2007-06-07

Commission on Safety Standards
Twentieth Meeting
21-22 November 2006
IAEA Headquarters, Vienna
Report of the Meeting

1. Opening

Mr. Taniguchi opened the 20th Meeting of the Commission on Safety Standards, extending a warm welcome to the participants and in particular to Mr. Gonzalez from Argentina as new a member of the Commission. He presented an overview of recent activities and informed the Commission of a number of important events relating to the safety standards including:

- September 2006 Session of the Board of Governors (BoG), review and approval of the Fundamental Safety Principles and the Safety Requirements on Decommissioning of Facilities Using Radioactive Material.
- A special 50th anniversary event on Assurance of Supply was held during the General Conference to discuss challenges associated with multi-national approach to fuel cycle facilities.
- A Forum of INSAG to discuss Safety Infrastructure for countries embarking/expanding NPP programmes.
- First full scope Integrated Regulatory Review Services (IRRS) mission conducted in France during 6-17 November 2006 with other IRRS missions planned for Australia, Canada, Japan, Pakistan, Peru, and Spain.
- The concurrent completion of the present term of the Commission and committees at the end of 2007.

2. Introduction, Adoption of the Agenda and Report of the 19th Meeting

Mr. Lacoste, Chairman of the Commission, welcomed the participants and informed them that several additional topics have been suggested by members for inclusion as part of the Agenda. The CSS considered the suggestions and made the following recommendations, reflected in the approved agenda attached as Annex I[1].:

1. Suggestion: to include a presentation on Status of ICRP Recommendation
   Decision: Agreed to be included between current items 3 and 4.

2. Suggestion: to include consideration of 'Stakeholder' in connection with the request made by INSAG.
   Decision: to include a preliminary discussion of the topic as item 10.3 of the Agenda.

3. Suggestion: to include consideration of TECDOCs and the important role they play for information exchange on various topics.
   Decision: to give further consideration to the topic as part of the discussion of beyond the action plan, as was requested specifically by CSS in June 2006 [Annex II, 20.1]. The Secretariat informed the CSS that there was no intention to stop production of TECDOCs, however, as a transitory measure the production of TECDOCs was slowed down to divert

[1] The agenda items were renumbered accordingly.

resources and to give priority to the completion of Safety Standards particularly in areas where Safety Standards do not exist. The Secretariat is also considering a more rigorous approach to the production of TECDOCs.

4. Suggestion: to include consideration of Codes of Conduct and their development process.
   Decision: CSS requested the Secretariat to prepare a report on Codes of Conduct including their status, added value and development process for consideration at the next meeting. [Annex II, 20.2]

5. Suggestion: to include consideration of 'the way forward' for the future of the safety standards structure taking into account the need for stability particularly for Member States who have adopted/adapted the IAEA safety standards.
   Decision: to be considered as part of the discussion of the beyond the action plan.

6. Suggestion: to include discussion of the applicability of requirements for design of nuclear power plants for existing Gen II plants and for the next generation of Gen III plants and new reactor designs.
   Decision: This should be considered in detail when the DPP for NPP Design Requirements is prepared and presented for review to NUSSC and Commission. [Annex II, 20.3].

With these considerations the Agenda for the 20th Meeting of the Commission was approved.

The draft report of the 19th Meeting was considered. It was decided to replace the 2nd para. of section 8.1 by 'A revised draft of the Safety Fundamentals was distributed at the meeting and reviewed in detail by the Commission and various changes agreed, including a change in the title of Principle 3 to 'Leadership and Management for Safety' and in Principle 8 to add "and mitigate" after "to prevent". Subject to the incorporation of such changes, the Commission endorsed the submission of the revised Safety Fundamentals to the BoG for approval. The Secretariat noted that the paper would still be subject to further review by the cosponsors and by the internal clearance process before submission to BoG. The Commission agreed that any proposed further changes arising from these reviews should be considered by the special group and if significant brought forward for the attention of all members of the Commission.

The report of the 19th meeting was approved with the above modification. [Annex II, 20.4].

