

GOOD PRACTICE GUIDE

WNTI Transport Principles

Dedicated to the safe, efficient and reliable transport of radioactive materials



WNTI Best Practices

Transport Principles

Transport Principles

The World Nuclear Transport Institute (WNTI) has determined, after careful examination of the wide experience of its Members, that the following Transport Principles represent best practices in the field of safety and security for organisations involved in the transport of radioactive material.

Each Industry Member (called hereunder Organisation), including but not limited to WNTI Members, is encouraged to implement these “WNTI Transport Principles” for the part related to their own activities and as a basis for the requirements they may have toward their subcontractors. These Principles come in addition to the fact that all relevant regulations are complied with and subcontractors are required to do the same and these principles do not contradict any of the statutory requirements.

Transport Principles

1. A technical and regulatory study is performed before any shipment or series of shipments, and action is taken to mitigate any identified issue to the extent reasonably possible.
2. A regulatory watch is performed to anticipate changes in due time.
3. Relevant training is provided to our staff and a safety and security culture is promoted through the Organisation.
4. The ALARA principle for radiation protection is applied to transport activities, and the environmental impact of all choices is taken into consideration as well as social and economical considerations.
5. Instructions and specifications are defined clearly in writing to the subcontractors, which are requested to do the same with their subcontractors and so forth.
6. The technical, administrative and other capabilities of subcontractors are appraised, and their activities for the Organisation are monitored.
7. A quality management system is implemented, and provides evidence that the present Transport Principles are applied.
8. Physical protection measures are considered and implemented as required, including related information control.
9. The compatibility is checked between the radioactive material to be transported, the packaging, the license or validation in all countries involved, the conveyances, including the maintenance status as applicable.
10. Packages are handled, stowed and tied down with due care and diligence, according to written instructions as necessary, and subcontractors are asked to do the same with their subcontractors and so forth.
11. Consignments can be located as agreed upon with the customer, and all measures are put in place to ascertain that the consignment reaches its final destination.
12. Inspections are performed at relevant handling and transfer locations as identified by risk analysis.



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13. Customers are informed of any incident, and of any delay as stipulated.
14. An advisor on call is maintained for stakeholders at all times when a shipment is ongoing, and the Organisation is prepared to provide support at all such times.
15. Feedback analysis is performed and corrective action taken after any abnormal occurrence in order to improve the service to Customers.
16. Transport archives are maintained for a minimum of three years.
17. Periodic emergency exercises are organised, involving stakeholders where feasible.
18. Assistance is offered to customers in their transport operations.
19. The Organisation endeavours to be a “good neighbour”, and reaches out to its stakeholders to explain its activities.
20. The Organisation endeavours to assist regulatory agencies, so that operational constraints and feedback are taken into account.

Implementing the Transport Principles, being Best Practices, is beneficial in transport activities. However, WNTI Members and their subcontractors are in no way obligated to comply with any or all of the Transport Principles, except when required by contract or by Regulations. Industry Members are free to decide at their sole discretion as to whether or not to include these Transport Principles as part of their requirements for their supply chain. In addition, the Transport Principles are not a tool for discriminating against any of the subcontractors, except when they are explicitly included in the requirements towards the latter, nor to contravene any applicable laws and regulations.

The WNTI, its Members and its representatives, either collectively or as individuals, accept no liability or responsibility for the use or suitability of this document or its contents, which shall be used at the sole responsibility of the party using the same.

Photographs

- 1 Preparing drums of uranium ore concentrate for transport
- 2 Front end transport in France
- 3 Rail-road transfer at Valognes Terminal, France
- 4 Preparation of Cobalt-60 container for transport
- 5 Inspections prior to road transport



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