Radiation Safety Information Management System

TSA7 – Transport Safety Country Profile
Editing my Country Profile

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1 - Legal and Regulatory Framework

Describe the current status:

- Describe what Regulations for Safe and Secure Transport of Radioactive Materials (TRAM) are in force in the country and indicate their compatibility with IAEA safety standards.
- Describe what organization/s is/are appointed as competent authority/s (CA) in charge of safety of TRAM and what are their responsibilities.
- Describe what law/act supports it/them.
- Describe the review/revision process for Regulations on TRAM to keep them up to date and who is responsible for that?
- Is the CA responsible for compliance assurance with the regulations? Describe how it is performed.
- Has the CA the legal authority to issue approvals if appropriate, to conduct inspections, to enforce response to non-compliances and to make provisions on transport-related emergency response?
- Is the CA independent of stakeholders in the industry and does it have access to experts in all relevant fields?
- Are shipments of Radioactive Material (RAM) denied or delayed in the county and if so is there a system in place to deal with such denials or delays and how does it work?
2 - Design assessment

- **Describe which types of packages are used and which type of transport operations are performed in the country.**
- **Describe the approval process of package or material designs issued in the country.**
- **Describe the organization/s in charge of the package design assessment, its relationship with the CA and indicate its independence from the applicant and its technical competence in all fields required for making the assessment.**
- **Describe assessments and inspections of packages not requiring approval by the CA.**
- **Describe how the CA witness the appropriate testing during the design assessment process.**
- **Describe the use and application of transitional arrangements as regulated in the transport regulations in the country.**
3 - Manufacture of materials and packagings

- Describe what packagings or radioactive materials are manufactured in the country

- Describe the process regarding CA inspection of manufacturing facilities and activities, sub-contractors and how the finding are recorded and communicated to the manufacture.

- Describe how the CA confirms that the packagings and radioactive materials manufactured comply with the design specifications

- Describe how the CA confirms that requirements before the first shipment of a packaging are met.
4 - Examination of maintenance and servicing arrangements

- Describe how the CA is assured that due pre-shipment conditions, particularly servicing and maintenance requirements of the packages have been satisfied by the consignor before shipment and how life-time servicing and maintenance of packagings is available.
- Describe how the CA ensures that the person or organization carrying out maintenance and servicing operation has an appropriate management system and that relevant instructions covering maintenance and servicing are up-to-date and available.
- Indicate how the CA assures that last and next maintenance and servicing dates are traced and indicated on packages.
- Describe how the users inform the CA about all safety deviations as well as any significant damages noted during use of packages.
5 - Non-compliance investigations and enforcement actions

- Describe the regulatory requirement and the procedure that the CA is assured that all non-compliances with regulatory limits relative to radiation or contamination levels are investigated by the consignor, carrier or consignee, as appropriate.

- Describe in case of exceeding the regulatory limits how the CA is assured that investigations include the assessment of external dose and possible radioactive intake by transport workers and members of the public.

- Describe the requirement and the system for timely reporting of all non-compliances including transport incidents, as well as their causes and the corrective or preventive actions taken.
5 - Non-compliance investigations and enforcement actions (2)

- Describe the process by which the CA or its authorized representative investigates, as appropriate, the reported non-compliances including transport incidents

- Describe the system established by the CA for the implementation of enforcement action for dealing with non-compliances including transport incidents

- Describe the requirement and the system established for immediate communication to the CA and the consignor in the event of an emergency exposure situation resulting from a non-compliance
6 - Emergency response planning and preparation

- Describe the emergency provisions in place in the event of accidents or incidents during the transport of radioactive material, and how they account for the formation of other dangerous substances.
- Describe the training received by transport workers and other involved individuals and organizations on the relevant emergency preparedness and response provisions and how to apply them.
- Describe the statements usually included in the transport documents regarding actions on emergency arrangements.
- Describe how the competent authority includes emergency arrangements into approval certificates.
- Are sufficient resources available to the competent authority to provide overall direction for response to a transport emergency or, to act as a coordinator or to advice other agencies in response to an emergency?
- Are emergency preparedness arrangements reviewed, inspected or observed?
- Are emergency exercises performed and their results assessed and communicated and are necessary improvements implemented?
7 - Transport Radiation Protection Programmes

- Describe how the CA ensures that radiation protection programmes are in place for transport commensurate to received doses and transport activities for all modes of transport.

