19 January 2011

Commission on Safety Standards

Twenty-eighth Meeting

30 September 2010 – 1 October 2010

IAEA Headquarters, Vienna

Report of the Meeting

1. Opening Session

1.1 Opening of the Meeting

Mr Flory, Deputy Director General of the Department of Nuclear Safety and Security, opened the 28th meeting of the Commission on Safety Standards. He expressed his appreciation and thanks to the CSS members and the Chair for their active participation in and contributions to establishing a long-term, stable structure for the safety standards, and their expert advice on policies, strategies and processes for establishing standards and providing feedback on their use and application.

He further commended the CSS on its effective and substantive contribution to the implementation of the Roadmap that was approved in 2008. This Roadmap presents a clear, consistent and integrated structure for Safety Requirements with the aim of providing for a manageable number of publications, resulting in better and fewer Safety Guides.

He also extended his appreciation to the CSS for its efforts in working as a joint committee with the Advisory Group on Nuclear Security (AdSec), on issues relating to safety and security synergies and interfaces, and on the feasibility of working towards the establishment of a nuclear safety and security standards series covering both nuclear safety and nuclear security. He looked forward to a fruitful conclusion from the Joint AdSec CSS Task Force, which would provide a constructive path forward in a reasonable timeframe.

He wished to provide encouragement and further context for the work to be accomplished by the CSS and the Secretariat to further strengthen the position and the recognition of the IAEA Safety Standards as the global reference for achieving a high level of safety worldwide.

He noted that there were a certain number of policy issues on the agenda for which CSS views and advice are sought. These included the finalization of the Terms of Reference for the renewal next year of the four Safety Standards Committees NUSSC, RASSC, WASSC and TRANSSC. These needed to be finalized at this meeting so as to request the Member States to propose their representatives for the next term.

There were also a number of other policy issues on the agenda, such as a policy report on a feedback mechanism, and the advice of the CSS on these was welcomed.

The agenda also contained the draft DS424 on Establishing the Safety Infrastructure for a Nuclear Power Programme. Mr Flory drew the attention of the CSS to the importance of this draft for countries embarking into Nuclear Power.

Mr Flory also shared some of the conclusions from meetings held during the recent General Conference 2010, as well as resolutions agreed upon, as they would have bearing on the context of this CSS meeting.

As conclusions from the recent Senior Regulators' Meeting, the IAEA safety standards were now recognized as the de facto global reference; their use contributes to achieving a high level of safety. Their recent use in the EU shows how they can be applied in a harmonized, flexible manner and how they can serve as a basis for a binding legal framework.

The four hallmarks of the safety standards were best summed up at the Senior Regulators' meeting as follows:

1) Continuous improvement: the ongoing effort of using feedback mechanisms to progress and

evolve IAEA safety standards, by incorporating lessons learned using a systematic, structure approach;

2) Process: harmonization is a continuing process, providing for flexibility in their application and leading to achieving high levels of safety worldwide;

3) Regulatory stability: constituting the global reference for harmonization, and providing for predictable processes across Member States;

4) Public acceptance of (and public confidence in) in nuclear safety worldwide will be enhanced through harmonized use of the IAEA safety standards.

In addition, the recently-launched Regulatory Cooperation Forum (RCF), whose role is the support of nuclear newcomer countries in their efforts to launch safe, secure and sustainable nuclear power programmes, earlier this month conducted its first mission to Jordan. Here, the RCF team applied the draft Safety Guide DS424 to help guide the safety assessment of the Jordan Nuclear Regulatory Commission (JNRC) in identifying needs, gaps, and overlaps. Conclusions from this mission were discussed at the first RCF Plenary meeting during the General Conference 2010. Two primary conclusions were:

1) For the JNRC mission, DS424 was effectively used as a basis for identifying regulatory body gaps; and

2) During the RCF Plenary, Core Group members agreed that regulatory infrastructure support from "provider" Member States to "recipients" would be based on the IAEA Safety Standards and DS424 to promote harmonization and predictable processes

The Round Table Discussion on Knowledge Sharing and Networking, also held on the margins of the General Conference 2010, further discussed feedback mechanisms required to implement safety standards in a harmonized way as well as provide for their application within Member States.

Safety Resolutions adopted by the General Conference referenced these items in particular. To quote from the safety resolutions, the General Conference:

- Encourages Member States to use the safety standards issued by the IAEA in their regulatory programmes;
- Recognizes the central role of the Agency's safety standards in providing guidance to Member States on matters related to nuclear, radiation, transport and waste safety;
- Acknowledges that safety measures and security measures have in common the aim of protecting human life and health and the environment calls upon the Secretariat to enhance it efforts to ensure coordination of its safety activities and security activities, and encourages Member States to work actively to ensure that neither safety nor security is compromised;
- Welcomes the activities of the Commission on Safety standards and the Safety Standards Committees, supported by the Secretariat, in developing and endorsing the safety standards being established by the Board and the Director General;
- Requests the Secretariat, given the importance of the Safety Standards Committees, to facilitate the effective participation of all interested Member States in those committees.

As the new DDG for the Department of Nuclear Safety and Security, Mr Flory recognized as one of the challenges for the CSS and for the Agency the need to help countries bridge the safety gap between different safety objectives for reactors that date back decades with those newly designed reactors that are now being built. He considered that this is one of the great challenges for the Agency to move forward, starting from the safety standards in place today to show the way for improvement not only for the reactors being built but also for existing reactors that have been in operation for the last decades.

As the former head of the Department for the Security of Radioactive Materials of the Institut de Radioprotection et de Sûreté Nucléaire and chairman of the working group negotiating the amendment package for the CPPNM, Mr Flory was very aware of the particular issues surrounding nuclear security. It was from this background that he acknowledged and would assign high priority to developing the synergies and interfaces between safety and security, simultaneously promoting and

developing both safety and security, and encouraging Member States to work actively to ensure that neither is compromised.

In conclusion, Mr Flory hoped that his remarks would provide points for further discussion and reflection during this CSS meeting. He noted that the international nuclear community continued to face many issues and challenges, including new and expanding nuclear power programmes, the needs for capacity building and finding common and equal ground in developing security programmes. He considered that the CSS plays a vitally important role in the IAEA's efforts to establish high-quality standards of safety and to provide for their use.

Mr Amano, Director General of the IAEA, also made some opening remarks to the meeting. He appreciated the opportunity to attend the CSS. He indicated his satisfaction that the IAEA safety standards are recognized as the global reference for protecting people and the environment against harmful effects of ionizing radiation and he welcomed the fact that the IAEA Safety Fundamentals had been used for the preparation of EU directives for nuclear safety. He thanked the Commission for its support in establishing the long-term stable structure for the standards. He drew attention to recent and forthcoming changes of senior staff in the department, and noted that there was a need to take stock of past achievements and give thought to future directions. Mr Amano placed high priority on the work of the Commission and indicated that he would count on its continuing support.

