INTERNATIONAL ATOMIC ENERGY AGENCY
DIVISION OF RADIATION AND WASTE SAFETY

3rd Meeting of
Transport Safety Standards Advisory Committee
(TRANSSAC III)

IAEA Headquarters, Vienna
4-8 May 1998

CHAIRMAN'S REPORT OF THIRD MEETING

Reproduced by the IAEA
Vienna, Austria, 1998

NOTE
The material in this document has been supplied by the authors and has not been edited by the IAEA. The views expressed remain the responsibility of the named authors and do not necessarily reflect those of the government(s) of the designated Member States(s). In particular, neither the IAEA nor any other organisation or body sponsoring this meeting can be held responsible for any material reproduced in this document.
1. **Opening of the meeting**

The meeting was opened by Mr. A. J. González (Director, Division of Radiation and Waste Safety). He reminded participants of the purpose of TRANSSAC and its predecessor SAGSTRAM as well as recounting important elements of the very successful development and application of the transport regulations. Noting that the International Organizations (in particular ICAO and IMO) were well on their way to adopting the 1996 Edition of the Transport Regulations with a uniform target date of 1 January 2001, he encouraged Member States to also do so. He described some current issues in transport, including the concerns raised by some Member States about the perceived level of compliance with the Regulations and the possible need for a binding legal instrument, and the activities underway to address these issues. TRANSSAC was invited to take these issues into consideration and to address them so that TRANSSAC can take the lead in developing sound solutions. The issues of notification and approval of shipments are particularly visible and important to a number of Member States. While the Regulations do address notification and approval in certain instances, there is still unease on the part of some Member States over the level of compliance. There appears to be a need to develop some mechanism to provide assurances of compliance with the Regulations.

There have been resolutions passed at the Diplomatic Conference which adopted the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management and the General Conference (GC(41)/RES/12) addressing transport. The report prepared by the Secretariat in response to GC(41)/RES/12 will be considered by the June Board

---

1 This report is keyed to the TRANSSAC Agenda, Working Paper No. 1, Rev. 3. (Attachment I).
of Governors but it does not provide a proposed solution to the underlying issues. TRANSSAC, as the senior advisory body in transport safety, should do its best to develop some potential solutions to these issues so that the solutions considered are soundly based on knowledge of transport safety.

He stressed the senior role of TRANSSAC in the revision of the Regulations and emphasized that it should continue this role, using other technical forums to address the details of the revision process as well as other facets of the overall transport programme.

2. Statement by the Chairman

The Chairman, Mr. F. W. Collin, welcomed the participants, and recounted that some of the issues Mr. González raised have been addressed in the past, but that solutions have not been developed which have been effective in putting these issues to rest. The list of participants is presented in Attachment I.

3. Administrative information

Administrative information about facilities, procedures and services available to the meeting was provided by Mr. R. Rawl, Scientific Secretary.

4. Adoption of the Agenda

The provisional agenda was adopted with minor amendments and re-issued as Working Paper No. 1, Rev. 3 (Attachment II). The list of Working Papers considered by the meeting is presented in Attachment III.

5. Update on the activities of the ACSS and overall Safety Standards Series matters

5.1. ACSS activities

Mr. A. KARBASSIOUN described the overall activities of the ACSS (WP 2), including plans for the Advisory Committee and ACSS chairpersons to meet on 2 June 1998.

5.2. Unified procedure for the preparation and review of Safety Standards Series publications (WP 3)

The unified procedure was introduced with special attention being directed to Sections 4 and 5 of the document which describe the responsibilities and procedures for developing Safety Standards Series documents.

6. Reports from representatives of Member States and International Organizations on their regulatory activities and issues, including plans for revisions based on ST-1

6.1. Member States

TRANSSAC Members described the status of regulatory and other activities in their countries. Implementation plans for revised regulations based on ST-1 were described with the target date of 1 January 2001 being the overall objective for a number of Member States. Mr. Basaez of Chile was welcomed as a new member of TRANSSAC.
6.2. **International Organizations**

TRANSSAC **strongly supported** the Agency’s continued close liaison and coordination with the other international organizations involved in the safe transport of radioactive material, particularly with regard to the Coordinated Research Programmes. TRANSSAC believes that bringing these transport experts together is one of the best methods to ensure that the IAEA Transport Regulations adequately address the needs of the modal organizations.

6.2.1. **UN Committee of Experts**

6.2.1.1. Update on restructuring the IAEA ST-1 Transport Regulations to the UN Recommendations (WP 4).

Activities related to integrating the requirements of ST-1 into the UN Orange Book were described, including future activities to complete this effort. It appears hopeful that the effort may be completed at the June/July 1998 meeting of the UN Committee of Experts.

6.2.2. **International Civil Aviation Organization (ICAO)**

Ms. Rooney described activities related to revising the Technical Instructions to incorporate the requirements of ST-1, first into a supplement (available on request as a supplement to the 1 January 1999 edition) and then into the TI proper (1 January 2001 edition).

6.2.3. **International Maritime Organization (IMO)**

6.2.3.1. INF Code

Activities underway at the IMO to make the INF Code mandatory (including amendments to the SOLAS convention) were described. The necessary amendments to SOLAS and the revised text of the INF Code were prepared by DSC 3 in February 1998 and will be considered by the Maritime Safety Committee and the Marine Environment Protection Committee for approval. If there are no delays the INF Code could become mandatory on 1 January 2001.

Activities are also underway to incorporate the requirements of ST-1 into the IMDG Code. Mr. Young described the progress of the working group which has been preparing the text for this. There are also efforts underway to make the IMDG Code mandatory under the SOLAS convention.

