Technical Guide

Compliance Inspections by the European Competent Authorities on the Transport of Radioactive Material

Issue 1 – February 2015



FOREWORD

This Technical Guide has been developed by the competent authorities and their support organisations responsible for the transport of radioactive material. The correspondence working group included representatives from Belgium, United Kingdom, Ireland, Spain, Finland, France, Germany, Sweden and Switzerland.

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It is intended that this Technical Guide will be used within European States and that it will assist all European competent authorities responsible for the transport of radioactive material. It is intended that the Guide will assist them in formulating the scope of their various compliance inspections and enable the competent authority to meet its obligations for regulatory oversight.

COMMENTS ON THIS DOCUMENT

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1. Introduction and Generalities

1.1 Introduction

The competent authorities are responsible for assuring compliance with the applicable national regulations and international dangerous goods regulations and Agreements relating to the safe transport of radioactive material.

The term 'compliance assurance' has a broad meaning which includes all of the measures applied by a competent authority that are intended to ensure that the provisions of the Transport Regulations are complied with in practice.

A compliance assurance programme can only be implemented if its scope and objectives are conveyed to all parties involved in the transport of radioactive material (i.e. designers, manufacturers, consignors and carriers).

There is likely to be differences between States in how the authority, responsibilities and operating functions of a competent authority are structured. It is therefore important that each competent authority uses this document template and in this section describes how the various duties and responsibilities are operated to ensure there are no overlaps or gaps.

There are two distinct sectors that need to be considered and documented, namely:

- Nuclear sector,
- Non-nuclear sector (research, industrial and medical),

The importance of competent authorities carrying out similar programmes of compliance inspections on duty holders should not be underestimated. The resources available in many competent authorities results in a graded approach risk based model being used. For international transports it is therefore very important to know to what extent regulatory oversight and interventions are taking place, particularly when the shipment 'transits' en route to elsewhere. To have an appropriate understanding of the compliance and safety performance of the duty holders involved it is essential that competent authorities en-route develop a harmonised approach to verify compliance.

1.2 Objectives and Scope

The principal objectives of a systematic programme of compliance assurance are:

- To provide independent verification of regulatory compliance by the duty holders of the Transport Regulations;
- To provide feedback to the regulatory process as a basis for improvements to the Transport Regulations and the compliance assurance programme.

An effective compliance assurance programme should, as a minimum, include measures related to:

- Review and assessment, including the issuance of approval certificates;
- Inspection and enforcement.

The competent authority should perform audits and inspections as part of its compliance assurance programme in order to confirm that the users are meeting all applicable requirements of the Transport Regulations and are applying their management system. Inspections are also necessary to identify instances of non-compliance which may necessitate either corrective action by the user or enforcement action by the competent authority.

It is recognised that different States have different regulatory structure regarding compliance assurance of the transport of nuclear and non-nuclear radioactive material. Other State specific regulations that are more stringent than European Union Regulations may apply to the inspections of the transport of radioactive material. It is also recognized that the competent authority in some States may also be the competent authority on the Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation and their implementation into the national regulations. Council Directive 2013/59/Euratom of 5 December 2013 laying down basic safety standards for protection against the dangers arising from exposure to ionising radiation, and repealing Directives 89/618/Euratom, 90/641/Euratom, 96/29/Euratom, 97/43/Euratom and 2003/122/Euratom, enters

into force on 6 February 2014 and Member States should bring into force the laws, regulations and administrative provisions necessary to comply with this Directive by 6 February 2018. Consequently, inspections of transport may be a part of a more general inspection of a radiation practice. The scope of this guide is therefore limited to the requirements set in the common Transport Regulations, namely:

- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR);
- Regulations concerning the international carriage of dangerous goods by rail (RID), appearing as Appendix C to the Convention concerning International Carriage by Rail (COTIF);
- International Maritime Dangerous Goods (IMDG) Code;
- European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN);
- Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO);
- INF Code.

There are other Regulations, European Directives, Agreements that apply to transport but are not relevant to the scope of this guide. Details can be found on the EACA website.

This document is intended:

- To assist the competent authorities for the establishment and execution of their compliance assurance programmes;
- To provide a harmonised approach for competent authorities to perform their compliance assurance programmes.

This document does not replace the regulations or limit their application.

If there are any discrepancies between this document and the regulations, the requirements in the national and international regulations apply.

1.3 Definitions

The definitions stated in the Transport Regulations apply throughout this document.

1.4 Important need to share and collate information

To enable a judgement to be made as to whether an organisation is compliant with the appropriate regulatory requirements and is competent to carry out their duties and responsibilities the following information needs to be collated and considered:

- Involvement in previous incidents or accidents on file;
- Knowledge specific to industry sector;
- Findings from previous compliance audits/inspections;
- Information from other Government Departments from their audits/inspections.

The scope of the compliance inspections given in this document is not extensive in nature, apart from the incident investigation, which should be extensive in nature to establish the cause and risk of reoccurrence. The scope of the inspections will identify key salient and important points for inspection but not all aspects will be covered. The quality of the information obtained will be dependent upon the experience and skill of the competent authority inspector.

In many States the responsibilities for inspection is shared amongst more than one Government department and it is therefore important that a system of sharing information and intelligence is established with all parties involved having a common understanding of who does what and when.

1.5 Duty holders in transport modal regulations

Each of the modal regulations on transport of dangerous goods identifies duty holders and provides details of their duties and responsibilities. As an example the duty-holders identified in ADR are:

- Consignor,
- Filler,
- Loader,
- Packer,
- Carrier,
- Consignee,
- Unloader.

For Class 7 goods there are other important functions that require special attention since the safety of the radioactive material during transport is primarily provided by the packaging. Consequently the package designer, packaging manufacturer, packaging test facilities and packaging maintenance/repair facilities all have crucial roles that can affect the condition of the package and its compliance with the transport regulations. Consequently this document identifies inspection schedules for each of these functions.

2. RESPONSIBILITIES OF THE COMPETENT AUTHORITIES

2.1 National

The competent authority is responsible for assuring compliance with the transport regulations. To implement these responsibilities in an inspection programme or a management system it is necessary to consider some general aspects which are explained in the following chapters.

Usually more than one national authority is responsible for the control of the transport of radioactive material (e.g. the competent authority for the radiation protection, the competent authority for the transport and the competent authority for emergency response). In this case there should be legal or formal agreements between these authorities covering the responsibilities of each competent authority. This is a very important aspect especially, if there are any areas of overlap or, more importantly, gaps concerning the responsibilities. The concerned authorities should cooperate closely. There should be for example periodic meetings to exchange information (e.g. results of inspections, occurrences and non-compliances, consistent application of inspection and enforcement measures) and to discuss issues regarding the transport of radioactive material (e.g. planning and carrying out coordinated controls). A list of all national competent authorities that are responsible for the control of the transport of radioactive material should be published and regularly checked to verify that it is correct.

2.2 International transport routes

This is an important area where the sharing of information and intelligence between States is necessary to provide the necessary assurances that compliance with transport regulations, and hence levels of safety, are being achieved by duty holders.

Border controls will detect issues surrounding transport documentation, driver training (transport by road), placarding and package marking and labelling. However issues relating to packaging manufacture, the appropriateness of permitted self-certification of package designs (e.g. Type A), packaging maintenance, package configuration management, repairs and correct filling will not be detected, although incorrect filling may be detected by dose rate measurement for some package contents.

The purpose of this document is to provide a common basis for each competent authority to carry out compliance inspections on each of the activities and duty holders involved in the transport process.

The European Association of Competent Authorities (EACA) provides a forum and network to exchange information obtained from the compliance inspections described in this document. If this guidance is adopted by EACA members, it will enable each State to understand what compliance checks are being carried out by States en-route thereby enabling a duplication of work to be avoided or for additional inspections to be carried out to cover any gaps in knowledge about the duty holder or the package being transported.

This approach to shipments by several competent authorities having a common interest based upon transport routes will be discussed further following the issue of the document to the EACA members.

2.3 Qualifications of the employees

Only appropriate qualified persons should be engaged in the control of transport of radioactive material. Therefore recommendations for a national education and training programme should be developed. Relating to this programme each concerned authority should establish and maintain a programme for the education and training of its own personnel. The jobs and the associated duties and responsibilities of the personnel should be specified so that the necessary education and training can be determined and provided. The education and training programme for an individual may also vary slightly or considerably, depending on its relevant experience. Each concerned authority should maintain adequate records of its education and training plans, the performance of individuals and the

authorisation issued. Common inspections of the involved authorities could be a part of the education and training programme. International workshops and conferences are also important aspects of the education and training of the personnel.

2.4 Documentation and analyses of the inspection results

Each inspection should be recorded. The record should include a summary of the results and findings as well as the initiated measures, and should be brought to the attention of the inspected organisation. The result of all relevant inspections as well as their findings should be annually analysed by the competent authority. The analysis should be published in a report (additionally to the report in accordance with Council Directives 2004/112/EC and 2008/54/EC). Such analysis will help the competent authority in detecting unsatisfactory performances or trends and inform the inspection programmes for the following year. The analysis will also provide knowledge of what guidance material is required to inform the industry sectors and change their behaviours and improve compliance.

In case the inspector carries out measurements of radiation and/or contamination levels the radiation monitors used are identified in the inspection report, including their calibration data.

In case the inspector uses checklist from this technical guide, all the points made in these checklist need not to be adressed. Selection of the appropriate check point will depend on the specific circumstances of audit and/or inspection.

2.5 Measures and Penalties

The findings and violations of the transport regulations should be categorized according to the Council Directives 2004/112/EC and 2008/54/EC. Depending on the safety significance of the violation or non-compliance a range of enforcement actions should be applied. Graded measures can be for example written notices, suspensions, prosecutions (monetary fine and/or criminal penalty) or revocation of approvals or certifications. In each case the controlled organisation should get a record of the results of the control. In the case of findings or violations with safety significance the transport must comply with the transport regulations before departure or continuation of the transport as well as the transport is allowed to enter the Community.

