11 April 2014

Commission on Safety Standards

Thirty-fourth Meeting

5-6 November 2013

IAEA Headquarters, Vienna

Report of the Meeting

Overview of main results of the meeting

A. The following draft Safety Standards were endorsed for publication:

- Safety Requirements on Decommissioning of Facilities (DS450)
- Safety Guide on Justification of Practices, including Non-Medical Human Imaging (DS401)
- Safety Guide on Protection of the Public against Exposure Indoors due to Radon and Other Natural Sources of Radiation (DS421)
- Safety Guide on Site Survey and Site Selection for Nuclear Installations (DS433)

B. The following DPPs were approved:

- DPP for a Safety Guide on Organization, Management and Staffing of a Regulatory Body (DS472)
- DPP for a Safety Guide on Regulatory Body Functions and Processes (DS473)
- DPP for a Safety Guide on Arrangements for the Termination of a Nuclear or Radiological Emergency (DS474)
- DPP for a Safety Guide on Arrangements for Public Communications in Preparedness and Response for a Nuclear or Radiological Emergency (DS475)
- DPP for a Safety Guide on The Management System for the Predisposal and Disposal of Radioactive Waste (DS477)

C. The Commission strongly encourages the further integration of nuclear safety and nuclear security and each member will strive to ensure that the representatives of their State speak with a common, national voice on the Nuclear Security Guidance Committee, the Safety Standards Committees and the Commission.

D. The Commission supports the development of the proposed IT platform for the feedback mechanism and for the preparation of electronic version of the safety standards.

1. Opening Session

1.1 Opening of the Meeting

Mr J. Lyons, Director of the Division of Nuclear Installation Safety and Acting Deputy Director General of the Department of Nuclear Safety and Security, welcomed the members of the Commission on Safety Standards. He summarized recent good progress with the implementation of the IAEA Action Plan on Nuclear Safety. The IAEA Fukushima Comprehensive Report is expected to be finalized in 2014 and prepared for publication and submission to the Board of Governors in 2015. Recently three reports on International Experts Meetings have been published, and are posted on the website of the IAEA Action Plan on Nuclear Safety. He recalled three important International Conferences that had taken place since the last CSS meeting in March: the International Conference on Effective Nuclear Regulatory Systems, hosted by the Government of Canada, in Ottawa, Canada, in April 2013; the International Conference on Nuclear Security: Enhancing Global Efforts that took place in Vienna in July 2013; and the International Topical Issues Conference on Defence in Depth that was held in Vienna in October 2013. In relation to the Senior Regulators' Meeting held during the 57th General Conference in September 2013, Mr Lyons recalled the Chairperson's reflections on IRRS missions: that 'IRRSs are not beauty contests', and that the efforts of both the host country and the review team are necessary for a successful mission. He also informed the CSS about recent and forthcoming IRRS missions and OSART missions. Mr Lyons also summarized the outcomes of the INSAG Forum 2013, where views had been provided on several current safety issues.

Mr Lyons emphasized the importance of several items on the agenda of this CSS meeting, in particular the endorsement of the Safety Requirements DS450 on Decommissioning of Facilities, the progress reports on DS462 and the revisions of NS-R-4 and NS-R-5, and the finalization of the mid-term report. Finally, he wished all participants a productive meeting and a pleasant stay in Vienna.

Mr A. Gonzalez took the opportunity to remind participants about the important outcomes of the International Conference on the Safety and Security of Radioactive Sources: Maintaining the Continuous Global Control of Sources throughout their Life Cycle, which had taken place the previous week in Abu Dhabi, UAE. He requested that the outcomes of this conference be circulated to the IAEA Board of Governors as an Infcirc document. He also considered that there was a difference between IRRS missions and OSART missions, IRRS being a review by 'peers', while he felt that OSART is a review by the Agency.

1.2 Introductions, Adoption of the Agenda, Approval of the 33rd CSS meeting report

Ms D. Drabova, Chair of the Commission, welcomed all participants, in particular the new members and observers of the Commission, namely Mr Patchett from the UK, Mr Shimomura from OECD NEA and Mr Kim from the Republic of Korea. However, she noted that several participants were absent, owing to the concurrent scheduling of several international and national meetings. A list of participants is provided in Annex I.

Mr Gonzalez requested that the Secretariat endeavor in future to avoid the clashing of meetings requiring the attendance of the same experts, such as this week meetings of the CSS and the meeting related to the CNS, which made it difficult for States with a relatively limited number of experts in the area of nuclear safety to participate fully and properly.

The provisional agenda was approved and is provided in Annex II.

Ms Drabova informed the Commission that the draft report of the 33rd CSS meeting had been made available. Comments had been received from Japan and these had been incorporated into the final draft, which had been posed on 7th August 2013.

The report of the 33rd CSS meeting was approved and would be uploaded to the CSS website [Annex III, Action 34.01].

Mr Gonzalez praised the high quality of the meeting report. Referring to his comments at the 33rd CSS meeting, he noted that the Agency can indeed produce high quality quantitative publications establishing standards for the protection of health, giving as an example the publications within the

Emergency Preparedness and Response Series and suggested that this type of publications could be a good example for all the safety standards. He questioned however why such publications are not part of the system of safety standards, as they also contribute to meeting the Agency's statutory function of establishing "standards of safety for protection of health and minimization of danger to life and property". Ms Drabova considered that such publications were not standards, but rather a tool. She considered that the question of whether such publications should indeed be standards required careful consideration.

More generally, she requested that the Secretariat reflect on the relationship between several IAEA publications, both from NS and from other Departments, and on the coordination processes for these publications [Annex III, Action 34.02].

1.3 Administrative arrangements for the meeting, status of the main topics for the 5th CSS term, status of endorsed standards, response to actions from the 33rd Meeting

Mr D. Delattre informed the Commission of administrative arrangements for the meeting. He noted that all material had been made available more than two months in advance of the meeting for effective review by the Commission.

Mr Delattre first presented the single file that provides links to the electronic versions of all published and established safety standards in all languages:

http://ns-files.iaea.org/files/iaea-safety-standards.doc

Mr Gonzalez praised this useful piece of work. He further requested the Secretariat to ensure that in future text in all fonts (in particular, the fonts used in the Arabic translations of safety standards) can be properly copied and pasted. He also praised the presence on the CSS web site of all old safety standards in pdf form.[1] He noted that many issues were dealt with in more detail in older publications than in the more recent standards, and emphasized the importance of retaining such knowledge.

Mr Delattre presented the status of the main topics for the 4th CSS term and for the 5th CSS term (see Annexes IV and V) and the status of the roadmap for the long term structure of the General Safety Requirements and the Specific Safety Requirements.

Mr Delattre also presented the status of the endorsed safety standards. He informed the Commission that three safety standards had been published so far in 2013 and provided details on nine further safety standards, endorsed by the Commission, that were being published. Lists of currently valid, published standards, draft standards under preparation/revision and drafts of the Nuclear Security Series that are interface documents are included as Annexes VI, VII and VIII respectively'.[2]

Mr Gonzalez considered that the standards that should be finalized most urgently are DS458 (Safety Guide on Radiation Safety and Regulatory Control for Consumer Products), DS453 (Safety Guide on Occupational Radiation Protection [in particular because of the need of clear requirements for rescuers and volunteers]) and DS399 (Safety Guide on Radiation Safety in Medical Uses of Ionizing Radiation). Mr Delattre noted that DS458 was expected to be submitted to the next CSS meeting for endorsement, while DS399 would be sent to the Safety Standards Committees (SSCs) at their next meetings. DS453 was expected to be available for Member State comment at the time of the forthcoming International Conference on Occupational Radiation Protection (to be held in December 2014), and so the outcomes from that conference could inform the development of the standard. Mr. González welcomed this idea and suggested that a special session of that Conference be dedicated to the discussion of the DS453 draft.

Mr P. Webster questioned whether the Secretariat's resources were adequate to cope with the number of standards currently in the process (around 40). Mr Delattre noted that this number is consistent with

---

[1] Available at http://www-ns.iaea.org/downloads/standards/superseded-safety-standards.pdf

[2] Comprehensive, up-to-date information on the status of all standards, published and in draft, as well as on the status of all drafts of the Nuclear Security Series that are interface documents, is available at http://www-ns.iaea.org/committees/files/CSS/205/status.pdf

the number of standards issued every year (typically 10) and the fact that standards take around 3 to 4 years to be developed. Prioritizing of resources might be necessary if further revisions of a significant number of Safety Guides were to be carried out in the light of lessons learned from the Fukushima Daiichi accident.

Mr Delattre also provided information on the response to the remaining actions from the 32nd CSS meeting and the actions from the 33rd CSS meeting (see Annex IX).

Mr Delattre's presentation is available on the CSS web site.

2. Reports of the Safety Standards Committees meetings and information on the third and fourth meetings of the Nuclear Security Guidance Committee

2.1 Nuclear Safety Standards Committee (NUSSC)

Mr F. Feron, NUSSC Chair, reported on the 35th and 36th NUSSC meetings. At those two meetings, NUSSC had approved eleven DPPs (DS472, DS473, DS474, DS475, DS476, DS477, DS478, DS479, DS481, DS482 and DS483), eight draft standards for submission to Member States for comment (DS431, DS447, DS448, DS453, DS456, DS457, DS460 and DS462) and five draft standards for submission to the CSS (DS430, DS433, DS436, DS441 and DS450). DS427 (draft Safety Guide on Radiological Impact Assessment for Facilities and Activities) had also been presented to NUSSC but the Secretariat did not submit it for approval. NUSSC had also cleared five DPPs for Implementing Guides in the Nuclear Security Series (NST020, NST041, NST045, NST046 and NST048) as well as one draft Implementing Guide (NST022).

The 35th and 36th NUSSC meetings had also focused heavily on the review and revision of Safety Guides to take into account the lessons from the Fukushima Daiichi accident. Mr Feron indicated that NUSSC had realized, based on the pilot review and revision of a few Guides, that although a Guide-by-Guide approach to revision would be feasible, it could take many years to complete, given current resources. NUSSC had therefore noted the Secretariat's proposal for a more efficient 'topical' approach, by which several Guides could be revised in parallel. As yet it was unclear exactly how such an approach would work, but more detail was expected at the next NUSSC meeting.

In relation to the review and revision of Safety Guides, Mr Gonzalez emphasized that the guidance developed must clearly indicate the unacceptability of reactors without a containment, and that in addition the Glossary definitions of 'containment' and 'containment system' must make clear that the word containment is used as a noun describing a concrete building, specifically dedicated to the purpose of containing radioactive substances, and not as a qualifier of an undefined system.

Mr M. Weber considered that DS431 (draft Safety Guide on Digital I&C Systems) could be a good candidate for development of integrated nuclear security and nuclear safety guidance, and Mr Emi Reynolds confirmed that NSGC had also been tasked with the review of this text.

