2005-12-09

Commission on Safety Standards
Eighteenth Meeting
28-29 November 2005
IAEA Headquarters, Vienna
Report of the Meeting

1. Opening

Mr. Taniguchi opened the 18th Meeting of the Commission on Safety Standards, extending a warm welcome to the participants, and introduced Ms. Eliana Amaral, the Director of the Division of Radiation, Transport and Waste Safety. Mr. Taniguchi presented an overview of the work of the Commission and the related activities including:

- Achievements during the first half of the current term of the commission and priorities for the second half, in particular the planned completion of the Safety Fundamentals and the start of work on the revision of Basic Safety Standards (BSS) in 2006.
- The 49th IAEA General Conference:
  - Resolutions relating to safety and security;
  - The Senior Regulators' Meeting; and
  - The Scientific Forum.
- The Nobel Peace Prize for 2005 awarded to the IAEA and its Director General, Mohammed ElBaradei

2. Introduction, Adoption of the Agenda and Report of the 17th Meeting

Mr. Lacoste, the Chairman of the Commission, welcomed the participants. The Agenda for the 18th Meeting of the Commission was approved. The approved agenda is attached as Annex I. The draft report of the 17th Meeting was approved.

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

3.1. Nuclear Installation Safety

Mr. Brockman informed the Commission of the appointment of three new Section Heads (Messrs. Abou Yehia, Caruso and Viktorsson) and presented an overview of recent activities including:

- The regional workshop on external flooding held in Kalpakkam, India;
- Highlights from the General Conference, including the recognition of safety standards, a call for improved regulatory effectiveness and the need to address mutual impacts of safety and security recommendations;
- The work plan of INSAG;
- The conference on operational safety to start on Wednesday 30 November; and
- Significant progress towards completion of safety standards in the areas of research reactors and fuel cycle facilities.

3.2. Radiation, Transport and Waste Safety Issues

Ms. Amaral informed the Commission of the status of the work and the work plan for the review and revision of the BSS (this was discussed in more detail under item 7.2). Ms. Amaral outlined her vision and strategy for the Division and challenges for the future.

Vision and strategy for NSRW:

- Wide acceptance and use of safety standards;
- Worldwide adherence to safety related conventions and codes of conduct;
- Sustainable radiation safety knowledge and culture particularly through networking to gain confidence and upgrade related knowledge regionally;
- Promotion of safety related conventions through regional seminars; and
- An integrated approach to the appraisal system of national radiation safety infrastructures.

Challenges:

- Financial constrains;
- Limited extrabudgetary resources for safety in comparison to security;
- Increasing the focus on security could be at the expense of work on safety.

Ms. Amaral also informed the commission that 77 States currently support the Code of Conduct for Safety and Security of Sources, while the support of export/import guidance is limited to 10 States.

The Commission took note of the low number of States supporting the export/import guidance and requested to be informed of the status at its future meetings [Annex II, 18.1].

The Commission started a discussion on the importance of distinguishing in the standards between security aspects of safety and security itself, and the commonality between both; it also discussed the relevance of co-sponsorship of the Safety Standards to their wider use.

3.3. Update on Policy Issues Related to Safety Standards

Mr. Lederman presented an update of the policy issues related to the safety standards covering the following:

- Reviewing and Revising the Transport Regulations (GOV/2005/3);
- Coverage of Security Provisions in the IAEA Safety Standards;
- Policy and Strategy for Development of Safety Guides, TECDOCs and Safety Reports;
- Integration of Regulatory Review Services.

The Commission welcomed the Board's approval and the Secretariat's efforts in developing policies for these important issues and requested to be kept informed of their progress at future meetings.

It was generally agreed that more should be done to promote 'synergy' between safety and security and a common 'safety and security culture'. The Commission also pointed out that at the level of

practical regulations, safety and security are dealt with together, while at level of philosophy and approach they are considered separately.

The Commission requested the Secretariat to improve the exiting draft policy and to prepare, for discussion at the next meeting, a report on mutual responsibilities between safety and security [Annex II, 18.2].

The Chairman requested the members to provide the Secretariat with the best available experts for the conduct of IRRT missions.

