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1. GENERAL ISSUES

1.1 Opening of the Meeting

The meeting was opened by Mr. G. Rzentkowski (DIR-NSNI) who pointed out that the review by NUSSC of Safety Requirements is essentially complete. NUSSC have now to continue reviewing Safety Guides.

As small modular reactors (SMRs) are a growing focus, he will hold a presentation on the subject.

1.2 Chairman’s Introduction

The meeting was chaired by Mr P. Webster from Canada as Mr F. Feron was unable to attend the meeting in person. Mr Feron joined the meeting remotely using WebEx.

1.3 Adoption of the Agenda of the 44th NUSSC Meeting

The Agenda of the 44th NUSSC Meeting was approved.

1.4 Approval of the Report of the 43rd NUSSC Meeting

The report of the 43rd NUSSC Meeting was adopted.

1.5 Actions of NUSSC Meetings

The progress made on the actions decided at the 43rd NUSSC Meeting was presented by Mr M. Svab, NUSSC Scientific Secretary. The actions were either already performed or dealt with during the NUSSC Meeting.

He informed the participants that following Action Item No.1.5, WebEx was used during this meeting and participants could join us via the platform.

The USA requested that their comments on the Term Report be posted.

1.6 Dates of the next meetings

The dates of the next NUSSC Meetings were confirmed:

- The 45th NUSSC Meeting will be held on 25 – 29 June 2018
- The 46th NUSSC Meeting will be held on 26 -30 November 2018
1.7 Report from the previous meeting of the five Chairs

Prior to the CSS Meeting, a meeting of the five Chairs of the review committees was held and the NSGC Chair participated. Mr D. Delattre informed the NUSSC members of different subject discussed:

- CSS had established a Working Group on attributing health effects to exposure and inferring risk. This had produced a discussion paper which had been endorsed by the recent CSS meeting. As a result, a Consultancy will be called to review SF-1 to see if there is need to refine certain parts of the text. A Consultancy meeting will take place in February 2018 to review SF-1.
- A change to the SPESS process now puts the review of the draft by the Publication Committee in parallel with the review by CSS. In practice, because the Publication Committee meets more regularly than CSS, the expectation is that the draft has undergone final editing by the time CSS sees it at its next meeting. Any changes then made by CSS are fed back to the Publications Committee.
- The SSCs had adopted different approaches to their end-of-term self-assessments, although all were based on the Terms of Reference of the Committees, which are standardized.

1.8 CSS 42nd Meeting Report

Mr. D. Delattre, CSS Scientific Secretary, reported on the results of the 42nd CSS Meeting after having introduced the road map for the long-term structure of Safety Standards and the status of endorsed safety standards. He explained the amendment made at the publication process and informed participants that the Agency financed one editor in MTCD that would dedicate his work to the revision of safety standards.

CSS endorsed for publication the following draft Safety Standards:

- DS474 Draft Safety Guide on Arrangements for the termination of a nuclear of radiological emergency

CSS approved the following DPP:

- DPP DS499 Safety Guide on Application of the Concept of Exemption, revision of RS-G-1.7
- DPP DS500 Safety Guide on Application of the Concept of Clearance, revision of RS-G-1.7
- Draft DPP DS503 Safety Guide on Protection against Internal and External Hazards in the Operation of Nuclear Power Plants, revision of NS-G-2.1
- DPP DS504 Safety Guide on Arrangements for Preparedness and Response for a Nuclear or Radiological Emergency
- Draft DPP DS505 Safety Guide on Source Monitoring, Environmental Monitoring and Individual Monitoring for Protection of the Public and the Environment, revision of RS-G-1.8
- DPP DS507 Safety Guide on Seismic Hazards in Site Evaluation for Nuclear Installations, revision of SSG-9
1.9 Status of the Nuclear Safety and Security Online User Interface (NSS-OUI)

Mr D. Delattre publicized the brochure and self-learning elements of the Online User Interface. He informed the participants that all Safety Standards are to be re-published in January in “html” form, in order to allow comments to be made on the documents. It was highlighted that only delegates to the SSCs will be granted access to make comments, so all comments from Member States will have to go through them.