2.2 Waste Safety Standards Committee (WASSC)

Mr G. Williams, WASSC Chair, provided a presentation on the 35th WASSC meeting. WASSC had approved one DPP (DS477), two draft standards for submission to Member States for comment (DS447 and DS448) and one draft standard for submission to the CSS (DS450). Together with RASSC, WASSC had held a general session on the Fukushima Daiichi accident, including a presentation on issues relating of radioactive waste management at Fukushima. WASSC had also begun to consider whether current Safety Guides should be revised and updated in accordance with lessons learned from the Fukushima Daiichi accident.

Mr D. Senior queried why the two draft Safety Guides DS447 and DS448 provide guidance on the predisposal management of waste for different types of facility, rather than for different types of waste. Mr Delattre agreed that it would have been possible to structure the guidance according to waste type (in fact, the current guidance provided in WS-G-2.5 and WS-G-2.6 does just that), but the feedback from the users recommended to produce facility specific guidance considering that this type of documents were more useful [Ref. Feedback Report for DS447 and DS448].

Mr Gonzalez reported on some outcomes of the Abu Dhabi conference in relation to waste. He requested that the outcomes of the conference been taken into account by WASSC. Mr Williams indicated that WASSC would indeed consider all developments in international best practice, from the Abu Dhabi conference and elsewhere, and take them into account in the development of its waste safety standards.

2.3 Radiation Safety Standards Committee (RASSC)

Mr G. Massera, RASSC Chair, provided a presentation on the 34th RASSC meeting. RASSC had approved two DPPs (DS474 and DS475), one draft Safety Requirements for submission to Member States for comment (DS457) and two draft Safety Guides for submission to CSS (DS401 and DS421). RASSC had also cleared two draft Implementing Guides of the Nuclear Security Series (NST020 and NST041). Among other issues, RASSC considered the outcomes of the IACRS Task Group on the implementation of the Basic Safety Standards, issues relating to the control of medical exposure - which RASSC is treating as a priority area - and the work of a RASSC Working Group on criteria for the control of food and drinking water contaminated as a result of a nuclear or radiological emergency, including the development of a TECDOC to clarify steps that need to be taken by international organizations and Member States to facilitate the recognition, understanding and implementation of the existing international standards.

2.4 Transport Safety Standards Committee (TRANSSC)

Mr E.W. Brach, TRANSSC Chair, provided an overview of the 26th TRANSSC meeting and set out plans for the 27th TRANSSC meeting, which would take place the following week. He also summarized the recommendations of the recent review by the Agency's Office of Internal Oversight Services (OIOS), which, among other things, had led to a restructuring of each TRANSSC meeting into two distinct segments: one segment to review standards and conduct other TRANSSC business, and a second segment to address specific technical transport issues. A key element of the forthcoming TRANSSC meeting was a decision on whether to initiate a new revision cycle for the Transport Regulations (SSR-6). This would necessitate a revision in parallel of the Advisory Material (TS-G-1.1/SSG-24), and a revision shortly afterwards of the Schedules (TS-G-1.6). TRANSSC also planned to continue working on the revision of TS-G-1.2 on transport emergency preparedness to reflect lessons learned from the Fukushima Daiichi accident, and expected to complete the Technical Basis Document for the Transport Regulations.

Mr Brach discussed the merits of application of the OIOS recommendations to the other SSCs. He noted that TRANSSC had a relatively narrow technical area of focus compared to the other Committees, and so a separation of each meeting into two parts might be less useful in those cases. As there are relatively fewer Technical Officers that need to attend each TRANSSC meeting, it would be more feasible to conduct regional meetings for TRANSSC than for the other Committees. Other recommendations of OIOS are set out anyway in Strategies and Processes for the Establishment of Safety Standards (SPESS).

Mr Brach also noted that work was underway to introduce security recommendations into the UN Orange Book of transport regulations for all classes of dangerous goods.

Several members of the CSS thanked Mr Brach for his excellent leadership of TRANSSC for the last six years and congratulated him on his forthcoming retirement.

2.5 Information on the third and fourth meetings of the Nuclear Security Guidance Committee (NSGC)

Mr G. Emi Reynolds, NSGC Chair, provided information on the 3rd and 4th NSGC meetings. A large part of each meeting had been devoted to development and enhancement of the 'roadmap' for the Nuclear Security Series. In addition to the DPPs and drafts of Nuclear Security Series publications approved, NSGC had also addressed several interface documents among the safety standards. DS419 (Safety Guide on Radiation Safety in Well Logging) had been discussed at both meetings, and NSGC recommended that the current text on security be collected into a single chapter on interfaces, with

some modifications. The draft Safety Guides DS430, DS433 and DS441 had been cleared for submission to the CSS, while some modifications had been requested for DS436 and it was hoped that this could be cleared by the tacit approval process. DS460 had been cleared for submission to Member States for comment, and in addition seven DPPs for safety standards had been cleared. NSGC had noted that an internal group in the Secretariat is currently developing guidance for Technical Officers on managing the safety and security interface in drafts, and proposed the establishment of an adhoc working group, with equal representation from NSGC and the SSCs, to review the output of this group. For the future, Mr Emi Reynolds reported that it was planned to have a joint session of NSGC with RASSC during either its 5th or 6th meeting.

Mr Gonzalez welcomed Mr Emi Reynolds' report. He noted that the same regulatory body holds responsibilities for nuclear safety and nuclear security in most Member States, and was concerned that these regulatory bodies might be confused by the current approach. He considered that it was timely to begin development of an integrated 'safety and security fundamentals'. Ms Drabova noted that indeed nuclear safety and nuclear security have the same overriding priority, but use different tools, and she recognized that there are historical reasons behind the current situation. Mr Emi Reynolds indicated that he shared the same concerns, but considered that time would be needed to address them (there was further discussion on this topic under agenda item 5.1).

2.6 Summary of the Meeting of the Chairs held on 4 November before the CSS meeting

Mr Delattre provided a summary of the meeting of the five Chairs of the SSCs and NSGC, and presented an overview of the various conclusions reached:

1. DS460 (draft Safety Guide on the topic of communication and consultation) would not immediately be incorporated into DS473 (draft Safety Guide covering all functions of the regulatory body), but instead would initially be developed and possibly issued as a stand-alone Safety Guide, with the possibility still remaining open of later incorporation of the guidance in DS473. DS460 should maintain its scope as covering communication by the regulatory body, but the part on requirements imposed by the regulatory body on the operator should be strengthened. It would not cover other communication by the operator, nor would it cover communication in emergency situations.

2. All SSCs are satisfied with the proposed revisions to their Terms of Reference (see also agenda item 6.1). NGSG would wait until the end of its first term (end of 2014) and would then consider a possible revision of its Terms of Reference. The Secretariat proposed, and there was general agreement among the five Chairs, that the next term of the SSCs could be a four year term, so as to synchronize the terms of the SSCs and NSGC.

3. DS462, DS456 and DS457 are currently at the stage of soliciting Member State comments. A working group of NUSSC would be convened in February 2014 to resolve the comments on DS462, particularly for SSR-2/1 and SSR-2/2. It was also suggested that a few RASSC and WASSC representatives might join the NUSSC working group.

4. The end of term reports of the four SSCs would be cross-checked to ensure consistency among their recommendations, and each report would contain a common annex on the status of standards at the end of the three-year term.

5. Regarding the future work programme on the review/revision of Safety Guides, NUSSC had reviewed the pilot project and had started to discuss the Secretariat's proposal to develop a topical approach to revision, which could be more efficient (see also agenda item 2.3).

6. For DS419 and DS420, NSGC has recommended that all guidance relating to safety-security interfaces into a single chapter (see also agenda item 2.5).

7. Concerning the future IT-supported feedback, review, revision and publication system, the five Chairs had received and made some comments on the same presentation as provided under agenda item 6.2.

8. An independent review (by OIOS) of the intermediate committee structure (NSGC, SSCs and the Interface Group) would take place in 2014.

3. Review/revision of IAEA Safety Standards in light of the TEPCO's Fukushima Daiichi NPPs accident

3.1 Progress report on DS462 and on the concomitant revision of GS-R-2 on Emergency Preparedness and Response (DS457) and of GS-R-3 on Leadership and Management System for Safety (DS456)

Mr Delattre and Ms E. Buglova provided a joint progress report on DS456, DS457 and DS462. All three of these were currently at the stage of soliciting Member State comments, and it was expected that they would be submitted to the Committees for final approval at their meetings in the second quarter of 2014, and then to the CSS for its endorsement in November 2014.

Mr Gonzalez reiterated his comments from the 33rd CSS meeting (see section 3.4 of that meeting report) in praise of the process used to revise GS-R-2: issues had first been identified, experts consulted and other international organizations actively involved, in accordance with the Agency's statute. He considered that cosponsorship of the safety standards by other international organizations should be widely sought, and suggested, for example, that the World Meteorological Organization be requested to contribute and cosponsor DS433 (draft Safety Guide on Site Survey and Site Selection for Nuclear Installations, see agenda item 4.4).

3.2 Progress report on subsequent revision of the other Specific Safety Requirements (NS-R-4 and NS-R-5)

Mr A. Shokr provided a progress report on the revision of these two Specific Safety Requirements, on Safety of Research Reactors (which would be published as SSR-3) and on Safety of Nuclear Fuel Cycle Facilities (which would be published as SSR-4). The revisions would incorporate relevant feedback from the Fukushima Daiichi accident and would result in Safety Requirements publications in line with the long term structure of safety standards (i.e. overarching requirements and associated requirements). The DPPs for these had been approved by NUSSC and NSGC and it was expected that they would be submitted to CSS for approval in 2014.

Mr Delattre also noted that the DPP for the revision of NS-R-3 (which would be published as SSR-1) had recently been approved by the internal Coordination Committee, and that with this the full set of Specific Safety Requirements would be complete.

Mr Feron reported that NUSSC had requested that there be strong consistency between these draft Specific Safety Requirements and the Specific Safety Requirements for nuclear power plants. NUSSC considered that many of the requirements, particularly the overarching requirements, would be directly applicable for research reactors and fuel cycle facilities, with only minor changes.

3.3 Progress report on the pilot review of Safety Guides

Mr Delattre provided a progress report on the pilot review of Safety Guides in the light of lessons learned from the Fukushima Daiichi accident (see also agenda item 2.1 for further discussion on this matter). The first priority was to review Safety Guides applicable for nuclear power plants and spent fuel storage, with focus on the measures for prevention of severe accidents due to external hazards and for mitigation of the consequences of such accidents. The second priority was to expand this to other facilities and activities. A need for additional guidance had been identified for the topics of design extension conditions (for example, in system specific guides), independence of safety systems, provision of alternative sources for power, compressed air and cooling, and measures relating to mitigation of health hazards.

3.4 Summary for the mid-term report

Mr Delattre provided an overview of the section of the draft mid-term report on the review of the safety standards in light of lessons learned from the Fukushima Daiichi accident, which had been uploaded to the CSS web site in advance of the meeting. He indicated that the mid-term report would be updated to take into account the results of the 36th NUSSC meeting. (A summary of the discussions on the full mid-term report is presented under agenda item 7).