1.2 Introductions, Adoption of the Agenda, Adoption of the 27th CSS meeting report

Mr Lacoste, Chairman of the Commission, welcomed participants. He introduced new members to the Commission, Mr Larsson from Australia and Mr Moberg from Sweden. He also indicated that apologies had been received from Mr Jammal from Canada (Mr Jamieson represented Canada at the meeting), Mr Liu Hua from China (Mr Jun Yu represented China at the meeting), Mr Nakamura from Japan (Mr Bannai represented Japan at the meeting), Mr Yun from the Republic of Korea (Mr Ha represented the Republic of Korea at the meeting), Mr Bryunin from the Russian Federation (Mr Karasev represented the Russian Federation at the meeting), Mr. Moberg from Sweden, Ms Mykolaichuk from Ukraine (Mr Bozhko represented Ukraine at the meeting), Mr Weightman from the UK (Mr Cresswell represented the UK at the meeting), Mr Dung from Vietnam, Mr Faross from the EC (Mr Janssens represented the EC at the meeting), Ms Cousins from the ICRP (Mr Gonzalez represented the ICRP at the meeting) and Mr Meserve from INSAG (Mr Laaksonen represented INSAG at the meeting). He also indicated that Mr Paulikas would represent Lithuania at the meeting. A list of participants is provided in Annex I.

There had been a request from Mr Laaksonen to present information on proposed principles of conduct for export of nuclear power plants. This presentation was added to the agenda as item 6.3.

The agenda with the proposed change was approved. The approved agenda is provided in Annex II.

Mr Lacoste informed the Commission that the draft report of the 27th CSS meeting had been made available and that comments from the Chair of TRANSSC had been accepted and would be incorporated into the final report. The report of the 27th CSS meeting was approved with these changes and would be uploaded to the CSS website [Annex III, Action 28.1].

1.3 Administrative arrangements for the meeting, status of the main topics for the 4th CSS term, status of endorsed Standards, response to actions from the 26th Meeting and update of the reference list of Safety Guides

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

Mr Gonzalez raised an issue that had been mentioned at the 26th CSS meeting, namely a recent proposal made by a Member State that the Agency should establish a safety ranking of reactors on the market. He considered that it was not the role of the IAEA, nor any body under the IAEA, to provide such a ranking, and that it would not assist countries in making rational and appropriate decisions on the safety of nuclear reactors. Mr Flory explained that the Secretariat was still considering the issue. Mr Lacoste requested the Secretariat to prepare a note clarifying issues relating to the question asked and to provide it to the CSS members [Annex III, Action 28.2].

Mr Delattre presented the status of the main topics for the 4th CSS term (see Annex IV). Mr Laaksonen considered that a Safety Requirements publication on construction of nuclear installations should be prepared.

Mr Delattre presented the status of the endorsed Safety Standards. He informed the Commission that 7 Safety Guides had been published so far in 2010:

- SSG-3 Development and Application of Level 1 Probabilistic Safety Assessment for Nuclear Power Plants (DS394)
- SSG-4 Development and Application of Level 2 Probabilistic Safety Assessment for Nuclear Power Plants (DS393)
- SSG-5 Safety of Conversion Facilities and Uranium Enrichment Facilities (DS344)
- SSG-6 Safety of Uranium Fuel Fabrication Facilities (DS317)
- SSG-7 Safety of Uranium and Plutonium Mixed Oxide Fuel Fabrication Facilities (DS316)
- SSG-8- Radiation Safety of Gamma, Electron and X ray Irradiation Facilities (DS409)
- SSG-9 Seismic Hazards in Site Evaluation for Nuclear Installations (DS422)

He provided details on 10 further Safety Standards, endorsed by the Commission, that were being published:

- Criteria for Use in Preparedness and Response for a Nuclear or Radiological Emergency (DS44)
- Geological Disposal of Radioactive Waste (DS334)
- Disposal of Radioactive Waste (DS354)
- Storage of Spent Fuel (DS371)
- Chemistry Programme for Water cooled Nuclear Power Plants (DS388)
- Radiation Safety in Industrial Radiography (DS408)
- Ageing Management for Research Reactors (DS412)
- Safety of Nuclear Power Plants: Commissioning and Operation (DS413)
- Governmental, Legal and Regulatory Framework for Safety (DS415)
- Licensing Process for Nuclear Installations (DS416)

Mr Delattre informed the Commission of the status of outstanding actions arising from the 26th CSS meeting and of actions arising from the 27th CSS meeting (see Annex V).

Mr Delattre also informed the Commission of updates to the reference list of Safety Guides for the long term. Mr Vaughan provided updated information on the DPP for the Construction of Nuclear Installations. Mr Delattre will update the presentation accordingly and the revised presentation will be made available on the CSS website.

2. Presentations and Discussion of Reports of Safety Standards Committees

2.1 Nuclear Safety Standards Committee

Mr Vaughan, Chairman of NUSSC, reported on the 29th NUSSC meeting, which had been held partly jointly with WASSC. He informed the Commission that NUSSC had approved six draft Safety Guides (DS284, DS396, DS405, DS417, DS424 and DS426) for submission to the CSS and two draft Safety Standards (DS437 and DS397) for submission to Member States for comment. NUSSC had also approved six DPPs (DS439, DS440, DS442, DS446, DS447, DS448). He also reported on other discussions at NUSSC, on the input of the United States to new or revised standards, on the working group on DS414, on preparation of the three year report, on a topical session on learning from disasters, on combining of draft standards and on advanced reactor designs. (Mr Vaughan's full presentation is available on the CSS website.)

Mr Virgilio thanked the Chairs of all Committees for their leadership during this term. He drew attention to the need for knowledge management from this term to the next and the fact that there were limits to the usefulness of technology neutral standards.

Mr Laaksonen initiated a discussion on the quality control of draft standards, suggesting there may be a need for independent review by potential users. Mr Lacoste emphasized that a further step in the review and approval process was not desirable. Mr Gonzalez praised the quality of the technical editorial review of draft standards, and requested that the Secretariat give attention to the need to improve quality in drafting and in independent review by Member States and SSCs.

2.2 Radiation Safety Standards Committee

Mr Magnusson, Chairman of RASSC, reported on the 28th RASSC meeting. RASSC had approved four draft Safety Standards for submission to the CSS (DS284, DS410, DS411 and DS424), two draft Safety Standards for submission to Member States for comment (DS407 and DS437) and five DPPs (DS439, DS442, DS447, DS448 and DS449). He summarized the key issues raised by Member States in their review of the BSS. In addition, he drew attention to reports of international meetings, the issue of airport security screening as well as recent experiences and lessons learnt fromincorrect prostate brachytherapy procedures in the United States. (Mr Magnusson's full presentation is available on the CSS website.)

Members of the CSS mentioned some of the challenging aspects of the development of the BSS, including the treatment of aircrew exposure, considered a planned exposure situation in the draft revised European BSS, but an existing exposure situation in the IAEA BSS. Mr Magnusson reported that RASSC's technical view was that the text of the International BSS was sound, but considered that differences with the European BSS might be difficult to justify (See also section 4.2 of this report).