6.2.3.2. IAEA/IMO/UNEP Literature Review on the Potential Consequences Resulting from Severe Maritime Accident Scenarios Involving the Transport of Radioactive Material.

The terms of reference and approach for performing the literature review (WP 5) were described. It was observed that a small group of experts (instead of one or two experts) may be needed to fully cover the breadth of the study as described. The Secretariat noted that recommendations for experts to assist in performing the study would be most welcomed.

6.2.4. **European Commission**

Mr. van Gerwen described the activities at the European Commission and other EU bodies related to radioactive material transport safety. He referred to the “Communication from the Commission concerning the report of the Standing Working Group on the Safe Transport of Radioactive Material in the European Union” (IP No. 5) and the Proposed Programme of Action
on the Transport of Radioactive Material (pages 8-10 of that report). The Proposed Programme was adopted by the Commission at its April 1998 meeting. The Commission would very much appreciate help from the IAEA and ICAO to address problems anticipated with the implementation of ST-1.

6.2.5. **ADR/RID**

Mr. Ridder described the activities related to revising the ADR/RID and ADNR regulations to incorporate the requirements of ST-1. The Rail and Road Agreements will be restructured on the basis of the UN Orange Book. This work is expected to be finished this year by a special WG to achieve the 2001 implementation date.

6.2.6. **Others**

Updates on the activities in Spain (Mr. Zamora) and IATA (Mr. Abouchaar) were provided.

6.3. **Radioactive Transport Study Group**

Mr. Young provided an update on activities of the RTSG, including the results of its last meeting.

6.3.1. **Questionnaire on national regulatory requirements for the transport of radioactive material**

Mr. Cosack introduced WP 20 and described how the RTSG has used the questionnaire to compile information on the national regulations of RTSG members. It was noted that the information collected in this way was useful to both Competent Authorities and industry. It was agreed that it would be useful if the RTSG continued to collect this information and if they would make it available to TRANSSAC as an information paper.

7. **Status report on recommendation made by TRANSSAC II**

Mr. Rawl introduced WP 6 on the actions which have been taken in response to the recommendations of TRANSSAC II.

8. **Activities related to General Conference Resolution GC(41)/RES/12 and TCM-1077 on International Instruments Related to the Safe Transport of Radioactive Material**

Mr. Rawl described the background which lead to the preparation of the Secretariat's report to the June 1998 Board of Governors. This included the preparation of a draft technical report on legal instruments and its consideration and revision by TCM-1077 (IP1). A broad ranging discussion followed from which the following conclusions were drawn:

(a) there were no identified technical safety needs to support developing a new binding international instrument; indeed, some specific difficulties could be foreseen in the creation of such an instrument, such as potential conflicts with Article 82 of the Chicago Convention and complications for efforts already underway to make the IMDG Code mandatory under the SOLAS Convention.
(b) it was **recommended** that efforts by the Agency focus on gaining wider implementation and acceptance of the Transport Regulations through the existing approach of Member States and International Organizations making them mandatory; This should specifically include:

i) developing a short summary presentation of the information contained in IP 1; this should explain the basic elements of the current approach to developing integrated dangerous goods regulations and implementing them throughout the world and could encourage countries which have not adopted the Transport Regulations to do so.

ii) efforts should be directed at reaching countries which may not have implemented the Transport Regulations to encourage them to do so.

9. **Status and plans for Safe Transport Safety Standards Series publications**

The status and plans for the publications contained in WP 7 were presented and discussed.

9.1. **ST-1, Regulations for the Safe Transport of Radioactive Material**

It was noted by the Secretariat that it now appears that Chinese and Arabic editions of ST-1 may be published.


Only one comment received on ST-2 was not editorial (concerning exemption limits) and a working group was established to address this issue. The Working Group’s report is discussed under item 18.1. It was **agreed** that following the Secretariat’s preparation of a final draft, it will be communicated to the TRANSSAC Chairman along with a description of the resolution of the comments, for approval for transmittal to the ACSS.

9.3. **ST-3, Safety Guide: Planning and Preparing for Emergency Response to Transport Accidents Involving Radioactive Material, including Review and Approval for Presentation to ACSS**

It was **agreed** that the following 3 revisions were needed:

a) resolution of the comments from Japan to more clearly reflect the ST-1 requirements applicable to uranium hexafluoride packaging and its expected performance;

b) updating of the accident scenarios, including adding any recent scenarios provided by Member States or updating the ones currently in the draft;

c) revising the text of ST-3 par. 554 to reflect the ST-1 requirements which address damaged packages (paras. 510 and 511);

It was **agreed** that following the completion of these 3 revisions, the final draft should be transmitted to ACSS.
9.4. **SS No. 112, Compliance Assurance for the Safe Transport of Radioactive Material**

The status of the publication was noted. At the present time there are no plans for revision of the document.

9.5. **SS No. 113, Quality Assurance for the Safe Transport of Radioactive Material**

The status of the publication was noted. At the present time there are no plans for revision of the document.

10. **CSM to Develop a Simplified Model of the IAEA Transport Regulations (WP 9)**

Mr. Dicke introduced the report produced by the CSM which developed a simplified model of the IAEA Transport Regulations (WP 9). The simplified regulations are required to support the Model Project to assist developing Member States in strengthening their radiation protection infrastructure in the area of transport safety. They are presented in text which is suitable for direct use in national legislation or regulations.

   It was agreed that the sample regulations should be included in a package of information for the countries that need this assistance. It was also agreed that condensed training material should be developed to support this package of information and that the package should include the summary report described in item 8 (above).