It is recommended that States and competent authorities share information on relevant enforcement actions relating to international transports.

3. PREPARATION FOR AUDIT / INSPECTION

3.1 Annual inspection plan

Inspections should be planned by the competent authority on an annual basis and the duty holders involved notified accordingly (announced inspections). This plan may include unannounced inspections that will remain confidential to the competent authority (see section 3.2). The intention of the announced inspections should not be to try and catch duty holders out, it is more important to find out what is happening and to develop a strategy that informs and promotes a compliant and safe industry. It is therefore preferable to have a programme of inspections for industry sectors with the selection of organisations being based upon a risk based model and not one which reacts to incidents or accidents. Helpful to set up such an inspection program may be means as Safety Performance Indicators (SPI): SPIs provide a means of measuring performance (by compliance rates) and detecting early if these rates are reducing thereby giving time for contingency plans to be put in place (e.g. targeted guidance or information). SPIs are useful for enabling inspector resources to be used more effectively. An annual inspection plan may preferably consist of announced inspections but can also contain unannounced ones.

An advantage of announced inspections is that the appropriate personnel will be available for the inspection and this will increase the effectiveness of the inspection as information and documentation is more likely to be made available to the inspector.

3.2 Unannounced inspections

Unannounced or shorter notified inspections [notified closer to the planned inspection date] should be used when acting upon information/knowledge/experience or if the organisation has a history of noncompliance or incidents.

Details of these unannounced inspections should remain confidential enabling the competent authority to perform them as intended and increase their effectiveness.

Unannounced inspections could also be used to monitor the corrective actions taken with respect to findings already identified in a previous inspection.

Unannounced inspections could also be advantageous, as they would help prevent the impression within the general public that the organisation could remedy or hide deficiencies before the known date of inspection.

3.3 Time taken for inspection

Time is an important factor, especially for smaller organisations that have limited resources. The inspection should therefore be planned in a way considering the needs of those organisations, nonetheless sufficient time should be allowed for the review of transport documents, training records, marking and labelling, emergency arrangements, etc. An outline of the inspected areas should be provided in case of an announced inspection including an estimation of the time required.

3.4 Inspection agenda

To ensure an announced inspection is carried out effectively an inspection agenda should be sent to the organisation in advance. The agenda will include the agreed dates and times for the inspection and its scope thereby enabling staff and documentation to be assembled for the inspection.

3.5 Preparation for inspection

For the preparation of the inspection the inspector should consider all available background and records of the organisation to be inspected, as previous inspections reports, certificates, approvals, incidents, non-compliances and enforcement actions. The inspector should take into account the applicable regulations and the transported material data. Based on the available information the inspector will prepare all the documents and checklists necessary to carry out the inspection. The inspector should assign priorities to the inspection points of the checklists for the case that there is not enough time to complete them.

3.6 Inspection process

The inspection may start with an opening dialogue including the involved parties to clarify the scope of the inspection and the needs of the inspectors and the parties. At the end of the inspection, there should be again a final dialogue to communicate first results or findings and give the concerned parties the opportunity for explanation or clarification. After the inspection, the inspectors should provide a written document containing observations and findings to the inspected parties, including a deadline for response as appropriate. The report might be sent to the inspected parties and if required to other authorities for sharing information.

4. COMPLIANCE INSPECTIONS AND AUDITS

4.1 Graded approach to define an inspection programme

In determining the extent of a compliance inspection programme, the competent authority should at least take into account:

- the quantities and types of packages being transported,
- the nature and extent of the transport operations (e.g. percentage and frequency of transports involving radioactive material),
- the incidents and accidents in the past,
- the documented results and findings of previous inspections,
- the size, complexity and activities of the industry for which it has responsibility, as well as
- its own resources (the competent authority should be provided with adequate resources and employees to ensure that all the regulatory requirements are correctly fulfilled in practice).

In all circumstances, compliance inspection programmes should include, as a minimum, the following four fundamental activities relating to

- review and assessment,
- inspection and enforcement,
- emergency response,
- dose records of workers.

Compliance assurance programmes may be relatively simple and straightforward or may be complex and wide ranging, depending on the aspects named above.

4.2 Preliminary remarks on the use of the checklist from this technical guide

The different checklists can be used to determine whether the duty holder has established and is maintaining an effective management program to ensure radiological and nuclear safety for the transport of radioactive material (RAM), and to determine whether the transport activities are in compliance with the Regulations on transport of radioactive material.

Transport activities comprises all the operations and conditions associated with and involved in the movement of radioactive material; these include the design, manufacture, maintenance and repair of packaging, and the preparation, consigning, loading, carriage including in transit storage, unloading and receipt at final destination of loads of radioactive material and packages.

In case the duty holder carries out more activities, the inspector should use the applicable checklists included in the annexes of this technical guide.

In case the inspector uses checklist from this technical guide, all the points made in these checklist need not to be adressed. Selection of the appropriate check point will depend on the specific circumstances of audit and/or inspection.

4.3 Compliance audit of package or special form radioactive material design activities

The compliance audit of a package or special form radioactive material designer, including testing and representativeness of the package or special form radioactive material model, should include as a minimum the following items, if applicable:

- Company details and organisation
- List of packages (model, type, reference of PDSR, if applicable certificate of approval)
- Management System (see §4.12)
- Common information
- Management of resources
- Package or special form radioactive material design activities

- Package or special form radioactive material design demonstration of compliance with Regulations (see Technical Guide "Package Design Safety Reports for the Transport of Radioactive Material" [14]) including:
 - Package or special form radioactive material design assessment methods including physical testing and calculation methods
 - Package or special form radioactive material certification process:
 - for package or special form radioactive material designs that require competent authority approval, application until approval certificate
 - for package designs not requiring competent authority approval, documented declaration of conformity of package design
- Measurement, analysis and improvement.

Detailed checklist for compliance audit of package or special form radioactive material design activities can be found in annexe 1.

4.4 Compliance audit of manufacturing activities of CA approved packages or special form radioactive material

The compliance audit of manufacturing activities of CA approved packages or special form radioactive material should include the following items, if applicable:

- Company details and organisation
- List of CA approved packages and special form radioactive material
- Management System (see § 4.12)
- Common information
- Management of resources
- Production and manufacturing of packaging's or special form radioactive material
- Inspection before commissioning
- Operation and maintenance of packaging's (if applicable)
- Measurement, analysis and improvement.

Detailed checklist for compliance audit of manufacturing activities of CA approved packages or special form radioactive material can be found in annexe 2.

4.5 Compliance audit of manufacturing activities of non-CA approved packages

The compliance audit of manufacturing activities of non-CA approved packages should include the following items, if applicable:

- Company details and organisation
- List of non-CA approved packages (model, type, reference of documentation of compliance, serial numbers (if applicable)
- Management System (see § 4.12)
- Common information
- Management of resources
- Production and manufacturing of packaging's
- Inspection before commissioning
- Operation and maintenance of packaging's (if applicable)
- Measurement, analysis and improvement.

Detailed checklist for compliance audit of manufacturing activities of non-CA approved packages can be found in annexe 3.

4.6 Compliance audit of maintenance, repair and service activities of packaging's

The compliance audit of maintenance, repair and service activities of packaging's should include the following items, if applicable:

- Company details and organisation
- List of packaging's / packages (model, manufacturer, type, serial numbers)

- Instructions for use, maintenance and service operations
- Management System (see § 4.12)
- Transport Regulations
- Resource (personnel, material and equipment, supplier, subcontractor)
- Training
- Documentation, control of documents and of records
- Maintenance and service operations: controls, tests and inspections
- Radiation Protection Programme.

Detailed checklist for compliance audit of maintenance, repair and service activities of packaging's can be found in annexe 4.

4.7 Compliance audit of a consignor

The compliance audit of a consignor should include the following items, if applicable:

- Company details and organisation
- List of package (model, manufacturer, type/certificate of approval, serial numbers)
- Management system (see § 4.12)
- Company details and organisation including activities related to transport developed by the consignor
- Awareness of Transport Regulations
- Types of transport
- Evidence of conformity of the packages:
 - o Radioactive Material Classification
 - o Packages
 - Package maintenance / repair
 - Operating/handling processes
- Conformity of the vehicle or vessel or aircraft (see also § 4.8 and 4.9)
- Package Marking and Labelling
- Consignment documentation
- Radiation Protection Programme
- Emergency arrangements
- DGSA (Safety Adviser for the transport of Dangerous Goods by road, rail or inland waterway)
- Security arrangements
- Training.

Detailed checklist for compliance audit of a consignor can be found in annexe 5.

4.8 Compliance audit of a carrier

The compliance audit of a carrier should include the following items, if applicable:

- Company details and organisation
- Awareness of Transport Regulations
- Management System (see §4.12)
- Radiation Protection Requirements
- DGSA (Safety Adviser for the transport of Dangerous Goods by road, rail or inland waterway)
- Emergency Arrangements
- Driver / Operators Requirements
- Training
- Consignment documentation
- Package and Material Integrity
- Shipment approval certificates
- Vehicles Placarding, Fire Extinguishers, Miscellaneous Equipment and Stowage
- Security Provisions General
- Security Provisions High Consequence Dangerous Goods.

Detailed checklist for compliance audit of a carrier can be found in annexe 6.

4.9 Routine inspection during transport

The routine inspection during transport should include the following items, if applicable:

- Security
- Transport Documents to be carried
- Transport index, criticality safety index, category of the package/overpack
- Carriage and handling
- Marking and labelling
- Members of the vehicle crew
- Packages stowage
- Transport units
- Radiation limits
- Equipment
- Other.

Detailed checklists for routine inspections of transport can be found in annexes:

Annexe 7.1: Checklist for routine inspections of transport by road Annexe 7.2: Checklist for routine inspections of transport by rail

Annexe 7.3: Checklist for routine inspections of transport by sea

Annexe 7.4: Checklist for routine inspections of transport by inland waterway

Annexe 7.5: Checklist for routine inspections of transport by air.