The Safety Glossary used in OUI is the 2016 one; only those Safety Standards which use its definitions will be tagged. The Security Glossary is to be placed on the test server and tagged.

➔ NUSSC confirmed the interest of this IT tool.

1.10 Status of Safety Standards and TECDOCS

A presentation on the status of Safety Standards was given by Mr. M. Svab.

He reminded the steps to develop a safety standard and the steps relevant to NUSSC Members during which they are given a chance to review a document.

Three safety standards were recently published:

- GSG-6 Communication and Consultation with Interested Parties by the Regulatory Body (published on 25 September 2017)
- SSR-4 Safety of Nuclear Fuel Cycle Facilities (published on 16 October 2017)

The current situation for safety standards is as follow:

➔ NUSSC confirmed its interest for such presentation
2. REVIEW OF IAEA SAFETY STANDARDS


The document is an update of GS-G-4.1 first published in 2004 and the DPP was approved by the CSS in November 2015. The current revision was initiated to comply with the long term structure of safety standards approved in 2008 and to ensure coherency and consistency with the other relevant IAEA Safety Standards.

→ NUSSC gave its approval for submission of DS449 to CSS subject to final approval by NUSSC Chair of the text in “brackets”.


This document is a revision of two combined guides: GS-G-3.4 and GS-G-3.3. The aim was to ensure proper treatment of the interdependencies between predisposal management and disposal of waste. The DPP for the combined document (DS477) was approved in 2013 at the 35th WASSC and the 34th CSS. WASSC & RASSC already approved submission of the draft to Member States for review. The updated version of DS477 and the table of comments and their resolutions were available on the SSCs’ website before the NUSSC meeting. As the document is in interface with two upcoming Safety Guides, the possibility to postpone its approval was questioned. As the lead committee already approved it, instead of holding the approval it was decided that when sending it for MS review they be notified of the open structure. The potential for the three Safety Guides to have commonalities should be highlighted and Member States feedback sought on the structure. It was underlined that the guide was delayed waiting for the publication of GSR Part 2 of which it follows the structure.

→ NUSSC gave its approval for submission of DS477 to Member States with a highlight on the structure.


This is a revision of NS-G 1.9 first published in 2004. The current revision (DS481) was initiated to update recommendations and guidance taking into account the latest IAEA requirements as reflected in SSR-2/1, Rev.1.

Discussions revolve around footnote 6 of the document on the amount of water needed to bring the units on a site to safe shutdown imposed an onerous and unnecessary burden (“The minimum capacity should not be less than 7 days”). ENISS pointed out that this required if no bodies of water are readily available; otherwise the duration of autonomy need only be 3 days depending of different regulations. The number of days should remain an example.

→ NUSSC approved, in principle, the technical content of the document DS481, with a modification of footnote 6. The edited version of DS481 should be submitted for approval at next NUSSC meeting.
2.4 DS482 - Draft Safety Guide: Design of Reactor Containment Structure and Systems for NPPs

DS488 - Design of the Reactor Core for Nuclear Power Plants


Those three drafts were already technically approved at 43rd NUSSC. The only discussion that arose concern paragraph 5.24 of DS482. It was noted that monitoring tendons is not a replacement for doing a pressure test and that the text need to be revised.

➔ NUSSC gave its approval for submission of DS482, DS483 and DS488 to CSS with a modification of paragraph 5.2 of DS482.

2.5 DS483 – Draft Safety Guide: Severe Accident Management Programmes for Nuclear Power Plants

This is a revision of NS-G-2.15 first published in 2009. The current revision (DS 483) was initiated to account for lessons learned from the Fukushima Daiichi accident and to align with Revision 1 of GSR Part 4, SSR-2/1 and SSR-2/2. The updated version of DS483 and the table of comments and resolutions were available on the SSCs’ website before the NUSSC meeting. All comments received were addressed.