11. **The Transport Regulations revision process**

11.1. **TCM-405.6, Technical Committee Meeting on the Comprehensive Review of the Transport Regulatory Approach, 2-6 June 1997**

Working Paper 10, the Chairman’s Report of TCM 405.6, was presented by Mr. Dicke and discussed with the following conclusions:

   a) **TRANSSAC III endorses** the principle of having a 2 year revision process;

   b) the revision process described in Sections 3 and 4 of WP 10 was reviewed and felt to have significant merit, but the October 1998 TCM should be used to further refine the process; It was also **recommended** that a CSM be held prior to the TCM to prepare specific proposals for refining the revision process. The TCM should review the revision process to ensure that the sequencing and timing of activities are reasonable for the 2-year revision cycle and that the functions of the respective bodies involved in the process are described as clearly as possible. In particular, the role of TRANSSAC should be focused on major issues and approving the final drafts of revisions which include major changes. For example, minor changes could be considered by the Secretariat and if confirmed as minor could go directly to publication. Changes of detail could be considered by the Secretariat, subjected to the 90-day rule, and if supported by the comments received from Member States, could be submitted for publication. The TCM should use the results of TC-405.6 and the relevant recommendations of TRANSSAC as its working basis.
c) in considering the concluding recommendations of the report (Section 6 of WP 10), it was decided that: i) the consensus process should continue to be used, with voting, if needed, in accordance with the Board of Governors procedures; ii) any potential conflicts between the revision process and the Unified Procedure should be resolved or noted and brought to the attention of TRANSSAC; iii) in principle, economic impact should be included in the evaluation factors; iv) no proposals have been received by TRANSSAC concerning the use of safety goals so a CSM is not needed at this time; v) at the appropriate time, a document should be prepared (which could be an update of WP 5 of TC-405.6) which lays out the complete revision process and procedures; vi) a CSM should be convened to consult with the Secretariats of the UN Committee of Experts on the Transport of Dangerous Goods, IMO and ICAO in order to help ensure that the revision process interfaces effectively with the revision processes and timing of publications of those organizations;

11.2. **Quality in the regulatory process**

Mr. Young introduced WP 11 concerning quality in the revision process, emphasizing the need for building quality assurance into process. There was general support for the idea of ensuring the quality of the revision process and hence the regulations. However, concerns were also expressed about the level of effort that this might entail and the possible lack of effect since the development of the regulations is only one step in the chain of events which must occur before these requirements are applied by operators. It was recommended that the CSM and TCM which consider the revision process should specifically consider WP 11 and provide recommendations on how to best build quality into the revision process.

12. **Activities of other IAEA advisory bodies**

WP 12 which provides a summary of all Safety Standards Series documents was reviewed. It was agreed that the Transport Safety Unit Secretariat should continue to remain alert to documents being produced under other Advisory Committee’s purview which may interface with transport safety and that these should be brought to TRANSSAC’s attention. It was recommended that RASSAC be notified of TRANSSAC’s interest to be involved in the development of NS 61 and NS 73. Additionally, if work begins on developing a unified safety fundamental, TRANSSAC reaffirmed that it wishes to be involved in this effort.

12.1. **Follow up on the Report of the PPAS review**

WP 13 was reviewed and discussed with no actions being identified which require TRANSSAC action.

12.2. **Radiation Safety Standards Advisory Committee (RASSAC)**

Mr. Mason (NSRW) presented WP 24 and elaborated on the documents (both existing documents and those under development) under the purview of RASSAC.

12.3. **Waste Safety Standards Advisory Committee (WASSAC)**

Mr. Raynal (NSRW) presented WP 17 and described the documents (both existing documents and those under development) related to radioactive waste safety.
12.4. **Nuclear Safety Standards Advisory Committee**

Mr. D. Lacey presented information concerning the development of the draft requirements and guidance documents on Legal and Governmental Infrastructure for Nuclear, Radiation, Radioactive Waste and Transport Safety.

12.5. **Draft IAEA Safety Glossary**

Mr. Barraclough (NSSC) described the development and content of the draft IAEA Safety Glossary, pointing out that the Glossary has been distributed to the ACSS, Advisory Committees and IAEA technical officers for comment and trial use. It is envisioned that the draft would undergo trial use throughout 1998, comments requested by the end of 1998, decisions made on the actual application and content of the Glossary and a final version prepared in 1999. TRANSSAC welcomed the Agency’s efforts to prepare the Glossary and recognized its importance to safety. It was **recommended** that the draft Glossary be provided (for comment by the end of 1998) to all the International Organizations involved in transport safety.


Ms. Wieland described the content and purpose of the Handbook (WP 19). The draft has circulated for comment and is being issued as a TECDOC by the Agency. Comments on the TECDOC will be welcomed as part of the continued development of the Handbook. TRANSSAC noted the high quality of the document and expressed its interest in the continued development of the document.

12.7. **International Requirements for Radiological and Nuclear Emergency Preparedness and Response**

Mr. Crick (NSRW) provided a description of the Agency’s role in emergency response and the status of development of the safety requirements and other documents in this area.

13. **Research and Development**


Mr. van Gerwen described the research and development activities at the EC, as shown in IP 5, pages 30 - 32. While there may be difficulties in ensuring continuity in the funding for the activities, a number of projects are currently underway. He is hopeful of having a meeting to present the results of the 18 projects which have been undertaken in the first year of this effort.