4.10 Compliance audit of a consignee

The compliance audit of a consignee should include the following items, if applicable:

- Company details and organisation
- Modes of transport
- Management System (see § 4.12)
- Transport Regulations
- Checks of the transport operations (unloading and receipt)
- Training
- Radiation Protection Programme
- Emergency arrangements.

Detailed checklist for compliance audit of a consignee can be found in annexe 8.

4.11 Investigation after an incident/accident

The emergency response after an accident can be divided into three phases:

- 1. The initial phase, where immediate emergency actions are taken,
- 2. The accident control phase, when a monitoring team is present on the scene and
- 3. The post-accident phase, the cleanup stage and also the phase when an investigation of the causes of an accident safely can start.

Details of the emergency response can be found in IAEA TS-G-1.2 "Planning and Preparing for Emergency Response to Transport Accidents Involving Radioactive Material" [9].

The investigation after an incident or accident is expected to be more detailed as it may result in legal action and therefore subject to potential legal challenge if the findings are used as evidence.

The investigation after an incident/accident should include the following items, if applicable:

- Company details and organisation
- Observations:
 - Accident/incident
 - Environment
 - o Injuries and damages
 - External conditions

- Investigations
 - o Witness information
 - Management systems
 - o Rules and regulations
 - Condition and function of technical systems
 - Documentation of the operations
 - Human factors
 - o Previous accidents
 - o The scene of the accident
- Costs
 - o Injuries
 - Damages
- Analysis and conclusions
 - Mapping the sequence of events
 - o Analysis and discussion
 - Conclusions
 - Other observations
- Actions taken
- Proposal for action
- Notification and accident report

Detailed checklist for investigation after an incident/accident can be found in annexe 9.

4.12 Compliance audit of a management system

The compliance audit of a management system should include the following items, if applicable:

- Company details and organisation
- Company activities
- Modes of transport
- Management system
- Documentation and control of documents and records
- Management responsibility
- Satisfaction of interested parties
- Resource management
- Training
- Process Implementation
- Measurement, assessment and improvement
- Check of the supplier services
- Internal audits
- Non-compliance, corrective and preventive actions, events.

Detailed checklist for compliance audit of a management system can be found in annexe 10.

5. REFERENCES

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- [14] European Association of Competent Authorities for the Safe Transport of Radioactive Material, Technical Guide - Package Design Safety Reports for the Transport of Radioactive Material, Issue 2, September 2012

6. ANNEXES

Annexe 1:	Checklist for compliance audit of package or special form radioactive material design activities
Annexe 2:	Checklist for compliance audit of a manufacturer of CA approved packages or specia form radioactive material
Annexe 3:	Checklist for compliance audit of a manufacturer of non-CA approved packages
Annexe 4:	Checklist for compliance audit of maintenance, repair and service activities of packaging's
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Annexe 7.1:	Checklist for routine inspections of transport by road
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Annexe 7.4:	Checklist for routine inspections of transport by inland waterway
Annexe 7.5:	Checklist for routine inspections of transport by air
Annexe 8:	Checklist for compliance audit of a consignee
Annexe 9:	Checklist for investigation after an incident/accident
Annexe 10:	Checklist for compliance audit of a management system

ANNEXE 1: CHECKLIST FOR COMPLIANCE AUDIT OF A PACKAGE OR SPECIAL FORM RADIOACTIVE MATERIAL DESIGN ACTIVITIES

Auditor name(s): File reference: Date/time: Location:			
Company details	s and organisation:		
Company name: Address: Telephone: Fax: E-mail: Web:			
Name of the diff	erent people met:		
Name of the diff	Title	Telephone	E-mail
		Telephone	E-mail
Name			E-mail Certificate of approval (if applicable)
Name List of packages	or special form radio	pactive material:	Certificate of approval
Name List of packages	or special form radio	pactive material:	Certificate of approval
Name List of packages	or special form radio	pactive material:	Certificate of approval
Name List of packages	or special form radio	pactive material:	Certificate of approval
Name List of packages	or special form radio	pactive material:	Certificate of approval

			Complianc	<u></u>	
Subject/Inspection aspect	Provision	OK	NOK	NA	Comments
Management System(see Annex 10)					
Common information	ı		T	ı	
Does the company have experience in					
design of packages or special form radioactive material for transport of					
radioactive material?					
Is this the first compliance audit?					
When was the last compliance audit					
performed?					
How is the company organised? Are there					
changes since the last audit?					
Were there deviations or requirements at the last audit?					
Are the requirements from last audit					
fulfilled?					
If applicable, does the designer have a					
valid certificate from the competent					
authority? Valid until?					
Does the designer have branches or other					
facilities?					
What parts of the package or special form radioactive material design, development					
and calculation are subcontracted?					
Management of Resources					
Are human resources in package or special					
form radioactive material design and					
quality assurance periodically evaluated for					
the work to be done by the company?					
Is the staff sufficiently trained (qualification					
and competence preservation, knowledge of rules and standards, guidelines and					
state of the art)?					
(Ask for documentation of staff					
qualification)					
Does the company provide an adequate					
training programme for the personnel?					
Does the company maintain records of the		l —			
training and qualifications of the personnel?					
Were staff members training valid during					
the package or special form radioactive					
material design?					
Does the facility organisation allow a					
quality assured development and design of					
packages or special form radioactive material?					
Are software, calculation and simulation		 			
code qualified?					
Are subcontractors audited? Is the					
documentation available?					
Are the personnel of the quality					
department directly lead by the executive					
board? (See also check list of Management					
System)					
Package or Special Form Radioactive M	aterial Des	ign Acl	ivities		
Are the responsibilities for different design					
steps clearly stated?					
(How are the responsibilities during design					
organized?)					

Are design requirements in accordance with applicable performance codes, standards and specifications and up to date?					
Are design requirements in compliance with regulations?					
Is there a valid and internally approved design steps plan?					
Are the realised design steps documented?					
Are maintenance, repair, in-service inspection, testing, storage and cleaning considered in the design documents?					
Can the package be produced according to the manufacture specifications (final design specifications, documents and drawings)?					
Package or Special Form Radioactive Ma Regulations	aterial Desi	gn Dei	nonstra	tion of	f Compliance with
Can the Package or Special Form Radioactive Material Design Safety Report (PDSR) demonstrate the compliance of the design with the regulatory requirements?					
Is the PDSR a controlled document?					
Are package or special form radioactive material design assessment methods including physical testing and calculation methods documented?					
Is there a package certification process: - For package or special form radioactive material design that requires competent authority approval, application until approval certificate - For package design not requiring					
competent authority approval, a documented declaration of conformity of package design					
Measurement, Analysis and Improveme	nt				
Are changes in regulations and standards tracked? Are existing documents (design and others) updated accordingly?					
Are changes in the design tracked? Are existing documents updated accordingly?					
Are deviation reports systematically evaluated and appropriate corrective and preventive measures implemented?					

Annexe 2: Checklist for compliance audit of manufacturing activities of CA approved packages

_	pp		
Audit details:			
Auditor name(s): File reference: Date/time: Location:			
Company details	and organisation:		
Company name: Address: Telephone: Fax: E-mail: Web:	rent people met:		
Name	Title	Telephone	E-mail
- Trume	Title	Тегерпопе	
List of packages:			
Model	Туре	Certificate of approval	Serial numbers

		(Compliand	ce	
Subject/Inspection aspect	Provision	OK	NOK	NA	Comments
Management System(see Annex 10)					
Common information	T	T	T	T	
Does the manufacturer have experience in manufacturing of packages for transport of radioactive material?					
Is this the first compliance audit?				\Box	
When was the last compliance audit					
performed?					
How is the company organised? Are there changes since the last audit?					
Were there deviations or requirements at the last audit?					
Are the requirements from last audit fulfilled?					
If applicable, does the manufacturer have a valid certificate from the competent authority? Valid until?					
Does the manufacturer have branches or other production facilities?					
What parts of the production and control process are subcontracted?					
Do staff members of the manufacturer visit subcontractors during their production process?					
Management of Resources					
Are human resources in development,					
manufacturing and quality assurance periodically evaluated for the work to be done by the company?					
Is the staff sufficiently trained (qualification and competence preservation, knowledge of rules and standards, guidelines and state of the art)? (Ask for documentation of staff qualification)					
Does the company provide an adequate training programme for the personnel?					
Does the company maintain records of the training and qualifications of the personnel?					
Were staff members training valid during the packaging production?					
Does the facility organisation allow a quality assured production of CA approved packages?					
Are tools and machines properly controlled, maintained and calibrated?					
Are subcontractors audited? Is the documentation available?					
Are the personnel of the quality department directly lead by the executive board? (See also check list of Management System)					

Production and Manufacturing of Packaging's				
Are the responsibilities for different				
production steps clearly stated?				
(How are the responsibilities during				
production organized?)				
Are specifications (drawings, material etc.)				
up to date?		Ш	Ш	
Is there a valid and internally approved				
fabrication and test sequence plan?		Ш	⊔	
Are the realised test steps documented in				
the fabrication and test sequence plan?	\square		Ш	
Are the components of the packaging				
classified accordingly?				
Is the production of classified components				
documented accordingly?	_	_		
(How is the production of classified				
components witnessed and documented?)				
Is the qualification of subcontractors				
monitored during procurement? Are there				
		Ш	🗀	
supporting documents? Are the fabrication and test plan organised	+ +			
with hold points, quality checks, and are		Ш		
they sufficiently documented?				
Are there compliance checks regarding				
specifications of the materials needed for				
production? (Ask for a list of material				
suppliers)				
Are there certificates for materials			l	
according to classified packaging		Ш		
components?			<u> </u>	
Are the used materials traceable?				
Is the monitoring of measuring and				
monitoring devices controlled?				
Is the measuring and test equipment				
calibrated?				
Are measures established in order to				
Are measures established in order to	-			
handle deviations and/or changes?				
handle deviations and/or changes? Are these measures considered?				
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Measurement, Analysis and Improvement						
Are there procedures for ensuring feedback on operational experience of delivered packaging's?						
Are changes in regulations and standards tracked? Are existing documents updated accordingly?						
Are changes in the design tracked? Are existing documents updated accordingly?						
Are deviation reports systematically evaluated and appropriate corrective and preventive measures implemented?						