It was stressed that the terminology used in the Safety Guide is consistent with the Safety Glossary (2016) and that it covers both prevention and mitigation, as was required in the DPP.

Discussions arose on:
- The change in the title, the DPPs should be clearer to avoid surprises
- The focus on severe accident mitigation and the lack of guidance concerning Emergency Operating Procedures. It was noted that the ten operational Safety Guides under revision as DS497 may cover this but it should be confirmed.

➔ NUSSC gave its approval for submission of DS483 to CSS. The secretariat should ensure that DS497 adequately covers management of Design Basis Accidents.


This document is a new Safety Guide developed to provide guidance on Human Factors engineering to design human machine interface. Lessons-learned from the Fukushima Daiichi Accident have been incorporated, as have those from the Incident Reporting System.

The updated version of DS492 and the table of comments and resolutions were available on the SSCs’ website before the NUSSC meeting.

During the meeting, discussions arose on:
- The potential modification or deletion of paragraph 5.3 on “Verification and validation should be performed by persons or parties independent of the design”. It was proposed to replace ‘should’ by ‘could’, which was agreed.

➔ NUSSC approved DS492 for submission to CSS with the modification to be made in paragraph 5.3.
2.7 DS494 - Draft Safety Guide: Protection against Internal Hazards in the Design of Nuclear Power Plants

This Guide is an update and merge of NS-G-1.7 and NS-G-1.11. The DPP was approved in 2016 and DS494 was developed during three Consultancy Meetings. The updated version of DS494 and the table of comments and resolutions were available on the SSCs’ website before the NUSSC meeting.

Discussions arose on:
- The statement made in paragraph 4.110 on Leak-Before-Break

➔ NUSSC approved DS494 for submission to Member States.

3. REVIEW OF DOCUMENT PREPARATION PROFILES (DPPs) – SAFETY STANDARDS

3.1 DPP DS508 – Application of Safety Principles and General Design Requirements for Nuclear Power Plants

The first DPP version was presented during NUSSC 43rd meeting however, the Secretariat is now working on a revised DPP as the scope of the first one was considered too ambitious. This Safety Guide will be based on TecDoc-1791 and will develop requirements in GSR Part 4 and SSR-2/1 on the assessment of Defence-in-Depth (DiD) and fundamental safety functions. The safety guide will address specifically the assessment of DEC and practical elimination, framing such topics under the assessment of DiD.

The updated version of the DPP was posted on the IAEA website before the meeting. All comments received were addressed.

During NUSSC meeting, discussion took place on:
- The fact that SSG-2 already includes some aspects of DEC and PE and the possibility of overlap. The option of having a Safety Report on DiD instead of a Safety Guide was given.
- The need to revise the title of the document.
- The need to revisit the gap analysis done under NUSSC 37, as is required by SPESS – A for a new document such as this. However, this did not achieve consensus.

➔ NUSSC approved DPP DS508 for submission to CSS, with a modification of the title to be agreed upon by NUSSC (and CSS) later on in the process and a highlight on the need for consistency with SSG-2.

3.2 DPP DS509 - Revision by amendment of NS-G-4.1 to NS-G-4.6, SSG-10 and SSG-37

This document is a revision of 8 guides (Operational Aspects). The approach was based on assessment of the new requirements in SSR-3 and a gap analysis of the scope and content of the Guides. This DPP was approved by EPReSC, RASSC and WASSC in November 2017 for submission to CSS.

The updated version of the DPP was posted on the IAEA website before the meeting. All comments were addressed and resolutions were discussed with Members.