13.2. **IAEA Coordinated Research Programmes**

Mr. Blalock (NSRW) presented information on the nature and scope of the Agency’s Coordinated Research Programmes related to transport safety. He noted that WP 14 should be amended on: page 1, first line, after “Japan” add “(2)” to indicate 2 participants from Japan; on page 1, third par., last line, after “conducted by France” add and Japan”. Mr. Schuurman (IFALPA) noted that IFALPA is evaluating how it might participate in the CRP on accident severities during the transport of radioactive material by aircraft.
Transport Accidents and Incidents and the International Nuclear Events Scale

Mr. Shaw described how transport accidents might be classified under the INES scale, as shown in WP 15. Recognizing that the INES Secretariat is just now considering the approach contained in WP 15, TRANSSAC **recommended** that liaison be maintained between the Transport Safety Secretariat and the Secretariat responsible for the INES activities in the area of transport.

Information Services

14.1. Update on Information Services

Ms. Brittinger (NSRW) presented an update on the following information services listed in IP 2:

- List of National Competent Authorities
- PACKTRAM Database on Package Approval Certificates
- EVTRAM Database on Events in Radioactive Material Transport

14.2. Report of the TCM-1048 on Transport Safety Data Bases

Mr. Shaw presented an overview of the October 1997 Technical Committee meeting on Transport Safety Data Bases (TCM-1048). A summary and the recommendations are provided in WP 16. The TCM report includes a request for this TRANSSAC meeting to support a programme to proceed with the EVTRAM, SHIPTRAM and EXTRAM databases and to recommend to the Agency that sufficient resources be provided to develop, maintain and report on these databases.

Discussion elaborated on the resources required to deal with the very large number of data involved, the need for Member States to participate to make this programme successful and the need for the Agency to know that its resources will produce what the Member States want. It was noted that the TCM had addressed the future programme and that future consultants services may be needed. It was also noted that any proposed data collection efforts should be tested with a small number of volunteer Member States. It was **agreed** by TRANSSAC that work should continue subject to availability of resources and progress should be reported each year to TRANSSAC for ongoing evaluation.

14.3 Report of Member State Implementation of the Transport Regulations (IP 3)

Ms. Brittinger reported on a survey of the Member States concerning the status of their implementation of the IAEA transport regulations. This survey had been carried out as part of the work required in response to the request from the IAEA General Conference for a report on legally binding and non-binding international instruments and regulations concerning the safe transport of radioactive materials and their implementation. The widespread application of the IAEA transport regulations was reflected in the marked up area of a world map. Some surprise was expressed that some countries continue to apply the 1967 edition of the regulations while some others are already applying the 1996 edition.

The results of the survey will be reported to the IAEA Board of Governors meeting in June of this year.
15. Training Activities

Ms. Brittinger provided an update on the IAEA Transport Safety Training Programme (IP 4) supported during the past year and the forecast of one and three week training sessions for the next few years. The training is still based on the 1985 edition of the transport regulations (SS-6), but with supplemental information on the changes which will result from ST-1.

The discussion confirmed that TRANSSAC recommends
- the development of ST-1 based training material in time to support the target implementation date of 2001;
- the development of a more condensed version of the training material in line for example with the “sample” regulations which have been discussed at this TRANSSAC meeting; condensed training material was mentioned as desirable also for the modal authorities and the developed countries. Such training material should include a training manual and visual aids.
- that effort be made to reach a wider audience (too many applicants to the 3-week training sessions which cannot be accommodated with appropriate transport safety training).


Mr. Rawl provided an overview of the Transport Safety Programme scheduled for the next few years (WP 8) which is supported by the currently proposed budget. There was some discussion about flexibility in the programme for example where certain meetings are scheduled but it is not clear if sufficient information will be available at the scheduled time then it may be possible to use the meeting for another purpose. TRANSSAC supports the presented programme for the next few years. In addition, it was suggested and agreed by TRANSSAC that if an opportunity would arise to better use a scheduled meeting for another purpose it should be used to address the need for the development of training material.

17. TRANSSAC Membership

Membership of the Advisory Committees is under the authority of the Director General. Membership is currently being reviewed. It is expected that more members will be allowed on these Committees. It is expected that all present TRANSSAC members will continue. Some other Member States have expressed interest. All affected Member States will be contacted when a decision has been made concerning TRANSSAC membership.

18. Any other business

18.1 Report of Working Group on Advisory Material Concerning Exemption Limit

Mr. Mountford-Smith explained that some of the wording in ST-1 with regard to defining materials which are not subject to the regulations may be open to interpretation which was not intended by TRANSSAC. A Working Group was established to review the original intent of ST-1 para 107(e) and to prepare clarifying information for the advisory material concerning this regulation. Their proposed text is presented in WP 25. TRANSSAC agreed that the following text, based on the proposed text, reflects the original intent and should be incorporated in para 107(5) of the advisory material in ST-2:

“Natural material and ores containing naturally occurring radionuclides which are processed are also exempt from the regulations (up to 10 times the exempt activity concentration
values) where the physical and/or chemical processing is not for the purpose of extracting radionuclides, e.g. washed mineral sands, tailings from alumina refining, etc.”

18.2 Working Papers 22 and 23 submitted by France

Mr. Sert introduced WP 22 concerning extension of the number of radionuclides defined as fissile and specifying the mass limits for fissile exemption of shipments of these radionuclides. He requested comment not on a technical basis but on the principle.

It was noted that this type of change would be a major change and therefore should be reviewed by the Revision Panel. At the same time, consideration of a change to the regulations should follow the procedures of the new revision process once it has been established. Since the new revision process has not yet been established it was suggested that an option at the present time would be for the criticality experts from several countries present at this meeting to communicate with Mr. Sert on this issue and to consider how it should be developed for the next revision process. This option was accepted by TRANSSAC.