4. Approval of draft publications and DPPs

4.1 Draft Safety Requirements on Decommissioning of Facilities (DS450)

No comments had been made on this draft in advance of the meeting, and so no presentation was made. However, a presentation on DS450 prepared by Mr J. Rowat is available on the CSS website.

Mr Williams summarized the main differences from the current version of this Safety Requirements (WS-R-5), namely the removal of any suggestion that entombment is a decommissioning strategy, and inclusion of the point that proper allowance needs to be made for flexibility in time frames.

Mr Gonzalez requested to consider including a reference to the International Conference on Safe Decommissioning for Nuclear Activities: Assuring the Safe Termination of Practices involving Radioactive Materials, Berlin, Germany, in October, 2002 and to the International Conference on Lessons Learned from the Decommissioning of Nuclear Facilities and the Safe Termination of Nuclear Activities, held in Athens, Greece, in December 2006.

With these comments, the Commission endorsed the draft for submission to the Board of Governors for approval [Annex III, Action 34.03].

4.2 Draft Safety Guide DS401: Justification of Practices, including Non-Medical Human Imaging

No comments had been made on this draft in advance of the meeting, and so no presentation was made. However, a presentation on DS401 prepared by Mr T. Boal is available on the CSS website.

Mr Gonzalez requested that it be clarified early in the draft that it is not the justification of a practice what it is required, but rather the justification of the *introduction* of a practice. He also requested that the title be reconsidered, to clarify that medical exposure is excluded from the scope of the Safety Guide, and that consideration be given to add a reference to a forthcoming ICRP report on radiological protection in security screening.

With these comments, the Commission endorsed the draft for publication [Annex III, Action 34.04]

4.3 Draft Safety Guide on Protection of the Public against Exposure Indoors due to Radon and Other Natural Sources of Radiation (DS421)

No comments had been made on this draft in advance of the meeting, and so no presentation was made. However, a presentation on DS421 prepared by Mr Boal is available on the CSS website.

Mr Gonzalez noted that there were two very different groups affected by exposure due to radon, namely smokers and non-smokers, and considered that current requirements and recommendations establish a system of over-protection of non-smokers and under-protection of smokers. He would have preferred a Safety Guide targeted specifically at non-smokers, containing an indication to smokers that they are at greater risk.

The Commission endorsed the draft for publication.

4.4 Draft Safety Guide on Site Survey and Site Selection for Nuclear Installations (DS433)

Mr O. Coman presented the draft Safety Guide DS433 for endorsement for publication. Comments on the draft had been received from Japan and Germany, and these had been addressed.

Mr K. Kamitani explained that he agreed with the change in title, but that his comment had been on the process of revision of titles, which, he considered, had been done in the course of technical editorial review and without consultation of the Committees. Mr Coman explained that this was not a new title, but was in fact the title that had been approved on the original DPP for DS433.

Mr Coman also highlighted the revised text on safety and security interfaces, which would now be limited to a single paragraph, raising awareness of nuclear security issues and making reference to some relevant publications in the Nuclear Security Series. This new text had been prepared only the previous week, in the course of the NSGC meeting, and for that reason had not been part of the draft Safety Guide uploaded to the CSS web site two months in advance of this meeting. Mr Delattre explained that this very recent change was being presented to the Commission only in order to avoid a six month delay in the process, and Mr Feron assured the Commission that he was satisfied with the draft as it stood, and that NSGC had made changes to text covering their area of competence, namely nuclear security, rather than to text on safety and security interfaces.

The members of the Commission indicted strongly and unanimously that this procedure of presenting a draft significantly different from that uploaded in advance of the meeting was unacceptable and must not be permitted to happen again. Furthermore, several members of the Commission indicated that they objected to this 'minimization' of guidance on security, which was not in line with clear pronouncements from the IAEA's Policy Making Organs that safety and security were to be dealt with in an integrated manner. Nevertheless, they would not halt further progress of this draft Safety Guide.

The Commission endorsed the draft for publication.

4.5 Draft DPP for a Safety Guide on Organization, Management and Staffing of a Regulatory Body (DS472)
4.6 Draft DPP for a Safety Guide on Regulatory Body Functions and Processes (DS473)

Ms A. Nicic and Mr H. Suman provided presentations on DS472 and DS473 respectively, which together would provide recommendations on all the requirements established in GSR Part 1. They indicated that both Guides were being developed in parallel, and that consistency would be ensured, as well as minimization of overlaps.

Only one comment had been received on these DPPs, from Australia. This had concerned the merging of the recommendations being developed under DS460, on communication and consultation, in support of Requirement 36 of GSR Part 1. Mr Delattre summarized the outcome of the Chairs meeting (see agenda item 2.6) and added that here was no need to finalize the decision on DS460 at this time. The Commission agreed that for the time being DS460 would be developed as a standalone Safety Guide, but the option would be maintained of integrating it later into DS472 and DS473. DS460 would also be expanded to better address regulatory requirements on communication and consultation in order to implement other requirements than Requirement 36 of GSR Part 1. The Commission also requested the Secretariat to consider later merging the two draft Safety Guides [Annex III, Action 34.05].

Mr Gonzalez also pointed out that in most Member States the same regulatory body deals with both safety and security, and so consideration should be given to inclusion of recommendation on security in these two Safety Guides.

With these comments, the Commission approved the two DPPs.

4.7 Draft DPP for a Safety Guide on Arrangements for the Termination of a Nuclear or Radiological Emergency (DS474)

Ms Nestoroska Madjunarova presented the draft DPP for approval. Comments had been received from Israel concerning the need for a separate Safety Guide on the topic. Ms Nestoroska Madjunarova provided justification on the need for a new Safety Guide which was accepted by Israel.

In response to questions from Mr I. Lund and Mr Gonzalez, Ms Nestoroska Madjunarova explained that the intention was not to introduce any notion of a 'transition situation" as an additional exposure situation' but rather that the transition phase referred to was part of the emergency exposure situation and was a period in which decisions are taken to move to an existing exposure situation or, as the case may be, to a planned exposure situation.

Mr Gonzalez requested the Secretariat to reconsider the title of the draft Safety Guide to explicitly refer to the transition from the emergency exposure situation to an extant exposure situation. He also requested the Secretariat to consider referring the report written by members of Task Group 84 of the ICRP, on radiological protection issues arising during and after the Fukushima nuclear reactor accident (published as a memorandum in the Journal of Radiological Protection (vol. 33 dated 2013, pages 497-571)), in addition to ICRP Publication 103 while considering removal of the reference to ICRP Publication 109 [Annex III, Action 34.06].

Ms Nestoroska Madjunarova also explained that, in accordance with the existing process, it could be expected that the draft would be published in 2017. Several members of the Commission considered that there was a need for guidance on this subject sooner than this, and requested the Secretariat to consider possible options for a faster process for urgent documents [Annex III, Action 34.07].

With these comments, the Commission approved the DPP.

4.8 Draft DPP for a Safety Guide on Arrangements for Public Communications in Preparedness and Response for a Nuclear or Radiological Emergency (DS475)

Ms L. Berthelot presented the draft DPP for approval. Comments had been received from Israel, including a request that social science experts be engaged for the development the draft, and these comments had been accepted.

Ms Berthelot explained that this Safety Guide had a scope distinct from that of DS460: DS460 is addressed to the regulatory body and does not cover communication in an emergency; in contrast DS475 is addressed at individuals and organizations with responsibilities at all levels and will provide guidance on the translation of technical information into information for the public. Nevertheless, consistency between the two Safety Guides would be ensured by means of close cooperation.

Mr Gonzalez requested that the scope of the Safety Guide be broadened to include communication in the transition phase from an emergency exposure situation to an extant exposure situation, and that this be reflected in an expanded title. He also requested to consider the addition of references to the ICRP report on lessons learned from the Fukushima Daiichi accident and to a paper delivered by the IAEA Secretariat at the International Conference in Abu Dhabi on the use of social media, which is particularly intensely used after the initial, early phase of an emergency. Mr Massera urged caution in direct transfer of what had happened after the Fukushima Daiichi accident to what might occur in an emergency in other Member States or other societies.

Mr Feron noted a comment by NUSSC, namely that training beyond training of spokespersons be covered in the guidance, and Mr Lund requested that consideration be given in the Safety Guide to reinforcing the concept that communication involves listening to the public, as well as providing information to the public. Finally, Mr Gonzalez requested that the use of the term 'security event' be scrutinized, to verify that it is not used as a synonym for 'malicious event'. [Annex III, Action 34.08].

With these comments, the Commission approved the DPP.

4.9 Draft DPP for a Safety Guide on The Management System for the Predisposal and Disposal of Radioactive Waste (DS477)

Ms Y. Kumano presented the draft DPP for approval. This proposed draft Safety Guide presented a merging of two current Safety Guides (GS-G-3.3 and GS-G-3.4), and the objective of the merging was to ensure the coverage of the interdependencies between predisposal management and disposal of radioactive waste, as stated in Requirement 6 of GSR Part 5.

Mr Williams indicated that WASSC strongly supported development of this combined draft. Mr I. Salati de Almeida indicated that leadership was most important at the time of establishment of safety systems, but that it should not be emphasized after the systems are functioning. In response to Mr Weber's question on the relation between this Safety Guide and DS447 and DS448 (draft Safety Guides on the predisposal management of waste from reactors and from fuel cycles facilities), Ms Kumano indicated that comments received on any of the three drafts would be taken into account in the development of all of them, to ensure consistency among them.

With these comments, the Commission approved the DPP.

5. DPPs for draft Nuclear Security Series publications for information

5.1 Draft DPP for an Implementing Guide on Sustaining a Nuclear Security Regime (NST020)

Mr I. Barraclough presented the draft DPP for information. One of the elements of the Nuclear Security Fundamentals relates to the sustaining of a national nuclear security regime, as expressed in the other eleven elements set out in the Nuclear Security Fundamentals. The concept of sustaining nuclear security is also set out in all three Recommendations publications in the Nuclear Security Series. This Implementing Guide would be a cross-cutting guide, covering all areas of nuclear security, including both regulated facilities and activities and material out of regulatory control. It was expected to send a draft to the Committees next June and then to send the draft to Member States for comment.

Mr Barraclough indicated that there are likely to be similarities between the concept of sustainability and concepts such as the management system used in the safety standards, and that in the future it might be possible to address these similarities, and harmonize some of the terminology. However, for the time being this was not anticipated.

Mr Gonzalez indicated that he objects completely to the development of this guide as it is proposed, as its development will contribute to a divergence of safety and security rather than to greater integration. He urged the Agency not to develop guidance on a system of separate responsibilities for safety and security, which as he indicated before is the case in only a small number of Member States. Overall, apart from some very specific issues, the aim should be to develop integrated guidance.

Mr Feron noted that NUSSC had emphasized the importance of the interface with DS456 (draft Safety Requirements on Leadership and Management for Safety), which establishes requirements for an integrated management system, covering, among other things, both safety and security. NUSSC felt that the Agency needed to present a consistent message to Member States on this topic. He was concerned that DS456 was not listed among the references in the DPP.