2.3 Waste Safety Standards Committee

Mr Pather, Chairman of WASSC, reported on the 29th WASSC meeting, which had been held in part jointly with NUSSC. He informed the Commission that WASSC had approved eight draft Safety Standards (DS284, DS355, DS405, DS410, DS411, DS417, DS424 and DS426) for submission to the CSS, one draft Safety Standard (DS437) for approval for submission to Member States for comment and four DPPs (DS439, DS442, DS447 and DS448). He also reported on WASSC's discussion and ratification of the advice provided to the INLEX expert group on the German Proposal for the "Exclusion of Small Training and Research Reactors and Nuclear Installations being Decommissioned from the Liability Conventions" and on other presentations at WASSC. (Mr Pather's full presentation is available on the CSS website.)

In the discussion that followed, Mr Gonzalez reminded the Commission of the Agency's obligation to issue publications in support of transfer of technology, and Mr Lacoste indicated that efforts were ongoing to clarify the relationship between publications issued by the Department of Nuclear Energy and the Safety Standards.

2.4 Transport Safety Standards Committee

Mr Brach, Chairman of TRANSSC, reported on the 20th TRANSSC meeting. He informed the Commission that TRANSSC had approved one draft Safety Standard (DS424) for submission to the CSS and one draft Safety Standard (DS407) for approval for submission to Member States for comment. He reported on the schedule and status of the review and approval of the proposed changes to TS-R-1 and TS-G-1.1, on recommendations for the future direction and activities for TRANSSC and on the transport programme. (Mr Brach's full presentation is available on the CSS website.)

2.5 Meetings of the Chairs

Mr Lacoste informed the Commission of the topics discussed at the meeting of the four Chairs and the meeting of the five Chairs, including:

- The Terms of Reference of the Safety Standards Committees (to be addressed under item 5.03 of this meeting)

- Preparation of the three year reports of the Safety Standards Committees
- Feedback mechanisms (to be addressed under item 5.05 of this meeting)
- Issues related to barge-mounted nuclear power plants (to be addressed under item 5.06 of this meeting)

3. Approval of draft publications and DPPs

3.01 Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report (DS396)

Mr Boogaard presented the draft Safety Guide for approval for publication and indicated the Secretariat's proposal to address comments made by South Africa.

Mr Vaughan considered that Section 4 of DS396, on regulatory review, should in the future be included in Safety Guides on the regulatory body. Mr Clapisson noted that there were now two draft Safety Standards relating to safety assessment for research reactors (DS396 and DS449). Mr Boogaard confirmed that NUSSC had requested the DPP for DS449 to cover all nuclear installations, while nevertheless recommending to maintain DS396 being already very mature.

The Commission endorsed the draft for publication.

3.02 National Strategy for Regaining Control over Orphan Sources and Improving Control over Vulnerable Sources (DS410)

Mr Reber presented the draft Safety Guides DS410 for approval for publication and indicated the Secretariat's proposal to address comments made by India and South Africa.

The Commission endorsed the draft for publication.

3.03 Orphan Sources and Other Radioactive Material in the Metal Recycling and Production Industries (DS411)

Mr Reber presented the draft Safety Guides DS411 for approval for publication and indicated the Secretariat's proposal to address comments made by India and South Africa.

Mr Gonzalez requested that a reference to the proceedings of the International Conference on Control and Management of Inadvertent Radioactive Material in Scrap Metal, held in Tarragona in February 2009, be included in DS411, and considered that both Safety Guides DS410 and DS411 could be used as a basis for an action plan on dealing with scrap metal. Mr Janssens considered that DS411 was excellent and very necessary, and wished that some of the recommendations could have been established as requirements.

The Commission endorsed the draft for publication, subject to inclusion of a reference to the Tarragona conference.

3.04 Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations (DS417)

Mr Samaddar presented the draft Safety Guide for approval for publication. No comments had been received from CSS members.

Mr Gonzalez praised the Safety Guide for its quantitative nature, and requested the Secretariat to considered seeking co-sponsorship of the World Meteorological Organization for the Safety Guide [Annex III, Action 28.4].

The Commission endorsed the draft for publication.

3.05 Establishing the Safety Infrastructure for a Nuclear Power Programme (DS424)

Mr Graves presented the draft Safety Guide for approval for publication and indicated the Secretariat's proposal to address a comment made by South Africa.

Mr Vaughan indicated that DS424 had already been used successfully in pilot form in peer review missions.

The Commission endorsed the draft for publication.

3.06 Periodic Safety Review of Nuclear Power Plants (DS426)

This Safety Guide was withdrawn from the agenda and would be submitted to the next CSS for approval.

3.07 DPP for an addendum to NS-R-5: appendix IV for Reprocessing Facilities and Appendix V for Fuel Cycle Research and Development Facilities (DS439)

Mr Jones presented the DPP for approval and indicated the Secretariat's proposal to address a comment made by South Africa.

It was also commented that, while the cooling is one among the safety functions, the proposed table of content included one specific section in the document. Mr Vaughan agreed that cooling was among the safety functions and explained that the idea was to put more emphasis on the specific importance of cooling in reprocessing fuel.

Mr Vaughan also endorsed strongly the idea of using addendums to standards, for the sake of stability and to reduce efforts.

The Commission approved the DPP.

3.08 DPP for a new Safety Suide on Design of Auxiliary and Supporting Systems in Nuclear Power Plants (DS440)

Mr Tricot presented the DPP for approval and indicated the Secretariat's proposal to address comments made by India.

Mr Vaughan indicated that NUSSC had requested that a gap analysis be carried out to determine which systems would need guidance, and that the results of this would be presented at the next NUSSC meeting.

The Commission approved the DPP.

3.09 DPP for the revision of the Safety Guide WS-G-2.3: Regulatory Control of the Releases of Radioactive Material from Facilities and Activities (DS442)

Mr Berkovskyy presented the DPP for approval and indicated the Secretariat's proposal to address comments made by India and the USA.

Mr Jamieson proposed that the word 'regulatory' be removed from the title. Mr Gonzalez felt that the Guide should set out recommendations on how the regulatory body should regulate the licensee. He also requested the Secretariat to provide a justification of replacing the word 'discharges' by the word 'releases' in the title, and to include explicitly the concept of dose commitment due to cumulative impacts of annual discharges from the facility, which was related to Principle 7 on protection of present and future generations and which had been included in a previous Safety Guide, Principles for Limiting Releases of Radioactive Effluents into the Environment, Safety Series No. 77, issued in 1986. Mr Berkovskyy indicated that the title was still a working title and was subject to discussion and change.

The Commission approved the DPP, subject to inclusion of the changes discussed.

3.10 DPP for the revision of the Safety Guide NS-G-2.9: Commissioning for Nuclear Power Plants (DS446)

Mr Vamos presented the DPP for approval and indicated the Secretariat's proposal to address comments made by India.

Mr Vaughan indicated that only part of NS-G-2.9 would need to be revised. Mr Pather requested that WASSC be included in the review of DS446 [Annex III, Action 28.5].

The Commission approved the DPP.

3.11 and 3.12 DPP for the revision of the Safety Guide WS-G-2.6: Predisposal Management of Radioactive Waste from Fuel Cycle Facilities (DS447) and DPP for the revision of the safety guide WS-G-2.5: Predisposal Management of Radioactive Waste from Reactors (DS448)

Ms Kinker presented both DPPs for approval and indicated the Secretariat's proposal to address various comments made by CSS members.