➔ NUSSC approved DPP DS509 for submission to CSS.
3.3 DPP DS510 - Revision of SSG-20 and SSG-24

This document is a revision of two interrelated Specific Safety Guides on Research Reactors. The approach was based on assessment of the new requirements in SSR-3 and a gap analysis of the scope. The updated version of the DPP was posted on the IAEA website before the meeting. The scope of the 2 safety guides remains essentially unchanged.

→ NUSSC gave its approval for submission of DPP DS510 to CSS.

3.4 DPP DS511 - Use of a Graded Approach in the Application of the Safety Requirements for Research Reactors

This document is a revision of SSG-22 on Graded Approach which was first published in 2012. SSG-22 needs to be revised in its entirety due to its heavy reliance on outdated references to individual paragraphs of NS-R-4 and a lack of guidance related to new requirements in SSR-3. The document was approved by EPreSC, RASSC and WASSC in November 2017, for submission to CSS. The updated version of the DPP was posted on the IAEA website before the meeting and all comments received were addressed.

During the meeting, discussions arose on:
- The application of the document to new and existing research reactors;
- The application of Graded Approach to Nuclear Fuel Cycle facilities and the existence of SSR-4. A Safety Report or a TecDoc, which will go through the requirements in SSR-4 one-by-one, explaining how these might be handled could be envisaged.

→ NUSSC gave its approval for submission of DPP DS511 to CSS.

4. NSGC Documents for clearance


The objective of this publication is to provide guidance on developing and implementing computer security as an integral component of nuclear security. The DPP of this document was approved in June 2014 and the document was developed in close coordination with NST057 and NST047. The document has already been cleared by RASSC, WASSC and EPreSC.

It was noted that the coordination of nuclear safety and security was covered in the comments from IAEA, IEC.

→ NUSSC cleared NST045 for publication.
4.2 NST051 - Draft Implementing Guide: Security During the Lifetime of Nuclear Facility

This document is intended to fill gaps in the existing guidance documents. Although it is intended for nuclear facilities, it can also be applied to other facilities. NUSSC had commented that NS-R-3 is becoming SSR-1; this has now been added. Discussions arose on:

- The steps of regulatory control in NSS-19. NSS-19 describes nine phases, which capture the eight stages of the lifetime of a nuclear facility, including bringing down a site in terms of nuclear security and closing it.
- Whether nuclear security is still needed after closure of a site.

→ NUSSC cleared NST051 for publication.

5. DOCUMENTS FOR INFORMATION/DISCUSSION/TECHNICAL ENDORSEMENT


This document is to be a Safety Guide to accompany GSR Part 2. There are currently three SGs for GS-R-3, which focus on management systems. GSR Part 2 also covers leadership, on which guidance is needed. Two Safety Guides (GS-G-3.1 and GS-G-35) will be merged to comply with the long-term structure and to incorporate lessons-learned from the Fukushima-Daiichi NPP Accident. It will also cover those parts of GS-R-3 which are not in GSR Part 2 and INSAG-27 and will be developed under four workstreams.

The DPP was developed by a Consultancy meeting in October 2017; two more Consultancies are to be run, from May 15-18 and July 2-5, 2018.

Discussions arose on:

- The intended public for this Guide (operators and regulators). NUSSC participants invited the Agency to think of who will be the users as flexibility is needed to encompass the various models, organisations which are within the scope.
- The need for efficiency in structuring the content of the documents related to safety culture.
- The content of the “updated supply chain guide” and the “interested parties guide”.
- Whether this guide could help newcomers.

→ NUSSC participants advised the Secretariat to look how it could interface with other standards organisations such as ISO.

→ NUSSC also invited the Secretariat to take into account the view expressed on guidance on management systems as the result of discussion on the holistic review of safety standards structure (see 5.2 below).

5.2 NUSSC holistic review of Safety Standards structure

A volunteer subgroup meeting after NUSSC 43 had looked at the overall structure of Safety Guides bearing in mind three principles which the plenary meeting had agreed:

- Combine SGs if it doesn’t increase the number of recommendations.
- Make thematic revisions where possible.
- Consider if the level of detail might fit better into another kind of publication.

