision cycle of SSR-6. I know that almost all of us have already spent a significant effort and time earlier this week discussing this matter, discussing changes we believe could be made, changes that we believe need more study, and recognizing the need for maintaining regulatory stability. Let me just say, as Mr. Hahn stated, “Decision time has now arrived.”

This is our last TRANSSC meeting of this three-year term. We posted on the TRANSSC 27 web page a draft of the TRANSSC Three Year Term Report for 2011 - 2013. Included in the draft report is a long list of TRANSSC accomplishments over the past three years. I want to quickly add that these accomplishments would not have been achieved without the outstanding support and hard work of the Transport Safety Unit and each of you on TRANSSC. I believe all of us on TRANSSC and the Transport
Safety Unit staff can be very proud of the accomplishments. Please note that many are first-time accomplishments for TRANSSC. I encourage you to read the report if you have not already done so. I also ask that if you have any comments on the draft Three Year Term Report, please provide them to me by the end of November so that I can include them in the final report that I will provide the Secretariat by mid-December.

I have asked Kasturi Varley to join us this morning. I believe you know that Kasturi has moved to a new position in the Department of Nuclear Energy. I asked her to come this morning so that we can recognize and thank her for all her hard work and contributions to TRANSSC, the Transport Safety Unit, and the safe international transport of radioactive material. Kasturi, we Thank You, we will miss you, and we wish you well in your new position. Thank you Kasturi!

Now, on a personal note, I will be ending my tenure as TRANSSC Chair following this meeting. A new TRANSSC Chairperson will be appointed for the new term starting in January 2014. I want to express my sincere Thanks and Appreciation to each of you for your help, your support, and especially your patience with me for the past six years. I know that I have made my share, and probably more than my share, of mistakes or miscues serving as your Chair. I have tried to learn from, or at least not too frequently repeat, my mistakes. I think you all know by now that I have used the excuse of “Tennessee English” as cover for my lack of linguistic ability, especially when calling on you and mispronouncing your name. Sometimes I found it easier to call on you by your first name rather than your last name. And, even sometimes I called on you by the wrong name. Again, I apologize. Last night, our TRANSSC dinner was a special night for me. I was surprised. I am also most appreciative to each of you. And, I Thank you! As I said last night, I have enjoyed the work and role as TRANSSC Chair, but I have especially enjoyed the comradery and friendships we have developed. I want to sincerely Thank you and Thank the IAEA for this opportunity! Thank you!

I believe that at this time we need to move to our next agenda item, item 4.1.1, which is conduct of TRANSSC 27 Part 2, and review and approval of the TRANSSC 27 Part 2 meeting agenda.

Thank you!
ANNEX 3

TRANSSC 27
AGENDA

TRANSSC Part 1
TRANSPORT TECHNICAL
ISSUES DISCUSSED IN WORKING GROUP(s)

OPENING 11 NOVEMBER 2013 10:00
CLOSE 13 NOVEMBER 2013 17:00

TRANSSC Part 2
TRANSSC DISCUSSION AND DECISION ON MATTERS
REQUIRING TRANSSC ACTION

OPENING 14 NOVEMBER 2013 09:00
CLOSE 15 NOVEMBER 2013 13:00

IAEA, C1 ROOM
### OPENING SESSION (starting Monday 10:00 AM)

TRANSSC Part 1 – TRANSPORT TECHNICAL ISSUES DISCUSSED IN WORKING GROUP(s)

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<tr>
<th>Purpose</th>
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</thead>
<tbody>
<tr>
<td>To Welcome Participants</td>
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<tr>
<td>To provide Direction for the TRANSSC Part 1 Working Group(s) Meeting</td>
<td></td>
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</tbody>
</table>

#### 1.1. Opening Remarks and Introduction of Working Group Chair(s)

1. Chair – Bill Brach
2. Secretariat – Steve Whittingham
3. Administrative Meeting Arrangements – Steve Whittingham
4. Working Group Chairs
   - WG1 George Sallit
   - WG2 Frank Nitsche
   - WG3 Bernhard Droste

### WORKING DISCUSSIONS (Monday to Wednesday)

<table>
<thead>
<tr>
<th>Purpose</th>
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<tbody>
<tr>
<td>To identify and discuss topics to be considered in TRANSSC working groups</td>
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</table>