4. Status Report: Safety Fundamentals

The Scientific Secretary presented the draft of the Safety Fundamentals prepared on the basis of comments from Member States. The draft was presented to the four committees at their last meetings during the months of September and October. The Commission was informed that while the draft has been generally well received, there are a large number of comments which require careful consideration. The Secretariat will prepare a new draft for review by the Chairmen of the committees and the Commission's subgroup in January 2006. The committees will review the new draft at their next meetings. The draft will then be submitted to the Commission in June 2006 and the Board of Governors (BoG) in September 2006 for approval.

It was generally agreed that little could be gained by delaying the process and the Secretariat should go forward with the plan to submit the document for approval at the next meeting of the Commission. There were a number of suggestions and comments to the current draft. The Secretariat will consider these comments in preparing a new draft. The Commission requested the Secretariat to keep track of the response to the comments received to be able to justify revisions made [Annex II, 18.3].

5. Current Developments

5.1 Implementation of the Action Plan; Report to the Board of Governors on Feedback

The Scientific Secretary presented a draft report prepared for submission to the BoG in response to one of the actions in the action plan. The Commission was informed that the report was prepared on the basis of interim reports presented to the committees and the Commission over the last two years and will be modified to include a new section on future work and according to the suggestions made at this meeting prior to its submission to the BoG.

The Commission suggested that the report should include a Section on resources devoted to the safety standards programme by the Member States.

It was pointed out that there are a number of regional groups who are involved in development of safety standards on topics already covered by the Agency, and there is a need to open a dialogue with the groups concerned in order to further promote the IAEA standards and to avoid unnecessary duplication of efforts. The IAEA should be seen as the sole developer of safety standards. It was suggested that one effective way would be to increase efforts to seek co-sponsorship of the safety standards by other international and regional organizations.

5.2 Developments of Safety Standards for Radioactive Waste

Mr. Pather presented a comprehensive report on the topic, informing the Commission of the significant progress made towards the transition of waste safety standards to the new structure, in both thematic and facility specific standards. The Commission was also informed that there is a need to have periodic joint NUSSC/WASSC meetings for better co-ordination in developing the standards that are common to both committees.

It was pointed that the waste safety standards tend to promote disposal as the only option, while ignoring other means of long term management. This could be considered in preparing the new draft of the Safety Fundamentals.

5.3 IAEA Safety Glossary: Status Report

Mr. Delves gave a status report on the IAEA Safety Glossary, providing information on its purpose, scope, use and future development. The purpose of the glossary is to contribute towards the harmonization of terminology and usage in the safety related work of the Agency, particularly the development of safety standards. The Safety Glossary includes terms with definitions as published in the IAEA safety standards, together with clarifications and explanations. It also includes, for information, definitions from IAEA codes of conduct, safety related conventions and other publications.

The Commission was informed that the glossary has now been revised and updated in the light of changes in terminology, usage and extension of the coverage of the safety standards. The Secretariat had invited comment from members of the four committees and the users of the IAEA safety standards and safety related publications. The revised version has been presented to the committees and is to be translated into the IAEA's other five official languages (Arabic, Chinese, French, Russian and Spanish). Once the translations have been finalized, it is intended to post pdf files of these six editions of the Safety Glossary on the IAEA web site in 2006 as Version 2.0. The Secretariat will consider how best to publish the revised version of the Safety Glossary in English and subsequently in the other official languages. It may be issued on CD-ROM in hyperlinked form or in hard copy.

It was generally agreed that the glossary has been very useful in harmonizing the safety standards and other safety related publications and should be published by the Agency. The Commission requested the Secretariat to report back at the next meeting on the steps taken towards the publication of the glossary.

5.4 Status of the endorsed Standards and Response to Actions from the 17th Meeting

The Scientific Secretary informed the Commission that three Safety Standards have been published since the last meeting. These include Safety of Research Reactors (NS-R-4), Environmental and Source Monitoring for Purposes of Radiation Protection (RS-G-1.8), and Categorization of Radioactive Sources (RS-G-1.9). Several translations of published Safety Standards have also been published. The Safety Requirements for Geological Disposal of Radioactive Waste (WS-R-4) and two other Safety Guides are in the final stages of production.