Mr Williams noted that, in many Member States, the regulatory body has responsibilities for both safety and security, and at that level there must be harmonization, as it would not be possible to sustain a safety regime without sustaining a security regime under the same administrative organization and with the same organizational culture. For that reason, Mr Williams considered that such a guide would not be useful for Australia. Furthermore, he considered that, on topics where it would be useful, safety standards should provide more information and guidance of substance on nuclear security, which should not be limited to just references to other publications.

Mr Salati de Almeida, Mr Lund and Mr Reiman also indicated their support for the comments made.

Mr Weber considered that there were some benefits in development of a draft such as NST020, but felt that a roadmap should be developed setting out the steps towards integration of safety and security, in accordance with the directives of the Agency's Policy Making Organs. The development of 'parallel' texts, such as NST020 and DS456, might then be a necessary step along this path.

Mr Emi Reynolds noted that the safety standards have been in existence for more than 50 years, while NSGC has existed for only two years, and so, necessarily, the approach for development of nuclear security drafts is different from that of safety standards. Nevertheless, he was convinced that, with time, such issues could be addressed and difficulties could be overcome. He also noted that, although in most Member States the regulatory body has responsibilities for both safety and security, the regulatory body still needs the support of other competent authorities to manage nuclear security, and those other competent authorities also need to be able to use the guidance, to ensure its proper implementation. He also requested that the Member States that had spoken at this CSS meeting express these national views too through their representatives on NSGC.

Mr P. Woodhouse recalled the new processes, such as the work of the Interface Group and the fast-track process for some drafts in the nuclear security series, that have been put in place in recent years and which will eventually lead to greater harmonization and integration.

Several members of the Commission thanked Mr Emi Reynolds for his statement and said that they would strive to speak with a consistent national voice at NSGC and at the SSCs.

Ms Drabova considered that a root cause of the issue was the fact that there was not a single 'safety and security fundamentals' containing common principles on which other requirements and guidance would be based. Nevertheless, she hoped that this discussion would be a step on the path to further integration of safety and security.

5.2 Draft DPP for an Implementing Guide on Prevention and Protective Measures against Insider Threats (NST024)

Mr N. Pope presented the draft DPP for information, which was planned as a revision of Nuclear Security Series No. 8 to take into account recent developments in understanding of the area of insider threats. In accordance with comments provided by the SSCs, the guidance provided in DS367, DS431 and DS436 would be taken into account in drafting. A comment had also been provided by India, requested inclusion of the concept of the graded approach, and this had been accepted. The first review of the draft by NSGC was expected in November 2014.

Mr Williams requested that the safety implications of security actions be fully covered in this draft, as it was not intended, for the time being, to develop any safety standard on this or similar topics.

6. Policy discussion

6.1 Harmonization of the Terms of Reference of the five Review Committees

Mr Delattre provided a short presentation on the plan to harmonize the Terms of Reference for the SSCs and NSGC. An exercise had been conducted to compare the various Terms of Reference, which had led to some proposed changes, mainly to bring wording into line when it was clear that the same function was implied. NSGC would wait until the end of its first term (end of 2014) to consider the issue of revising its Terms of Reference. Furthermore, the Secretariat proposed extending the next term of the SSCs to four years, to enable the terms of the SSCs and NSGC to be synchronized.

6.2 Progress report on the development of an IT platform for the feedback mechanism ad the preparation of electronic versions of the safety standards

Mr Delattre provided a detailed presentation on the IT platform for the future feedback, review, revision and publication process for the safety standards. The presentation is available on the CSS web site and it sets out the objectives, background and main features of the project, as well as conceptual details and several examples of output and use of the system. So far, a standard has been identified for structure documentation, and the next step involves production of 'project initiation documentation', including determining the schedule and allocating resources.

Many members of the Commission expressed their full support for this project. Mr Gonzalez urged the Secretariat also to look to the past, and not to lose sight of formal issues relating to the establishment of the Commission and the SSCs. He also requested, as part of the work relating to 'semantic coherence', that the issue of translatability be addressed, and he drew attention to the use in English of nouns as adjectives. Mr Lund noted that parallel efforts might need to be made to assure users of the standards that, by adopting a topical revision approach, there would be no negative impact on their credibility and status. He urged the Secretariat to proceed with the project in a step-by-step manner, and to demonstrate its positive impact at each stage. Other members of the Commission drew attention to sometimes different wording in standards covering similar topics, and hoped that the new system would help to prevent this in the future [Annex III, Action 34.09].

7 Review and finalization of the draft CSS mid-term report

Mr Delattre presented the entire draft mid-term report.

Mr Lund suggested that additional information should be included on the long-term structure of the safety standards and on the reference list of Safety Guides. He further requested that it be emphasized that the merits of the safety standards lie not in the process that is used to develop them, but in their content and in how they are used.

Mr Gonzalez suggested some reordering of the text, to make it clear that first a review of the standards had been conducted in the light of lessons learned from the Fukushima Daiichi accident. Then, on the basis of that review, a decision had been taken to revise standards.

Mr Gonzalez and Mr Weber suggested that the term 'integration' rather than 'interface' be used in describing the interactions between nuclear safety and nuclear security. In general, this section should be more optimistic, and these themes should be reflected in the recommendations for the second half of the fifth term, for which the Commission encourages further progress in the integration of nuclear safety and nuclear security.

Ms Drabova requested the Secretariat to update the mid-term report with these suggestions. She further requested the members of the Commission to submit any further comments to the Secretariat by 20 November 2013, with a view to finalizing the mid-term report by 20 December 2013 [Annex III, Action 34.10].

8. Use of IAEA Safety Standards in Member States

Mr M. Markovits provided a presentation on the use of the IAEA safety standards in Israel. He described the functions and organization of the Israel Atomic Energy Commission (IAEC) and the IAEC's Nuclear Licensing and Safety Office (NLSO) and he highlighted recent developments and activities. Mr Markovits's presentation is available on the CSS website.

In the discussion that followed, Mr Markovits clarified that Israel sees the benefit in use of the IAEA safety standards, particularly where national standards would otherwise need to be developed from scratch. He also clarified that, although the NLSO has no responsibilities in the area of nuclear security, it is part of a working group that assesses how security arrangements might impact safety.

He also reported that arrangements are in place with the ministries for health, transport and labour to provide professional advice on radiation protection matters.

Mr A. Vorwerk provided a presentation on the use of the IAEA safety standards in Germany. He described the German federal and state (Länder) regulatory system and indicated the association between the IAEA safety standards and German safety requirements and interpretation documents, and actions that have been taken in relation to regulations since the Fukushima Daiichi accident. Mr Vorwerk's presentation is available on the CSS web site.

In the discussion that followed, Mr Vorwerk indicated that the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) is also responsible for nuclear security. He also clarified the roles of TüV and the Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) as technical support organizations on which BMU and the regulatory bodies at Länder level rely for technical input, but from which the decision making of the regulatory bodies is completely independent.

The members of the Commission from the Russian Federation, the United Kingdom, Canada and Spain volunteered to provide presentations at the 35th CSS meeting.

9. Miscellaneous. Report of the meeting, Dates of the next meetings

Mr K. Shimomura presented a short paper highlighting the activities of the OECD Nuclear Energy Agency in the area of safety and regulation, which is available on the CSS website.

Mr V. Holubetz provided some updates on the use of the IAEA safety standards among member States of the European Union. In particular he referred to a Memorandum of Understanding on nuclear safety cooperation between the IAEA and the EU signed in September 2013, which foresees peer reviews, covers emergency preparedness and response and aims to avoid duplication of work.

Mr Weber had distributed copies of the US Nuclear Regulatory Commission (NRC) 2013-2014 Information Digest[3] to all members of the CSS.

Mr Delattre informed the Commission of the dates proposed for holding the next two meetings, namely in the week from 7 to 11 April 2014, and in the week from 3 to 7 November 2014. In verifying the November 2014 date, he would endeavor to ensure that conflicts with other important meetings were avoided. Ms Drabova also indicated that every effort would be made in the future to inform participants in advance about the estimated duration of the meetings, noting that this could not be assured fully, as it would naturally depend on the extent of discussions.

Mr Delattre also indicated that a draft list of actions resulting from the 34th CSS meeting would be provided for comment to the CSS members [Annex III, Action 34.11] and that the draft report of the 34th CSS meeting would be posted for comment to the CSS web site [Annex III, Action 34.12].

Mr Delattre informed the Commission that all presentations made at the 34th CSS meeting would be posted on the CSS web site [Annex III, Action 34.13].

[3] Available online at http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/

ANNEX I

PARTICIPATION AT THE 34th CSS MEETING

The Commission

A.J. González, Argentina

C.-M. Larsson, Australia (sent apologies – unable to attend; represented by Mr Williams)

J.-P. Samain, Belgium

I.P. Salati de Almeida, Brazil

R. Jammal, Canada (sent apologies – unable to attend; represented by Mr Webster)

Jun Yu, China (sent apologies – unable to attend)

D. Drabova, (Chair) Czech Republic

L. Reiman, Finland

J.-L. Lachaume, France

A. Vorwerk, Germany

S. S. Bajaj, India (sent apologies – unable to attend)

M. Markovits, Israel

T. Fuketa, Japan (sent apologies – unable to attend; represented by Mr Kamitani)

Y. H. Kim, Republic of Korea (sent apologies – unable to attend; represented by Mr Cho)

M. Demčenko, Lithuania (sent apologies – unable to attend)

R.A.A. Raja Adnan, Malaysia (sent apologies – unable to attend)

I. Soufi, Morocco (sent apologies – unable to attend)

M. A. Habib, Pakistan

V.S. Bezzubtsev, Russian Federation (sent apologies – unable to attend; represented by Mr Bogdan)

C.O. Phillips, South Africa

A. Gurguí Ferrer, Spain

I. Lund, Sweden

W. Travers, United Arab Emirates

C. Patchett, United Kingdom (sent apologies – unable to attend; represented by Mr Senior)

M. Weber, United States of America

Observers

Vacant, EC (represented by Mr Holubetz)

C. Cousins, ICRP (sent apologies – unable to attend)

R. Meserve, INSAG (sent apologies – unable to attend)

K. Shimomura, OECD NEA

Chairpersons of the Review Committees

G. Emi-Reynolds, NSGC

F. Feron, NUSSC

G. Massera, RASSC

E. W. Brach, TRANSSC

G. Williams, WASSC

Representatives and associated experts

Mr Bogdan, Ms Bozenhardova, Mr Cho, Ms Collet i Campo, Mr Davies, Ms Forest, Mr Holubetz, Mr Kamitani, Mr Klonk, Mr Konoplev, Mr Maldague, Mr Ogiso, Mr Senior, Ms Rosales-Cooper, Mr Webster, Mr Weidenbrueck

IAEA Staff Members

P.-S. Hahn, Director, Division of Radiation, Transport and Waste Safety (NSRW)