Mr Pather reported on WASSC's decision that the draft Safety Guides would be developed in parallel, but that the possibility of later combining the Guides would be kept open.

The Commission approved the DPP.

4. Progress reports on safety standards and other safety related publications

4.1 Information on ICRP activities

Mr Gonzalez provided a presentation on the ICRP and its programme of work, recent publications and current work. Mr Gonzalez's full presentation is available on the CSS website.

Mr Gonzalez indicated that the issue of non-cancer effects of radiation, particularly to the lens of the eye, was more subtle than previously thought and that a report was expected soon from Committee 1 on the science behind the issues. He also indicated the ICRP's longstanding relationships with the IAEA, the ILO and the OECD NEA and that the issue of 'values' (the ethical basis for the ICRP's recommendations) was taken very seriously. He would welcome it if the IAEA were to play a stronger role in this regard.

4.2 Information on the status of the revision of the BSS (DS379)

Ms Amaral provided a presentation of the status of the revision of the BSS (DS379). In particular, she indicated the progress made since the last CSS meeting. 1500 comments had been received from IAEA Member States and through the cosponsoring process. An outstanding issue was that of the annual dose limit for the lens of the eye for workers, on which a report from the ICRP was expected. (Ms Amaral's full presentation is available on the CSS website.)

With regard to the schedule for approval of the draft BSS, Mr Virgilio expected that RASSC and the other Safety Standards Committees would be provided with sufficient time to review the draft and would make a clear recommendation as to its approval before the CSS was requested to endorse the draft.

Mr Gonzalez recalled his remarks made at the 27th CSS on issue of differences between the European BSS and the International BSS. He considered that serious effort was necessary to make the standards compatible. Mr Janssens informed the Commission that a table of correspondence between the two draft standards was being drawn up, and that there had been much close cooperative work between the organizations and there is no difference in the contents and much closer harmoniazation than with the current BSS. Mr Lacoste noted the different legally binding nature of the two standards, which meant that they could not be identical. The CSS therefore considered that an effort should be made towards harmonization of the two standards.

In this regard, Mr Janssens informed the Commission that the only difference is in respect of aircrew exposure. However the fact that EU BSS considers as planned exposure situations and the International BSS as existing is just a conceptual issue. Discussions were ongoing to ensure that the IAEA and the EU establish harmonized requirements for protection of aircrew. Ms Amaral offered to discuss the matter further to reach an agreement with Mr Janssens on protection of aircrew that would be proposed to RASSC and WASSC.

4.3 Information on AdSec activities

Mr Hashmi provided a presentation on the background to the establishment of AdSec, its terms of reference, its main activities, its various efforts at reaching out to Member States and the Nuclear Security Summit 2010. (Mr Hashmi's full presentation is available on the CSS website.)

Mr Vinhas expressed his concern about the forthcoming technical guidance document entitled 'Nuclear Material Accountancy Systems at Facilities', which he felt could cause confusion with the safeguards agreements between Member States and the IAEA.

4.4 Information on INSAG activities

Mr Laaksonen presented information on INSAG activities, including the 2010 annual letter of the Chairman of INSAG to the Director General, which focused on the challenge of enabling those countries that are embarking on nuclear power for the first time to succeed, the INSAG forum 2010, and recent and forthcoming publications and proposals for new reports. (Mr Laaksonen's full presentation is available on the CSS website.)

4.5 Other information on recent activities from the Secretariat

a) Mr Lipar provided a short presentation on recent activities in NSNI, particularly on development of safety standards, safety review missions, knowledge sharing and training, activities supporting countries considering embarking on nuclear power, and collaboration with the EC and Norway. Mr Lipar's full presentation is available on the CSS website.

b) Ms Amaral provided a short presentation on recent activities in NSRW, particular on the May 2010 meeting relating to the Code of Conduct on the Safety and Security of Radiation Sources, follow up to recommendations of the Tarragona conference on radioactive material in scrap metal, the finalization of the radiation safety model regulations, and other recent activities in the division. Ms Amaral's full presentation is available on the CSS website.

In follow-up to the Tarragona conference, Ms Amaral informed the Commission that, depending on resources, an open-ended meeting on the issue of radioactive material would take place in 2011.

c) Ms Nilsson provided a short presentation on progress in the development of the Nuclear Security Series. Ms Nilsson's presentation is available on the CSS website.

Mr Gonzalez reminded the Commission of Argentina's historical commitment to security, and reiterated his dissatisfaction with the way this programme has been and continue to be managed.

d) Ms Buglova provided a short presentation on recent activities in the IEC, various draft publications in preparation, training and missions in 2010, preparation for the ConvEx-3 (2012) exercise, the Response Assistance Network (RANET) and the unified system for information exchange. Ms Buglova's presentation is available on the CSS website.

c) Mr Mrabit provided a short presentation on recent activities of the Safety and Security Coordination Section, in particular the Regulatory Cooperation Forum and the forthcoming conference on Challenges Faced by Technical and Scientific Support Organizations, to be held in Tokyo in October 2010.

5. Policy discussion

5.01 Report from the Joint AdSec CSS Task Force meeting held on 29 September 2010

Mr Lacoste and Mr Hashmi provided a short summary of the Joint AdSec CSS Task Force meeting:

1. The Task Force held a first discussion on a list of 12 criteria to be used to assess the feasibility of the different possible options for the future of the Nuclear Security Series and the Safety Standards Series. A first discussion of the application of these criteria was initiated.
2. The Task Force was informed about the progress and the process for the finalization of the Nuclear Security Fundamentals and the three Nuclear Security Recommendations. The work of the task force would not delay these documents.
3. The Task Force was informed on how the comments from the CSS provided as a result of the informal consultation on the draft Nuclear Security Fundamentals were addressed in conjunction with comments from the technical meeting.
4. The Task Force discussed the status of the establishment of a Nuclear Security Guidance Committee (NSGC)
5. The Task Force agreed that for its next meeting the following material should be prepared
    - the list of feasibility issues
    - a paper from the Secretariat on how to implement the options 1 and 2 as described in the paper from the Secretariat provided in April 2009
    - a paper from the Secretariat on the establishment of the NSGC: challenges and possible solutions
    - the result of a mapping exercise that consider both the Safety Standards Series and the Nuclear Security Series
6. In the meantime, a short progress report would be prepared for the Board of Governors.
7. A next meeting was planned for the preparation of the final report of the Task Force

Mr Hashmi expected that the summary progress report would clarify issues, and furthermore clarified that reporting mechanism of the proposed NSGC could be different from that of the SSCs.

Mr Virgilio appreciated the iterative nature of the process, but questioned the rational to create a NSGC transition phase to an unknown final solution. Mr. Virgilio suggested that no interim or transition phase begin until after the Task Force completes its recommendations and the recommendations have been vetted through a Member State comment period. He also welcomed the proposal that AdSec would assess the current process for developing Nuclear Security Series publications against the process set out in SPESS.