The Commission was also informed that actions 17.1 and 17.2 from the last meeting have been addressed. Regarding action 17.3, the Secretariat proposed to delete the choice of minor revisions and the associated simplified procedure. The Commission agreed to the proposal. Regarding action 17.4 the Secretariat proposed to address the action as part of the presentation on the review and revision of safety standards for design of nuclear power plants that is scheduled for the next meeting.

6. The Use of Safety Standards and Related Regulatory Issues

Contributions on the use of Safety Standards and related regulatory issues, provided by the members of the Commission, were distributed. The contributions are an essential input to the feedback on the use of Safety Standards. A number of members chose to present topics of particular interest during the meeting. The process of distributing the written text in advance and selecting the presentation of significant issues is considered more efficient than around-the-table presentation. It was generally agreed that a similar process should be adopted for future meetings.

7. Presentations and Discussion of Reports of Safety Standards Committees

7.1. Nuclear Safety Standards Committee (NUSSC)

Mr. Reiman informed the Commission that NUSSC at its 20th meeting approved 14 draft standards, four draft standards for submission to the Commission and ten draft standards for submission to the Member States. Seven draft DPPs were also approved for submission to CSS. NUSSC also discussed the new draft of the Safety Fundamentals and the review of BSS as well as procedural and working matters including: late submission of documents to members for review and need for better co-ordination among the coordinators of the four areas and between the four committees.

7.2. Radiation Safety Standards Committee (RASSC)

Mr. Magnusson informed the Commission that RASSC at its 19th meeting approved four draft standards for submission to the Commission and one draft standard for submission to the Member States for comments. RASSC also approved five draft DPPs for submission to the Commission. Mr. Magnusson also informed the Commission that there was general support for the draft Safety Fundamentals and that several international organizations have indicated they are interested in co-sponsoring the publication. Most of the discussion at RASSC was focused on the review and revision of the BSS. Mr. Magnusson presented the work plan for review and revision of the BSS, outlining the areas to be examined with regard to the possible need for revision.

7.3. Waste Safety Standards Committee (WASSC)

Mr. Pather informed the Commission that WASSC held its 20th meeting in Tokyo the week after the International Conference on the Safety of Radioactive Waste Disposal. WASSC discussed the draft Safety Fundamentals and the review and revision of the BSS. The Commission was also informed that WASSC at its meeting approved six draft standards for submission to the Commission and one draft standard for submission to Member States. Five DPPs were also approved by WASSC for submission to the Commission. WASSC also discussed the need for a better web system allowing the members to upload comments and gain access to comments from other members.

7.4. Transport Safety Standards Committee (TRANSSC)

Mr. Colgan informed the Commission that Mr. Taniguchi in his opening remarks informed the TRANSSC of the policy on review and revision of the transport regulations approved by the BoG in June 2005. TRANSSC also discussed the Safety Fundamentals and the review and revision of the BSS, implementation of the new policy, application of standards, coordination and harmonization with other United Nations bodies and the status of coordinated research programmes. The Commission was also informed of the criteria developed by TRANSSC for deciding on a revision of the regulations and their publication. The decision on publication of TS-R-1 2007 edition has been deferred to the next TRANSSC

8. Safety Standards

8.1 Arrangements for Preparedness for a Nuclear or Radiological Emergency (DS105); Safety Guide

Mr. McKenna, Technical Officer for the development of this Safety Guide, presented the draft and outlined its development. The four committees had reviewed this Safety Guide. The Commission was informed that comments relating to the use of 'threat assessment' and objections to a number of paragraphs dealing with topics relating to security had been raised by members of AdSec the week before.

The Commission requested the Secretariat to discuss and resolve issues related to the coverage of security in the safety standards and to avoid such interventions at this late stage of the development of the Standards. The Commission endorsed the publication of this Safety Guide with the following

changes:

- Para. 2.9, Line 1 delete 'expert' insert 'people'
- Para 4.32, line 4; Delete 'so called experts' insert 'people'
- Para. 6.19 last line delete 'Terrorist threat or criminal activity…'
- Delete Paras. 6.31 to 6.33 and associated title
- Change the first two sentences of 6.34 to read 'Such emergencies may result from accidents, natural phenomena or deliberate acts (e.g. criminal activities); however, the necessary response will be essentially the same regardless of the cause. For such emergencies, preparations at the local level…'
- Insert a new para after old para. 6.34 'The organization responding to a nuclear or radiological emergency may be composed of elements drawn from the national or local organizations responsible for the first response to hazards associated with hazardous material (e.g. radioactive material), conventional hazards (e.g. fires) and criminal activities (e.g. terrorism or theft). All of these response elements should form a single coordinated organization that is structured to address the concerns of the various response elements, such as the need for the collection of evidence, while also ensuring that safety of the responders.'
- Delete Paras. 6.46 to 6.48 and associated title
- Appendix I, Table1.1, Page 65 for Type C packages UN 3323, Second column line 3, change to read 'designed to withstand credible land and sea accidents and most credible air transport accidents'.
- At the end of the definition for threat assessment insert 'The term threat assessment does not imply that any threat, in the sense of an intention and capability to cause harm, has been made in relation to such facilities, activities or sources.'

8.2 Release of Sites from Regulatory Control on Termination of Practices (DS332); Safety Guide

Ms. Batandjieva, Technical Officer for the development of this Safety Guide, presented the draft and outlined its development. This draft had been reviewed by WASSC, RASSC and NUSSC. The Commission endorsed the publication of this Safety Guide with the following changes:

- Para.2.10 1st sentence. Change to read 'For the unrestricted use of a site, optimization of protection should ensure that the effective dose to a member of a critical group is kept below the dose constraint of 300 μSv in a year.'
- Para. 5.4, 3rd line. Change 'limits' to 'criteria'.

8.3 The Management System for Facilities and Activities (DS338); Safety Requirements

Mr. Vincze, Technical Officer for the development of this Safety Requirements draft, presented the draft and outlined its development. The four Committees had reviewed this draft. The Commission endorsed the submission of the Safety Requirements to the BoG for approval.

8.4 Application of the Management System for Facilities and Activities (DS339); Safety Guide

Mr. Vincze, Technical Officer for the development of this Safety Guide, presented the draft and outlined its development. The four Committees had reviewed this draft. The Commission endorsed the

publication of this Safety Guide.

8.5 ~~Safe~~ Storage of Radioactive Waste (DS292); Safety Guide,

Mr. Rowat, Technical Officer for the development of this Safety Guide, presented the draft and outlined its development. This draft had been reviewed by WASSC and NUSSC. The Commission decided to delete 'safe' from the title and endorsed the publication of this Safety Guide.

9. Document Preparation Profiles for Approval

9.1. Management of Waste Containing Naturally Occurring Radioactive Materials ~~(NORM)~~, (DS352); Safety Guide

Mr. Waggitt, Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by WASSC and RASSC. The Commission decided to delete '(NORM)'from the title and look at the title again in the future. The Commission approved the DPP.

9.2. Safety Assessment for Radioactive Waste Disposal Facilities (DS355); Safety Guide

Mr. Metcalf, Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by WASSC. It was suggested the Safety Guide should be consistent with the Safety Requirements on Safety Assessment and Verification (DS348), and should include uncertainty analysis, validation, PSA and deterministic approaches and closure. The Commission approved the DPP.

9.3. Near Surface Disposal Facilities (DS356); Safety Guide

Mr. Metcalf, Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by WASSC and RASSC. The Commission approved the DPP.

9.4. Classification of Radioactive Waste (DS390); Safety Guide,

Mr. Metcalf, Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by WASSC. It was suggested that RASSC should be involved in the review of the draft Safety Guide. The Commission approved the DPP.

9.5. Source Term Evaluation for Accidents at Nuclear Reactors (DS384); Safety Guide

Mr. Lee, Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by NUSSC. The Commission pointed out that it is not clear whether this Safety Guide belongs to a thematic or facility specific area and considered the four Safety Guides (DS384, DS393, DS394, DS395) together. A number of comments were made including the need for a separate Safety Guide on this topic, particularly since it could be developed as an appendix to the level 2 PSA Guide (DS393). It was also discussed how various types of fuel are to be considered in the Safety Guide. The Commission did not approve the DPP.

9.6. Safety in Medical Uses of Ionizing Radiation (DS399); Safety Guide

Mr. Ortiz López, Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by RASSC. The Commission was informed that the Agency has published a set of five manuals dealing with the various aspects of the topic. The Commission recommended the Secretariat to include the manuals as annexes to the Safety Guide. The Commission approved the DPP.