J. Lyons, Director, Division of Nuclear Installation Safety (NSNI)

K. Mrabit, Director, Office of Nuclear Security (NSNS)

E. Buglova, Head, Incident and Emergency Centre (IEC)

P. Woodhouse, Head, Safety and Security Coordination Section (SSCS)

G. Caruso, Special Coordinator, Nuclear Safety Action Team (NSAT)

A. Al Khatibeh, G. Bruno, J. Hilliard, P. Hughes, M. Lipar, A. Nicic, C. Nogueira de Oliveira, M. Pinak, S. Samaddar, A. Shokr, C. Torres-Vidal

L. Berthelot, T. Boal, O. Coman, B. Jeannin, Y. Kumano, S. Nestoroska Madjunarova, N. Pope, J. Rowat, H. Suman

Coordinators of review Committees and of the Commission on Safety Standards

M. Svab, Regulatory Activities Section (NSNI), NUSSC

G. Siraky, Waste and Environmental Safety Section (NSRW), WASSC

S. Whittingham, Regulatory Infrastructure and Transport Safety Section (NSRW), TRANSSC

T. Colgan, Radiation Safety and Monitoring Services Section (NSRW), RASSC

I. Barraclough, Safety and Security Coordination Section (SSCS), NSGC

D. Delattre, Scientific Secretary of the CSS, Safety and Security Coordination Section

ANNEX II

AGENDA

Thirty-fourth Meeting of the
COMMISSION ON SAFETY STANDARDS
5-6 November 2013

1. Opening Session

1.1 Opening of the Meeting (10:00); *J. Lyons; Acting DDG*-NS

1.2 Introductions, Adoption of the Agenda, Approval of the 33rd CSS meeting report; *D. Drabova*

1.3 Administrative arrangements for the meeting, Status on the main topics for the 5th CSS term, Status of the endorsed Standards and Response to Actions from the 32nd and 33rd Meetings; *D. Delattre*

2. Reports of the Safety Standards Committees meetings and information on the second meeting of the Nuclear Security Guidance Committee

2.1 Nuclear Safety Standards Committee, *F. Feron, Chairman/M. Svab, Scientific Secretary - NUSSC*

2.2 Radiation Safety Standards Committee, *G. Massera, Chairman/T.Colgan, Scientific Secretary - RASSC*

2.3 Waste Safety Standards Committee, *G. Williams, Chairman/G. Siraky, Scientific Secretary – WASSC*

2.4 Transport Safety Standards Committee, *E.W. Brach, Chairman/S. Whittingham, Scientific Secretary – TRANSSC*

2.5 Information on the third and fourth meetings of the Nuclear Security Guidance Committee, *G. Emi Reynolds, Chairman/I. Barraclough, Scientific Secretary –NSGC*

2.6 Summary of the meeting of the Chairs held on 4 November 2013 before the CSS meeting, *D. Delattre*

3. Review/revision of IAEA Safety Standards in light of the TEPCO Fukushima Daiichi NPP accident

3.1 Progress report on DS462 (revision of GSR Part 1, NS-R-3, SSR-2/1, SSR-2/2 and GSR Part 4) and on the concomitant revision of GS-R-2 on Emergency Preparedness and Response and of GS-R-3 on Leadership and Management System for Safety, *D. Delattre and E. Buglova*

3.2 Progress report on subsequent revision of the other Specific Safety Requirements (NS-R-4 and NS-R-5), *A. Shokr*

3.3 Progress report on the pilot review of safety guides, *D. Delattre*

3.4 Summary for the mid-term report (for the agenda item 7), *D. Delattre*

4. Approval of draft publications and DPPs

4.1 Draft Safety requirement DS450 on Decommissioning of Facilities, *J. Rowat*

4.2 Draft Safety Guide DS401 on Justification of Practices, including Non-Medical Human Imaging, *T. Boal*

4.3 Draft Safety Guide DS421 on Protection of the Public against Exposure Indoors due to Radon and Other Natural Sources of Radiation, *T. Boal*

4.4 Draft Safety Guide DS433 on Site Survey and Site Selection for Nuclear Installations, *O. Coman*

4.5 Draft DPP DS472 on Organization, Management and Staffing of a Regulatory Body, *A. Nicic*

4.6 Draft DPP DS473 on Regulatory Body Functions and Processes, *H. Suman*

4.7 Draft DPP DS474 on Arrangements for the Termination of a Nuclear or Radiological Emergency, *S. Nestoroska Madjunarova*

4.8 Draft DPP DS475 on Arrangements for Public Communications in Preparedness and Response for a Nuclear or Radiological Emergency, *L. Berthelot*

4.9 Draft DPP DS477 on The Management System for the Predisposal and Disposal of Radioactive Waste, *Y. Kumano*

5. DPPs for draft Nuclear Security Series publications for information

5.1 DPP NST020 for a Nuclear Security Implementing Guide on Sustaining a Nuclear Security Regime, *R. Evans (I. Barraclough)*

5.2 DPP NST041 for a Nuclear Security Implementing Guide on Prevention and Protective Measures against Insider Threats, *N. Pope*

6. Policy discussion

6.1 Harmonization of the Terms of Reference of the five Review Committees

6.2 Progress report on the development of an IT platform for the feedback mechanism and the preparation of electronic version of the safety standards

7. Review and finalization of the draft CSS mid-term report

8. Use of IAEA Safety Standards in Member States

9. Miscellaneous. Report of the meeting, Date of the next meeting

ANNEX III

ACTIONS ARISING FROM THE 34th MEETING OF THE COMMISSION

34.01 The final report of the 33rd CSS meeting to be uploaded on the CSS web page. **[Action: Secretariat, CSS Scientific Secretary]. Done**

34.02 The Secretariat to reflect on the relationship between several IAEA publications, both from NS and from other Departments and on the coordination process for these publications and the IAEA Safety Standards. **[Action: Secretariat, SSCS].**

34.03 The draft DS450 on Decommissioning of Facilities endorsed subject to inclusion of references to relevant international conferences. **[Action: Secretariat, NSRW, TO for DS450].**

34.04 The draft DS401 endorsed subject to CSS comments on its title, on the inclusion of an additional reference and on clarification on to what the justification applies. **[Action: Secretariat, NSRW, TO for DS401].**

34.05 The DPPs DS472 and DS473 approved subject to further assessment on the need to combine the two drafts and noting that, while they will cover the requirements 36 of GSR-Part 1 like DS460, DS460 will be expanded to better address regulatory requirements on communication and consultation in order to implement other requirements than requirement 36 of GSR part 1. Furthermore, DS460 will proceed as a standalone Safety Guide with a possibility that, in the future, it may become a chapter of a broader, more encompassing Safety Guide. **[Action: Secretariat, NSNI, TOs for DS472, DS473 and DS460]**.

34.06 The DPP for DS474 approved subject to further consideration of the proposed title and further review of the list of references. **[Action: Secretariat, IEC, TO for DS474].**

34.07 The Secretariat to reflect on possible options for a faster process for the review and approval of urgent draft Safety Standards **[Action: Secretariat, SSCS].**

34.08 The DPP for DS475 approved subject to further consideration of the proposed title, the inclusion of additional references and the need to cover training beyond spokespersons. **[Action: Secretariat, IEC, TO for DS475].**

34.09 The Secretariat to continue, in a step by step manner, the development of the proposed IT platform for the content management system, process management and publication of electronic safety standards **[Action: Secretariat, SSCS].**

34.10 The draft mid-term report to be updated based on comments received during the CSS meeting. Input from the Commission to be provided to the Secretariat by November 20. A revised draft incorporating this input to be prepared by the Secretariat and the CSS Chair and to made available early in December on the CSS web site for final consultation with a view to finalize the mid-term report before December 20. **[Action: Secretariat, CSS members, Secretariat with the CSS Chair].**

34.11 A list of actions resulting from the 34th CSS meeting to be provided for comments to the CSS members. **[Action: Secretariat, CSS Scientific Secretary]. Done**

34.12 The draft report of the 34th CSS meeting to be posted for comments to the CSS members. **[Action: Secretariat, CSS Scientific Secretary].**

34.13 The presentations made at the 34th CSS meeting to be uploaded on the CSS web page. **[Action: Secretariat, CSS Scientific Secretary]. Done**

ANNEX IV

STATUS OF MAIN TOPICS OF THE 4TH CSS TERM

#	Main topics	Reference set of SG	Status/action
1	Guidance and assistance to countries considering the launch of a nuclear programme and in particular to provide guidance on the establishment of the necessary safety infrastructure	Item 1	DS424 published as SSG-16
2	Guidance related to a new generation of nuclear reactor designs, the manufacturing of components, the quality of construction and commissioning of new plants	Items 22, 42 and 43	DS349 published (GS-G-3.5). Construction: Revised DPP DS441 approved by the CSS. Draft with the RCs for final review Commissioning: SSG-26 being published
3	Guidance and assistance related to the new applications of radiation sources	Items 68 to 76	DS409 published (SSG-8) DS408 published (SSG-11) DS419 approved for MS consultation DS420 for the RCs for MS consultation DS434 for a safety guide on radioisotope production facilities being drafted. DPP approved by the CSS DS470 on Radiation Sources in Research and Education and DS471 on X-ray Generators and Sources Used for Inspection Purposes. DPPs approved by the CSS DS458 Radiation Safety and Regulatory Control for Consumer Products with the RCs for final review
4	Guidance on the extension of the operating lifetime of NPPs beyond their planned design life, while preserving the safety margins and the issues relating to the ageing management of structures, systems and components	Items 40 and 45	Draft DS 426 published as SSG-25 NS-G-2-12 on ageing management recently published
5	Guidance on seismic safety that considers the potential consequences of earthquakes in new designs and ageing management of operating NPPs' structures, systems and components	Item 18 and Item 41	DS422 published (SSG-9) DS383 published (NS-G-2.13) Note additional work on other external hazards: DS417 published (SSG-18) DS405 published (SSG-21)
6	Question on how best to design and implement safety measures and security measures in an integrated manner	NA	Joint AdSec/CSS session in April 2009 and joint AdSec/CSS Task Force established in June 2009 Final Joint AdSec CSS Session in November 2011 NSGC established, first meeting in June 2012 Interface Group first meeting in September 2012 Revision of SPESS C ongoing

7	Assistance and additional safety guidance to countries dealing with expanded uranium exploration and mining	Item 83	DS 421: Revised DPP approved by the CSS. Draft with the CSS DPP for DS459 also approved by the CSS
8	Guidance on public exposures to natural sources of ionizing radiations (radon, NORM residues, aircrew…) and for the safety of uranium mining activities	Item 5	
9	Crucial need to further improve promotion of the application of the safety standards on medical applications including recommendations that will reduce the frequency of over or under exposures related to nuclear medicine, and to enhance these standards as appropriate	NA. Relates to the application of SS, in particular of item 68	DS399 being drafted Revised DPP approved by the CSS
10	Improvement on the coverage of human and organizational factors in the safety guides	Item 6 and 42	DS349 published (GS-G-3.5)

ANNEX V

STATUS OF MAIN PRIORITIES FOR THE 5TH CSS TERM

1. Finalization of the General Safety Requirements (including review following the Fukushima Daiichi accident): **Ongoing. DS457 and DS456 submitted to MS for comments, DS450 submitted to the CSS for final approval**