#### 2.1. Working Group 1

1. Approval of WG1 Terms of Reference

#### 2.2. Transport standards review cycle (to be conducted in one working group plenary session)

1. Review of proposals for change to SSR-6 – George Sallit

#### 2.3. Conclusions of WG1

1. Decision on change proposals and recommendations to revise SSR-6 or not, report to be provided to TRANSSC 27 Part 2
### 2.4. Working groups 2 and 3
- **If agenda item 2.3 is completed before Wed COB**
- **Approval of Terms of Reference (in plenary)**
  - WG 2 Frank Nitsche
  - WG3 Bernhard Droste

### 2.5. Conduct of WGs 2 and 3
- **1. Recommendations on the issues discussed**

### 2.6. Conclusions of WGs 2 and 3
- **1. Recommendations on the issues discussed**

### Output Required
- **Recommendations for TRANSSC 27 Part 2 meeting:**
  - WG1 Report to include a record of the decision made against each change proposal and the overall recommendation to revise or otherwise SSR-6
  - WG2 Draft of the TSA 7 profile template
  - WG3 Report on the issues raised by incorporating in SSR-6 the TRANSSC-WASSC Working Group recommendations

### 3.0 OPENING OF TRANSSC 27 (starting Thursday 9:00 AM)
**TRANSSC Part 2 – TRANSSC DISCUSSION AND DECISION ON MATTERS REQUIRING TRANSSC ACTION**

#### Purpose
- To Welcome Participants
- To provide TRANSSC Direction for the Meeting

#### 3.1. Opening Remarks
- **1. Director, NSRW**
- **2. Chair – Bill Brach**

#### Output Required
- None – For information only

### 4.0 ADMINISTRATION ITEMS

#### Purpose
- To establish a clear set of guidelines for the conduct of TRANSSC
- To adopt the agenda
- To inform TRANSSC of the Administrative arrangements
- To make people aware of key discussion topics
- To provide follow up to previous meetings and related administrative matters
- To provide an opportunity for sharing and awareness on a topical issue

#### 4.1. Conduct of the Meeting
- **1. Conduct of meeting and Agenda – Bill Brach**
- **2. Terms of Reference – Bill Brach**
- **3.**
### 4.2. Review of previous meetings

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1.</td>
<td>Previous meeting report – Bill Brach</td>
</tr>
<tr>
<td>2.</td>
<td>Action Record Sheet – Steve Whittingham</td>
</tr>
<tr>
<td>3.</td>
<td>Feedback from the Commission on Safety Standards – Dominique Delattre</td>
</tr>
<tr>
<td>4.</td>
<td>Chairs meetings – Bill Brach</td>
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### 4.3. Topical briefing and discussion on Member States presentations, sharing of operational experience and use of IAEA Safety Standards

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### 4.4. Plenary questions/clarification on posted Information Papers

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<th>Open discussion</th>
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**Output Required**
- approved agenda,
- approved TRANSSC 26 meeting report,
- approved Action Record Sheet

### 5.0. THE DEVELOPMENT OF DOCUMENTS/PRODUCTS

**Purpose**
- To inform TRANSSC about the status of safety standards
- To comment on and decide on whether to approve safety documents or clear security documents sent to TRANSSC
- To inform TRANSSC about the status of other relevant requirements

#### 5.1. DPP approval

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1.</td>
<td><a href="#">DPP DS476</a> - Safety of Research Reactors (revision of NS-R-4)</td>
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<tr>
<td>2.</td>
<td><a href="#">DPP DS478</a> - Safety of Fuel Cycle Facilities (rev.of NS-R-5)</td>
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<tr>
<td>3.</td>
<td><a href="#">DPP DS479</a> SG Operating Experience Feedback for Nuclear Inst.</td>
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<tr>
<td>4.</td>
<td><a href="#">DPP DS480</a> - SR revision of SSR-6 (to be discussed after item 5.6, if TRANSSC decides to start a new revision cycle)</td>
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#### 5.2. DPP clearance

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<tr>
<td>2.</td>
<td><a href="#">DPP NST045</a> - Nuclear Security Rec. for Computer Security</td>
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<tr>
<td>Section</td>
<td>Description</td>
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</table>
| 5.3.    | Draft Safety Standards approval | 1. DS453 on Occupational Radiation Protection  
2. DS460 - Communication and Consultation with Interested Parties  
3. DS419 Radiation Protection and Safety in Well Logging  
4. DS420 Radiation Protection and Safety in Nucleonic Gauges  
5. DS458 Radiation Safety for Consumer Products  
6. |
| 5.4.    | Draft Security Recommendations clearance | 1. NST013 – for discussion only  
2. NST017 – for discussion only  
3. NST022 Protection and confidentiality of sensitive information in nuclear security |
| 5.5     | Overview of Recommended Changes to SSR-6 Resulting from Technical Meeting on Transport Environment | 1. Marie-Therese Lizot |
| 5.6.    | Review of proposed changes to SSR-6 | 1. TRANSSC review of proposed changes to SSR-6 and TRANSSC determines if a revision cycle should be initiated - George Sallit |
| 5.7.    | Transport Safety Standards status overview | 1. Overview of transport standards development – TSU |
| 5.9.    | Work with other Committees/CSS | 1. ToR for the next term SSCs – D. Delattre  
2. TRANSSC work with WASSC on extended storage followed by transport – Bernhard Droste |
5.10. Discussion IAEA documents