NUSSC participants reviewed the table encompassed in the four years term report (paragraph 4.3).
It was noted that NSS OUI changed the approach to holistic review as it avoids duplication and if duplications are needed it allows to make exact cross-references.

Discussion arose on:
- The inclusion of DPP513 in the table.
- The need for a recommendation on management system on regulatory body duties.
- The need for a new guide on safety assessment and safety case.
- The potential need for specific guidance for SMR concerning graded approach.

➔ **NUSSC endorsed the conclusions presented in the four year term report.**

### 5.3 SSCs’ “self-assessment” against ToR of the Committees

This item was covered under 5.4 and no comments arose.

### 5.4 Four-years Term NUSSC Report

No particular comment were made on the Report as such.

NUSSC participants discussed:
- The use of WebEx – concerns were expressed on who will be able to participate and to make comments especially regarding advisors to delegates and the possibility to cut off unwanted participants.
- The role of advisor or assistant versus observer and the existence of a formal process to nominate observers.
- The possibility to publish ahead of time for review by other MS, the resolution of MS comments, in order to avoid discussions at the meeting. Response was that it is not possible to post ahead of time the resolution of comments at step 11, only step 7; this is described in SPESS.

➔ **NUSSC requested the Secretariat to consult with other committees and come up with rules and guidelines on the use of WebEx.**

➔ **NUSSC approved The Four-Years Term NUSSC Report.**

### 6. MISCELLANEOUS

#### 6.1 Feedback on Regulatory Arrangements and Current Developments in NUSSC Member States (Belgium)

The representative from Belgium provided information to NUSSC Members concerning different points:
- The legal and regulatory framework in Belgium;
- The structure of the Regulatory Body (FANC) working in tandem with the TSO (BelV);
- The role of the TSO and the installations it controls;
- How IAEA Safety Standards are used in Belgium; and
- The specific areas where NUSSC can assist Belgium.

The PowerPoint presentation is available on NUSSC website.
6.2 IAEA Activities in the field of Small Modular Reactors (SMRs)

Mr Greg Rzentkowski described the work conducted on SSR-2/1 and its applicability to SMRs. He proposed a technology Neutral approach and informed about the existence of the future publication of relevant TECDOCs. A TECDOC on Safety Goals using the hierarchy of safety goals for nuclear installations should be published in 2018.

He finally introduced the work of the SMR Regulators’ Forum, its objectives and the key issues considered by its members.

Discussion arose on:
- The possibility to publish a safety guide, and the need for greater knowledge on the technology to do so especially as there is no experience on SMR and many different potential designs.
- The fact that CSS is considering creating a cross committee working group especially on transportable reactors.
- The creation of a task force to consider safety at least.
- The involvement of NUSSC on this topic.

Greg Rzentkowski noted that the IAEA is to look at documents holistically and decide on next steps; maybe next year.

7. CLOSURE OF THE MEETING

7.8 Actions following the 44th NUSSC Meeting

The List of Actions for the 44th NUSSC Meeting was introduced by Mr. Svab to the audience. The NUSSC Members did not comment on the list and approved it. The list was attached to this report as an annex (Annex II).

7.9 Conclusions

All the agenda items were addressed. The actions decided at the 44th NUSSC Meeting are intended to be posted on the IAEA website.