2. Initiation of the revision of the remaining Specific Safety Requirements (including review of other Specific Safety Requirements following the Fukushima Daiichi accident): **firstly SSR-2/1 and SSR-2/2, then revision of NS-R-4 and NS-R-5 (DPP at the CSS in April 2014). DPP for the revision of NS-R-3 approved by the CC. To be submitted to the RCs in June/July 2014**

3. Enhancing the feedback process: **Used for the above activities. Database being designed with MTIT. Presentation at this meeting (item 6.2)**

4. Exposure to radon: **DS421 submitted to the 34th CSS meeting for final approval**

5. Medical exposure: **DS399 being drafted**

6. Application of the justification principle: **DS401 submitted to the 34th CSS meeting for final approval. It includes three general sections on the application of the justification principle**

7. Harmonization of exemption, clearance criteria and other radionuclide specific criteria: **DS458 on consumer products and other topics to be initiated**

8. NORM related issues: **DS459 being drafted**

9. Occupational radiation protection, including its application to rescuers: **DS453 (review by the RCs before MS consultation) and DS457 (MS consultation)**

10. Knowledge management: **DS456 on the revision of GS-R-3, and revision of GSR-Part 4 (addendum) under MS consultation**

11. Regulatory oversight of human and organizational factors: **revision of GSR Part 1 (DS462 under MS consultation)**

12. The safety/security interface: **process and Committees in place. Harmonization of the TORs of the RCs at the CSS agenda (item 6.1). Guidance for drafters being developed (revision of SPESS C)**

13. Usefulness of standards for countries embarking on nuclear power programmes: **Difficulty to identify a precise indicator. Presentation from UAE at the 33rd CSS meeting**

14. The need for more detail in standards on PSA and severe accident management: **DPP for the revision of NS-G-2.15 approved by NUSSC**

ANNEX VI

CURRENT SAFETY STANDARDS

[status on 7 November 2013]

A. Safety Fundamentals

SF-1	Fundamental Safety Principles (2006) **Co-sponsorship:** Euratom, FAO, ILO, IMO, OECD/NEA, PAHO, UNEP, WHO [ACEFRS][4]

B. General Safety Standards (applicable to all facilities and activities)

GSR Part 1	Governmental, Legal and Regulatory Framework for Safety (2010) [ACEFRS]
GS-R-3	The Management System for Facilities and Activities (2006) [ACEFRS]
GSR Part 3	Radiation Protection and Safety of Radiation Sources – Revision of the International BSS, Interim Edition (2011) [ACEFRS]
GSR Part 4	Safety Assessment for Facilities and Activities (2009) [ACEFRS]
GSR Part 5	Predisposal Management of Radioactive Waste (2009) [ACEFRS]
WS-R-5	Decommissioning of Facilities Using Radioactive Material (2006) [ACEFRS]
GS-R-2	Preparedness and Response for a Nuclear or Radiological Emergency (2002) **Co-sponsorship:** FAO, OCHA, OECD/NEA, ILO, PAHO, WHO [ACEFRS]
GS-G-2.1	Arrangements for Preparedness for a Nuclear or Radiological Emergency (2007) **Co-sponsorship:** FAO, OCHA, ILO, PAHO, WHO [ES]
GS-G-3.1	Application of the Management System for Facilities and Activities (2006) [ER]
GS-G-3.2	The Management System for Technical Services in Radiation Safety (2008) [EF]
GS-G-3.3	The Management System for the Processing, Handling and Storage of Radioactive Waste (2008) [E]
GSG-1	Classification of Radioactive Waste (2009) [E]
GSG-3	The Safety Case and Safety Assessment for the Predisposal Management of Radioactive Waste (2013) [E]
RS-G-1.1	Occupational Radiation Protection (1999) **Co-sponsorship:** ILO [ACEFRS]
RS-G-1.2	Assessment of Occupational Exposure Due to Intakes of Radionuclides (1999) **Co-sponsorship:** ILO [ACEFRS]
RS-G-1.3	Assessment of Occupational Exposure Due to External Sources of Radiation (1999) **Co-sponsorship:** ILO [ACEFRS]
RS-G-1.4	Building Competence in Radiation Protection and the Safe Use of Radiation Sources (2001) **Co-sponsorship:** ILO, PAHO, WHO [ACEFRS]
RS-G-1.7	Application of the Concepts of Exclusion, Exemption and Clearance (2004) [CERS]
RS-G-1.8	Environmental and Source Monitoring for Purposes of Radiation Protection (2005) [E]
RS-G-1.9	Categorization of Radioactive Sources (2005) [ACEFRS]

[4] A=available in Arabic; C=available in Chinese; E=available in English; F=available in French; R=available in Russian; S=available in Spanish

WS-G-2.3	Regulatory Control of Radioactive Discharges to the Environment (2000) (under revision) [ACEFRS]
WS-G-2.5	Predisposal Management of Low and Intermediate Level Radioactive Waste (2003) (under revision) [ERS]
WS-G-2.6	Predisposal Management of High Level Radioactive Waste (2003) (under revision) [ERS]
WS-G-3.1	Remediation Process for Areas Affected by Past Activities and Accidents (2007) [ES]
WS-G-5.1	Release of Sites from Regulatory Control on Termination of Practices (2006) [ERS]
WS-G-5.2	Safety Assessment for the decommissioning of Facilities Using Radioactive Material (2008) [E]
WS-G-6.1	Storage of Radioactive Waste (2006) [ERS]
GSG-2	Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency (2011) [AEFRS]
GSG-4	Use of External Experts by the Regulatory Body (2013) [E]

C. Specific Safety Standards (applicable to specified facilities and activities)

C.1. Nuclear Power Plants

SSR-2/1	Safety of Nuclear Power Plants: Design (2012) [ACEFRS]
SSR-2/2	Safety of Nuclear Power Plants: Commissioning and Operation (2011) [ACEFRS]
NS-R-3	Site Evaluation for Nuclear Installations (2003) [ACEFRS]
SSG-16	Establishing the Safety Infrastructure for a Nuclear Power Programme (2012) [E]
GS-G-1.1	Organization and Staffing of the Regulatory Body for Nuclear Facilities (2002) [CEFRS]
GS-G-1.2	Review and Assessment of Nuclear Facilities by the Regulatory Body (2002) [CEFR]
GS-G-1.3	Regulatory Inspection of Nuclear Facilities and Enforcement by the Regulatory Body (2002) [CEFRS]
GS-G-1.4	Documentation for Use in Regulating Nuclear Facilities (2002) [CEFRS]
GS-G-3.5	The Management System for Nuclear Installations (2009) [E]
SSG-12	Licensing Process for Nuclear Installations (2010) [ES]
GS-G-4.1	Format and Content of the Safety Analysis report for Nuclear Power Plants (2004) [EC]
NS-G-1.1	Software for Computer Based Systems Important to Safety in Nuclear Power Plants (2000) (under revision)[CEF]
NS-G-1.3	Instrumentation and Control Systems Important to Safety in Nuclear Power Plants (2002) (under revision) [ECFR]
NS-G-1.4	Design of Fuel Handling and Storage Systems for Nuclear Power Plants (2003) [ERS]
NS-G-1.5	External Events Excluding Earthquakes in the Design of Nuclear Power Plants (2003) [ER]
NS-G-1.6	Seismic Design and Qualification for Nuclear Power Plants (2003) [ER]
NS-G-1.7	Protection against Internal Fires and Explosions in the Design of Nuclear Power Plants (2004) [ER]
NS-G-1.8	Design of Emergency Power Systems for Nuclear Power Plants (2004) (under revision) [ER]
NS-G-1.9	Design of the Reactor Coolant System and Associated Systems in Nuclear Power Plants (2004) [ERS]

NS-G-1.10	Design of Reactor Containment Systems for Nuclear Power Plants (2004) [ER]
NS-G-1.11	Protection against Internal Hazards other than Fires and Explosions in the Design of Nuclear Power Plants (2004) [E]
NS-G-1.12	Design of the Reactor Core for Nuclear Power Plants (2005) [ECR]
NS-G-1.13	Radiation Protection Aspects of Design for Nuclear Power Plants (2005) [ER]
NS-G-2.1	Fire Safety in the Operation of Nuclear Power Plants (2000) [ECFR]
NS-G-2.2	Operational limits and Conditions and Operating Procedures for Nuclear Power Plants (2000) [CEFRS]
NS-G-2.3	Modifications to Nuclear Power Plants (2001) [CEFRS]
NS-G-2.4	The Operating Organization for Nuclear Power Plants (2001) [CEFR]
NS-G-2.5	Core Management and Fuel Handling for Nuclear Power Plants (2002) [ER]
NS-G-2.6	Maintenance, Surveillance and In-Service Inspection in Nuclear Power Plants (2002) [ER]
NS-G-2.7	Radiation Protection and Radioactive Waste Management in the Operation of Nuclear Power Plants (2002) [ERS]
NS-G-2.8	Recruitment, Qualification and Training of Personnel for Nuclear Power Plants (2002) [ER]
NS-G-2.9	Commissioning for Nuclear Power Plants (2003) (under revision) [E]
SSG-25	Periodic Safety Review of Nuclear Power Plants (2013) [E]
NS-G-2.11	A System for the Feedback of Experience from Events in Nuclear Installations (2006) [ERS]
NS-G-2.12	Ageing Management for Nuclear Power Plants (2009) [E]
NS-G-2.13	Evaluation of Seismic Safety for Existing Nuclear Installations (2009) [E]
NS-G-2.14	Conduct of Operations at Nuclear Power Plants (2008) [ERS]
NS-G-2.15	Severe Accident Management Programmes for Nuclear Power Plants (2009) [E]
SSG-13	Chemistry Programme for Water Cooled Nuclear Power Plants (2011) [E]
NS-G-3.1	External Human Induced Events in Site Evaluation for Nuclear Power Plants (2002) [ECFR]
NS-G-3.2	Dispersion of Radioactive Material in Air and Water and Consideration of Population Distribution in Site Evaluation for Nuclear Power Plants (2002) (under revision) [ER]
SSG-9	Seismic Hazards in Site Evaluation for Nuclear Installations (2010) [E]
SSG-18	Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations (2011) [E]
SSG-21	Volcanic Hazards in Site Evaluation for Nuclear Installations (2012) [ES]
NS-G-3.6	Geotechnical Aspects of Site Evaluation and Foundations for Nuclear Power Plants (2005) [ECR]
SSG-2	Deterministic Safety Analysis for Nuclear Power Plants (2009) [E]
SSG-3	Development and Application of Level 1 Probabilistic Safety Assessment for Nuclear Power Plants (2010) [E]
SSG-4	Development and Application of Level 2 Probabilistic Safety Assessment for Nuclear Power Plants (2010) [E]
WS-G-2.1	Decommissioning of Nuclear Power Plants and Research Reactors (1999) (under revision) [AECFR]
79	Design of Radioactive Waste Management Systems at Nuclear Power Plants (1986) (under revision) [E]