3. Overview of Activities in the Department of Nuclear Safety and Security

3.1. Nuclear Installation Safety

Mr. Guerpinar informed the Commission of the intent to integrate the engineering review as well as safety assessment services, and the recent retreat of NSNI Section Heads who considered in detail the development and application of safety standards and the issues related to beyond action plan and the structure of the safety standards.

3.2. Radiation, Transport and Waste Safety Issues

Ms. Amaral presented an overview of safety standards and related issues including the results of the steering committee meeting on denial of shipment, held from 14-16 November to consider an international action plan to address the issues involved including defining roles and responsibilities, and a set of actions on Member States regarding training and awareness of professionals at airports and ports and harmonization of national regulations; she insisted that organisations concerned should report the problems identifying their causes. It was also decided to set a strategy to lobby on the beneficial uses of radioactive material. Ms. Amaral also informed the Commission of IAEA activities related to naturally occurring radioactive material and control of sources.

3.3. Incident and Emergency Centre

Mr. Stern informed the Commission of the recent arrangements, activities and future directions of the Incident and Emergency Centre and invited the members to visit the centre. His presentation of future directions to the Commission included negotiation for a new Code of Conduct.

Several members questioned the need for codes of conduct in particular on the topic of incidents and emergency when there are two separate conventions related to the topic already in place. It was agreed that the Chairman would bring to the attention of the Director General the concerns expressed in connection with the code of conduct.

Later at the meeting, the Chairman informed the Commission that the issue was raised during his meeting with the Director General.

4. Status of ICRP Recommendations

Mr. Holm informed the Commission on the progress related to the new ICRP recommendations. He indicated that a new draft would be made available on the ICRP web site in January 2007 and that the approval by the Main Commission is expected in March 2007.

5. Beyond the Action Plan Progress Report: Overview of the Structure of Safety Standards

Mr. Lederman informed the Commission that in response to the request made at the Commission's meeting in June 2006 a report on the topic was prepared by the Secretariat and submitted to the committees for review. There is general consensus by the committees that further discussion would be needed before a complete structure can be approved. Therefore, a progress report was presented at this meeting which includes:

- A proposed structure and a proposed 'closed set' of standards;
- Issues related to the format of Safety Requirements and transition to the new structure;
- Comments and views from the committees.

The Commission discussed the report and the issues raised by Mr. Lederman as part of his presentation. There was general agreement that the report provides a good basis for further work. During this in-depth discussion with wide participation from the members of the Commission, several important aspects were addressed such as the opportunity, with the publication of the unified Safety Fundamentals, to better integrate nuclear and radiation safety (see also 9.1 below), to review the structure using an evolutionary and top-down approach, the need for a careful and stepwise transition to the future structure, the need for a more rigorous process for the introduction of new publications, in particular Safety Guides, the need to maintain an adequate level of stability, the need to streamline the preparation and review process and the need to better define what is a Safety Requirements and their format.

Among the options discussed, Ms. Amaral made a challenging presentation, followed by a broad discussion, on the opportunity given by the establishment of the new Safety Fundamentals and the revision of the BSS to think about a revised BSS, expanding its current requirements with all the new so-called thematic requirements. The subject was also considered by RASSC and WASSC (see 6.2 and 6.3 below). This was further addressed by the Commission under item 9 of the agenda (see below).

It was decided to establish a subgroup composed of the Committee Chairmen, the CSS bureau (CSS Chairman, Mr. Holm and Mr. Pereira) and the Secretariat to consider the structure and the related

issues with the aim of arriving at a revised structure for review and approval at the next CSS meeting. [Annex II, 20.5].The approved terms of reference for the subgroup are attached (see Annex III).

6. Presentations and Discussion of Reports of Safety Standards Committees

6.1. Nuclear Safety Standards Committee (NUSSC)

Mr. Reiman informed the Commission that NUSSC at its 22nd meeting had intensive discussion of the Secretariat proposals for the structure and for Beyond the Action Plan. NUSSC considers the secretariat proposal to be a good starting point and would like to consider the topic further and review a detailed transition plan at its next meeting. NUSSC performed a preliminary review and provided comments on all safety standards included in the 'closed set' of standards proposed by the Secretariat.