The dates of the next NUSSC Meetings will be:
- 46th NUSSC Meeting 26 – 30 November 2018
### ANNEX I AGENDA

**AGENDA**

44th Meeting of the Nuclear Safety Standards Committee (NUSSC)
28 November to 30 November 2017, Vienna
VIC, C Building, C3

*Tuesday, 28 November 2017, at 9:30 a.m. – Thursday, 30 November 2017, till 5:00 p.m.*

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<td>DS491</td>
<td>Draft Safety Guide: Deterministic Safety Analysis for Nuclear Power Plants - <em>draft already technically approved at 43rd NUSSC</em> (also for EPReSC, RASSC, WASSC)</td>
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<tr>
<td>44th RASSC Meeting</td>
<td>4 – 8 June 2018</td>
</tr>
<tr>
<td>45th RASSC Meeting</td>
<td>29 October – 1 November 2018</td>
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<td>45th WASSC Meeting</td>
<td>2 – 6 July 2018</td>
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<td>46th WASSC Meeting</td>
<td>19 – 22 November 2018</td>
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<tr>
<td>12th NSCG Meeting</td>
<td>27 November – 1 December 2017</td>
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<td>13th NSCG Meeting</td>
<td>11 – 14 June 2018</td>
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<tr>
<td>35th TRANSSC Meeting</td>
<td>11 – 15 December 2017</td>
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<tr>
<td>36th TRANSSC Meeting</td>
<td>4 – 8 June 2018</td>
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</table>
## ANNEX II Actions following the 44th NUSSC Meeting

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
<th>Who</th>
<th>When</th>
</tr>
</thead>
</table>
Approved for submission to CSS subject to final approval by NUSSC Chair of the text in “brackets”. | Secretariat | ASAP |
| 2.2  | **DS477** - Draft Safety Guide: Management System for the Predisposal and Disposal of Radioactive Waste  
Approved for submission to MS. | Secretariat | ASAP |
| 2.3  | **DS481** – Draft Safety Guide: Design of the Reactor Coolant System and Associated Systems in Nuclear Power Plants  
NUSSC agreed with the technical modification of the document on the basis of comments received subject to deletion of the first part of footnote 6. | Secretariat | ASAP |
| 2.4  | **DS482** – Draft Safety Guide: Design of Reactor Containment Structure and Systems for NPPs  
Approved for submission to CSS subject to modification of paragraph 5.24.  
**DS488** - Design of the Reactor Core for Nuclear Power Plants  
Approved for submission to CSS.  
Approved for submission to CSS. | Secretariat | ASAP |
| 2.5  | **DS483** - Draft Safety Guide: Severe Accident Management Programme for Nuclear Power Plants  
Approved for submission to CSS.  
NUSSC invites the Secretariat to ensure that DS497 adequately covers management of design basis accidents. | Secretariat | ASAP |
| 2.6  | **DS492** - Draft Safety Guide: Human Factors Engineering in the Design of Nuclear Power Plants  
Approved for submission to CSS subject to change of the paragraph 5.3. | Secretariat | ASAP |
| 2.7  | **DS494** - Draft Safety Guide: Protection against Internal Hazards in the Design of Nuclear Power Plants  
Approved for submission to Member States. | Secretariat | ASAP |
| 3.1 | **DPP DS508**: Application of Safety Principles and General Design Requirements for Nuclear Power Plants  
Approved for submission to CSS.  
NUSSC Chair and the Secretariat should inform the CSS that the current title of DS508 is not fully satisfactory and will likely change later on, once an initial draft is available, to better reflect the technical content of DS508. New title will be subject to NUSSC agreement. | Secretariat | ASAP |
| 3.2 | **DPP DS509**: Revision by amendment of NS-G-4.1 to NS-G-4.6, SSG-10 and SSG-37  
Approved for submission to CSS subject to a phased approach being adopted across the DS509, DS510 and DS511 so as to balance the work load. | Secretariat | ASAP |
| 3.3 | **DPP DS510**: Revision of SSG-20 and SSG-24  
Approved for submission to CSS subject to a phased approach being adopted across the DS509, DS510 and DS511 so as to balance the work load. | Secretariat | ASAP |
| 3.4 | **DPP DS511**: Use of a Graded Approach in the Application of the Safety Requirements for Research Reactors  
Approved for submission to CSS subject to a phased approach being adopted across the DS509, DS510 and DS511 so as to balance the work load. | Secretariat | ASAP |
| 4.1 | **NST045**: Draft Implementing Guide: Computer Security for Nuclear Security  
Cleared for publication. | Secretariat | ASAP |
| 4.2 | **NST051**: Draft Implementing Guide: Security During the Lifetime of Nuclear Facility  
Cleared for publication. | Secretariat | ASAP |
| 5.3 | Four-years Term NUSSC Report  
The Chair and Secretariat to finalise the report and send it to all Members and observers for approval (silent procedure) | Secretariat | Report to be sent on the 13 December 2017  
The silent procedure will end on 22 December 2017 |
### ANNEX III List of Participants