|  | Discussion of text for Civil Liability for Nuclear Damage Resolution - A. Gioia-N.Capadona |

5.11. Information from other UN/International bodies on their documents

<table>
<thead>
<tr>
<th></th>
<th>UNECE/SECTDG</th>
<th>ICAO</th>
<th>IMO</th>
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<tbody>
<tr>
<td></td>
<td>1. Decision on whether to start a new SSR-6 revision cycle</td>
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<td></td>
<td>2. Approval of draft DPPs and safety standards</td>
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<td>3. Clearance on draft security DPPs and on a draft security guides</td>
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<td>4. Approval of DS 461 TS-G-1.6 2012 Edition for submission to CSS</td>
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<td></td>
<td>5. Plan for TRANSSC consideration of Joint WASSC/TRANSSC recommendations on dual purpose casks</td>
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6.0 TRANSSC WORK NOW AND IN THE FUTURE

<table>
<thead>
<tr>
<th>Purpose</th>
<th>To provide feedback to TRANSSC Members</th>
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<tbody>
<tr>
<td>6.1. Technical Meeting on Transport Environment</td>
<td>Update on any remaining issues recommendations not addressed under 5. – Marie-Therese Lizot</td>
</tr>
<tr>
<td>6.2. Denials of shipment</td>
<td>Update – Steve Whittingham</td>
</tr>
<tr>
<td>6.3. Technical Cooperation Projects</td>
<td>Update – Nancy Capadona</td>
</tr>
<tr>
<td>6.4. Extra Budgetary funded projects</td>
<td>Update – Chris Bajwa</td>
</tr>
<tr>
<td>6.5. Technical Basis Document</td>
<td>Update – Chris Bajwa</td>
</tr>
<tr>
<td>6.6. Topical discussion</td>
<td>Radiation Protection Programmes - Friedrich Kirchnawy</td>
</tr>
</tbody>
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| Output Required |  |
7.0 REVIEW OF DRAFT MEETING REPORT

<table>
<thead>
<tr>
<th>Purpose</th>
<th>To approve the list of actions and decisions by TRANSSC</th>
</tr>
</thead>
</table>

7.1. Review of Actions in Meeting Report

| 1. | Report reading – All participants |
| 2. | Bill Brach |

Output Required

| • | Agreed list of actions and decisions |

8.0 AGENDA FOR NEXT TRANSSC

<table>
<thead>
<tr>
<th>Purpose</th>
<th>To identify items for the next TRANSSC meeting TRANSSC 28</th>
</tr>
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</table>

8.1. Items of interest for TRANSSC

| 1. | Issues for topical discussion – operational feedback |
| 2. | Recommended TRANSSC 28 agenda items - Bill Brach |

Output Required

| • | A list of items to be considered for the next TRANSSC agenda |

9.0 CLOSE OF MEETING (Goal to close by 12:00)

<table>
<thead>
<tr>
<th>Purpose</th>
<th>To summarise the meeting results</th>
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<tbody>
<tr>
<td></td>
<td>To thank participants for their work</td>
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</table>

9.1. Closing Remarks

| 1. | Bill Brach |
| 2. | Director NSRW |

Output Required

| • | None – For information only |

A. The dates of the meeting are 11 November 2013 – 15 November 2013

B. Plenary will convene in the IAEA C1 Room. A side room (A0531) is also available for a working group on Wednesday. The working times for the meeting will be:

- 10:00 to 17:00 on Monday,
- 09:00 to 17:30 on Tuesday to Thursday,
- 09:00 to 17:00 on Friday, aiming to complete by 12:00
C. Breaks will be taken mid-morning (around 10:30) and mid-afternoon (around 15:30) each day.

D. Lunch will be from 12:00 hours to 13:30 hours each day or at alternate times at the discretion of the Meeting Chair.

E. You are kindly requested to be at Checkpoint 1 of the Vienna International Centre (VIC) at least one hour before the meeting starts to allow adequate time for our Pass Office to issue your photo badge.