- Explain how these programmes are kept up to date and effective

- Describe the periodic assessment made by the CA to ensure that radiation doses to persons due to TRAM comply with GSR-3

- Describe how the CA ensures that appropriate workplace or individual monitoring are conducted for transport workers consistent with SSR-6 requirements
8 - Inspection of transport operations

- Describe the CA’s program for inspections of transport operations for all modes of transport applied in the country to assure compliance with the transport regulations.
- Describe the procedure to be followed in case of non-compliance with transport regulations identified during inspections including appropriate actions to prevent its recurrence.
- Describe how the CA inspects packages of foreign origin in transit in its area of jurisdiction.
- Describe how the CA verifies during inspections if the required information is correctly given in the transport documents.
- Describe how the CA provides the summary of its findings and conclusions to the user upon completion of inspection.
9 - Training and distribution of information

- **What programs and activities have the competent authority undertaken to ensure that all persons engaged in transport related activities receive training in transport regulatory requirements and radiation protection commensurate with their responsibilities.**

- **How has the competent authority ensured that transport training programs include familiarization with all relevant hazards associated with the transport of radioactive material; specific training for a workers transport function and general safety training? Has the Competent Authority audited training courses provided to transport workers to verify the inclusion of these components?**

- **How does the competent authority ensure that emergency response personnel receive training for incidents involving radioactive material? How does the competent authority assure that emergency responders are trained to respond to all the types of transport conducted in their country?**
9 - Training and distribution of information (2)

• Does the competent authority encourage the exchange of information concerning the safe and secure transport of radioactive material? Does the competent authority participate or sponsor training courses and seminars on the safe transport of radioactive material to facilitate the transfer of information and can such information be aimed to prevent denials and delays of radioactive material shipments?

• What record keeping requirements for safety training undertaken has the Competent Authority established for employers of transport workers? Do these requirements require the employer to maintain records for their employees? Is the employer required to provide training records to employees upon request? How has the Competent Authority ensured these records are maintained?
9 - Training and distribution of information (3)

• What re-training requirements have been established by the competent authority? What is the maximum validity period for worker training programs? May the employer offer periodic refresher training or is the transport worker required to repeat the entire training program?

• What training programs have the Competent Authority established for their own employees? How has the Competent Authority identified the appropriateness and adequacy of this training program? Do the record keeping requirements for employers apply to the Competent Authority? Does the Competent Authority provide training records to employees?

• How does the competent authority ensure that transport Radiation Protection Programs address the need for activity-specific training and information?
10 - Issuing of approvals

• Does the CA issue approval certificates of materials or package designs or shipments or special arrangements?
• If the reply to the above question is YES, describe the procedure for issuing approval certificates and how the transport regulations SSR-6 are complied with for each type of approval used
• Is there guidance available to the applicants for obtaining approval certificates and if so describe its scope?
• Does the CA has resources available to perform multilateral approvals in case of international shipments and describe the procedure applied to perform this task
• Describe the procedure to ensure that the manufacture, servicing and use of the package are in compliance with the approval certificate specifications
• Describe the procedure to obtain documentary evidence that packages not requiring CA approval meet all applicable requirements of the transport regulations
11 - International/National liaison and cooperation

• **Identify the different CAs involved in TRAM in the country with their specific responsibilities, describe their cooperation and how they ensure compliance with transport regulations for radioactive materials as well for other dangerous goods**

• **Describe how cooperation with other Member States is conducted in particular regarding compliance with transport regulations and relevant international agreements and when States are effected by incidents involving international transport**

• **Describe how CA keeps in contact with other governmental authorities, agencies or persons, e.g. to ensure appropriate exchange of information regarding transport regulations, consistent application of inspection and enforcement, comprehensive review of emergency response measures, prevention of denial and delay of shipment situations**

• **Describe liaison of CA with customs authorities, security authorities, environmental agencies and governmental bodies responsible for transport of other dangerous substances**
12 - Management systems for transport

- **Describe the management system of the CA**
- **Describe how the CA ensures that transport organizations have their own management system in compliance with the requirements of the transport regulations**
- **Describe how the CA verifies that the management system of the organizations is consistent and commensurate with the transport activities performed**
- **Describe the programme of the CA for audits and/or reviews of the management system of manufacturers to ensure that all the requirements have been correctly implemented, in particular related to the conformity of the prototype with the package design, the verification of the supplier’s management system, the contingency control, the potential changes to the manufacturing arrangements**
12 - Management systems for transport (2)

- *Describe how the CA ensures that audits of management systems are planned and carried out by qualified persons selected for their independence from the activity under audit*

- *Describe how the CA ensures that significant changes to the management system of transport organizations are subject to CA acceptance*