The DPP for the revision of the BSS and four draft safety standards were reviewed by NUSSC. The DPP and a draft safety requirements (DS316[2]) were approved for submission to the Commission; draft safety guides DS349 and DS376 were approved for submission to Member States. All these documents were also approved by RASSC and WASSC. The draft safety guide DS382 was not approved. NUSSC requested the technical officer to include 'obsolescence' as part of the scope and consider aspects related to long term operation. Mr. Abe pointed out that NUSSC should carefully consider comments made by the Commission at the time of approval of the DPP. It was pointed out the final form of the draft standards reviewed (separate Safety Guides or part of revision of existing Guides) will depend on the decisions made regarding the 'closed set' of standards. The Commission was also informed that a joint meeting of NUSSC, RASSC and WASSC is planned for next April.

6.2. Radiation Safety Standards Committee (RASSC)

Mr. Magnusson informed the Commission of the review of the report on Beyond the Action Plan and the approval of the DPP for revision of the BSS for submission to the Commission. In connection with the review of both topics RASSC has considered the possibility to merge several Safety Requirements into one single set of essential requirements. RASSC, however, found it difficult to comment on the 'closed set' of Safety Guides until the list of Safety Requirements is finalized.

The Commission considered the topic, it is generally agreed that integration of one or more of the thematic Safety Requirements into one would be beneficial; however, the effort involved should not delay the development of Safety Requirements for different areas of radiation protection and nuclear safety. Priority should be given to development of requirements for separate topics with the aim of considering their possible integration at an appropriate time. In addition to draft Safety Standards mentioned under NUSSC, the DPP for revision of Transport Regulations (DS345) and draft Safety Guide DS315 Application of the Management System for Technical Services were approved for submission to the Commission.

6.3. Waste Safety Standards Committee (WASSC)

Mr. Pather informed the Commission that WASSC reviewed the report on Beyond the Action Plan and provided similar comments as those of RASSC. However, WASSC was of the opinion that 'Restructuring alone could not solve the proliferation of the Safety Guides. It considered that the number of the Safety Guides could be reduced with the current structure by reviewing the newly proposed DPPs in more detail before approving them.' WASSC also recommended that the development of those draft safety standards that had already been in preparation should be continued and they should be published as soon as possible, and the DPPs that had not been approved by the CSS should be submitted to the CSS with clear justification. WASSC used the web site for comment

[2] DS316 Safety of Fuel Cycle Facilities, Safety Requirements
DS349 Application of the Management System for Nuclear Facilities and Activities, Safety Guide
DS376 Safety Assessment for Decommissioning of Nuclear Facilities, Safety Guide
DS382 Ageing Management for Nuclear Power Plants and Research Reactors, Safety Guide

for the first time, and the members found it very useful. WASSC recommended that other Committees should also use the web site.

6.4. Transport Safety Standards Committee (TRANSSC)

Mr. Duffy informed the Commission of the outcome of the last TRANSSC meeting and the status of draft safety guides related to transport. TRANSSC approved the DPP for the revision of BSS and considered the report on Beyond the Action Plan. Following questions Mr. Duffy informed the Commission that a response to a letter from the French representative to TRANSSC concerning the possible publication of a revised TS-R-1 in 2009 is being prepared by the Chair and the Secretariat, indicating among other things that a review of TS-R-1 2005 Edition would not necessarily lead to a publication of TS-R-1 in 2009. The Chairman noted that CSS would wish to be informed in case early publication is foreseen.

7. The Use of Safety Standards and Related Regulatory Issues

Experience on the use of Safety Standards and related regulatory issues provided by the members of the Commission were distributed. Several members noted with concern the frequent incidents and accidents affecting patients undergoing radiation diagnostic and radiotherapy procedures. At the end of the meeting, the Chairman concluded that the radiological protection of patients is an issue of particular importance requiring special attention by the Commission at a future meeting to discuss in detail Safety Requirements and Safety Guides to be developed in this area. [Annex II, 20.6]

It was also agreed that this item of the agenda be split into two separate items (SS application and regulatory issues) at future meetings of the Commission. [Annex II, 20.7].