9.7. Protection of the Public against Exposure to Ionizing Radiation from Natural Sources (DS400); Safety Guide

Mr. Mason, Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by RASSC. The Commission was informed that WHO had expressed interest in the co-sponsorship of this Safety Guide. It was pointed out that the word 'protection' may not apply in all cases regarding public exposure due to natural sources; the Secretariat was requested to consider the title. The Commission approved the DPP.

9.8. Safety Assessment of Research Reactors and Preparation of the Safety Analysis Report (DS396); Safety Guide

Mr. Deitrich, for the Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by NUSSC. It was suggested the Safety Guide should be consistent with Safety Requirements on Safety Assessment and Verification (DS348) and the Safety Guide should take into account the public participation process. The Commission approved the DPP.

9.9. Safety in the Utilization and Modification of Research Reactors (DS397); Safety Guide

Mr. Deitrich, for the Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by NUSSC. The Commission approved the DPP.

9.10. Verification and Validation of Computational Tools for Accident Analysis Reactors (DS395); Safety Guide

Mr. Lee, Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by NUSSC. The Commission pointed out that it is not clear whether this Safety Guide belongs to a thematic or facility specific area and considered the four Safety Guides (DS384, DS393, DS394, DS395) together. The Commission authorized the Chairman of NUSSC to decide on approval of the DPP by considering the set of standards in the area of Safety Assessment and Verification. The Commission is to be informed of the decision at its next meeting [Annex II, 18.4].

9.11. Development and Application of Level 1 PSA for Nuclear Reactors (DS394); Safety Guide

Mr. El-Shanawany, for the Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by NUSSC. The Commission pointed out that it is not clear whether this Safety Guide belongs to a thematic or facility specific area and considered the four Safety Guides (DS384, DS393, DS394, DS395) together. The Commission authorized the Chairman of NUSSC to decide on approval of the DPP by taking into account the written comments from the Russian Federation and by considering the set of standards to be in the thematic area of Safety Assessment and Verification. The Commission is to be informed of the decision made at its next meeting.

9.12. Development and Application of Level 2 PSA for Nuclear Power Plants (DS393); Safety Guide

Mr. El-Shanawany, for the Technical Officer, presented the DPP for this Safety Guide. The DPP had been approved by NUSSC. The Commission pointed out that it is not clear whether this Guide belongs to a thematic or facility specific area and considered the four Safety Guides (DS384, DS393, DS394, DS395) together. The Commission authorized the Chairman of NUSSC to decide on approval of the DPP by taking into account the written comments from the Russian Federation and by considering the set of standards in the area of Safety Assessment and Verification. The Commission is to be informed of the decision made at its next meeting.

10. Additional Topics

10.1. Advisory Group on Nuclear Security (AdSec)

Mr. Pu Chairman of AdSec informed the Commission of the work of AdSec and its membership. AdSec, established in 2002, has 13 members and meets twice a year. Its mission is to review the Secretariat's activities relating to nuclear security and to make recommendations to the Director General. Mr. Pu described the work of AdSec over the past few years including:

- Consolidation of the definition, objective and scope of nuclear security;
- Review of the work programme and plans to ensure comprehensiveness, consistency, assignment of priorities and budget allocations;

- Study of the relation between safety and security with their common goal of protecting people and their overlapping areas of activity;

- Recommendation on the establishment of a new Nuclear Security Publication Series with four categories of publications namely Foundations, Recommendations, Implementation Guides and Technical Guides.

AdSec could also act as a reviewer of nuclear security publication in addition to its original functions. This additional function, however, would require the approval of the Director General.

10.2. IAEA Safety Standards and the Convention on Nuclear Safety

The Chairman presented the letter from Ms. L Keen, president of the Third Review Meeting of the contracting parties to the convention on nuclear safety, requesting nomination of a representative of the Commission on Safety Standards to liase with the president. The objective would be to assist in the implementation of the adopted resolution of the contracting parties on 'The Use of the IAEA Safety Requirements in the Review Process'.

The Commission nominated Mr. M. Weightman to assist in the implementation of the resolution.