Mr Gonzalez urged the Secretariat to issue a formal report of the work of the Task Force as soon as possible, and stressed that any policy of integration should extend beyond the two series of publications to the entire programme of the department; a move to a policy of integration would de-politicize the issue. Mr Lacoste agreed that segregation was not in the interest of either area, and informed the Commission that a more complete report would later be distributed.

Mr Hashmi expected that at its next meeting AdSec would review the report of the Task Force. He considered that harmonization of the two processes would be a major step forward and noted that the term 'integration' had several shades of meaning.

5.02 Resolution of CSS comments on the draft Nuclear Security Fundamentals

Mr Moore presented the resolution of the CSS comments on the draft Nuclear Security Fundamentals, which had been incorporated into the draft together with Member State comments from the first technical meeting. Mr Moore's presentation is available on the CSS website. Mr Lacoste welcomed the positive response to the CSS comments

5.03 Revision of the Terms of Reference of the Safety Standards Committees and of the Commission on Safety Standards

Mr Mrabit provided a presentation on the revision of the terms of reference of the Safety Standards Committees and the Commission. He summarized the suggestions for amendments provided by members of the SSCs and CSS in response to Action 26.11 of the 26th CSS meeting (see Annex V). Mr Mrabit's presentation is available on the CSS website.

Mr Gonzalez feared that the proposed terms of reference would dilute the original function of the Committees, which was to approve draft standards; he felt that the duty peer review of draft standards should in fact be the first bullet in the terms of reference. He also emphasized the difference in nature between review of drafts of the Nuclear Energy Series and of the Nuclear Security Series; the latter should not be considered 'other documents', but should be reviewed by the SSCs and CSS as part of a combined IAEA series of safety and security standards.

5.04 Feedback from the Senior Regulators' meeting

Mr Mrabit provided feedback from the Senior Regulators' Meeting, held during the 2010 General Conference, at which two topics had been addressed: harmonization and effective use of the IAEA safety standards, and ensuring the infrastructure for the safe use of radiation in medicine. He also reported on the round table discussion on nuclear safety knowledge networking. Mr Mrabit's presentation is available on the CSS website.

Mr Gonzalez addressed the concept of a graded approach to stability in the safety standards: that more stability was necessary for the Safety Fundamentals and more flexibility for the Safety Guides. Mr Mrabit felt that this concept could be used in development of a policy for revision of the safety standards.

5.05 Feedback on safety standards. Overview report

Mr Delattre and Mr Jeannin provided a presentation outlining a proposed mechanism for collecting information on, reviewing and revising safety standards, in response to Action 26.5 of the 26th CSS meeting (see Annex V). The presentation is available on the CSS website.

Mr Brach summarized the views of the four Chairs on the proposed feedback mechanism:

- When a revision of a standard is initiated, then review of that standard should be frozen;
- As the number of overarching requirements was well over 400, there may be too many

'bins' or 'modules' for collecting information, and that perhaps higher-level categories should be used;

- The interrelationship between overarching requirements should be considered when information is assigned to 'bins';

- The resources necessary should be estimated and the process should be initiated on a pilot basis to assess the practicality and resource costs of the proposed feedback process,, and a report on the pilot experience should be provided to the 29th CSS [Annex III, Action 28.6]

Mr Bannai considered the Agency could make more use of regional networks, such as the ANSN, in collecting information on the standards. Mr Gonzalez recognized how ambitious the proposed mechanism was and considered that feedback could also be obtained easily in the short term from IAEA missions, for example for the quantitative standards on discharges and on occupational exposure.

5.06 Report on issues related to barge mounted NPPs

Mr Gasparini provided a presentation on issues relating to barge-mounted transportable reactors and the applicability of the existing safety standards to such reactors, in response to Action 26.7 of the 26th CSS meeting (see Annex V).

Mr Vaughan reported that NUSSC had felt the technical issues were less significant, although more information on design was needed. There was a need to examine the adequacy of existing standards in more detail, but there was currently insufficient support for a new Safety Guide.

Mr Lacoste felt that scenarios 3 ("imported operated floating NPP") could involve institutional and legal issues.

Mr Gonzalez and Mr Clapisson referred to the 'MS Otto Hahn', a nuclear-powered cargo vessel constructed in the 1960s and licensed by the Argentine regulatory authority for mooring the docks under specific conditions, as a source of technical information, while Mr Laaksonen noted that nuclear-powered icebreakers could also provide technical information. Mr Vaughan indicated that he had come across a code of conduct for nuclear-powered merchant ships, which might be a source of useful information.

Mr Lacoste requested the Secretariat to further collect technical information and acquire more knowledge on technical, legislative and institutional issues relating to barge-mounted nuclear power plants and to present a synthesis at the 29th CSS meeting [Action 28.7, Annex III].

5.07 Report on the legal nature of the safety standards

Mr Mrabit provided a presentation on the legal nature of the safety standards, in response to Action 27.3 of the 27th CSS meeting (see Annex V). Mr Mrabit's presentation is available on the CSS website.

Mr Gonzalez noted that INFCIRC/18/Rev.1 issued in 1976, remained valid, and that it emphasized the predominance of the BSS; it was never the intention that the BSS be one of many Safety Requirements publications. He also noted that the safety standards, although legally binding on the Agency's own operations but not legally binding on Member States, are de facto mandatory in many cases, and that the Commission must take this into account as it endorses draft standards.

Mr Mrabit agreed that indeed INFCIRC/18/Rev.1 had not been superseded, but noted that there had been an evolution in understanding regarding the standards, and that the BSS was now one of several Safety Requirements. He also agreed that both technical cooperation projects and project and supply agreements were subject to the safety standards.

Mr Delattre indicated that the paper on the legal nature of the standards would be included in SPESS.

5.08 Report on the appropriateness of establishing standards on the legal, governmental and regulatory framework

Mr Delattre provided a presentation on the appropriateness of establishing standards on the legal, governmental and regulatory framework, in response to Action 27.2 of the 27th CSS meeting (see Annex V). Mr Delattre's presentation is available on the CSS website.

Mr Gonzalez requested the Secretariat to discuss with the Permanent Mission of Argentina the

concerns first raised by the Argentine Governor at the Board and reiterated at the CSS on the report on the appropriateness of establishing IAEA Safety Requirements on the governmental, legal and regulatory framework for safety [Action 28.8, Annex III].

5.09 Report on the nature of the safety guides

Mr Delattre provided a presentation on the nature of the Safety Guides, in response to Action 27.7 of the 27th CSS meeting (see Annex V). Mr Virgilio also presented the views of the United States on the issue. Both Mr Delattre's and Mr Virgilio's presentations are available on the CSS website.

Mr Virgilio felt that the current definition of Safety Guides implies that a Safety Guide could be continually revised to include approaches that provide a higher and higher level of safety without "justification" based on safety, cost, and benefit - even though the associated requirement has not changed. Mr. Virgilio proposed a new definition for Safety Guides – that "the Safety Guides present an acceptable approach to meet the associated requirement. The approach presented is derived from international good practices, operating experience and lessons learned." – Mr. Virgilio felt that both continuous improvement and regulatory stability could be achieved, if the need for improvement is justified based on operational experience, engineering analyses and risk insights.