Mr. Sert then introduced WP 23 concerning consideration of regulatory changes to immersion performance of packages because of experience with MSC Carla which sank at a location where the sea is 3000 m deep. He suggested that consideration should be given to increasing the immersion depth for the regulatory test from 200 m to 2000 m.

Following some discussion about the proposal and how to deal with it TRANSSAC agreed to forward the proposal to the CRP on Accident Severity at Sea. The CRP members could further discuss the issue with Mr. Sert. It is then up to France or any other country to prepare a proposal for the next regulations revision cycle.

18.3 Agenda for TRANSSAC Meetings

At this TRANSSAC meeting one morning was devoted to updates from Safety Standards Advisory Committees. TRANSSAC agreed that these updates had been useful and should be retained for future meetings.

TRANSSAC members will be receiving information such as draft documents prepared under the guidance of the other Safety Standards Advisory Committees (NUSSAC, RASSAC and WASSAC). The question arose as to whether the TRANSSAC meetings should deal with such documents or that they should be dealt with by individual members. TRANSSAC agreed that draft documents sent to them for comment should be dealt with by individual members rather than be discussed at a TRANSSAC meeting (unless a TRANSSAC member specifically requests that the review of a document be put on the agenda).

19. Close of the Meeting

There was no other business. The Chairman closed the meeting.
**INTERNATIONAL ATOMIC ENERGY AGENCY**

Department of Nuclear Safety  
Transport Safety Unit  
Division of Radiation and Waste Safety  
Issue No. 3

**NOTIFICATION OF AN AGENCY-SPONSORED MEETING**

*Technical Committee Meeting of*

*The Transport Safety Standards Advisory Committee*  
*(TRANSSAC III)*

Vienna, 4-8 May 1998  
Meeting No. 721-J1-TC-983.3

| **Scientific Secretary:** | Mr. Richard R. RAWL, B0780, Ext. 21268  
e-mail: R.Rawl@iaea.org |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chairman:</strong></td>
<td>Mr. Wilhelm COLLIN, Germany</td>
</tr>
</tbody>
</table>
| **Secretary:**           | Ms. Elfriede HERBST, B0781, Ext.: 21268  
e-mail: E.Herbst@iaea.org |
| **Conference Clerk:**    | Ms. Monika TORTSCHANOFF, Ext.: 4611             |
| **Meeting Room:**        | C-02/Room I, Ext.: 4611, Side Room: C-0217, Ext.: 5239 |

<table>
<thead>
<tr>
<th><strong>PARTICIPANT</strong></th>
<th><strong>ADDRESS ABROAD</strong></th>
<th><strong>PERIOD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ARGENTINA</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Mr. J. LOPEZ VIETRI | Nuclear Regulatory Authority  
Radiological and Nuclear Safety  
Office 313 B,  
Avenida del Libertador 8250  
1429 Buenos Aires  
Tel.: +54 1 704 1122  
Fax: +54 1 704 1171 or 704 1188  
e-mail: jivietri@sede.am.gov.ar | 4-8 May ’98 |
AUSTRALIA
Mr. T. MOUNTFORD-SMITH
Nuclear Safety Bureau
Level 3, 14-16 Central Road
P.O. Box 655
Miranda, NSW 2228
Tel.: +61 2 9524 1164
Fax: +61 2 9540 1808
e-mail: trevor.mountford-smith@health.gov.au

BELGIUM
Mr. E. COTTENS
Ministry of Social Affairs, Public Health and Environment
Rijksadministratief Centrum
Vesaliusgebouw V-2/3
B-1010 Brussels
Tel.: +32 2 210 49 66 or 77
Fax: +32 2 210 49 67
e-mail: erik.cottens@health.fgov.be

Mr. H. SANNEN
Safety and Q.A.
Transnubel
Gravenstraat 73
B-2480 Dessel
Tel.: +32 14 331130
Fax: +32 14 318948, 33 1144
e-mail: tnb.hs@glo.be

BRAZIL
Ms. A.M. XAVIER
Brazilian Nuclear Energy Commission
Licensing and Control Superintendence
Rua General Severiano 90, sala 402
22290-900 Botafogo, R.J.
Tel.: +5521 2951096
Fax: +5521 2951745
e-mail: axavier@cnen.gov.br

CANADA
Mr. P. EYRE
Atomic Energy Control Board
Transportation Section
P.O. Box 1046, Station B
280 Slater St.
Ottawa, Ontario K1P 5S9
Tel.: +1 613 995 0537
Fax: +1 613 995 5086
e-mail: eyre.p@atomcon.gc.ca
Ms. K. PLOURDE
Transport Canada
Transport Dangerous Goods Directorate
Place de Ville, Tower C
330 Sparks St., 9th floor
Ottawa, Ontario K1A 0N5
Tel.: +1 613 990-1149
Fax: +1 613 990-2917
e-mail: plourdk@tc.gc.ca

Mr. R. THOMAS
Director, Materials Regulations Div.
Atomic Energy Control Board
P.O. Box 1046, Station B
280 Slater Street
Ottawa, Ontario K1P 5S9
Tel.: +1 613 995 9346
Fax: +1 613 995 5086
e-mail: thomas.r@atomcon.gc.ca

CHILE
Mr. H. BASAEZ
Chilean Commission of Nuclear Energy
Department of Nuclear and Radiation Safety
Amunategui 95
Santiago,
Tel.: +56 2 3646 262
Fax: +56 2 3646 263
e-mail: hbasaez@gopher.cchen.cl