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

The schedule of the meetings of the Commission and the committees for 2006 is:

Commission	6–7 June,	20–21 November
NUSSC	28–30 March	To be decided
RASSC	3–7 April	9–13 October
TRANSSC	27 Feb.–3 March	26–29 September
WASSC	3–7 April	To be decided

The tentative lists of standards to be reviewed at the next meeting of the Commission include review of draft Safety Standards:

Principles of Nuclear, Radiation, Radioactive Waste and Transport Safety (DS298), Safety Fundamentals

Decommissioning of Nuclear Facilities (DS333), Safety Requirements

Implementation of the Remediation Process for Past Activities and Accidents (DS172), Safety Guide

Management Systems for the Safety of the Treatment, Handling and Storage of Radioactive Waste (DS336), Safety Guide

Management Systems for the Safety of Radioactive Waste Disposal (DS337), Safety Guide

Borehole Facilities for the Disposal of Radioactive Waste (DS335), Safety Guide

Safety of Radiation Generators and Sealed Radioactive Sources (DS114), Safety Guide

Commissioning of Research Reactors (DS259), Safety Guide

Maintenance, Periodic Testing and Inspection of Research Reactors (DS260), Safety Guide

ANNEX I

AGENDA

Eighteenth Meeting of the
COMMISSION ON SAFETY STANDARDS
28 – 29 November 2005

Meeting Room CO7-IV, 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 Seventeenth Meeting;
   A.-C. Lacoste

3. Overview of the Activities in the Department of Nuclear Safety and Security
   - 3.1. Nuclear Installation Safety, *K.E. Brockman, DIR-NSNI*
   - 3.2. Radiation, Transport and Waste Safety, *E. Amaral, DIR-NSRW*
   - 3.3. Update on Policy Issues Related to Safety Standards, *L. Lederman SH-SSCS*

4. Status Report: Safety Fundamentals, *A. Karbassioun*

5. Current Developments
   - 5.1. Implementation of the Action Plan; Report to the Board of Governors on Feedback
     A. Karbassioun
   - 5.2. Developments of Safety Standards for Radioactive Waste, *T. Pather*
   - 5.3. IAEA Safety Glossary: Status Report, *D. Delves*
   - 5.4. Status of the endorsed Standards and Response to Actions from the 17th Meeting
     A. Karbassioun

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

7. Presentations and Discussion of Reports of Safety Standards Committees
   - 7.1. Nuclear Safety Standards Committee
     L. Reiman, Chairman/G. Feige, Scientific Secretary - NUSSC
   - 7.2. Radiation Safety Standards Committee
     S. Magnusson, Chairman/T.J. Boal, Scientific Secretary - RASSC
   - 7.3. Waste Safety Standards Committee
     T. Pather, Chairman/K. Hioki, Scientific Secretary – WASSC
   - 7.4. Transport Safety Standards Committee
     M. Wangler, Scientific Secretary – TRANSSC

8. Safety Standards for Approval
   - 8.1. Arrangements for Preparedness for a Nuclear or Radiological Emergency (DS105); Safety Guide, *T. McKenna, Technical Officer*
   - 8.2. Release of Sites from Regulatory Control on Termination of Practices (DS332); Safety Guide, *B. Batandjieva, Technical Officer*
   - 8.3. The Management System for Facilities and Activities (DS338); Safety Requirements,
     P. Vincze, Technical Officer
   - 8.4. Application of the Management System for Facilities and Activities (DS339); Safety Guide, *P. Vincze, Technical Officer*

8.5 Safe Storage of Radioactive Waste (DS292); Safety Guide,
J. Rowat, Technical Officer

9. Document Preparation Profiles for Approval

9.1. Management of Waste Containing Naturally Occurring Radioactive Materials (NORM), (DS352); Safety Guide, *P. Waggitt, Technical Officer*

9.2. Safety Assessment for Radioactive Waste Disposal Facilities (DS355); Safety Guide,
P. Metcalf, Technical Officer

9.3. Near Surface Disposal Facilities (DS356); Safety Guide,
P. Metcalf, Technical Officer

9.4. Classification of Radioactive Waste (DS390); Safety Guide,
P. Metcalf, Technical Officer

9.5. Source Term Evaluation for Accidents at Nuclear Reactors (DS384); Safety Guide,
S. Lee, Technical Officer

9.6. Safety in Medical Uses of Ionizing Radiation (DS399); Safety Guide,
P. Ortiz López, Technical Officer

9.7. Protection of the Public against Exposure to Ionizing Radiation from Natural Sources (DS400); Safety Guide, *C. Mason, Technical Officer*