Annexe 3:	Checklist for com CA approved pack	pliance audit of manufact ages	uring activities of non-
Audit details:			
Auditor name(s): File reference: Date/time: Location:			
Company detai	ls and organisation:		
Company name: Address: Telephone: Fax: E-mail: Web:			
Name of the di	fferent people met:		
Name	Title	Telephone	E-mail
List of package	 		
Model	Type	Reference of	Serial numbers (if

Model	Туре	Reference of documentation of compliance	Serial numbers (if applicable)		

Management System (see Annex 10) Common Information Does the manufacturer have experience in manufacturer the last audit? When was the last compliance audit? When was the last audit? When the last audit? Were there deviations or requirements at the last audit? Are the requirements from last audit fulfilled? Does the manufacturer have a valid certificate from the competent authority? Valid until? Does the manufacturer have branches or other production facilities? What parts of the production and control process? What parts of the production and control process? Whith packaging or special form radioactive material designs are already certified? Management of Resources Are human resources in development, manufacturing, maintenance, handling and quality assurance sufficient? Is the staff sufficiently trained (qualification and competence preservation, knowledge of rules and standards, guidelines and state of the art)? (Ask for documentation of staff qualification) Does the company provide an adequate training participation and competence preservation, knowledge of rules and standards, guidelines and state of the art)? (Ask for documentation of staff qualification) Are tooks and machines properly controlled, maintained and calibrated? Are tooks and machines properly controlled, maintained and calibrated? Are subcontractors audited? Is the documentation available? Are tooks and machines properly controlled, maintained and calibrated? Are subcontractors audited? Is the documentation available? Are the responsibilities for different production steps clearly stated? (How are the responsibilities for different production steps clearly stated? (How are the responsibilities during production or graphically.)			<u> </u>	Complianc	re	
Does the manufacturer have experience in manufacturing of packages for transport of radioactive material?	Subject/Inspection aspect	Provision				Comments
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Production and Manufacturing of Packaging's Are the responsibilities for different production steps clearly stated? (How are the responsibilities during						
Are the responsibilities for different production steps clearly stated? (How are the responsibilities during		aina's				
production steps clearly stated? (How are the responsibilities during		311 3 3				
(How are the responsibilities during						
production organized?)	(How are the responsibilities during		╽╚			
	production organized?)					

Are specifications (drawings, material etc.)					
valid?					
Is there a valid and internally approved					
fabrication and test sequence plan? Are the realized test steps documented in					
the fabrication and test sequence plan?					
Are the components of the packaging					
classified accordingly?					
Is the production of classified components					
documented accordingly?		l —	l ,	l ,	
(How is the production of classified				Ш	
components witnessed and documented?)					
Is the qualification of subcontractors					
monitored during procurement? Are there					
supporting documents?					
Is the organisation of accompanying					
checks during manufacturing sufficient?					
Are there compliance checks regarding					
specifications of the materials needed for					
production? (Ask for a list of material					
suppliers)					
Are there certificates for materials		l —		I 👝	
according to classified packaging					
components?				\vdash	
Are the used materials traceable?					
Is the monitoring of measuring and					
monitoring devices controlled? Are measures established in order to					
handle deviations and/or changes?					
Are these measures considered?				\vdash	
Inspection before Commissioning					
Do all manufactured packaging's undergo			Г		
the required acceptance inspections?		ΙШ	Ш		
Is the package labelled permanently?					
Is the date of the next periodic inspection					
clearly visible?		lШ		Ш	
Are the results of inspections documented?					
Is there a control of completeness of					
documentation?		Ш	Ш		
Operation and Maintenance of Packagir	ıg's (if appl	icable)		
How are the documents for operation of		l			
packages (instructions for use and					
maintenance) forwarded to the operator?					
Is it ensured that the operator obtains		l ,		l 👝	
instructions for use and maintenance of the		lШ		Ш	
packaging?	_				
Measurement, Analysis and Improveme	nt				
Are there procedures for ensuring feedback on operational experience of delivered		Ιп		\Box	
packaging's?		lШ		lШ	
Are changes in regulations and standards					
tracked? Are existing documents updated				Ιп	
accordingly?				l	
Are deviation reports systematically					
evaluated and appropriate corrective and		П		\Box	
preventive measures implemented?			_ _		

Annexe 4:	Checklist for complia activities of packagin		nce, repair and service
Audit details:			
Auditor name(s): File reference: Date/time: Location:			
Company detail	s and organisation:		
Company name: Address: Telephone: Fax: E-mail: Web:	foront noonly mate		
	ferent people met:	T	
Name	Title	Telephone	E-mail
List of packages	<u>.</u> <u>6:</u>	·	·
Model	Manufacturer	Туре	Serial numbers

			omplianc		
Subject/Inspection aspect	Provision	OK	NOK	NA	Comments
Instructions for use, maintenance and	service ope			14/3	
Are there instructions, procedures, plans				Ī	
or drawings for use, maintenance and		_]	l	
service operations for each type of		Ш			
package?					
Is the specified maintenance expiry date					
exceeded?					
Are records kept of maintenance and					
service operations?					
Are these records or logbooks correctly					
completed, verified or certified by					
authorized personnel?					
Management System (see annex 10)				l	
Regulations					
Are the organisation and personnel				Ī	
involved in the transport of RAM aware of					
the regulatory requirements?					
Resource				l	
Are the defined roles and responsibilities					
adequately resourced?					
Do the tools and equipment (in good					
conditions and calibrated) comply with the					
regulations?					
Training					
Does the company provide an adequate	l l				
training programme for the personnel?			Ш		
Does the company maintain records of the					
training and qualifications of the					
personnel?					
Documentation, control of documents a	and records				
Is all requisite documentation completed					
and recorded by designated personnel?					
Are the necessary documents kept as					
records?			Ш		
Maintenance and service operations: co	ontrols, tes	ts and	inspecti	ons	
Does the company/facility have necessary					
permits/licenses for use, maintenance or					
service operations of		Ш			
packages/packaging's?					
Have the use, maintenance and service					
operations been carried out in accordance					
with the packages/packaging's		Ш	Ш		
specifications?					
Is evidence available to show that					
specified controls, tests and inspections					
have been performed?					
Radiation Protection Programme					
Is there an adequate Radiation Protection					
Programme (doses evaluation,					
optimization, radiological surveillance,		Ш			
radiation protection procedures)?					
Is the Radiation Protection Programme					
periodically reviewed?		▎╚	Ш	▎╚	

Annexe 5: Checklist for compliance audit of a consignor

Note:			
The provisions have been to use the applicable modal ar	aken from the ADR, edition 20 nd/or national regulation.	013. For another mode of tra	nsport, the inspector should
Audit details:			
Auditor name(s): File reference: Date/time: Location:			
Company details :			
Company name: Address: Telephone: Fax: E-mail: Web:	people met:		
Name	Title	Telephone	E-mail
		•	
List of packages:			
Model	Manufacturer	Type/Certificate of approval	Serial numbers

Subject/Inspection aspect	Provision		Compliand		Comments
Management System (see Annex 10)	ADR 2013	OK	NOK	NA	
Company details and organisation →rel	ated to Anne	ve 10 N	Managem	ent svs	tem
Company details and organisation /rei	1.7.3	XC 10 1	nanagem	Citt Sys	
Are the roles and responsibilities relating	1.7.3				
to transport clearly defined?	1.7.5				
(identify the different parts of the organisation		Ш	Ш		
in charge of transport activities)					
Are the defined roles and responsibilities	1.7.3				
adequately resourced?		Ш	ΙШ		
Identify which activities related with transpo	rt are develo	ned by	the cons	ianor:	
Reception of radioactive material					→If yes, See also Annex 8
Package or SFRM design		H			→If yes, See also Annex 1
Package manufacturing					→If yes, See also Annex 2
Radioactive Material classification		H		H	711 yes, see also Affice 2
Packaging selection					
		H		\blacksquare	
Handling/Loading/Unloading					Non also Assessed Cond 7
Transport		⊢#-	-	⊢#-	→See also Annexes 6 and 7
Maintenance/repairing of packaging	1 4 2 4 2			Ш	
Does the consignor subcontract activities	1.4.2.1.2	l —			
associated with the transport of RAM?		Ш			
(Identify what activities are subcontracted)	1 4 2 1 2				
Does the consignor well define the	1.4.2.1.2				
interfaces with subcontractors and the					
respective responsibilities?					
(identify how)	1.7.3				
Does the consignor perform a previous	1.7.3				
evaluation of subcontractors as service					
suppliers? (Identify the applicable Procedure)					
Has the consignor got a procedure to	1.7.3				
cover the relationship with suppliers?	1.7.5				
(the relationship could be written in specific					
accordance document, not necessary					
procedures)					
Has the consignor got a list of approved	1.7.3				
suppliers?					
(Ask for and check some suppliers'					
documentation. Verify the evaluation is in					
accordance with the procedure)					
Does the consignor undertake periodical	1.7.3				
inspections of the subcontractor's					
activities?			▎╚		
(Check procedures and records on these					
inspections)			1		
Do the suppliers comply with other					
requirements like specific licensees?					
(i.e. carrier's registration or authorisation, laboratory's authorisations,etc)					
Are there written instructions or	1.7.3				
procedures to cover transport activities?	1.7.5				
(identify them)				"	
Is the content of those procedures in	1.7.3		<u> </u>		→depends on the transport
compliance with the Regulations as well as					mode, see also Annexes 7.1 to
with the certificate of approval and the					7.5
Safety Analysis Report of the package?		Ш	l ⊔	ΙШ	7.5
(Whenever possible, check the fulfilment of the					
procedures requirements)					
[F/	1	1	1		1