EGYPT
Mr. R. EL-SHINAWY
Egyptian Atomic Energy Authority
Radiation Protection Section
Nuclear Research Center
36, El-Zaher Street
El-Zaher, Cairo
Tel.: +20 2 5930932 (Home)
Tel.: +20 2 4690841 (Office)
Fax: +20 2 3540982

FRANCE
Mr. D. FLORY
Institut de Protection et de Sûreté Nucléaire (IPSN)
Boîte postale 6
F-92265 Fontenay aux Roses, Cédex
Tel.: +33 1 4654 7854
Fax: +33 1 4654 8920
e-mail: denis.flory@ipsn.fr
Mr. J. JOLY
Direction de la Sûreté des Installations Nucléaires
Première sous-direction
Route du Panorama Robert Schuman
Boîte postale 83
F-92266 Fontenay aux Roses, Cédex
Tel.: +33 1 4319 7002
Fax: +33 1 4319 7027
e-mail: jerome.joly@industrie.gouv.fr

Mr. G. SERT
Institut de Protection et de Sûreté Nucléaire (IPSN)
Boîte postale 6
F-92265 Fontenay aux Roses, Cédex
Tel.: +33 1 4654 9624
Fax: +33 1 4654 9574
e-mail: gilles.sert@ipsn.fr

GERMANY
Mr. U. ALTER
Federal Ministry for the Environment, Nature Conservation and Nuclear Safety
P.O. Box 12 06 29
D-53048 Bonn
Tel.: +49 228 305 2932
Fax: +49 228 305 3746
e-mail: rs345001@wp-gate.bmu.de

Mr. W. COLLIN
(Chairman)
Bundesamt für Strahlenschutz (BfS)
P.O. Box 10 01 49
D-38201 Salzgitter
Tel.: +49 5341 885 701
Fax: +49 5341 885 705
e-mail: fcollin@bfs.de

Mr. F. NITSCHHE
Bundesamt für Strahlenschutz (BfS)
P.O. Box 10 01 49
D-38201 Salzgitter
Tel.: +49 5341 885 721
Fax: +49 5341 885 705
e-mail: fnitsche@bfs.de

Mr. K. RIDDER
Ministry of Transport
P.O. Box 200 100
D-53170 Bonn
Tel.: +49 228 300 2437
Fax: +49 228 300 3428
e-mail: klausridder@bmw.bmv.bund.400.de
Mr. R. RÖDEL  
Bundesanstalt für Materialforschung und- prüfung (BAM) 
Unter den Eichen 87 
D-12205 Berlin 
Tel.: +49 30 8104 1333 
Fax: +49 30 8104 1337 
e-mail: roland.roedel@bam.de

ISRAEL  
Mr. I. LEVIN  
Nuclear Research Center Negev 
P.O. Box 9001 
Beer Sheva 84190 
Tel.: + 972 7 656 7500 
Fax: +972 7 656 7665 
e-mail: iddole@internet-zahav.net

ITALY  
Mr. S. TRIVELLONI  
Agenzia Nazionale per la Protezione dell'Ambiente (ANPA) 
Via Vitaliano Brancati, 48 
I-00144 Rome 
Tel.: +39 6 5007 2239 
Fax: +39 6 5007 2941 
e-mail: trivelloni@anpa.it

JAPAN  
Mr. T. IKEDA  
Special Assistant to Director, Technology and Safety Division 
Transport Policy Bureau 
Ministry of Transport (MOT) 
2-1-3, Kasumigaseki, Chiyoda-ku 
Tokyo 100 
Tel.: +81 3 3580 5054 
Fax: +81 3 3580 3086 
e-mail: takahiko-ikeda@so.motnet.go.jp

Mr. H. KAWAI  
Director, Office of Nuclear Materials Transport 
Nuclear Safety Bureau 
Science and Technology Agency (STA) 
2-2-1, Kasumigaseki, Chiyoda-ku 
Tokyo 100 
Tel.: +81 3 3581 4754 
Fax: +81 3 3581 2816 
e-mail: hkawai@sta.go.jp
Mr. Y. NAKAGOME  
Research Reactor Institute  
Kyoto University  
Noda, Kumatori-cho, Sennan-gun  
Osaka 590-0494  
Tel.: +81 724 51 2358  
Fax: +81 724 51 2603  
e-mail: nakagome@rri.kyoto-u.ac.jp

Mr. T. SAEGUSA  
Transport & Storage Team  
Nuclear Fuel Cycle Back-End Project  
Abiko Research Laboratory  
Central Research Institute of Electric Power Industry (CRIEPI)  
1646 Abiko, Abiko-shi  
Chiba-ken 270-1166  
Tel.: +81 471 82 1181/1185  
Fax: +81 471 82 5934  
e-mail: saegusa@criepi.denken.or.jp

Mr. Y. YASOGAWA  
Director,  
International Coordinator of Safety and Technology  
Survey Department  
Nippon Kaiji Kentei Kyokai  
Kaiji-Bldg. 1-9-7 Hatchobori, Chuo-ku  
Tokyo 104-0032  
Tel.: +81 3 3552 0149  
Fax: +81 3 3553 1947  
e-mail: fvba 8673@mb.infoweb.or.jp

NETHERLANDS  
Mr. H. VAN HALEM  
Ministry of Housing, Spatial Planning and the Environment  
External Safety Division/655  
P.O. Box 30945  
2500 GX The Hague  
Tel.: +31 70 339 4965  
Fax: +31 70 339 1314  
e-mail:h.vanhalem@dsvs.dgm.minvrom.nl