8. Status of the Endorsed Standards and Response to Actions from the 19th Meeting

The Scientific Secretary informed the Commission of the publication of the Fundamental Safety Principle (SF-1), the Safety Requirements on the Management System for Facilities and Activities (GS-R-3), the Safety Requirements on Decommissioning of Facilities Using Radioactive Material (WS-R-5) and two Safety Guides on Application of the Management System for Facilities and Activities (GS-G-3.1) and Release of Sites from Regulatory Control on Termination of Practices (WS-G-5.1). Seven additional Safety Guides approved by the Commission are at final stages of publications.

The Commission was provided with information in connection with actions arising from the last meeting, which have now been completed.

9. Document Preparation Profiles for Approval

9.1. Revision of International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources (DS379); Safety Requirements

Ms. Amaral, technical officer, presented the DPP for this Safety Requirements. The DPP had been approved by the four Committees.

Mr. Tanaka from the OECD/NEA distributed a paper entitled “Joint views of the cosponsoring organisations for the attention of the CSS” (see Annex IV) and highlighted the following views:

- The BSS should be revised;
- The revision process must include the active and continuous participation of all cosponsoring organizations;
- The participation of the cosponsors is essential to preserving the value of the BSS as a truly internationally agreed and applied set of requirements.

The Secretariat provided clarification on the role of the cosponsors in response to a request for further information by the Commission. In particular, it was recognized by the cosponsors that the IAEA is the lead organization in the development of the revision of the BSS. Nevertheless, the secretariat to coordinate the revision, while being a non-decisional body, will ensure appropriate coordination with the cosponsors with a key facilitating role in resolving potential issues and building consensus.

The Commission requested that the criteria for changes to the DPP be attached to the DPP. The Commission approved the DPP for a Safety Requirements focussed on radiation protection requirements and requested to be informed regularly of the status and issues related to its development. [Annex II, 20.8].

10. Other Business

10.1. Safety of Nuclear Power Sources in Outer Space

Mr. Harbison, Chairman of the working group on Nuclear Power Sources of the Scientific and Technical Subcommittee of COPUOS (Committee on Peaceful Uses of Outer Space) presented an overview of the activities of the working group and in particular the proposal to develop, in co-operation with the IAEA and the CSS, a framework on the safety of Nuclear Power Sources in Outer Space. The structure of the framework had yet to developed but might consist of one “fundamentals” type document and one or more subsequent, more detailed documents.

The Commission supported the cooperation between the IAEA and COPUOS noting that the specific expertise of COPUOS in space NPS matters would complement the IAEA’s expertise in establishing nuclear safety standards. The need for a separate Safety Fundamentals considering the recently published SF-1 was questioned. Mr. González requested that the focus of the future framework should be more on the “close orbits” rather than on “outer space” so as to address the need for the majority of Member States.

A more detailed DPP would be examined at the next meeting. The review process will also be discussed at the same time. [Annex II, 20.9].

At this occasion, concerns were also expressed on the intent to develop another Fundamental document on top the IAEA Security Series.

10.2. Generic Text for inclusion in all Safety Standards, *A. Karbassioun*

The Scientific Secretary presented a proposal to revise the generic text to take into account inter alia the publication of the Fundamental Safety Principles. The Commission welcomed the proposal. The members are invited to provide comments on the proposal to the Scientific Secretary. [Annex II, 20.10]. The text should be reviewed carefully also by the committees and will include the new structure for the Safety Standards as soon as it agreed upon.

10.3. Requirements for Stakeholders

Mr. Loy noted INSAG’s invitation to the CSS to consider issuing requirements and guides on stakeholder involvement in decision making. A preliminary discussion took place indicating the difference between producing information exchange documents on good practices and publishing Safety Standards. Activities in this field held at the NEA were also briefly presented. The Secretariat was requested to prepare a report for discussion at the next meeting. [Annex II, 20.11]. At this occasion, some members expressed concerns about the applicability of the Requirements from the GS-R-3 publication, particularly on stakeholder involvement. This issues should be further addressed at future meetings as part of the experience feedback collection and analysis process.