Awareness of Transport Regulations									
Is the company aware of the latest ADR									
and of the other modal, international and									
national regulations?									
Does the company hold a copy / copies?									
(List those held)									
How are copies controlled and updated?	1.7.3								
(Document system?)	1.7.5								
Types of Transport									
Modes of transport generally used by the consignor:									
(Identify the more usual consignments, consigned	es and transno	rt route	s)						
By road			,						
By road By rail				H					
By air		H		H					
		 		-					
By sea By inland waterways		-		-					
By inland waterways The second particular and but the second particular and the second par									
Types of packages used by the consignor									
 Excepted packages 									
 Industrial packages 				<u> </u>					
 Type A 		Щ		Щ					
 Type B 		$\sqcup \bot$		<u> </u>					
 Type C 									
 Unpackaged radioactive 	4.1.9.2.3								
material									
Other dangerous properties of contents									
 Toxicity (UF6) 									
 Fissile 									
others									
Is the RAM transported under exclusive	4.1.9.2.3								
use?	4.1.9.2.4.								
450.	and table								
	4.1.9.1.9								
	and								
	7.5.11.CV33								
	(3.4)								
	4.1.9.1.10								
	Table D								
	paragraph								
	7.5.11.CV33								
	(3.3)a								
	Table E								
	paragraph 7.5.11.CV33								
	(3.3) d.								
	6.4.8.3								
Evidence of conformity of the packages									
Radioactive Material Classification									
Does the consignor do the classification?	1.7.1.3								
If yes, has the consignor got procedures	1.7.3								
for this activity?									
(note reference(s))									
If not, does the consignor conduct any	1.7.3								
control over the classification process?									
(Identify the procedure and the way the									
consignor does this control: Verification,									
inspection, calculus validation)	·								
In case of special form radioactive	5.1.5.2.1								
material, or low dispersible radioactive	5.1.5.2.2								
material, are the approval certificates									
available?									
Is the radioactive material transported as	1.7.1.5.1								
"fissile excepted"?	2.2.7.2.3.1.2 2.2.7.2.3.5	l							
(identify the criteria used and the procedures	6.4.11.2			Ш					
applied by the consignor to confirm the criteria									
fulfillment)									

Dankages					
Packages Has the consigner get presedures for	1.7.3				
Has the consignor got procedures for	1.7.3				
selecting the packaging depending on the				l	
RAM to be transported? (Identify the package designs, the number of			Ш	Ш	
packaging's of each design used and their					
suppliers)					
For packages subject to approval, has the	5.1.5.2.1				
consignor available the certificates in	5.1.5.2.2	П	П		
force?				_	
Has the consigner implemented a	1.7.3				
procedure to be informed about changes					
of approvals certificates?				_	
For packages not subject to approval, has	5.1.5.2.3				
the consignor available documentary					
evidence of the compliance of the package					
design?					
(Identify the documentation presented)					
Is the general state of the packaging's	4.1.9.1.7				
adequate?	7.5.11				
	CV33 (5.1)				
Are the different components of the	4.1.9.1.7				
packaging's in good state?]]		
Are the packaging's and their components	4.1.9.1.7				
in accordance with the package design?					
Is the marking of packages adequate?	5.2.1				
Is the labelling of packages adequate?	5.2.2				
Are the radiological measures conducted	4.1.9.1.4				
on the packages according to regulations?	4.1.9.1.7				
	5.1.5.3				
L Dackage maintenance/repair (See also Anno	v 11				
Package maintenance/repair (See also Anne.				Τ	
Has the consigner available the procedures	x 4) 1.7.1.2				
Has the consigner available the procedures related to periodical maintenance					
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or			П		
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation?					
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those					
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation?	1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's					
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures)	1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging	1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation?	1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures	1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings	1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance?	1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance? For the case of repairing, has the	1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance? For the case of repairing, has the consignor got specific procedures or	1.7.1.2 1.7.3 1.7.3				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance? For the case of repairing, has the consignor got specific procedures or instructions to evaluate if the repairing	1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance? For the case of repairing, has the consignor got specific procedures or instructions to evaluate if the repairing may affect the requirements defined for	1.7.1.2 1.7.3 1.7.3				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance? For the case of repairing, has the consignor got specific procedures or instructions to evaluate if the repairing may affect the requirements defined for the package design in the approval	1.7.1.2 1.7.3 1.7.3				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance? For the case of repairing, has the consignor got specific procedures or instructions to evaluate if the repairing may affect the requirements defined for the package design in the approval certificate and/or the SAR?	1.7.1.2 1.7.3 1.7.3				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance? For the case of repairing, has the consignor got specific procedures or instructions to evaluate if the repairing may affect the requirements defined for the package design in the approval certificate and/or the SAR? (Identify the role of the packaging designer)	1.7.1.2 1.7.3 1.7.3 1.7.1.2				
Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance? For the case of repairing, has the consignor got specific procedures or instructions to evaluate if the repairing may affect the requirements defined for the package design in the approval certificate and/or the SAR? (Identify the role of the packaging designer) Does the consigner have records of the	1.7.1.2 1.7.3 1.7.3				
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Has the consigner available the procedures related to periodical maintenance referenced in the certificate of approval or in the compliance documentation? (Verify how the requirements included in those documents are transferred to consignor's instructions or procedures) Is the implemented packaging maintenance program according to that established in the approval certificate or in the compliance documentation? Has the consignor got specific procedures or instructions to evaluate the findings found during maintenance? For the case of repairing, has the consignor got specific procedures or instructions to evaluate if the repairing may affect the requirements defined for the package design in the approval certificate and/or the SAR? (Identify the role of the packaging designer) Does the consigner have records of the maintenance operations? Operating/handling processes	1.7.1.2 1.7.3 1.7.3 1.7.3 1.7.1.2				
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					<u> </u>
Does the consigner carry out the inspection requirements before the first use of the package?	5.1.5.2.1				
Does the consigner carry out the inspection requirements before each	5.1.5.2.2		П	П	
shipment?					
Conformity of the vehicle or vessel or a		e also A	Annexes	6, 7.1 to	o 7.5
For own vehicles, has the consignor got	1.7.3				
specific procedures to cover all vehicle activities?	8.1.4				
Check:	8.1.5				
CHECK.	8.4				
	8.5 (S21)				
Authorisations (if necessary)	8.1.2.2				
Periodical inspections					
Vehicle equipment	8.1.5				
Conventional					
Radiological protection					
Stowage	7.5.11 CV33 (3 and 4)				
Labeling and placarding	8.1.3				
Supplementary requirements?	8.1.4				
(identify)	8.1.5	Ш			
For rented vehicles, has the consignor got	1.7.3				→See also point "company
specific procedures or documents to		l		_	details and organisation"
control subcontracted vehicles and/or		ΙШ	Ш	ΙШ	
drivers?					
(identify) Package Marking and Labeling → See a	co Annevec	7 1 to 7	5 for sn	ecific re	aquirements
Do the procedures include the	1.7.3	7.1 (0 /	.5 101 3p	CCITIC TC	
I DO LITE DI OCCUUI CS II ICIUUC LITE					
requirements about marking and labeling activities?	11713				
requirements about marking and labeling activities? (check)					
requirements about marking and labeling activities? (check) Is the marking on the packages according	5.2.1				
requirements about marking and labeling activities? (check)					
requirements about marking and labeling activities? (check) Is the marking on the packages according	5.2.1				
requirements about marking and labeling activities? (check) Is the marking on the packages according	5.2.1 5.2.1.7 5.1.2.1				
requirements about marking and labeling activities? (check) Is the marking on the packages according	5.2.1 5.2.1.7 5.1.2.1 5.2.1.7.8 5.1.5.3.1				
requirements about marking and labeling activities? (check) Is the marking on the packages according to the regulations? Is the methodology for the determination of transport index clearly defined and	5.2.1 5.2.1.7 5.1.2.1 5.2.1.7.8				
requirements about marking and labeling activities? (check) Is the marking on the packages according to the regulations? Is the methodology for the determination	5.2.1 5.2.1.7 5.1.2.1 5.2.1.7.8 5.1.5.3.1 5.1.5.3.4				(see also annexes 7.1 to 7.5)
requirements about marking and labeling activities? (check) Is the marking on the packages according to the regulations? Is the methodology for the determination of transport index clearly defined and according to the regulations?	5.2.1 5.2.1.7 5.1.2.1 5.2.1.7.8 5.1.5.3.1 5.1.5.3.4				(see also annexes 7.1 to 7.5)
requirements about marking and labeling activities? (check) Is the marking on the packages according to the regulations? Is the methodology for the determination of transport index clearly defined and according to the regulations? Whenever is possible, it is useful to do visual	5.2.1 5.2.1.7 5.1.2.1 5.2.1.7.8 5.1.5.3.1 5.1.5.3.4				(see also annexes 7.1 to 7.5)
requirements about marking and labeling activities? (check) Is the marking on the packages according to the regulations? Is the methodology for the determination of transport index clearly defined and according to the regulations? Whenever is possible, it is useful to do visual consignment documentation	5.2.1 5.2.1.7 5.1.2.1 5.2.1.7.8 5.1.5.3.1 5.1.5.3.4				
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Number and a description of the	5.4.1.1.1 e)				
packages?					
(approval certificate references, if					
necessary)					
Activity?	5.4.1				
D 1 : 01 2	5.4.1.2.5.1 5.4.1				
Packaging Category?	5.4.1.2.5.1				
Transport Index (TI)?	5.4.1				
(if necessary)	5.4.1.2.5.1		Ш		
Criticality Safety Index (CSI)?	5.4.1				
(for fissile material)	5.4.1.2.5.1				
Name and address of the consignor?	5.4.1.1.1 f)	Н			
Name and address of the consignee?	5.4.1.1.1 h)	-			
	5.4.1	Ш	Ш		
Transport under exclusive use?	5.4.1.2.5.1				
(if necessary)	5.4.1.1.1 i)				
Does the consignor provide supplementary	5.4.1.1.14				
transport requirements?	0				
(handling, stowage, temperature					
measurements, if necessary)	1.9.1				
Does the consignor provide restriction on	1.9.1 to				
the mode of carriage or vehicle and any	1.9.4				
necessary routing instructions?					
(if necessary)					
Does the consignor provide instructions on	7.5.2.1				
the mixed loading prohibition?					
Does the consignor provide emergency	5.4.3				
arrangements appropriate to the					
consignment?					
Is the documentation language used	5.4.1.4				
according to the regulations?					
Radiation Protection Program	1.7.2		T T	I	
Had the consignor got a Radiation					
	1773				
Protection Program (RPP)?	1.7.2.3				
Protection Program (RPP)? (identify and take reference)					
Protection Program (RPP)? (identify and take reference) Is the RPP periodically maintained?	1.7.2.3				
Protection Program (RPP)? (identify and take reference) Is the RPP periodically maintained? (How often is the Radiation Protection					
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Are there expose workers' categories? (identify the different categories used and the personnel included in)	1.7.2.3			
Has radiological surveillance been carried out?	1.7.2.4			
(if yes, describe)		_		
Are the results of radiological surveillance recorded? (check records)	1.7.2.4			
Are contamination checks performed? (describe method)	1.7.2.1 7.5.11 CV33 (5.3 and 5.4)			
Does the Company know the applicable	1.7.6		П	
limits for radiation levels or contamination? Are contamination check records kept?	1.7.3			
Is there a protocol in case of non-	1.7.6			
compliance with the above limits for radiation levels or contamination?				
Does the program consider appropriate segregation distances between packages and areas regularly occupied by members of the public and/or workers?	7.5.11 CV33 (1.1 and 1.2)			
Are shielded areas used in the storage?	7.5.7 7.5.11 CV33 (3)			
Is shielding used on the transports?	1.7.2.2			
Is segregation used on the conveyances?	7.5.7 7.5.11 CV33 (3)			
Are the packages transported from storage to the loading area applying the necessary radiation protection measures and ALARA principle?	1.7.2.2			
Do the emergency situations contemplate in this program?	1.7.2.4			
Does the RPP include training? (Identify training programs, contents, initial and periodic training frequencies, who performs the training)	1.7.3			
Is the training documented? (identify how and check records)	1.7.2.5 1.7.3			
Is the radiation monitoring appropriate for the measurements to be taken?	8.1.5			
Are radiation monitoring devices periodically verified and calibrated?	1.7.3			
Emergency arrangements → see also Ar				
Who is the person assigned by the company having overall responsibility for the emergency? (identify who and in which department, and his/her responsibility)	1.7.3 1.7.1			
Which resources are provided in case of emergency? (at site or during transport, relations with service suppliers as carriers,)	1.7.3 1.7.1			
Has the consignor emergency response provisions available? (identify, possibly in RPP)	1.7.3 1.7.1 6.4.23.12 q)			
Do these provisions consider potential events that may happened during transport activities? (identify, possibly in RPP)	1.7.3 1.7.2			