Mr Lacoste emphasized the need to retain the idea of continuous improvement and the idea that Safety Guides present recommendations on how to meet the requirements. He requested that the issue of the nature of the Safety Guides be addressed in more detail at the 29th CSS meeting [Action 28.11, Annex III].

Mr Vaughan informed the Commission that the related concept of safety goals would be discussed at the next NUSSC meeting, and encouraged members of the Commission to engage with the NUSSC representative of their respective countries on this issue.

5.10 Report on the translation of safety standards

Ms Asfaw provided a presentation on the current situation and practices with regard to translations of safety standards into official languages, in response to Action 27.4 of the 27th CSS meeting (see Annex V). Ms Asfaw's presentation is available on the CSS website.

Mr Gonzalez considered that it was the duty of the Agency to establish and disseminate safety standards in all official languages, and queried the Agency's priorities in this respect. He suggested that Safety Requirements that have been translated for the Board of Governors could be placed on the internet directly, before they are printed and that national professional societies could be called upon to provide translations of Safety Guides.

Mr Bannai also drew attention to the current project in Japan to translate a large number of safety standards into Japanese, under a contract between the Agency and JNES. Mr Vinhas urged that priority be given to the translation into official languages of Safety Guides of broader interest. In response to Mr Gonzalez's concerns, Mr Brach reaffirmed TRANSSC's support for the early and timely translation of the Transport Regulations.

Mr Lacoste agreed that under normal circumstances one would expect that all standards would be translated into all official languages as a matter of course, but recognized the need to establish priorities on the basis of their interest for a broad range of stakeholders.

5.11 Discussion on the Nuclear Energy Objectives draft publications on Nuclear General Objectives and Waste Management Objectives

Mr Pather felt that the impact of the safety standards could be diluted owing to the fact that the Nuclear Energy Series and the Safety Standards Series have such a similar format. He also considered that the approach of the Nuclear Energy Series, with very many high-level 'objectives', was contrary to the approach for the Safety Standards Series.

Mr Lacoste requested that the DDsG of NS and NE reassess the implementation of the Interoffice Memorandum (IOM) setting out the relationship between the Safety Standards Series and the Nuclear Energy Series. Furthermore, he requested that the draft Nuclear Energy Objectives be submitted for comment to the relevant Safety Standards Committees at their next meetings. He also indicated that the Chairs of the Committees and the Chair of the CSS would prepare a report for DDG NS on the result of the review [Action 28.9, Annex III].

Mr Gonzalez felt that this issue went deeper than could be solved by a single page setting out a common understanding. The question still arose of how to clarify the difference in tasks of the two departments, as established in the Statute of the Agency. He also felt that the aesthetic issues – the similar format – generated unnecessary confusion, and could easily be solved.

6. Feedback from the Commission on the Use of IAEA Safety Standards and Regulatory Issues

6.1 Topical discussion on future areas of work

The contributions were posted on the CSS web page and will remain available for all members on the web page (http://www-ns.iaea.org/committees/css/) in the folder for that agenda item.

Mr Vaughan made a presentation, in response to Action 27.13 of the 27th CSS (see Annex V), setting out the views of the United Kingdom on the future approach to the safety standards. In particular, he emphasized that a review of a safety standard should not automatically imply initiation of a revision of the standard. Mr Vaughan's presentation is available on the CSS website.

Mr Gonzalez stated his country's position that the future of the standards must be based on their quantification; that this was linked to the concept of 'safety goals', addressed earlier by Mr Virgilio; and that the place for such quantitative statements was not in other publications such as TECDOCs. Mr Lacoste and Mr Vaughan disagreed: the standards are qualitative (which doesn't necessarily mean subjective) in nature and this permits their continuous improvement in time.

Mr Lacoste requested the Safety Standards Committees to discuss the Member State contributions provided under this item of the agenda. The Chairs were also requested to review the presentation from UK on the future work on safety standards, and to include the results of the Committees' and Chairs' review in the respective three year reports to be discussed at the 29th CSS meeting [Action 28.10, Annex III].

6.2 Regulatory Issues in the Member States

As for item 6.1, many presentations on related regulatory issues had been provided in advance. The material will also remain available for all members in an archive file on the web page (http://www-ns.iaea.org/committees/css/) in the folder "Presentations provided by the CSS members".

6.3 Information on proposed common principles of Export of Nuclear Power Plants

Mr Laaksonen provided a presentation setting out information on an initiative from the industry relating to the establishment of common principles of conduct for export of nuclear power plants, which would make reference to the safety standards and also to industrial standards. Mr Laaksonen's presentation is available on the CSS website.

Mr Flory and Mr Lacoste reminded the Commission that these proposed principles of conduct were an initiative of vendors, rather than of Member States and was not submitted for comment. Mr Hashmi praised this as an initiative in self-regulation. He also mentioned long term operation of nuclear power plants, which Mr Laaksonen agreed was also recognized by the vendors as of great importance.

Mr Lacoste requested Mr Laaksonen to keep the Commission informed of the progress of the initiative.

7. Miscellaneous, Report of the Meeting, Date of the next Meetings

Mr Lacoste informed the Commission that a detailed list of actions resulting from the meeting would be issued within two weeks for comment [Annex III, Action 28.12].

He also informed the Commission that a draft report of the meeting would be prepared and sent for comment to the members [Annex III, Action 28.13].

Mr Lacoste, together with Mr Flory and Mr Gonzalez, thanked Ms Amaral for their effective work together and wished her well for the future.

The next meetings are planned to be held:

- from 25 to 27 May 2011 and

- in the week from 31 October to 4 November 2011

ANNEX I

PARTICIPATION AT THE 28TH CSS MEETING

The Commission

A.J. González, Argentina

M. Larsson, Australia

J.-P. Samain, Belgium

L.A. Vinhas, Brazil

R. Jammal, Canada (sent apologies – unable to attend)

Liu Hua, China (sent apologies – unable to attend)

M. B. F. Barakat, Egypt (unable to attend)

J. Laaksonen, Finland

A-C. Lacoste, (Chairman) France

D. Majer, Germany

S. S. Bajaj, India

I. Levanon, Israel

K. Nakamura, Japan (sent apologies – unable to attend)

C. H. Yun, Republic of Korea (sent apologies – unable to attend)

G. Maksimovas, Lithuania (now IAEA staff member)

M. S. Rahman, Pakistan (unable to attend)

D. Bryunin, Russian Federation (sent apologies – unable to attend)

G. Clapisson, South Africa

A.D. Gurguí Ferrer, Spain

M. Moburg, Sweden (sent apologies – unable to attend)

O. Mykolaichuk, Ukraine (sent apologies – unable to attend)

M. Weightman, United Kingdom (sent apologies – unable to attend)

M. Virgilio, United States of America

L. C. Dung, Vietnam (sent apologies – unable to attend)

Observers

J. A. Hashmi, AdSec

P. Faross, EC (sent apologies – unable to attend)

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

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

U. Yoshimura, OECD NEA

Chairpersons of Committees

G. Vaughan, NUSSC

S. Magnusson, RASSC

E. W. Brach, TRANSSC

T. Pather, WASSC

Representatives and associated experts

Mr Bannai, Mr Bozhko, Ms Collet i Campo, Mr Creswell, Ms Forest, Mr Gilchrist, Mr Ha, Mr Han, Mr Jamieson, Mr Janssens, Mr Jun, Mr Karasev, Mr Lachaume, Mr Ogiso, Mr Paulikas, Mr Rieman, Mr Ugayama, Mr Williams, Mr Zhuykov