11. Dates of Meetings in 2006 and Agenda for the next Meeting

The schedule of the meetings of the Commission and the committees for 2007 is as follows:

Commission	5-6 June	26–28 November
NUSSC	10-12 April	1-3 October
RASSC	10-13 April	15-19 October
WASSC	10–13 April	15-19 October (Brazil)
TRANSSC	12-16 March	1-5 October

ANNEX I

AGENDA

Twentieth Meeting of the
COMMISSION ON SAFETY STANDARDS
21– 22 November 2006

Meeting Room CO2-I, IAEA Headquarters, Vienna

1. Opening of the Meeting (10:00)
   T. Taniguchi; DDG-NS

2. Introductions, Adoption of the Agenda and Approval of Report of the 19th Meeting;
   A-C. Lacoste

3. Overview of the Activities in the Department of Nuclear Safety and Security
   - 3.1 Radiation, Transport and Waste Safety, *E. Amaral, DIR-NSRW*
   - 3.2 Nuclear Installation Safety, *A. Guerpinar, A/DIR-NSNI*
   - 3.3 Incident and Emergency Centre, *W. Stern NS-IEC*

4. Status of the ICRP Recommendations, *L.-E. Holm*

5. Beyond the Action Plan Progress Report: Overview of the Structure of Safety Standards; *L. Lederman*

6. Reports of Safety Standards Committees
   - 6.1 Nuclear Safety Standards Committee
     L. Reiman, Chairman/G. Feige, Scientific Secretary - NUSSC
   - 6.2 Radiation Safety Standards Committee
     S. Magnusson, Chairman/T.J. Boal, Scientific Secretary - RASSC
   - 6.3 Waste Safety Standards Committee
     T. Pather, Chairman/K. Hioki, Scientific Secretary – WASSC
   - 6.4 Transport Safety Standards Committee
     J. Duffy, Chairman/M. Wangler, Scientific Secretary – TRANSSC

7. The Use of Safety Standards and Related Regulatory Issues; *(CSS Members)*

8. Status of the endorsed Standards and Response to Actions from the 19th Meeting; *Karbassioun*

9. Document Preparation Profiles for Approval
   - 9.1 Revision of Basic Safety Standards (DS379); Safety Requirements
     E. Amaral, Technical Officer

10. Other business
    - 10.1 Safety of Nuclear Power Sources in Outer Space *S. Harbison*
    - 10.2 Generic Text for inclusion in all Safety Standards, *A. Karbassioun*
    - 10.3 Requirements for Stakeholders, *J. Loy*

11. Report of the Meeting, Date of Meetings.

ANNEX II

ACTIONS ARISING FROM THE MEETINGS OF THE COMMISSION

20.1. To give further consideration of TECDOCs and the important role they play for information and knowledge exchange on various topics as part of the discussion of the beyond the action plan and report to CSS in June 2007 (Ref. *Item 2, bullet 3).* **[Action: Secretariat]**.

20.2. CSS requested the Secretariat to prepare a report on Codes of Conduct including their status, added value and development process for consideration at the next meeting. (Ref. *Item 2 bullet 4).* **[Action: Secretariat]**.

20.3. To discuss whether the requirements for design of nuclear power plants serve for existing Gen II plants and for the next generation of Gen III plants and new reactor designs. This should be considered in detail when the DPP for design requirements is prepared and presented for review to NUSSC and the Commission. (Ref. *Item 2 bullet 6).* **[Action: Secretariat]**.

20.4. To revise and issue the report of the 19th meeting of the Commission (ref. *Item 2, last paragraph*) **[Action: Secretariat]**.

20.5. To prepare and present at the next meeting a report on the results of the subgroup on the structure and related issues and on the results of the consultation of the Committees. (ref. *Item 4, last paragraph*) **[Action: Secretariat]**.

20.6. Frequent incidents and accidents in medical application of radiation sources is considered to be of particular importance requiring special attention by the Commission at a future meeting to discuss in detail Safety Requirement and Safety Guide to be developed on the topic. (Ref. *Item 7).* **[Action: Secretariat]**

20.7. The item on "use of Safety Standards" to be split into two separate items in the agenda for the next meetings of the Commission. (ref. *Item 7, last paragraph*) **[Action: Scientific Secretary]**.