			1	1	1
Are these provisions regularly reviewed?	1.7.3				
(check how the emergency provisions are					
implemented and maintained, if operative					
experience is considered,)					
Were there any recent emergency?		l		_	
(Whenever possible, check the fulfilment of the					
emergency provisions during the emergency)					
DGSA (Safety Adviser for the transport		us Go	ods by r	oad, ra	nil or inland waterway)
Has a DGSA been appointed? Evidence?	1.8.3.1				
(identify who and if he/she works for the					
company)					
Does the DGSA carry out the missions	1.8.3.3		Ιп		
defined by the transport regulations?					
Is the DGSA adequately considered in the	1.7.3				
procedures of the consigner applying to	1.8.3.3				
transport?	1.0.5.5				
(Confirm how the DGSA participates in the					
different activities with safety implications:					
packages selection, labeling and marking of					
packages, transport documentation, radiation					
protection, emergencies, mixed loading					
prohibition , personnel training, develop of					
procedures and instructions, regulations follow					
up)					
Security arrangements		T	T		
Is the RAM offered to carriers that have	1.10.1.2			Ιп	
been appropriately identified?					
Are areas used for storage of RAM	1.10.1.3				
properly secured?					
Does the training program consider	1.10.2				
security topics?					
In case of transport of "High consequence	1.10.3.2.1				
dangerous goods", has the consigner					
available an appropriate security plan?					
Is that security plan adequately					
implemented?					
	1.10.3.3				
In case of transport of "High consequence	1.10.3.3				
dangerous goods", has the consigner					
devices, equipment or arrangements to					
prevent the theft of the RAM?	1 10 0 0				
Has the consigner taken measures to	1.10.3.3				
ensure that devices, equipment or					
arrangements are operational and effective					
at all times?					
Do the protective measures applied	1.10.3.3		Ιп	П	
jeopardize the emergency response?					
Training					
Does the consignor provide an appropriate	1.3				
training programme for all personnel					
involved in the transport of RAM?				_	
	1.3.3				
Does the operator maintain records of the					
Does the operator maintain records of the training and competence?	11313				

Audit details:	-		
Auditor name(s): File reference: Date/time: Location:			
Company details and o	organisation:		
Company name: Address: Telephone: Fax: E-mail: Web:			
Name of the different	people met:		
Name	Title	Telephone	E-mail
<u>List of packages:</u>			
Model	Manufacturer	Туре	Serial numbers

Checklist for compliance audit of a carrier

Annexe 6:

Company details and organisation >related with Annexes Total number of employees Number of personnel involved with RAM transport, and their status (e.g. RPS, trainee) Percentage of Dusiness involving RAM transport (Frequency of RAM transport (Frequency o	Subject/Inspection aspect	Provision		Complianc	e	Comments
Total number of employees Number of personnel involved with RAM transport, and their status (e.g. RPS, trainee) Percentage of business involving RAM transport Frequency of RAM transport (per month) Is RAM transport in-house? (If carriers used, give names, addresses and telephone numbers) Have there been any changes since previous contact with the competch authority? Awareness of Transport Regulations Is the company waver of the latest ADR and of the other modal, international and national regulations? Does the company hold a copy / copies? ((Lst those held) How are copies controlled and updated? Is the QA system / QMS certified? Name of the assessing body and Registration Number (Check that the body is accredited) Does the scope of registration cover RAM Transport Operations? What systems, procedures and documents in Jack of Cognition of the	Subject/Inspection aspect	ADR 2013	OK	NOK	NA	Comments
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How are copies controlled and updated? 1.7.3			Ш	Ш	Ш	
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following? (if not, identify the responsible) Training Implementation of work procedures Assessment of workers' exposures Are there working instructions and procedures in place adequate to minimize doses?						
(if not, identify the responsible) 1.7.2.5 Training 1.7.2.5 Implementation of work procedures 1.7.2.2 Assessment of workers' exposures 1.7.2.2 Are there working instructions and procedures in place adequate to minimize doses? 1.7.3						
Training 1.7.2.5						
Implementation of work procedures Assessment of workers' exposures Are there working instructions and procedures in place adequate to minimize doses?		1725				
Assessment of workers' exposures Are there working instructions and procedures in place adequate to minimize doses? 1.7.2.2			⊢붜			
Are there working instructions and procedures in place adequate to minimize doses?			$\sqcup \!\!\!\! \perp$	$\perp \perp \perp \perp$		
procedures in place adequate to minimize doses?						
procedures in place adequate to minimize doses?	Are there working instructions and	1.7.3				
doses?						
				<u> </u>		

Is there a structured and systematic	1.7.2.2				
approach to dose monitoring?	1.7.2.2				
Have dose assessments been carried out? (Identify the procedure applied for the assessments)	1.7.2.2				
Are there expose workers' categories? (identify the different categories used and the personnel included in)	1.7.2.3				
Has radiological surveillance been carried out?	1.7.2.4	П	П	П	
(if yes, describe)					
Are the results of radiological surveillance recorded? (check records)	1.7.2.4				
Are contamination checks performed?	1.7.2.1				
(describe method)	7.5.11 CV33 (5.3 and 5.4)				
Are contamination check records kept?	ADR 1.7.3				
Does the Company know the applicable limits for radiation levels or contamination?	1.7.6				
Is there a protocol in case of non- compliance with the above limits for radiation levels or contamination?	1.7.6				
Does the RPP consider appropriate segregation distances between packages and areas regularly occupied by members of the public and/or workers?	7.5.11 CV33 (1.1 and 1.2)				
Are shielded areas used in the storage?	7.5.7 7.5.11 CV33 (3)				
Is shielding used on the transports?	1.7.2.2	ΙП			
Is segregation used on the conveyances?	7.5.7				
	7.5.11 CV33 (3)		Ш	Ш	
Are the necessary radiation protection measures and ALARA principle applied in loading and unloading operations?	1.7.2.2				
Do the emergency situations contemplate in this RPP?	1.7.2.4				
Does the RPP include training? (Identify training programs, contents, initial and periodic training frequencies, who performs the training)	1.7.3 1.7.2				
Is the training documented? (identify how and check records)	1.7.2.5 1.7.3				
Are the radiation monitoring appropriated for the measurements to be taken?	8.1.5				
Are radiation monitoring periodically	1.7.3				
verified and calibrated?					
DGSA (Safety Adviser for the transport		Goods	by road	l, rail o	r inland waterway)
Has a DGSA been appointed? Evidence?	1.8.3				
(identify who and if he/she works for the company)				🏻	
Does the DGSA carry out the missions	1.8.3.3	П	П		
defined by the transport regulations?		lacksquare		Ш	
Is the DGSA adequately considered in the	1.7.3				
procedures of the carrier applying to transport?	1.8.3.3				
(Confirm how the DGSA participates in the different activities with safety implications: packages selection, labeling and marking of packages, transport documentation, radiation protection, emergencies, mixed loading prohibition, personnel training, develop of procedures and instructions, regulations follow					
up)					