IAEA Staff Members

Y. Amano, Director General

D. Flory, Deputy Director General, Department of Nuclear Safety and Security

E. Amaral, Director, Division of Radiation, Transport and Waste Safety (NSRW)

A. Nilsson, Director, Office of Nuclear Security (NSNS)

M. Lipar, Acting Director, Division of Nuclear Installation Safety (NSNI)

K. Mrabit, Head, Safety and Security Coordination Section (SSCS)

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

A. Al Khatibeh, H. Abou Yehia, G. Caruso, R. Czarwinski, P. Colgan, M. Gregoric, M. Modro, S. Samaddar, Mr Vamos, M. Vesterlind

K. Asfaw, V. Berkovsky, J. Boogaard, M. Gasparini, D. Graves, B. Jeannin, G. Jones, M. Kinker, Y. Martynenko, E. Reber, N. Tricot

Safety Standards coordinators

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

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

J. Stewart, Regulatory Infrastructure and Transport Safety Section (NSRW), TRANSSC

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

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

ANNEX II

AGENDA

Twenty eighth Meeting of the

COMMISSION ON SAFETY STANDARDS

30 September – 1 October 2010

VIC – Boardroom A M0237, 2nd floor in the M Building

1. Opening Session

1.1 Opening of the Meeting (14:00); *D. Flory; DDG-NS*

1.2 Introductions, Adoption of the Agenda, Adoption of the 26th CSS meeting report; *A.-C. Lacoste*

1.3 Administrative arrangements for the meeting, Status on the main topics for the 4th CSS term, Status of the endorsed Standards and Response to Actions from the 27th Meeting; *D. Delattre*

2. Presentations and Discussion of Reports of Safety Standards Committees

2.1 Nuclear Safety Standards Committee

G. Vaughan, Chairman/M. Svab, Scientific Secretary - NUSSC

2.2 Radiation Safety Standards Committee

S. Magnusson, Chairman/T. Colgan, Scientific Secretary - RASSC

2.3 Waste Safety Standards Committee

T. Pather, Chairman/G. Siraky, Scientific Secretary – WASSC

2.4 Transport Safety Standards Committee

E.W. Brach, Chairman/J. Stewart, Scientific Secretary – TRANSSC

3. Approval of draft publications and DPPs

3.01 Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report (DS396), *J. Boogaard*

3.02 National Strategy for Regaining Control over Orphan Sources and Improving Control over Vulnerable Sources (DS410), *E. Reber*

3.03 Orphan Sources and Other Radioactive Material in the Metal Recycling and Production Industries (DS411), *E. Reber*

3.04 Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations (DS417), *S.Samaddar*

3.05 Establishing the Safety Infrastructure for a Nuclear Power Programme (DS424), *D. Graves*

3.06 Periodic Safety Review of Nuclear Power Plants (DS426), *C. Toth*

3.07 DPP for an addendum to NS-R-5: appendix IV for Reprocessing Facilities and Appendix V for Fuel Cycle Research and Development Facilities (DS439), *G. Jones*

3.08 DPP for a new safety guide on Design of Auxiliary and Supporting Systems in Nuclear Power Plants (DS440), *N. Tricot and C. Toth*

3.09 DPP for the revision of the safety guide WS-G-2.3: Regulatory Control of the Releases of Radioactive Material from Facilities and Activities (DS442), *V. Berkovsky*

3.10 DPP for the revision of the safety guide NS-G-2.9: Commissioning for Nuclear Power Plants (DS446), *G. Vamos*

3.11 DPP for the revision of the safety guide WS-G-2.6: Predisposal Management of

Radioactive Waste from Fuel Cycle Facilities (DS447), *M. Kinker*

3.12 DPP for the revision of the safety guide WS-G-2.5: Predisposal Management of Radioactive Waste from Reactors (DS448), *M. Kinker*

4. Progress reports on safety standards and other safety related publications

4.1 Information on ICRP activities; *A. Gonzalez*

4.2 Information on the status of the revision of the BSS*; E. Amaral*

4.3 Information on AdSec activities; *J. Hashmi*

4.4 Information on INSAG activities, *J. Laaksonen*

4.5 Other information on recent activities from the Secretariat

5. Policy discussion

5.01 Report from the Joint AdSec CSS task Force meeting held on 29 September 2010; *co-chairs of the task force*

5.02 Resolution of CSS comments on the draft Nuclear Security Fundamentals, *G. Moore*

5.03 Revision of the Terms of Reference of the Safety Standards Committees and of the Commission on Safety Standards, *K. Mrabit*

5.04 Feedback from the Senior Regulators' meeting, *K. Mrabit*

5.05 Feedback on safety standards. Overview report, *D. Delattre and B. Jeannin*

5.06 Report on issues related to barge mounted NPPs, *M. Gasparini*

5.07 Report on the legal nature of the safety standards, *K. Mrabit*

5.08 Report on the appropriateness of establishing standards on the legal, governmental and regulatory framework, *D. Delattre*

5.09 Report on the nature of the safety guides, *D. Delattre*

5.10 Report on the translation of safety standards, *K. Asfaw*

5.11 Discussion on the Nuclear Energy Objectives draft publications on Nuclear General Objectives and Waste Management Objectives *(CSS Members)*

6. Feedback from the Commission on the application of safety standards and regulatory issues

6.1 Topical discussion on future areas of work; *(CSS Members)*

6.2 Regulatory Issues in the Member States; *(CSS Members)*

6.3 Information on a project to establish principles of conduct on export of nuclear power plants; *(J. Laaksonen)*

7. Miscellaneous, Report of the Meeting, Dates of the next meeting

ANNEX III

ACTIONS ARISING FROM THE 28th MEETING OF THE COMMISSION

28.1. The final report of the 27th CSS meeting to be posted on the safety standards web site. **[Action: Secretariat]**

28.2. The Secretariat to prepare a note clarifying issues relating to a recent proposal made to establish a safety ranking of reactors on the market and to provide it to the CSS members. **[Action: Secretariat]**

28.3. The Secretariat to assess whether the current process provides for a sufficient degree of independent review of the draft safety standards and to present the result at the 29th CSS meeting. **[Action: Secretariat with the Chairs of the Safety Standards Committees]**

28.4. The Secretariat to consider seeking co-sponsorship of the World Meteorological Organization for the Safety Guide on Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations (DS417). **[Action: Secretariat]**

28.5. WASSC to be involved for the review and approval of the draft Safety Guide DS446 on Commissioning for Nuclear Power Plants. **[Action: Secretariat]**

28.6. The Secretariat to select an area for a pilot implementation of the proposed feedback mechanism and to report at the 29th CSS meeting. **[Action: Secretariat]**