20.8. Progress reports on the development of the draft DS379 to be presented at future meetings of the Commission. (Ref. *Item 9.1).* **[Action: Secretariat]**

20.9. The results of the meeting of the COPUOS/STSC and a DPP for a framework to be presented at the next meeting. (Ref. *Item 10.1).* **[Action: COPUOS/STSC/working group in co-operation with the IAEA Secretariat]**

20.10. Comments on the revised generic text for Safety Standards to be sent to the Scientific Secretary. (Ref. *Item 10.2).* **[Action: CSS members]**

20.11. A report on the consideration of stakeholder involvement in decision making to be presented at the next meeting. (Ref. *Item 10.3).* **[Action: Secretariat]**

ANNEX III

Follow-up Actions in Connection with Agenda Item 4
(Beyond the Action Plan on the Development and Application of Safety Standards)

The Fundamental Safety Principles has provided a major opportunity to achieve a better integration of nuclear safety and radiation protection in Safety Standards, to take a top-down approach for further development of Safety Standards in order to improve the structure and to avoid proliferation of Standards. There is general agreement with the progress report presented at the 20th CSS meeting. The report provides a good basis for a detailed review of the structure and consideration of the related issues.

A subgroup composed of the Committee Chairmen, the CSS bureau (CSS Chairman, Mr. Holm and Mr. Pereira) and the Secretariat will consider the structure and the related issues with the aim of arriving at a revised structure for review and approval at the next CSS meeting. The subgroup will:

- Identify the set of necessary Safety Requirements and take an evolutionary approach for their development.
- Consider development of a better distinction between what is a requirement and what is considered as guidance (a more rigorous approach to shall and should).
- Assign priority to the completion of the necessary Safety Requirements over the Safety Guides.
- Propose a unified format for the drafting of Safety Requirements.
- Consider harmonization and integration of all thematic requirements and propose a timetable for this integration.
- Define the 'closed set' of safety guides to be developed.
- Develop criteria for managing the transition period with a clear plan of action for minimizing the burden on the Member States and the committees for review of draft standards.
- Assign priorities for the development of the individual Safety Guides within the 'closed set' and identify the relevant committees for their review.

Review of structure alone is not sufficient to make the process more efficient and to arrive at a 'closed set' of standards. The subgroup should also propose means of improving the efficiency of the process by adopting a more rigorous process for identifying needs for new documents and for the review of draft Standards.

The members of the commission and the committees will be consulted and requested to provide input on all aspects related to the work of the subgroup.

The subgroup will meet on the afternoon of 22 November 2006 and again in early 2007 to consider the input from members of the committees and to prepare a draft report on the topic for submission to the committees for review at their next meeting. A final report will then be prepared for review and approval by the Commission at its meeting in June 2007.

ANNEX IV

Information Note from the Secretariat to Coordinate the Revision of the BSS

Joint views of the cosponsoring organisations for the attention of the CSS

20 November 2006

In conjunction with the recent meeting of the October 2006 meetings of RASSC and WASSC, there was a meeting of the cosponsoring organisations of the current BSS and of several other international organisations that have been invited to cosponsor the revision of the BSS. The organizations that joined the IAEA in these discussions were OECD/NEA, FAO, WHO, PAHO, ILO, EC and UNEP. These members of the Secretariat to Coordinate the Revision of the BSS agreed that the following views should be presented to the CSS during its discussion of the possible revision of the BSS.

The current BSS (IAEA Safety Series 115) is a unique document in that it has been uniformly supported and implemented by a wide variety of stakeholders. This is due, in large measure, to the document's broad-based ownership and consistent application by many international organisations. This ownership was achieved by having the cosponsoring organisations continually and directly involved in the document's development.

While noting that the IAEA CSS has not yet decided whether to endorse the proposal of its advisory committees to revise the BSS, the other current BSS cosponsoring organisations, as well as the possible additional cosponsors, agree that the current BSS should be revised.