Emergency A								
Are there proce emergencies?	edures for radiolo	gical						
	nergency respons	se						
	ators Requirem	ents						
	rew supplied witl		8.1.2,					
	arding emergend		5.4.3					
	have instructions	and / or	7.5.11 CV33					
	cover any trans-s		7.5.11 6.55	_				
	en-route storage			Ш	Ш	Ш		
requirements?	o o a to o to . a g o							
	e crew carry pho	to I/D?	8.1.2.1.(d) 1.10.1.4					
Carrier: are acc	cumulations of pa	ickages	7.5.11 CV33					
	I and radiation le		(3.3)					
	nixed loading pro	hibition	7.5.2.1					
verified?								
Training			I 4 2	1		1		
	tor provide an ap		1.3, 1.7.2.5,					
	mme for all perso		8.2,					
	transport of RAM <i>fety, refresher</i>)	1?	3.2.1	Ш	Ш			
(AWareness, Sa	rety, rerrestier)		Table A Special					
Door the energ	tor maintain reco	anda of the	Provisions 1.3.3					
training and co		orus or trie	1.5.5					
	have any neces	sarv	1.3,					
	confirm his profic		8.2,					
handling radioa		icitcy iii	ADR 3.2.1					
	cate / driving lice	ence)	Table A Special Provisions					
` -	documentation	•	FIOVISIONS					
	pplied with all re		5.4					
transport docui		•	5.4.1.2.5.2	ΙШ				
Are "Special Ar	rangement" prov	isions and	1.7.4					
	g complied with?							
	ort documents ret	tained for a						
minimum of 3 i								
	Material Integraterial Type: - The		will have / was /			ua af Ha	a fallowing	
	aterial Type: - Tr Iber for each type							
Excepted	IP 1, 2 or 3	Type A	Type		Specia		Special	Fissile
LACCPICA	11 1, 2 01 3	Type A	(State whice			erial	Arrangement	1 13311C
			type))			7	
	T 6 1	10 .	15 1 5		1 =:			
	Type C package		al Form, Low Dis	spersible	e and Fis	sile mat	eriais	
•	any require the cole copies of pack		5.1.5.2.2,					
or material cert		kage and /	6.4	Ш	Ш			
	proval Certifica	tes						
	t approval certific		5.1.5.1,					
where required			5.1.5.2	ΙШ	Ш			
Vehicles - Pla	carding, Fire E	xtinguisher	s, Miscellaneo	us Equ	ipment	and St	owage	
	s correctly placar	ded?	5.3					
Are fire extingu	ishers carried?		8.1.4					
Is other miscell	aneous equipme	nt carried?	8.1.5					
Are the stowag	e facilities in or c	n the	7.5.7,					
vehicle satisfac			7.5.11 CV33					
Are vehicles ne	riodically checked	d for	7.5.11 CV33	П				

Security Provisions – General				
Who has overall responsibility for security?	1.10.1.1			
Have all staff been assessed against	1.10.1.1			
security criteria?			Ш	
Have all carriers been appropriately	1.10.1.2			
identified and assessed?				
Are temporary storage areas secure, well	1.10.1.3		П	
lit and not open to the public?				
Has appropriate security awareness	1.10.2.			
training and refresher training taken place?				
Security Provisions – High Consequence			al	
Check that appropriate security plans are in				
Allocation of responsibilities	1.10.3.2.2(a)			
Records of radioactive material held	1.10.3.2.2(b)		Ш	
Review of transport operations	1.10.3.2.2(c)			
Statement of measures taken to reduce	1.10.3.2.2(d)			
risks		Ш		
Reporting and dealing with threats,	1.10.3.2.2(e)			
breaches and incidents			Ш	
Evaluation, testing, review and update of	1.10.3.2.2(f)			
plans				
Physical security of transport information	1.10.3.2.2(g)			
Restrictions on access to transport security	1.10.3.2.2(h)			
information		Ш	Ш	
Evidence of information sharing with other	1.10.3.2.2 (See			
parties	1.10.3.2.2)		Ш	
Devices, equipment or arrangements to	1.10.3.3			
prevent theft of the vehicles and / or				
contents				

Checklist for routine inspections of transport by road Annexe 7.1: **Inspection details:** Inspector name(s): File reference: Date/time: Location: Company details and organisation: Consignor Name: Address: Telephone: Fax: E-mail: Carrier Name: Address: Telephone: Fax: E-mail: Consignee Name: Address: Telephone: Fax: E-mail: Name of the different people met: Title **Telephone** E-mail Name **List of carried packages:** Model Manufacturer Type/Certificate of **Serial numbers** approval

Vehicle(s) details:

Vehicle(s) Number:

Nationality:

Type of vehicle(s):

Owner: Leased by:

Subject/Inspection aspect	Provision		Compliand		Comments
	ADR2013	OK	NOK	NA	Comments
Security	1 10 1 2	_	ı		
Areas for temporary storage : Are the areas for the temporary storage	1.10.1.3				
- properly secured,				Ιп	
- well illuminated and					
- not accessible to the general public					
(where possible and appropriate)?					
Means of identification:	1.10.1.4	_	l		
Does each member of the vehicle crew		ΙШ		ΙШ	
carry means of identification?	1.10.3.2				
Are all the provisions included in the Security Plan fulfilled (for high	1.10.3.2	ш		ш	
consequences radioactive material)?					
Documents to be carried					
Documents.	8.1.2				
Are the following documents carried on the					
transport unit?					
- transport document;					
- container/vehicle packing certificate;		1 📙	l ∐	ᅵ닏	
- instructions in writing;		\parallel	ᅵᅢ	ΙH	
means of identification;driver's training certificate.		ΙH	ᅵᅢ	ΙH	
Transport document – information:	5.4.1				
Does the transport document contain the	3.4.1				
following information?					
a) UN number preceded by the letters					
"UN";					
b) proper shipping name;					
c) primary hazard class (number "7");					
k) tunnel restriction code (in capitals					
within parenthesis), not applicable					
where the carriage is known beforehand not to pass through a					
tunnel with restrictions;					
g) name and address of the consignor;		ΙĦ		ΙĦ	
h) name and address of the consignee(s);					
The following information shall be inserted		_			
in the order given and immediately after					
the information a) to c) and k) from					
above:					
a) name or symbol of each radionuclide or					
a list of the most restrictive radionuclide(s);				Ιп	
b) description of the physical and		ш	🏻		
chemical form or a notation that the					
material is a special form radioactive					
material or low dispersible radioactive					
material;					
c) maximum activity [Bq] with an					
appropriate SI prefix symbol (for fissile			1		
material, the mass [g] of fissile					
material may be used in place of			_		
activity); d) category of the package (I-WHITE, II-			"		
YELLOW, III-YELLOW);					
e) transport index (categories II-YELLOW		_			
and III-YELLOW only);					
f) criticality safety index for consignments		l	l	l _	
including fissile material;					
g) identification mark for each competent					
authority approval certificate;			🏻		
h) detailed statement of the contents of					
each package within the overpack,	l	1	L	1	

container or vehicle; i) "EXCLUSIVE USE SHIPMENT" where a					
consignment is required to be shipped under exclusive use;					
j) total activity of the consignment as a multiple of A2 for LSA-II and LSA-III substances, SCO-I and SCO-II;					
"Carriage in accordance with 1.1.4.2.1" for					
the carriage in a transport chain including maritime or air carriage;					
Transport document – statement	5.4.1.2.5.2				
regarding actions.					
Did the consignor provide in the transport documents a statement regarding actions					
that are required to be taken by the carrier					
or a statement that no such requirements					
are necessary?					
Container/vehicle packing certificate.	5.4.2				
Is a container/vehicle packing certificate					
provided with the transport document (if					
the carriage in a large container precedes					
a voyage by sea)?					
Instructions in writing:	5.4.3				
Are the instructions in writing carried in					
the vehicle crew's cab readily available					
and do they correspond in form and					
contents to the given model?		•	<u> </u>		-1
Transport index, criticality safety index	5.1.5.3	ne pac	kage/ c	verpa	CK
Transport index (TI): Is the transport index (TI) correct?	3.1.3.3				
Criticality safety index (CSI):	5.1.5.3.3				
Is the criticality safety index (CSI) correct:					
I IS THE CHICANIC SAIETA HARA (CSI) COHECT.					
- for each overpack or container; - in a consignment or aboard a vehicle?					
for each overpack or container;in a consignment or aboard a vehicle?					
for each overpack or container;in a consignment or aboard a vehicle? Category of the package and	5.1.5.3.4				
- for each overpack or container; - in a consignment or aboard a vehicle? Category of the package and overpack:	5.1.5.3.4				
- for each overpack or container; - in a consignment or aboard a vehicle? Category of the package and overpack: Are the packages and overpacks assigned	5.1.5.3.4				
- for each overpack or container; - in a consignment or aboard a vehicle? Category of the package and overpack: Are the packages and overpacks assigned to the correct category?	5.1.5.3.4				
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- for each overpack or container; - in a consignment or aboard a vehicle? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h	5.1.5.3.4				
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- for each overpack or container; - in a consignment or aboard a vehicle? **Category of the package and overpack** Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI ≤ 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level **Carriage and handling** **Securing of loads** Are packages containing dangerous goods, unpackaged dangerous articles and other**					
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- for each overpack or container; - in a consignment or aboard a vehicle? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Carriage and handling Securing of loads: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Marking and labelling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letters "UN" and the proper shipping name (in the case of excepted packages only the UN-number, preceded by the letters "UN" is required)? - the permissible gross mass (for each	7.5.7				