<table>
<thead>
<tr>
<th>Country</th>
<th>Last Name</th>
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</thead>
<tbody>
<tr>
<td>Austria</td>
<td>Mr N. Muellner</td>
</tr>
<tr>
<td>Belgium</td>
<td>Mr B. De Boeck</td>
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<tr>
<td>Brazil</td>
<td>Mr M. E. Costa Nunes</td>
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<tr>
<td>Canada</td>
<td>Mr J. Moore</td>
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<tr>
<td>Canada</td>
<td>Mr K. Lafreniere</td>
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<tr>
<td>Czech Republic</td>
<td>Mr Z. Tipek</td>
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<tr>
<td>Egypt</td>
<td>Mr M. Ibrahim</td>
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<tr>
<td>ENISS</td>
<td>Mr W. Ranval</td>
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<tr>
<td>ENISS</td>
<td>Mr J. Barbaud</td>
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<tr>
<td>ENISS</td>
<td>Mr G. Bassing</td>
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<tr>
<td>Finland</td>
<td>Ms M-L Jarvinen</td>
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<tr>
<td>France</td>
<td>Mr E. Wattelle</td>
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<td>France</td>
<td>Mr F. Feron</td>
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<tr>
<td>Germany</td>
<td>Mr K. Weidenbruck</td>
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<tr>
<td>Germany</td>
<td>Ms M. Rueffer</td>
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<tr>
<td>Hungary</td>
<td>Ms E. Retfalvi</td>
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<tr>
<td>Israel</td>
<td>Mr R. Harari</td>
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<tr>
<td>Italy</td>
<td>Mr M. Gervasi</td>
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<tr>
<td>Japan</td>
<td>Mr T. Nakajima</td>
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<td>Japan</td>
<td>Mr M. Yasuda</td>
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<td>Japan</td>
<td>Mr Y. Mochimaru</td>
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<td>Japan</td>
<td>Mr H. Rindo</td>
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<td>Japan</td>
<td>Mr T. Hiroshi</td>
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<tr>
<td>Korea, Republic of</td>
<td>Mr K. T. Kim</td>
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<tr>
<td>Korea, Republic of</td>
<td>Mr M. J. Chang</td>
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<tr>
<td>Mexico</td>
<td>Mr R. Camargo Camargo</td>
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<tr>
<td>Netherlands</td>
<td>Ms G. Delfini</td>
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<tr>
<td>Norway</td>
<td>Mr H. Mattson</td>
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<tr>
<td>Russian Federation</td>
<td>Mr M. Lankin</td>
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<tr>
<td>Russian Federation</td>
<td>Mr S. Krechetov</td>
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<tr>
<td>Slovakia</td>
<td>Mr P. Uhrik</td>
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<tr>
<td>United Arab Emirates</td>
<td>Mr H. Alkhafili</td>
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<tr>
<td>United Kingdom</td>
<td>Mr R. Moscrop</td>
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<tr>
<td>United States of America</td>
<td>Mr C. Regan</td>
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<tr>
<td>United States of America</td>
<td>Ms C. Jones</td>
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<tr>
<td>WNA</td>
<td>Mr F. Lignini</td>
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<tr>
<td>WNA</td>
<td>Mr B.C. Na</td>
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