The members of the Secretariat to Coordinate the Revision of the BSS further agree that it is important to maintain the uniform support and implementation that the current BSS enjoys. This can be achieved again only through the active involvement of cosponsoring organisations in the document's development through this Secretariat.

This Secretariat has been established, addressing the September 2006 IAEA General Conference resolution "…that the revision of the BSS is to be coordinated by a secretariat established by the Agency with the participation of the cosponsors, and urges that secretariat to carefully consider and justify potential changes, taking into account their implications for national regulations."

While it is clear that the IAEA is the central organisation in this process, and will lead the development of the BSS revision, the Secretariat to Coordinate the Revision of the BSS is an essential, non-decisional body that will facilitate the BSS revision and assure that all relevant viewpoints are taken into account in developing draft text. More importantly, this Secretariat will ensure that there are no conflicts with existing international instruments developed by cosponsoring organisations, and will appropriately ensure that any disagreements between cosponsoring organisations are fully addressed and resolved in a timely fashion. The Inter-Agency Committee on Radiation Safety is another forum that may also be able to facilitate the resolution of such issues.

Final approval of the revised BSS will be made by each cosponsoring organisation through its own mechanisms. This approach will facilitate broad review and acceptance of the final BSS by the different constituencies represented by the cosponsoring organisations (e.g. health ministries by the WHO and PAHO, labour ministries, employers and employees by the ILO, etc.). The importance of the BSS mandates that the document's revision and eventual approval proceed at an active pace, while taking the time needed to develop consensus.

We believe that these points can only be assured through the active and continuous participation of all BSS cosponsors in the document's development as equal partners in this Secretariat.

PARTICIPATION

The Commission

A.J. González, Argentina
J. Loy, Australia
A. Souza de Assis, Brazil (sent apologies – unable to attend)
J.K. Pereira, Canada
G. Li, China (sent apologies – unable to attend)
D. Drabova, Czech Republic
K. Ulbak, Denmark
S.B. Abdel-Hamid, Egypt
A-C. Lacoste, (Chairman) France
D. Majer, Germany
S. K. Sharma, India
I. Levanon, Israel
K. Abe, Japan
Y-S. Eun, Korea, Republic of (sent apologies – unable to attend)
J. Hashmi, Pakistan
A. Malyshev, Russian Federation (sent apologies – unable to attend)
M.T. Magugumela, South Africa
G.A. Azuara, Spain (sent apologies – unable to attend)
L-E. Holm, Sweden
U. Schmocker, Switzerland
M. Weightman, United Kingdom (sent apologies – unable to attend)
M. Virgilio, United States of America

Participants from International Organizations

C. Waeterloos, European Commission
L-E. Holm, International Commission on Radiological Protection
T. Tanaka, OECD Nuclear Energy Agency

Chairmen of Committees

L. Reiman, NUSSC
S. Magnusson, RASSC
J. Duffy, TRANSSC
T. Pather, WASSC

Representatives and associated experts

G. Lamarre, D. Delattre, Ms. C. Feltin, T. Nishiyama, Y. Kiryu, Z. Ogiso, Ms. I. Kaliberda, J. Barceló Vernet, L. Santoma, P. Meyer, A. Hall, Ms. B. Sosa.

Committee on the Peaceful Uses of Outer Space

S. Harbison
L. Summerer
S. Negoda

IAEA Staff Members

T. Taniguchi, Deputy Director General, Department of Nuclear Safety and Security
A. Gűrpinar, Acting Director, Division of Nuclear Installation Safety (NSNI)
E. Amaral, Director, Division of Radiation, Transport and Waste Safety
L. Lederman, Head, Safety and Security Coordination Section (SSCS)
W. Stern, Head, Incident and Emergency Centre
G. Feige, Policy and Programme Support Section (NSNI)

K. Hioki, Waste Safety Section (NSRW)
K. Varley, Radiation and Transport Safety Section (NSRW)
T. Boal, Radiation and Transport Safety Section (NSRW)
A. Karbassioun, Scientific Secretary, Safety and Security Coordination Section