C.2. Research Reactors

NS-R-3	Site Evaluation for Nuclear Installations (2003) [ACEFRS]
NS-R-4	Safety of Research Reactors (2005) [ACEFRS]
SSG-9	Seismic Hazards in Site Evaluation for Nuclear Installations (2010) [E]
SSG-18	Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations (2011) [E]

SSG-21	Volcanic Hazards in Site Evaluation for Nuclear Installations (2012) [E]
GS-G-1.1	Organization and Staffing of the Regulatory Body for Nuclear Facilities (2002) [CEFRS]
GS-G-1.2	Review and Assessment of Nuclear Facilities by the Regulatory Body (2002) [CEFR]
GS-G-1.3	Regulatory Inspection of Nuclear Facilities and Enforcement by the Regulatory Body (2002) [CEFRS]
GS-G-1.4	Documentation for Use in Regulating Nuclear Facilities (2002) [CEFRS]
GS-G-3.5	The Management System for Nuclear Installations (2009) [E]
SSG-12	Licensing Process for Nuclear Installations (2010) [ES]
NS-G-2.11	A System for the Feedback of Experience from Events in Nuclear Installations (2006) [ER]
NS-G-2.13	Evaluation of Seismic Safety for Existing Nuclear Installations (2009) [E]
NS-G-4.1	Commissioning of Research Reactors (2006) [E]
NS-G-4.2	Maintenance, Periodic Testing and Inspection of Research Reactors (2006) [E]
NS-G-4.3	Core Management and Fuel Handling for Research Reactors (2008) [E]
NS-G-4.4	Operational Limits and Conditions and Operating Procedures for Research Reactors (2008) [E]
NS-G-4.5	The Operating Organization and the Recruitment, Training and Qualification of Personnel for Research Reactors (2008) [E]
NS-G-4.6	Radiation Protection and Radioactive Waste Management in the Design and Operation of Research Reactors (2008) [E]
WS-G-2.1	Decommissioning of Nuclear Power Plants and Research Reactors (1999) (under revision) [AECFR]
SSG-10	Ageing Management for Research Reactors (2010) [E]
SSG-20	Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report (2012) [E]
SSG-22	Use of a Graded Approach in the Application of the Safety Requirements for Research Reactors (2012) [E]
SSG-24	Safety in the Utilization and Modification of Research Reactors (2012) [E]

C.3. Fuel Cycle Facilities

NS-R-3	Site Evaluation for Nuclear Installations (2003) [ACEFRS]
NS-R-5	Safety of Nuclear Fuel Cycle Facilities (2008) (under revision) [E]
SSG-9	Seismic Hazards in Site Evaluation for Nuclear Installations (2010) [E}
SSG-18	Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations (2011) [E]
SSG-21	Volcanic Hazards in Site Evaluation for Nuclear Installations (2012) [E]
GS-G-1.1	Organization and Staffing of the Regulatory Body for Nuclear Facilities (2002) [CEFRS]
GS-G-1.2	Review and Assessment of Nuclear Facilities by the Regulatory Body (2002) [CEFR]
GS-G-1.3	Regulatory Inspection of Nuclear Facilities and Enforcement by the Regulatory Body (2002) [CEFRS]
GS-G-1.4	Documentation for Use in Regulating Nuclear Facilities (2002) [CEFRS]
GS-G-3.5	The Management System for Nuclear Installations (2009) [E]
SSG-12	Licensing Process for Nuclear Installations (2010) [ES]
NS-G-2.11	A System for the Feedback of Experience from Events in Nuclear Installations (2006) [ER]
NS-G-2.13	Evaluation of Seismic Safety for Existing Nuclear Installations (2009) [E]
SSG-5	Safety of Conversion Facilities and Uranium Enrichment Facilities (2010) [E]
SSG-6	Safety of Uranium Fuel Fabrication Facilities (2010) [E]

SSG-7	Safety of Uranium and Plutonium Mixed Oxide Fuel Fabrication Facilities (2010) [E]
WS-G-2.4	Decommissioning of Nuclear Fuel Cycle Facilities (2001) (under revision) [ECFRS]
SSG-15	Storage of Spent Nuclear Fuel (2012) [E]

C.4. Radioactive Waste Disposal Facilities

SSR-5	Disposal of Radioactive Waste (2011) [ACEFRS]
GS-G-1.1	Organization and Staffing of the Regulatory Body for Nuclear Facilities (2002) [CEFRS]
GS-G-1.2	Review and Assessment of Nuclear Facilities by the Regulatory Body (2002) [CEFR]
GS-G-1.3	Regulatory Inspection of Nuclear Facilities and Enforcement by the Regulatory Body (2002) [CEFRS]
GS-G-1.4	Documentation for Use in Regulating Nuclear Facilities (2002) [CEFRS]
GS-G-3.4	The Management System for the Disposal of Radioactive Waste (2008) [E]
SSG-1	Borehole Disposal Facilities for Radioactive Waste (2009) [E]
111-G-3.1	Siting of Near Surface Disposal Facilities (1994) (under revision) [E]
SSG-14	Geological Disposal Facilities for Radioactive Waste (2011) [E]
SSG-23	The Safety Case and Safety Assessment for the Disposal of Radioactive Waste (2012) [E]

C.5. Mining and Milling

RS-G-1.6	Occupational Radiation Protection in the Mining and Processing of Raw Materials (2004) [ES]
WS-G-1.2	Management of Radioactive Waste from the Mining and Milling of Ores (2002) (under revision) [ERS]

C.6. Applications of Radiation Sources

GSR Part 3	Radiation Protection and Safety of Radiation Sources – Revision of the International BSS, Interim Edition (2011) [ACEFRS]
GS-G-1.5	Regulatory Control of Radiation Sources (2004) **Co-sponsorship:** FAO, ILO, PAHO, WHO [EFS]
RS-G-1.4	Building Competence in Radiation Protection and the Safe Use of Radiation Sources (2001) **Co-sponsorship:** ILO, PAHO, WHO [ACEFRS]
RS-G-1.5	Radiological Protection for Medical Exposure to Ionizing Radiation (2002) **Co-sponsorship:** PAHO, WHO (under revision) [CEFRS]
RS-G-1.9	Categorization of Radioactive Sources (2005) [ACEFRS]
RS-G-1.10	Safety of Radiation Generators and Sealed Radioactive Sources (2006) **Co-sponsorship**: ILO, PAHO, WHO [EFS]
WS-G-2.2	Decommissioning of Medical, Industrial and Research Facilities (1999) (under revision) [ACEFRS]
WS-G-2.7	Management of Waste from the Use of Radioactive Materials in Medicine, Industry, Agriculture, Research and Education (2005) [CERS]
SSG-8	Radiation Safety of Gamma, Electron and X Ray Irradiation Facilities (2010) [E]
SSG-11	Radiation Safety in Industrial Radiography (2011) [AEFS]
SSG-17	Control of Orphan Sources and Other Radioactive Material in the Metal Recycling and Production Industries (2012) [E]
SSG-19	National Strategy for Regaining Control over Orphan Sources and Improving Control over Vulnerable Sources (2011) [AES]

C.7. Transport of Radioactive Material

SSR-6	Regulations for the Safe Transport of Radioactive Material 2012 Edition (2012) [ACEFRS]
TS-G-1.1 Rev1	Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material (2008) (under revision) [ES]
TS-G-1.2	Planning and Preparing for Emergency Response to Transport Accidents Involving Radioactive Material (2002) [ERS]
TS-G-1.3	Radiation Protection Programmes for the Transport of Radioactive Material (2007) [ES]
TS-G-1.4	The Management System for the Safe Transport of Radioactive Material (2008) [E]
TS-G-1.5	Compliance Assurance for the Safe Transport of Radioactive Material (2009) [E]
TS-G-1.6	Schedules of Provisions of the IAEA Regulations for the Safe Transport of Radioactive Material (2005 Edition) (2010) [ES]

ANNEX VII

DRAFT STANDARDS UNDER DEVELOPMENT

[status on 7 November 2013]

DS484: Site Evaluation for Nuclear Installations, revision of NS-R-3 [Step 2]

DS483: Severe Accident Management Programme for Nuclear Power Plants, revision of NS-G-2.15 [Step 3]

DS482: Design of Reactor Containment Systems for Nuclear Power Plants, revision of NS-G-1.10 [Step 3]

DS481: Design of the Reactor Coolant System and Associated Systems in Nuclear Power Plants, revision of NS-G-1.9 [Step 3]

DS480: Regulations for the Safe Transport of Radioactive Material, 20xx Edition, revision of SSR-6 [Step 3]

DS479: Operating Experience Feedback for Nuclear Installations, revision of NS-G-2.11 [Step 3]

DS478: Safety of Fuel Cycle Facilities, revision of NS-R-5 [Step 3]

DS477 - The Management System for the Predisposal and Disposal of Radioactive Waste [Step 5]

DS476: Safety of Research Reactors, revision of NS-R-4 [Step 3]

DS475 - Arrangements for Public Communications in Preparedness and Response for a Nuclear or Radiological Emergency [Step 5]

DS474 - Arrangements for the termination of a nuclear or radiological emergency [Step 5]

DS473 - Regulatory Body Functions and Processes, revision and combination of GS-G-1.2, GS-G-1.3, GS-G-1.4, part of GS-G-1.5, part of SSG-12 and part of WS-G-5.1 [Step 5]

DS472 - Organisation, Management and Staffing of a Regulatory Body, revision and combination of GS-G-1.1, part of GS-G-1.5, GSG-4 and DS113 and DS460 [Step 5]

DS471 - Radiation Safety of X-ray Generators and Radiation Sources Used for Inspection Purposes and for Non-Medical Imaging [Step 5]

DS470 - Radiation Safety of Radiation Sources Used in Research and Education [Step 5]

DS469 - Planning and Preparing for Response to Transport Events Involving Radioactive Material, revision of TS-G-1.2 [Step 5]

DS468 - Remediation Process for Areas with Residual Radioactive Material (revision of WS-G-3.1) [Step 5]

DS462 - Revision through addenda of GSR-Part 1, NS-R-3, SSR-2/1, SSR-2/2 and GSR Part 4: coordination (DS462), GSR Part 1 (DS463), NS-R-3 (DS464), SSR-2/1 (DS465) and GSR Part 4 (DS466), SSR-2/2 (DS467) [Step 8]

DS461 - Schedules of Provisions of the IAEA Regulations for the Safe Transport of Radioactive Material (2012 Edition) (revision of TS-G-1.6) [Step 11]

DS460 - Communication and Consultation with Interested Parties [Step 7]

DS459 - Management of Radioactive Residues from Mining, Mineral Processing, and other NORM related Activities (revision and expansion of WS-G-1.2) [Step 5]

DS458 - Radiation Safety and Regulatory Control for Consumer Products [Step 11]

DS457 - GSR Part 7: Preparedness and Response for a Nuclear or Radiological Emergency (revision of GS-R-2) [Step 8]

DS456 - GSR Part 2: Leadership and Management for Safety (revision of GS-R-3) [Step 8]