9.8. Safety Assessment of Research Reactors and Preparation of the Safety Analysis Report (DS396); Safety Guide, *W. Deitrich, Technical Officer*

9.9. Safety in the Utilization and Modification of Research Reactors (DS397); Safety Guide,
W. Deitrich, Technical Officer

9.10. Verification and Validation of Computational Tools for Accident Analysis Reactors (DS395); Safety Guide, *S. Lee, Technical Officer*

9.11. Development and Application of Level 1 PSA for Nuclear Reactors (DS394); Safety Guide, *El-Shanawany, Technical Officer*

9.12. Development and Application of Level 2 PSA for Nuclear Power Plants (DS393); Safety Guide, *El-Shanawany, Technical Officer*

10. Other business

11. Report of the Meeting, Date of the Next Meetings

ANNEX II

ACTIONS ARISING FROM THE MEETINGS OF THE COMMISSION

18.1. The commission took note of the low number of States supporting the export/import guidance and requested to be informed of the status at its future meetings. (Ref. *Item 3.2).* **[Action: Secretariat]**.

18.2. The Commission requested the Secretariat to improve the exiting draft policy and to prepare, for discussion at the next meeting, a report on mutual responsibilities between safety and security (Ref. *Item 3.3).* **[Action: Secretariat]**.

18.3. The Commission requested the Secretariat to keep track of the response to the comments received to be able to justify revisions made (Ref. *Item 4).* **[Action: Secretariat]**.

18.4. The Commission authorized the Chairman of NUSSC to decide on approval of the DPPs by considering the set of standards in the area of Safety Assessment and Verification. The Commission is to be informed of the decision at its next meeting (Ref. *Item 9.10, 9.11, 9.12.* **[Action: Mr. Reiman]**.

17.4. The issue of how to address risk in the new Safety Standards (safety goals, low probability/high consequences) and its bearing on the development of a planned Safety Guide on classification of structures, systems, components, services and functions important to safety (DS367), was raised. It was suggested that a presentation on related IAEA activities be arranged at the next meeting (Ref. *Item 9.1, 2nd bullet 17th mtg. and 5.4 of 18thmtg. report).* **[Action: Secretariat]**.

PARTICIPATION

The Commission

A. Oliveira, Argentina
J. Loy, Australia
A. Souza de Assis, Brazil
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
J. Hashmi, Pakistan
A. Malyshev, Russian Federation (sent apologies – unable to attend)
G.A. Azuara, Spain
L-E. Holm, Sweden
U. Schmocker, Switzerland
M. Weightman, United Kingdom
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 (sent apologies – unable to attend)
T. Pather, WASSC
J. Pu, AdSec

Representatives and associated experts

Ms. M.H. Marechal, Y. Zhao, J-L. Lachaume, D. Delattre, S. Akimoto, K. Nitta, H. Umezawa, H. Kawagoshi, Mr. V. Bezzubtsev, Ms. I. Kaliberda, L. Santoma, P. Meyer, D. Weaver

IAEA Staff Members

T. Taniguchi, Deputy Director General, Department of Nuclear Safety and Security
K.E. Brockman, Director, Division of Nuclear Installation Safety (NSNI)
E. Amaral, Director, Division of Radiation, Transport and Waste Safety
A. Nilsson, Head, Office of Nuclear Security (NSNS)
L. Lederman, Head, Safety and Security Coordination Section (SSCS)
B. Batandjieva, Waste Safety Section (NSRW)
T. Boal, Radiation Safety Section (NSRW)
P. Colgan, Office of Nuclear Security (NSNS), Acting for Chairman of TRANSSC
W. Deitrich, Research Reactor Safety Section (NSNI)
D. Delves, Safety and Security Coordination Section (SSCS)
M. El-Shanawany, Safety Assessment Section (NSNI)

G. Feige, Programme and Policy Support Section (NSNI)
K. Hioki, Waste Safety Section (NSRW)
S. Lee, Safety Assessment Section (NSNI)
C. Mason, Radiation and Transport Safety Section (NSRW)
T. McKenna, Radiation and Transport Safety Section (NSRW)
P. Metcalf, Waste Safety Section (NSRW)
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