The Pass Office opens at 08:00.
ANNEX 4

ANNEX 5

ANNEX 6

ANNEX 7

TRANNSC 27
Working Group 2
A-0531
Wednesday, 13 November, 2013

Frank Nitsche  Co-Chairman
Nancy Capadona  Co-Chairman

Participants:

P. Hinrichsen  J. Cook
V. Ershov  A. Konnai
M. Richartz  J. Lopez Vietri
S. Hellsten  T. Nishi
H. Sannen  G. Sert
S. Ahn  A. Nada
S. Trivelloni  B. Decker
T. Cabianca  T. Dziubiak
A. Sahyun  S. Vogiatzi
R. Boyle

References:
Terms of Reference for Working Group 2 (Ref 1).
Thematic Safety Area 7 (TSA 7) - Transportation Safety (Ref 2).
TSA 7 Presentation (Ref 3).

Output: Draft TSA 7 Profile Template (Ref 4).

Mr. Nitsche reviewed the Terms of Reference (Ref 1) for Working Group 2. Ms. Capadona then provided an overview presentation on TSA 7 (Refs 2 and 3), including descriptions of its 12 Key Elements.

A proposed Draft TSA 7 Profile Template, which was prepared as a first draft in advance by Ms. Capadona and Mr. Nitsche, was reviewed and discussed by the Working Group. The Profile Template contains a series of questions and considerations to assist Member States in describing their status under each of TSA 7’s Key Elements. The questions and considerations for each Key Element were discussed in turn by the Working Group, with working group members providing suggested additions, changes, and other comments. These changes and comments were incorporated as agreed by the Working Group to produce the attached Draft TSA 7 Profile Template (Ref 4).

Due to lack of time a final review of this Draft TSA 7 Profile Template by all participants of the WG was not possible. It is therefore suggested, that such a final review should be done by the Secretariat.

The Working Group provided the draft TSA 7 Profile Template (Ref 4) to the Secretariat.
Report WG 3 DPC

Chair: B. Droste

Secretary: X. Van Mierloo

Participants:

S. Faille
C. Dejean
G. Lourtie
A. Pathko
S. Homkjol
Ershov
Buchelnikov
P. Malesys
I. Dayidson
F. Zamora
B.H. Lee
Y Tran Thien
D. Ito
H. Yagihashi
F. Koch
S. Faille
D. Lamarche
MA Charette
M Hishida
F Safav
M Milin
MT Lizot
S Mansion
M Sampson
P Girkens
F Spielhann

Conference room C01 on 11/13/2013

- Presentation of ToR by B. Droste
- Presentation of comments from Japan, Spain and Switzerland
- Proposition from Switzerland: New package type
- Spain: No specific new package type is needed.
- S. Wittingham:
  - Safety case in two parts: transport and storage
  - No new package type will be needed, modification of current regulations and DPCs will have to comply with them
- France: There already is some regulation with requires to look at ageing, monitoring ...
- Switzerland: Ageing requirements are necessary and need to be included in the regulations
- UK: Why not broaden the scope to all loaded packagings?
- Spain concurs to UKs proposal
- Spain: Should be added and explained in the regulations:
  - Periodical revision and renewal of certification
  - Transitional arrangements
• The WG decided to extend the scope to other type of packages with the same problem of transport after storage and decided on not to propose a new type of package but to look at SSR6 to include the DPC aspects

• 3 main problems were identified:
  o Consideration of ageing - Periodical inspections
  o Process of periodical revision and renewal of approval certificates
  o Transitional arrangements

• Presentation of B. Droste’s INF paper with propositions of paragraphs with potential for changes to SSR6

• Paragraph 106:
  o S. Wittingham: In-transit storage: Implies one continuous consignment and here this isn’t the case
  o US: Loading and preparation is a part of the transport
  o WNTI: Why not see the storage as a preparation of the transport?
  o Consensus that 106 needs to be considered later
  o Looked up definition of storage in SSG-15, short-term storage up to 50 years, long term up to 100 years

• S. Wittingham: Why not include the operational life of packages?
• B. Droste: The management of operational life of usual packages is already covered by existing regulations, we need to deal with the specific problem of shipment after storage

• Presentation of F. Nitsche Germany on the topic
  o 3 new aspects
    ▪ How to use the packaging?
    ▪ Ageing and material behavior
    ▪ Tests before shipment

• Spain: How to deal with renewal system?
  o Not yet in regulations
  o Gap analysis: change of regulations or state of package…
  o 10 year licence for storage: there is no criteria, there has to be a step in between so Germany took 10 years