POLAND  
Mr. A. PAWLAK  
National Atomic Energy Agency  
International Relations and European Integration Department  
ul.Kruci 36, 00-921 Warsaw  
Tel.: +48 22 6959823, 6289439  
Fax: +48 22 6210028  
e-mail: pawlak@paa.gov.pl
Mr. W. SZUMSKI
National Atomic Energy Agency
Regulatory Control of Radiation
Applications Department
ul.Konwaliowa 7
03-194 Warsaw
Tel.: +48 22 6769707
Fax: +48 22 6144252

RUSSIAN FEDERATION
Mr. M. SYSSOEV
Ministry of Atomic Energy
Department of Safety, Ecology
and Emergency Situations
st. B. Ordynka 24/26
101000 Moscow
Tel.: +70 95 239 22 31
Fax: +70 95 239 40 59
e-mail: gubanov@atom.msk.su

SWEDEN
Mr. B. PETTERSSON
Swedish Nuclear Power Inspectorate
S-106 58 Stockholm
Tel.: +46 8 698 8400
Fax: + 46 8 661 9086
e-mail: bengt@ski.se

Ms. B. SVAHN
Swedish Radiation Protection Institute
S-171 16 Stockholm
Tel.: +46 8 729 7100
Fax: +46 8 729 7108
e-mail: birgitta.svahn@ssi.se

UNITED KINGDOM
Mr. K.B. SHAW
National Radiological Protection Board
Chilton, Didcot
Oxfordshire OX11 0RQ
Tel.: +44 1235 822795
Fax: +44 1235 833891
e-mail: ken.shaw@nrbp.org.uk
Mr. C.K. WILSON
Department of the Environment, Transport and the Regions (DETR)
Radioactive Materials Transport Division
Great Minster House, Floor 4 / 18
76 Marsham Street
London SW1P 4DR
Tel.: +44 171 890 5791
Fax: +44 171 676 2187
e-mail: ckw@rmtd.demon.co.uk

Mr. C.N. YOUNG
Department of the Environment, Transport and the Regions (DETR)
Radioactive Materials Transport Division
Great Minster House
Floor 4 / 16b
76 Marsham Street
London SW1P 4DR
Tel.: +44 171 890 5795
Fax: +44 171 676 2187
e-mail: cyoung@rmtd.demon.co.uk

USA
Mr. R. BOYLE
U.S. Department of Transportation
RSPA (DHM-23, room 8430)
400 Seventh St. SW
Washington, DC 20590
Tel.: +1 202 366 4545
Fax: +1 202 366 3753
e-mail: rick.boyle@rspa.dot.gov

Mr. C. HAUGHNEY
Deputy Director,
Spent Fuel Project Office
U.S. Nuclear Regulatory Commission
Mail Stop 6F5
Washington, D.C. 20555
Tel.: +1 301 415 8560
Fax: +1 301 415 8555
e-mail: cjh@nr.gov
Internat'l Organizations

EC
Mr. I. VAN GERWEN
European Commission
Directorate General of Energy
DG-XVII
200, rue de la Loi
B-1049 Brussels
BELGIUM
Tel.: +32 2 2965734
Fax: +32 2 2966283

IATA
Mr. J. ABOUCHAAR
Assistant Director, Special Cargoes
International Air Transport Association
800 Place Victoria
P.O. Box 113
Montréal, Quebec H4Z 1M1
CANADA
Tel.: +1 514 390 6746
Fax: +1 514 874 2660
e-mail: abouchaarl@iata.org

ICAO
Ms. K. ROONEY
International Civil Aviation Organization
999 University Street
Montréal, Quebec H3C 5H7
CANADA
Tel.: +1 514 954 8099
Fax: +1 514 954 6759
e-mail: krooney@icao.int

OBSERVER
Mr. F. ZAMORA
Consejo de Seguridad Nuclear (CSN)
Instalaciones Radioactivas Industriales y Transporte
Justo Dorado, 11
E-28040 Madrid,
SPAIN
Tel.: +34 91 3460476
Fax: +34 91 340588
e-mail: fzm@csn.es
AGENDA

Third Meeting of the IAEA Transport Safety Standards Advisory Committee
Vienna, Austria

4 - 8 May 1998

1. Opening of the meeting - Mr. A. J. González, DIR-NSRW

2. Statement by the Chairman - Mr. F.W. Collin

3. Administrative information - Mr. R. R. Rawl

4. Adoption of the Agenda (WP 1)

5. Update on the activities of the ACSS and overall Safety Standards Series matters
   5.1. ACSS activities (WP 2) - Mr. A. Karbassioun
   5.2. Unified procedure for the preparation and review of Safety Standards Series publications (WP 3)

6. Reports from representatives of Member States and International Organizations on their regulatory activities and issues, including plans for revisions based on ST-1
   6.1. Member States - TRANSSAC Members
   6.2. International Organizations
      6.2.1. UN Committee of Experts
         6.2.1.1 Update on restructuring the IAEA ST-1 Transport Regulations to the UN Recommendations (WP 4) - Mr. G. Dicke
      6.2.2. International Civil Aviation Organization (ICAO) - Ms. K. Rooney
      6.2.3. International Maritime Organization (IMO)
         6.2.3.1 INF Code
         6.2.3.2 IAEA/IMO/UNEP Literature Review on the Potential Consequences Resulting from Severe Maritime Accident Scenarios Involving the Transport of Radioactive Material (WP 5) - Mr. R. Rawl
      6.2.4. European Commission (IP 5) - Mr. I. van Gerwen
      6.2.5. ADR/RID - Mr. K. Ridder
6.2.6. Others