28.7. The Secretariat to further collect technical information and acquire more knowledge on technical, legislative and institutional issues relating to barge-mounted nuclear power plants and to present a synthesis at the 29th CSS meeting. **[Action: Secretariat, NS and OLA]**

28.8. The Secretariat to discuss with the Permanent Mission of Argentina the concerns raised by the Argentinean representative at the CSS on the report on the appropriateness of establishing IAEA Safety Requirements on the governmental, legal and regulatory framework for safety. **[Action: Secretariat]**

28.9. The draft Nuclear Energy Objectives to be submitted for comment to the relevant Safety Standards Committees at their next meeting in 2010. The Chair of the Committees and the Chair of the CSS to prepare a report for DDG NS on the result of the review. **[Action: Secretariat, Safety Standards Committees, Chairs of the Committees and the Commission]**

28.10. The Safety Standards Committees to discuss the Member State contributions to the item 6.1 of the agenda of the 28th meeting suggesting new or revised safety standards. The Chairs to review the presentation from UK on the future work on safety standards. The Chairs will include the results of the Committees' and Chairs review in the respective three year reports to be discussed at the 29th CSS meeting. **[Action: Secretariat, Safety Standards Committees, Chairs of the Committees]**

28.11 The proposal from the USA on the nature of Safety Guides to be added as an agenda item to be discussed at the 29th CSS meeting. **[Action: Secretariat]**

28.12. A list of actions resulting from the 28th CSS meeting to be provided for comment to the CSS members. **[Action: Secretariat].**

28.13. The draft report of the 28th CSS meeting to be posted for comment to the CSS web site. **[Action: Secretariat].**

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 submitted to MS consultation. Draft for the SSCs in June 2010
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: DPP for the SSCs in June 2010 Commissioning: DPP for the SSCs in 2010
3	Guidance and assistance related to the new applications of radiation sources	Items 68 to 76	DS408 being published DS409 published (SSG-8) DS410 and 411 for CSS endorsement DS419 and 420 expected for the SSCs early 2011 before MS consultation DPP DS434 for a safety guide on radioisotope production facilities being drafted, DPP approved by the CSS in March 2010
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	Final draft DS 426 on periodic safety review approved by the committees. Draft to be submitted to CSS in March 2011It includes the LTO aspects 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)
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 Meetings in October 2009, March 2010 and 29 September 2010
7	Assistance and additional safety guidance to countries dealing with expanded uranium exploration and mining	Item 83	DPP waiting for DS421 (see below) to assess the need
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	Draft DS 421 waiting for the revision of the BSS (radon)
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 waiting for the revision of the BSS.
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 REMAINING ACTIONS ARISING FROM THE 26th MEETING OF THE COMMISSION

26.5. A comprehensive report on IAEA feedback mechanisms for the safety standards to be provided to the 27th CSS meeting. **[Action: Secretariat**]. As requested, a presentation will be done on the feedback from operational experience. A more comprehensive report is submitted the 28th meeting. Agenda item 5.04.

26.7. Safety Standards Committees to put together a list of safety issues relevant to DS435 (Safety Guide on Small/Medium, Transportable and Floating Nuclear Power Plants) for the 28th CSS meeting. **[Action: Members of the SSCs].** Draft paper prepared and discussed at a meeting of the 4 SSCs Chairs in January 2010. Revised draft submitted for the June meeting of the SSCs and to the 28th CSS meeting. Agenda item 5.06.

26.11. Provide suggestions for updating the Terms of Reference for the Committees and the Commission with the goal of having approved Terms of Reference in place at the start of the new terms. **[Action: Members of the CSS and SSCs]**. Draft TOR prepared for the SSCs. Reviewed in June by the SSCs and at the 28th CSS meeting. Agenda item 5.03.

STATUS OF ACTIONS ARISING FROM THE 27th MEETING OF THE COMMISSION

27.1. The final report of the 26th CSS meeting to be posted on the safety standards web site. **[Action: Secretariat]** Done.

27.2. A report to be presented at the 28th CSS meeting on the discussion at the March 2010 Board of Governors on the appropriateness of establishing standards on the legal, governmental and regulatory framework; and the record of the Board in this respect to be attached to the report of the 27th CSS meeting. **[Action: Secretariat]** Done, agenda item 5.08.

27.3. A report to be presented at the 28th CSS meeting on the legal nature of the standards **[Action: Secretariat]** Done, agenda item 5.07.

27.4. A report to be presented at the 28th CSS meeting on the current situation and practices regarding translations of standards into official languages. **[Action: Secretariat]** Done, agenda item 5.10.

27.5. DS354 (draft Safety Requirements on Disposal of Radioactive Waste) to be modified in accordance with the proposal from the Russian Federation and it to be resubmitted to the Board of Governors for approval at its next meeting. **[Action: Secretariat]** Done, DS354 approved by the BoG in June 2010.

27.6. The CSS to be kept informed of progress of the Joint AdSec CSS Task Force. **[Action: Secretariat and co-Chairs of Joint Task Force]** Agenda item 5.01.

27.7. A discussion on the objectives of a Safety Guide to be included as an agenda item for the 28th CSS meeting. **[Action: Secretariat]** Agenda item 5.09.

27.8. As a follow-up to action item 27.7, a guidance manual for drafters of Safety Standards to be developed, to include guidance for drafters, including a flow chart to assist drafters **[Action: Secretariat]** Done, Guidance for drafter prepared and discussed at the meeting of the four Chairs on 28 September 2010. Will then be discussed by the Committees end of 2010.

27.9. The SPESS document to be updated, according to the progress of the Joint AdSec CSS Task Force, so as to include the interface between nuclear safety and nuclear security **[Action: Secretariat]** Will be done according to the progress of the Joint AdSec CSS Task Force.

27.10. Future draft editions of the Transport Regulations to be provided in full in all official languages for approval at the Board of Governors. **[Action: Secretariat]** Table of changes will be provided to the Board but full version will be made available on request for users

27.11. The discussion on the revised Terms of Reference for the Safety Standards Committees and the CSS held under agenda item 5.6 to be summarized and sent to CSS members for information **[Action: Secretariat]** Done. Comments incorporated and the final text for item 5.6 of the 27th meeting included in the report of the meeting.

27.12 The four Safety Committees to review the proposed revisions of the Terms of Reference at their June 2010 meetings, and to present the proposed revisions to the 28th CSS meeting for review/approval, with the goal of having the revised Terms of Reference in place for the new SSC terms that begin January 2011. **[Action: SSC Chairs]** Done, agenda item 5.03.

27.13 Each CSS member to provide a paper, based on the needs of their Member State, suggesting new or revised Safety Standards and future areas of work, to be used as input for the end of term report of the SSCs and the main topics to be addressed during the 5th CSS term. **[Action: CSS members]** Template provided by USA. Other input from a few CSS members. Agenda item 6.1

27.14. A list of actions resulting from the 27th meeting to be provided for comment to the CSS members. **[Action: Secretariat].** Done. Comments incorporated and list of actions included as annex IiI of the report of the 27th meeting. Agenda item 1.2

27.15. The draft report of the 27th CSS meeting to be posted for comment to the CSS web site **[Action: Secretariat].** Done, agenda item 1.2.