DS455 - Establishing a National Radiation Safety Infrastructure [Step 5]

DS454 - Predisposal Management of Waste from the Use of Radioactive Materials in Medicine, Industry, Research, Agriculture and Education (revision of WS-G-2.7) [Step 5]

DS453 - Occupational Radiation Protection (revision of RS-G-1.1, RS-G-1.2, RS-G-1.3, RS-G-1.6, GS-G-3.2) [Step 7]

DS452 - Decommissioning of Nuclear Facilities, except Facilities using NORM and Medical, Industrial, Research and Disposal Facilities (revision of WS-G-2.1 and WS-G-2.1) [Step 5]

DS451 - Schedules of Provisions of the IAEA Regulations for the Safe Transport of Radioactive Material (2009 Edition) (revision of TS-G-1.6) [Step 14]

DS450 – GSR Part 6: Decommissioning (revision of WS-R-5) [Step 12]

DS449 - Content of the Safety Analysis Report for Nuclear Installations (revision of GS-G-4.1) [Step 2]

DS448 - Predisposal Management of Radioactive Waste from Reactors (revision of WS-G-2.5) [Step 8]

DS447 - Predisposal Management of Radioactive Waste from Fuel Cycle Facilities (revision of WS-G-2.6) [Step 8]

DS446 - Commissioning for Nuclear Power Plants (revision of NS-G-2.9) [Step 14]

DS442 - Regulatory control of radioactive releases to the environment from facilities and activities (revision of WS-G-2.3) [Step 5]

DS441 - Construction for Nuclear Installations [Step 11]

DS440 - Design of Auxiliary and Supporting Systems in Nuclear Power Plants [Step 5]

DS439 - Appendix IV "Reprocessing Facilities" and Appendix V "Fuel Cycle Research and Development Facilities" of NS-R-5 [Step 14]

DS436 - Instrumentation and Control and Software Important to Safety for Research Reactors [Step 11]

DS435 - Safety of Small/Medium, Transportable and Floating Nuclear Power Plants [being developed as a TECDOC]

DS434 - Radiation Safety of Radioisotope Production Facilities [Step 5]

DS433 - Safety Aspects in Siting for Nuclear Installations (revision of 50-SG-S9) [Step 12]

DS432 - Radiation Protection of the Public and the Environment [Step 5]

DS431 - Design of I & C Systems for NPPs (revision of NS-G-1.1 and NS-G-1.3) [Step 8]

DS430 - Design of Electric Power Systems for NPPs (revision of NS-G-1.8) [Step 11]

DS427 - Radiological Environmental Impact Analysis for Facilities and Activities [Step 7]

DS425 - Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material (revision of TS-G-1.1) [Step 14]

DS421 - Protection of the Public against Indoor Exposure to Natural Sources of Radiation [Step 12]

DS420 - Radiation Safety for Nuclear Gauges [Step 7]

DS419 - Radiation Safety for Well Logging Sources [Step 7]

DS407 - Criticality Safety in the Handling of Fissile Material in Facilities and Activities [Step 14]

DS403 - Decommissioning of Medical, Industrial and Research Facilities (revision of WS-G-2.2) [Step 5]

DS401 - Application of the Principle of Justification to Practices, including Non-Medical Imaging [Step 12]

DS399 - Radiation Safety in Medical Uses of Ionizing Radiation (revision of RS-G-1.5) [Step 5]

DS381 - Safety of Fuel Cycle R&D Facilities [Step 5]

DS367 - Safety Classification of Structures, Systems and Components in Nuclear Power Plants [Step 13]

DS365 - Risk-Informed Decision Making [being developed as a TECDOC]

DS360 - Safety of Reprocessing Facilities [Step 5]

DS357 - Monitoring and Surveillance of Radioactive Waste Disposal Facilities [Step 14]

DS356 - Near Surface Disposal of Radioactive Waste [Step 14]

ANNEX VIII

DRAFTS OF THE NUCLEAR SECURITY SERIES UNDER DEVELOPMENT (INTERFACE DOCUMENTS ONLY; TENTATIVE TITLES ONLY) [status on 7 November 2013]

NST048: Security of Radioactive Material in Use and Storage and of Associated Facilities [Step 3]

NST046: Computer Security Systems and Measures for Nuclear Facilities [Step 3 – on hold]

NST045: Nuclear Security Recommendation for Computer Security [Step 3 – on hold]

NST044: Revision of NSS09 on Security in the Transport of Radioactive Material [Step 3]

NST041: Preventive and Protective Measures against Insider Threats [Step 5]

NST024: Security Management and Security Plans for Radioactive Material and Associated Facilities [Step 5]

NST023: Security in Nuclear Facilities and of Nuclear Material Use and Storage [Step 5]

NST022: Security of information in Nuclear Security [Step 12]

NST020: Sustaining a Nuclear Security Regime [Step 5]

NST017: Security of Nuclear Material in Transport [Step 12]

NST016: Detection of and Response to Radioactive Material at Designated points of Entry and Exit [Step 5]

NST014: Nuclear Forensics in Support of Investigations [Step 9]

NST013: Radiological Crime Scene Management [Step 12]

NST011: Preventive Measures for Nuclear and Other Radioactive Material out of Regulatory Control [Step 5]

NST009: Capacity Building for Nuclear Security [Step 5]

NST006: Framework for International Cooperation and Assistance on Nuclear Security [Step 5]

NST005: Regaining Control over Nuclear and Other Radioactive Material out of Regulatory Control [Step 4]

NST004: Developing a National Framework for Managing Nuclear Security Events [Step 5]

NST002: Implementing the Framework of Law and Regulation for Nuclear Security [Step 5]

ANNEX IX

STATUS OF REMAINING ACTIONS FROM THE 32nd MEETING OF THE COMMISSION AND STATUS OF ACTIONS FROM THE 33RD MEETING

32.2. The CSS welcome the progress on the interfaces between the Safety Standards Series and the Nuclear Security Series and note that the issue is not restricted to checking adequacy of cross-references but also include the verification, for interface documents, that safety measures don't comprise safety and that safety measures don't compromise security. This objective to be reflected in internal guidance for the actors involved. **[Action: Secretariat, Sc. Secretary CSS and NSGC]** Discussion with the 5 Chairs on 22 March 2013 – Establishment of an internal Working Group in September 2013

32.7. The transport related Safety Guides to be translated into all official languages. **[Action: Secretariat, Safety and Security Coordination Section with MTCD]** On-going

32.9. The Safety Glossary to be revised considering the issue of different language versions and the Secretariat to work toward a unified safety and security glossary. **[Action: Secretariat, Safety and Security Coordination Section]** On-going

32.12. The Secretariat to investigate issues relating to issuing safety standards essentially as electronic version and the Safety Standards Committees to be consulted on future challenges on the publication process, noting the support for the CSS on moving from a document by document revision process to a feedback based, topical oriented revision process. **[Action: Secretariat, Scientific Secretary CSS]** New Word file on the web site that includes the whole collection of IAEA Safety Standards, including the one not yet published but approved by the PC. IT platform under development. Agenda Item 6.2

33.01 The final report of the 32nd CSS meeting to be uploaded on the CSS web page. **[Action: Secretariat, CSS Scientific Secretary]. Done**

33.02 The compilation of Safety Standards in one Word file to be updated so as to indicate those that are under revision and similar compilations to be prepared for the translated Safety Standards. **[Action: Secretariat, CSS Scientific Secretary]. Done**

33.03 Guidance for Technical Officers to be prepared, as part of a revision of SPESS C, on how to address safety security interfaces. **[Action: Secretariat, SSCS and Chairs of the Review Committees]. On-going (similar to action 32.2 above)**

33.04 The progress report on the review of the IAEA Safety Standards in light of the lessons learned from the Fukushima Daiichi accident to be included as a section within the CSS mid-term report to the Director General. **[Action: Secretariat, CSS Scientific Secretary and CSS]. On-going, agenda item 7**

33.05 The Secretariat to initiate a full revision of NS-R-5. **[Action: Secretariat, NSNI]. Done DPP DS478 with the RCs for approval**

33.06 The Secretariat to consider the proposal made at the CSS meeting for an additional sentence on the measurement of the burn-up of the spent fuel in para. IV.15 of appendix IV in DS439. **[Action: Secretariat, NSNI]. Done**

33.07 The Secretariat to consider adding to the appendix IV in DS439 a reference to the IAEA report on The Radiological Accident in the Reprocessing Plant at Tomsk, published in 1998. **[Action: Secretariat, NSNI]. Done**

33.08 The Commission's discussion on the issue on whether DS367 should be re-circulated to Member States for comments to be reflected in the report of the meeting noting particularly that DS367 should not create a precedent. **[Action: Secretariat, NSNI]. Done**

33.09 The Secretariat and NUSSC to determine if preparation of a TECDOC is necessary in support of DS367. **[Action: Secretariat, NSNI and NUSSC]. Conclusion: a TECDOC is needed and a DPP was approved by the CC.**

33.10 The Secretariat to verify the CSS comment on the apparent conflict between having no intention of retrievability for a disposal facility, while mentioning its possibility in DS356. **[Action: Secretariat, Technical Editor]. Done**

33.11 The Secretariat to ensure when drafting DS469 that its section 3 clearly deals with the responsibilities of consigners and carriers involved in a transport event. **[Action: Secretariat, NSRW]. On-going**

33.12 The final DPP for NST023 to include NUSSC, RASSC and WASSC in the list of Review Committees. **[Action: Secretariat, NSNS]. Done**

33.13 The Secretariat to take into account the comments from the CSS and the Committees Chairs on the draft on Institutional and Legal Issues of Transportable Nuclear Power Plants, including the proposal to add a subtitle indicating that this constitute a preliminary study. **[Action: Secretariat, NS in liaison with NE]. Done**

33.14 The technical editorial review of draft Safety Standards to be carried out before final review by the Committees and the CSS. **[Action: Secretariat, SSCS]. Continuing**

33.15 The Secretariat to revise SPESS A and SPESS B reflecting the nature of the decision of the Review Committees on the different DPPs and drafts submitted to them. **[Action: Secretariat, SSCS and Chairs of the Review Committees]. Done**

33.16 The presentation initially planned at the 33rd meeting of a progress report on the establishment of an IT platform for the safety standards in electronic format and for the future review/revision process to be updated and presented at the 34th CSS meeting. **[Action: Secretariat, SSCS]. 34th CSS meeting, agenda item 6.2**

33.17 A draft mid-term report to be prepared for its submission for approval at the 34th CSS meeting. **[Action: Secretariat, CSS Scientific Secretary]. 34th CSS meeting, agenda item 7**

33.18 A list of actions resulting from the 33rd CSS meeting to be provided for comments to the CSS members. **[Action: Secretariat, CSS Scientific Secretary]. Done**

33.19 The draft report of the 33rd CSS meeting to be posted for comments to the CSS members. **[Action: Secretariat, CSS Scientific Secretary]. Done**

33.20 The presentations made at the 32nd CSS meeting to be uploaded on the CSS web page. **[Action: Secretariat, CSS Scientific Secretary]. Done**