



14th International Symposium on the Packaging and 119
Transportation of Radioactive Materials (PATRAM 2004),
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Safety of Transport of Radioactive Material

Presentation at PATRAM 2004

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IAEA

International Atomic Energy Agency

Major Initiatives Since 2001

- ▶ International Conference on the Safety of Transport of Radioactive Material
- ▶ Action Plan for the Safety of Transport of Radioactive Material
- ▶ Publication of Regulations for the Safe Transport of Radioactive Material, TS-R-1 (As Amended 2003)
- ▶ TranSAS Missions to Brazil, UK, Turkey, Panama and France
- ▶ Standardised Training Materials

International Conference on the Safety of Transport of Radioactive Material

- Took place in Vienna, Austria, 7-11 July 2003
- Chaired by Ambassador M. Hughes, Australia, and attended by:
 - 451 senior officers and scientists from 73 Member States
 - 3 co-sponsoring organizations
 - 2 cooperating organizations
 - 7 international professional bodies
 - 3 observers
- Discussed technical issues in sessions and panels
- Reviewed issues related to liability and communication

International Conference: **Summary of Technical Issues**

- Radiation Protection Programmes
- Compliance and Quality Assurance
- Emergency Preparedness and Response
- Effective Packaging Regulations
- Global Marketplace for Radioactive Material
- Regulatory Criteria

International Conference: **Summary of Technical Issues**

- Non-routine Transport
- Naturally-Occurring Radioactive Material
- Sound Regulatory Process
- Adequacy of Regulatory Regime
- Improvements in Transport Regulatory Regime
- Refusals of Shipments

International Conference: **President's Closing Remarks**

- Transport is essential for a wide range of beneficial uses and its safety record is excellent.
- Transport will be accepted providing people are confident that it is safe.
- IAEA Regulations provide a sound basis for safe transport.
- Regulations should be as simple to apply as possible with sufficient guidance.
- Regulations must be applied consistently in all Member States to all types of transport.

International Conference: **President's Closing Remarks**

- The International Conference exchanged information on critical issues.
- There are complex legal issues that were not resolved.
- Comprehensive adherence to a global liability regime is required.
- Enhanced communication and understanding is essential for better cooperation.

Action Plan for the Safety of Transport of Radioactive Material

- IAEA General Conference requested the Director General to develop a transport safety action plan. The action plan should:
 - be based on the results of the Conference and within IAEA's competence;
 - be developed in consultation with Member States; and
 - provide direction for work in transport safety to be undertaken by the Agency during the next 5 years.
- Action plan was approved by the Board of Governors at its March 2004 meeting.

Action Plan: **Summary of Topics**

- Transport Regulations and their harmony with UN and other International Organizations
- Compliance and Quality Assurance
- Safety of Transport of Recovered Sources
- Transport Safety Appraisals (TranSAS)
- Denial of Shipments
- Naturally-Occurring Radioactive Material
- Radiation Protection Programmes

Action Plan: **Summary of Topics**

- Severe Accident Research
- Training Programmes
- Emergency Response
- Member States' Regulations
- International Optimisation of Regulations
- Transport Events Database
- Liability
- Communication

Action Plan: **Status of Actions**

- **Transport Regulations**

- 2003 Edition published and printed in September 2004.
- Publication in official languages to be initiated in 2004.
- 2007 Edition review initiated.
- Review of review and revision process initiated.

- **Compliance and Quality Assurance**

- QA document to MS for 120 day comment in March 2005
- CA document preparation profile initiated.

Action Plan: **Status of Actions**

- **Transport Safety Appraisals (TranSAS)**
 - TranSAS Reports for Brazil, United Kingdom, Turkey, Panama and France published and printed.
 - Review of methodology initiated with Consultant Services.
 - TranSAS to Japan initiated for 2005 appraisal.
- **Denial of Shipments**
 - Fact-finding discussion forum held July 2004
 - Consultant's Services convened July 2004
 - Report to General Conference September 2004

Action Plan: **Status of Actions**

- **Naturally-Occurring Radioactive Material**
 - Expect to initiate Coordinated Research Project in October 2004
- **Radiation Protection Programmes**
 - Completion and publication of guidance material in March 2005
- **Severe Accident Research**
 - To date insufficient Member State response to initiate Coordinated Research Project
- **Training Programmes**
 - Update of training material to be initiated December 2004

Action Plan: **Status of Actions**

- **Member States' Regulations**
 - Member States data for 2004 posted on the web in August 2004
 - Updated every year thereafter
- **International Optimisation of Regulations**
 - Annual Interagency coordination meetings to be reinstated beginning March 2005.
- **Transport Events Database**
 - Official Points of Contacts to be contacted for information in October/November 2004

Action Plan: **Status of Actions**

- **Liability**

- Period meetings of INLEX to include discussions of liability in transport

- **Communication**

- Seminar on complex technical issues in transport of radioactive material to be held in Vienna in October 2004
- INES (International Nuclear Events Scale) incorporation of transport events initiated in May 2004; final document expected in November 2005

Regulations for the Safe Transport of Radioactive Material

- 'As Amended 2003' edition approved by the Board of Governors in June 2004;
- Published on website and printed in August 2004;
- Expect to submit 'As Amend 2005' edition to Board of Governors in November 2004;
- Publication on website and printing 'As Amend 2005' edition in 2005.

TranSAS Missions - Findings

- TranSAS Mission to Brazil completed in April 2002
 - report published and printed in September 2003
 - all areas of transport well addressed
 - formal agreements with other CA recommended
- TranSAS Mission to UK completed in June 2002
 - report published and printed in September 2002
 - sound safety culture in transport regulations
 - areas identified in which improvements can be made

TranSAS Missions - Findings

- TranSAS Mission to Turkey completed in March 2003
 - report published and printed in August 2004
 - high level of control and monitoring
 - approval of drafted regulations recommended
- TranSAS Mission to Panama completed in Nov. 2002
 - report published and printed in August 2004
 - highly qualified personnel and considerable number of good practices in transport through the Panama Canal
 - procedures are necessary in shipments in Panama

TranSAS Missions (cont.)

- TranSAS Mission to France completed in March 2004
 - report published and printed in September 2004
 - comprehensive legal framework and number good practices
 - areas for possible improvements have been identified

TranSAS Missions : **General Findings**

TranSAS missions to date has generally confirmed regulatory practices that support the safe transport of radioactive material.

Areas where improvements could further enhance the safe transport of radioactive material have been identified.

Some of the identified good practices could be beneficial for other States.

Positive feedback about the value of a TranSAS mission has been received from all countries that have had a mission.

Standardised Training Materials

- Revised training material published in 2002 as Training Course Series No. 1, 3rd Edition
- Based on TS-R-1 (ST-1 Revised)
- Features exercises included at the end of every chapter

Summary

- The International Conference identified areas in transport safety for IAEA attention;
- Action Plan provides workload for the next 5 years;
- The Regulations, 2003 'as amended' published;
- Submit 2005 edition to Board in November 2004;
- 5 TranSAS Missions – published and printed reports;
- Standardised Training Material available.

Thank you for your attention