• F. Nitsche: Renewal isn’t a problem, Germany and others already do this
• Droste: Guidance document is drafted and will be published for additional information

• Discussions on paragraph 106:
  o Lizot: storage is already included (in-transit storage)
  o Dejean: What is storage is not involved? Explain this in the advisory
  o Spain: “Storage until transport”, but this will entail that transport includes the storage
  o Sallit: SSR6 doesn’t need to regulate the storage
  o Zika: IAEA Glossary gives definition of transport and this is only movement of material so no storage
• Discussions on paragraph 306:
  o Sampson: Storage until transport, this includes SSG-15
  o Sallit: A reference to transport after storage should come into the regulations somewhere, this is not limited to ageing only
  o Koch: Include the ageing management program
  o France: Why limitate the proposal to transport after storage? Problem of old type B(U) packages still being used
  o Sallit: This goes outside of the scope of this assignment and this must be handled by the renewal of the approval certificate and not in the regulations
• Discussions on paragraph 503:
  o Which packages do we mean? All packages or only Type B or C?
  o Answer: all packages designed for transport after storage
  o Sallit: In practice we would test only a few packages
  o Spain: Advisory material needs to be added for paragraph 306
• Discussions on paragraph 614bis:
  o Lizot: (a), (b),... still apply
  o This requirement is applicable to all packages
  o WG3 is restricted to working on packages which are transported after storage
• Discussions on paragraph 809:
  o Spain: Gap analysis program instead of gap analysis to insure that analysis is done when each time changes occur
• WNTI: Future work is to add Transitional arrangements for the changes we are doing right now
A. Proposed changes to SSR6 and recommendations for TS-G-1.1

106. These Regulations apply to the transport of radioactive material by all modes on land, water, or in the air, including transport that is incidental to the use of the radioactive material. Transport comprises all operations and conditions associated with, and involved in, the movement of radioactive material; these include the design, manufacture, maintenance and repair of packaging, and the preparation, consigning, loading, shipment after storage, carriage including in-transit storage, unloading and receipt at the final destination of loads of radioactive material and packages.

In guidance: Explaining the concept of DPC

No change to 306 because it is already captured by the change in 106

In guidance for 306: Considerations of ageing in the design as well as in maintenance by an appropriate ageing management program

503. Before each shipment of any package, it shall be ensured that all the requirements specified in the relevant provisions of these Regulations and in the applicable certificates of approval have been fulfilled. The following requirements shall also be fulfilled, if applicable:
(a) It shall be ensured that lifting attachments that do not meet the requirements of para. 608 have been removed or otherwise rendered incapable of being used for lifting the package, in accordance with para. 609.
(b) Each Type B(U), Type B(M) and Type C package shall be held until equilibrium conditions have been approached closely enough to demonstrate compliance with the requirements for temperature and pressure, unless an exemption from these requirements has received unilateral approval.
(c) For each Type B(U), Type B(M) and Type C package, it shall be ensured by inspection and/or appropriate tests that all closures, valve and other openings of the containment system through which the radioactive contents might escape are properly closed and, where appropriate, sealed in the manner for which the demonstrations of compliance with the requirements of paras 659 and 671 were made.
(d) For packages containing fissile material, the measurement specified in para. 677(b) and the tests to demonstrate closure of each package as specified in para. 680 shall be performed.
(e): For packages provided for shipment after storage, it shall be ensured that all package components have been maintained during storage in a manner of which the demonstration of compliance with the regulations were made.

In guidance for 503 (e): Which regulations? Regulations stated in the current approval certificate.

“Advisory material for 503: Include ageing management program, inspection program preparation before shipment.”

“Clarification of the definition of storage is necessary in SSR6? Look at SSG-15 or glossary for definitions”

Proposal new 614bis:

614bis. The design of the package shall take into account ageing mechanisms that are likely to be encountered in storage operations before transportation.

More explanations on this in advisory material.

809. (f) bis

If the package is to be used for transport after storage, the applicant shall state and justify the consideration of ageing on the safety analysis and within the proposed operating and maintenance instructions.

809. (j) For packages which are also used for transport after storage, a gap analysis program shall be provided, considering changes of regulations, changes in knowledge and changes of the state of the package design, as appropriate. A gap analysis program is a program of systematic analysis of the package design, comparing it to the regulatory requirements, identifying differences, where necessary, proposing actions to deal with those differences.

More explanation on Gap analysis program: In advisory material

838. (r) ... “No modification would be necessary.”