



60 Years

Atoms for Peace and Development

# Radiation, Transport and Waste Safety

PEER REVIEWS

## TranSAS | Transport Safety Appraisal Service

### Why is it important?

Today, all manner of products that we take for granted are dependent upon the reliable transport of radioactive materials from manufacturer to end user. Each day thousands of shipments of radioactive materials are transported around the world.

The objective of a TranSAS appraisal is to assist any requesting State to achieve a high level of safety in the transport of radioactive material by reviewing its implementation of the Transport Regulations and by making recommendations for improvement where appropriate.

### What do I need to know?

The appraisal service may include an evaluation of effectiveness in the following areas:

- Legislative and governmental responsibilities;
- Responsibilities, functions, organization and activities of the regulatory body;
- Emergency preparedness for transport;
- Maritime transport;
- Air transport.

Because transport often has multiple regulators, many of whom have an influence on the safe transport of radioactive material, a TranSAS mission will only be initiated after the IAEA has been formally approached by a Member State at the governmental level. This ensures that the request is endorsed by all bodies potentially involved.

TranSAS is compatible with the transport module of the Integrated Regulatory Review Service (IRRS), and will generally be carried out in the course of an IRRS Mission. However, if implemented separately, a TranSAS mission may extend beyond regulatory infrastructure to examine the safety infrastructure related to transport. TranSAS is also fully compatible with the Self-Assessment of Regulatory Infrastructure for Safety (SARIS), which can be used in preparing for the mission.

The TranSAS mission report is provided to the host country. Further distribution of the mission report is at the discretion of the Member State. The report provides recommendations and suggestions for where the organization or performance can benefit from improved procedures or more effective processes, and it identifies good practices as noted during the mission. The decision to implement any recommendations in the report lies entirely with the relevant authorities of the host country.

## What actions are recommended?



The Member State government should submit a request to conduct a TranSAS mission to the IAEA.



The Member States should complete the transport safety section of the SARIS assessment questionnaire online prior to the mission.



Member States should consider making their mission reports available to their stakeholders.



Member States should request a follow up mission three to four years after the initial mission to assess progress.

## Other Important Information

**Who benefits?** All organizations involved in the transport of radioactive material, including regulators, operators, legislators, law enforcement at the national, local and facility level (depending upon the scope), customs officials, and port operators

**What is the service mission or team composition?** The mission team normally comprises two IAEA staff and up to ten experts depending on the scope of the mission. An option for an expert-only team has been developed to offer a basic appraisal based on assessment results from the SARIS application.

**How long is the mission?** The mission usually lasts one to two weeks.

**Are these reports made public?** The IAEA and the Member State receive copies of the mission report. Further distribution of the mission report is at the discretion of the Member State. All but the first TranSAS Mission Report have been issued as IAEA publications.

**What is the recommended frequency or follow up?** A follow-up mission is conducted upon request of the Member State three to four years after the implementation of mission recommendations.

**What are the prerequisites?** The Member States should complete the transport safety section of the SARIS assessment questionnaire online prior to the mission.

**Who hosts TranSAS missions?** Missions have been hosted by Member States with “young” regulatory systems, Member States shipping large quantities of radioactive material internationally and Member States with significant amounts of transiting radioactive material.

## Resources

*TranSAS Web Page*

<http://www-ns.iaea.org/appraisals/transas.asp>

*SARIS Web Page*

<https://www-ns.iaea.org/tech-areas/regulatory-infrastructure/sat-tool.asp>

**Email:** [transportsafety@iaea.org](mailto:transportsafety@iaea.org)

**Visit:** [https:// www.iaea.org/transport](https://www.iaea.org/transport)