6.3 Radioactive Transport Study Group - Mr. C. Young
6.3.1 Questionnaire on national regulatory requirements for the transport of radioactive material (WP 20) - Mr. M. Cosack

7. Status report on recommendations made by TRANSSAC II (WP 6) - Mr. R. Rawl

8. Activities related to General Conference Resolution GC(41)/RES/12 and TCM-1077 on International Instruments Related to the Safe Transport of Radioactive Material (IP 1) - Mr. R. R. Rawl

   9.1. ST-1, Regulations for the Safe Transport of Radioactive Material - Mr. G. Dicke
   9.3. ST-3, Safety Guide: Planning and Preparing for Emergency Response to Transport Accidents Involving Radioactive Material, including review and approval for presentation to ACSS - Mr. L. Blalock
   9.4. SS No. 112, Compliance Assurance for the Safe Transport of Radioactive Material
   9.5. SS No. 113, Quality Assurance for the Safe Transport of Radioactive Material

10. CSM to Develop a Simplified Model of the IAEA Transport Regulations (WP 9) - Mr. G. Dicke

11. The Transport Regulations revision process
   11.1. TCM-405.6, Technical Committee Meeting on the Comprehensive Review of the Transport Regulatory Approach, 2-6 June 1997 (WP 10)
   11.2. Quality in the regulatory process (WP 11)

12. Activities of other IAEA advisory bodies (WP 12)
   12.1. Follow up on the Report of the PPAS review (WP 13)
   12.2. RASSAC - Mr. C. Mason
   12.3. WASSAC (WP 17) - Mr. R. Raynal
   12.4. NUSSAC - Mr. D. Lacey
   12.5. Draft IAEA Safety Glossary (WP 18) - Mr. I. Barraclough
   12.7. International Requirements for Radiological and Nuclear Emergency Preparedness and Response (WP 21) - Mr. M. Crick

13. Research and Development
   13.2. IAEA Coordinated Research Programmes (WP 14) - Mr. L. Blalock
   13.3. Transport Accidents and Incidents and the International Nuclear Events Scale (WP
15) - Mr. K. Shaw

14. Information Services
   14.1. Update on Information Services (IP 2) - Ms. M.T. Brittinger
   14.2. Report of the TCM-1048 on Transport Safety Data Bases (WP 16) -
         Mr. K. Shaw
   14.3. Report of Member State Implementation of the Transport Regulations (IP 3) - Ms.
         M.T. Brittinger

15. Training Activities (IP 4) - Ms. M. T. Brittinger
   15.1. Training courses
   15.2. Supporting material

16. Review of the overall Transport Safety Programme (WP 8)

17. TRANSSAC Membership

18. Any other business

19. Close of Meeting
3rd Meeting of
The Transport Safety Standards Advisory Committee
(TRANSSAC III)

LIST OF WORKING AND INFORMATION PAPERS

Working Papers

WP 1 Rev. 3. Agenda

WP 2 Advisory Commission on Safety Standards Report of last meeting

WP 3 Preparation and Review of Safety Related IAEA Publications

WP 4 Update on restructuring the IAEA Transport Regulations to the UN Recommendations

WP 5 IAEA/IMO/UNEP Literature Review on the Potential Consequences Resulting from Severe Maritime Accident Scenarios Involving the Transport of Radioactive Material

WP 6 Status Report on recommendations made by TRANSSAC II

WP 7 Status and Plans for Safe Transport Safety Standards Series Publications

WP 8 Review of the overall Transport Safety Programme

WP 9 CSM to Develop a Simplified Model of the IAEA Transport Regulations

WP 10 TC-405.6 Chairman's Report

WP 11 Quality in the regulatory process

WP 12 Activities of Other IAEA Advisory Bodies

WP 13 Report of the PPAS Review

WP 14 Transport Safety Unit Co-ordinated Research Programs

WP 15 Transport Accidents and Incidents and the International Nuclear Event Scale

WP 17 Radioactive Waste Safety Standards (RADWASS) Publication Plan

WP 18 Draft IAEA Safety Glossary


WP 20 Questionnaire on national regulatory requirements for the transport of radioactive material

WP 21 International Requirements for Radiological and Nuclear Emergency Preparedness and Response (WP 21) - Mr. M. Crick

WP 22 Towards an Extension of the Definition of Fissile Materials and their Mass Exemption Limits

WP 23 The Regulatory Implications of the MSC Carla Shipwreck: Comments about the Immersion Performance of Packages, France

WP 24 Table 1. Documents in the Radiation Safety Standards Series


WP 26 Presentation by Ms. Wieland on Communication of Nuclear Safety

WP 27 Presentation by Mr. Lacey, Coordination for NUSSAC

Information Papers

IP 1 Activities related to General Conference Resolution GC(41)/RES/12 and TCM-1077 on International Instruments Related to the Safe Transport of Radioactive Material

IP 2 Update on Transport Safety Information Services


IP 4 Update on IAEA Transport Safety Training


IP 6 International Conference on Topical Issues in Nuclear, Radiation and Radioactive Waste Safety, 31 August - 4 September 1998, Vienna, Austria
IP 7  Competent Authority of Argentina: 1997 Main Regulatory Activities on Safe Transport of Radioactive Material

IP 8  Information provided by the United States of America

IP 9  Experience Feedback from Expert Safety Appraisal of RCC Casks for the Transport of Fresh Fuel Assemblies - France