A T/DE D/U) T/DE D/A)					
A, TYPE B(U), TYPE B(M) or rather					
TYPE C?					
- the international vehicle registration					
code (VRI Code) for Type IP-2, IP-3					
and A packages?					
- the identification mark and a serial					
number for packages which conforms					
to a design?			П		
		ш	ш		
- the trefoil symbol by embossing,					
stamping or other means resistant to					
the effects of fire and water for Type					
B(U), B(M) and C packages?		Ш	Ш		
- where applicable the orientation arrows					
(not necessary for material in Type					
IP-2, IP-3, A, B(U), B(M) or C					
packages)?					
Marking-requirements.	5.2.1.2				
Are all package markings					
- readily visible,					
- legible and			ΙΠ̈́		
- able to withstand open water exposure		╷╵╴│		"	
without a substantial reduction in					
effectiveness?					
	5.2.2.1.6	\vdash \sqcup		$\vdash \sqcup \vdash$	
Labelling-provisions:	J.Z.Z.1.0				
Is each label					
- affixed near the mark indicating the					
proper shipping name,					
- not covered or obscured and		$ \; \sqcup \; $	Ш	∐	
- displayed next to each other, when					
more than one label is required?		$\sqcup \sqcup$			
Labelling-provisions (number):	5.2.2.1.11.1				
Are the labels (7A to 7C and 7E (in					
addition for fissile material)) affixed to					
- two opposite sides (package, overpack)					
or					
- all four sides (container)?					
Labelling-information:	5.2.2.1.11.2				
Is each label completed with					
- contents: name(s) of the			l	1	
radionuclide(s) using the symbol or the					
radiofidelide(3) dailing the symbol of the					
most restrictive radionuclide(s) for					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for]		
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material);					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq]					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity);					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity);					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity); - transport index(TI) (not applicable for category I-WHITE)					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity); - transport index(TI) (not applicable for category I-WHITE) - criticality safety index (CSI) (each label					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity); - transport index(TI) (not applicable for category I-WHITE) - criticality safety index (CSI) (each label conforming to the model No. 7E)					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity); - transport index(TI) (not applicable for category I-WHITE) - criticality safety index (CSI) (each label conforming to the model No. 7E) Labelling-requirements:					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity); - transport index(TI) (not applicable for category I-WHITE) - criticality safety index (CSI) (each label conforming to the model No. 7E) Labelling-requirements. Do all labels					
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity); - transport index(TI) (not applicable for category I-WHITE) - criticality safety index (CSI) (each label conforming to the model No. 7E) Labelling-requirements. Do all labels - withstand open water exposure without	522217				
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity); - transport index(TI) (not applicable for category I-WHITE) - criticality safety index (CSI) (each label conforming to the model No. 7E) Labelling-requirements. Do all labels - withstand open water exposure without a substantial reduction in effectiveness	5.2.2.2.1.7				
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity); - transport index(TI) (not applicable for category I-WHITE) - criticality safety index (CSI) (each label conforming to the model No. 7E) Labelling-requirements. Do all labels - withstand open water exposure without a substantial reduction in effectiveness and	5.2.2.2.1.7				
most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material); - activity: the maximum activity [Bq] with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity); - transport index(TI) (not applicable for category I-WHITE) - criticality safety index (CSI) (each label conforming to the model No. 7E) Labelling-requirements. Do all labels - withstand open water exposure without a substantial reduction in effectiveness	5.2.2.2.1.7				

Placards.	5.3.1			
Are placards affixed	5.5.1			
 to both sides and at each end of the container, MEGC, tank-container or portable tank? to both sides and at the rear carrying vehicle, if the placards affixed to the container, MEGC, 	5.3.1.2			
tank container or portable tank are not visible from outside the carrying vehicle? o vehicle for carriage in bulk, tank-	5.3.1.3			
vehicle, battery-vehicle and vehicle with demountable tanks? o vehicle carrying radioactive material	5.3.1.4			
in packaging's or IBCs?	5.3.1.5	П		
Orange-coloured plate:	5.3.2.1			
 Are orange-coloured plates affixed in a vertical plane, at the front and at the rear of the transport unit both perpendicular to the longitudinal axis of the transport unit? in addition on the sides of each tank, tank compartment or element of battery vehicles parallel to the 	5.3.2.1.1			
longitudinal axis of the vehicle when a hazard identification number is indicated in Column (20) of table A of Chapter 3.2? - in addition on the sides of each transport unit and container carrying unpackaged solids or articles or packaged radioactive material with a	5.3.2.1.2			
single UN number under exclusive use parallel to the longitudinal axis of the vehicle when a hazard identification number is indicated in Column (20) of table A of Chapter 3.2? In case that the orange-coloured plates prescribed in 5.3.2.1.2 and 5.3.2.1.4 are not used because transport units are carrying only one dangerous substance, do the plates displayed at the front and rear bear the hazard identification number and the UN	5.3.2.1.4			
number for that substance?	5.3.2.1.5		П	
Orange-coloured plate –	5.3.2.2.1			
requirements: - Are the orange-coloured plates reflectorized? - Is the material used be weather				
resistant and ensure durable marking? - Do the plates detach from its amount in the event of 15 minutes '				
engulfment in fire?				
Members of the vehicle crew				
Are there persons other than the members of the vehicle crew on board (not allowed in vehicles carrying packages, overpacks or containers bearing category II-YELLOW or III-YELLOW labels)?	7.5.1 CV33 (1.3)			
	•	 	. —	

De des constant					
Packages - Stowage	7 . 7 1				
Are the packages correctly secured by	7.5.7.1				
suitable means capable of restraining the					
goods (such as fastening straps, sliding,					
slatboards, adjustable brackets) in the					
vehicle or container in a manner that will					
prevent any movement during carriage?					
Where restraints such as bandings or	7.5.7.1				
straps are used, these shall not be over-					
tightened to cause damage or deformation					
of the package					
Transport units					
Transport unit:	8.1.1				
Does the transport unit include more than					
one trailer (or semi-trailer)?					
Opening packages:	8.3.3				
Does the driver or driver's assistant	0.5.5				
observe the prohibition on opening					
packages?					
Radiation limits	<u> </u>				
Radiation level:					
Does the radiation level not exceed the					
following limits?					
- excepted packages					
excepted packageso external surface ≤ 5 μSv/h	2.2.7.2.4.1.2			П	
	2.2.7.2.4.1.2				
o 10 cm from the external surface of					
any unpackaged instrument or	2272412				
article ≤ 0,1 mSv/h	2.2.7.2.4.1.3				
- low dispersible radioactive material					
o 3 m from the unshielded	2272244	l —		_	
radioactive material ≤ 10 mSv/h	2.2.7.2.3.4.1a)				
- packages and overpacks	4 4 0 4 40	l		l	
 external surface ≤ 2 mSv/h 	4.1.9.1.10				
o external surface ≤ 10 mSv/h (under	7.5.11	l		l	
exclusive use)	CV33 (3.5)	Ш			
- vehicle					
 o external surface ≤ 2 mSv/h and 		ш	Ш		
 2 m from the external surface ≤ 0,1 	7.5.11 CV33	_			
mSv/h	(3.3)	Ш		Ш	
Contamination:					
Does the non-fixed contamination not					
exceed the following limits on the external					
surface of any package as well as on the					
external and internal surface of overpacks,					
containers, tanks, IBCs and vehicles?					
≤ 4 Bq/cm ² for beta and gamma	4.1.9.1.2				
emitters and low toxicity					
alpha emitters					
≤ 0,4 Bq/cm² for all other alpha emitters	4.1.9.1.4				
Equipment					
Fire-fighting equipment – number.	8.1.4.1				
Is the transport unit equipped with					
sufficient fire extinguisher?					
excepted packages 2 kg					
$mpm \le 3.5 t \qquad 2 kg + 2 kg$		ΙĦ	ΙĦ	ΙĦ	
$3.5 \text{ t} < \text{mpm} \le 7.5 \text{ t}$ $2 \text{ kg} + 2 \text{ kg}$		ΙĦ	ΙĦ	ΙĦ	
mpm > 7.5 t $ 2 kg + 6 kg $		ΙĦ		ΙĦ	
Impin / //JC Zing ring rong	1				

Fire-fighting equipment –	8.1.4.4				
requirements:	0121111				
Are the portable fire extinguishers					
- fitted with a seal verifying that they					
have not been used and					
- bearing a mark of compliance and an				_	
inscription at least indicating the date					
of the next recurrent inspection or of					
the maximum permissible period of					
use?					
Fire-fighting equipment – provisions.	8.1.4.5				
Are the portable fire extinguishers installed					
on the transport units that they are					
- easily accessible to the vehicle crew					
and					
 protected against effects of the 					
weather so that their operational safety					
is not affected?					
Fire-fighting equipment – use:	8.3.2	_			
Do the members of the vehicle crew know					
how to use the fire-fighting appliances?					
Miscellaneous equipment and	8.1.5				
equipment for personal protection					
Is the transport unit provided with			-	_	
- 1 wheel chock for each vehicle,				l ∐ l	
- 2 self-standing warning signs,				l ∐ l	
- eye rinsing liquid, and		Ш	Ш	ш	
for each member of the vehicle crew					
- 1 warning vest,				ᅵ닏ㅣ	
- portable lighting apparatus,		$\mid \; \mid \; \mid \; \mid$	님	ᅵ닏ㅣ	
- 1 pair of protection gloves and		\vdash	님	ᅵ႘ᅵ	
- eye protection?					
Other	I				
If applicable, do involved parties have the					
necessary permits/licenses/certificates for handling and transport?					
If applicable, are the conditions stated in		$+$ \sqcup	$+$ \square	 	
the permits/licenses/certificates met?					
the permits/licenses/certificates met?				\perp	

Checklist for routine inspections of transport by rail **Annexe 7.2: Inspection details:** Inspector Name(s): File reference: Date/time: Location: **Company details and organisation:** Consignor Name: Address: Telephone: Fax: E-mail: Carrier Name: Address: Telephone: Fax: E-mail: Consignee Name: Address: Telephone: Fax: E-mail: Name of the different people met: Name Title/function/company **Telephone** E-mail **List of carried packages:** Model Manufacturer Type/Certificate of **Serial numbers** approval

Wagon details:

Wagon Number: Nationality: Type of wagon: Owner: Leased by:

Container/Tank container/Trailer Id. no:

	1	1 6	. 1.		T
Subject/Inspection aspect	Provision RID 2013	OK	ompliand NOK	e NA	Comments
Wagon	VID 5012	JUK	NOK	INA	
Is the wagon revised within the prescribed	1.4.1 - 1.4.2	T		l	
period?	11111 11112	Ιп			
Is the wagon technically fit for use?					
(Wheels, axles, axle boxes, springs,					
brakes, frame, buffers and hitch)					
Is the cargo within the allowed maximum					
load?					
Is the brake handle (if manual) in the					
correct position (loaded or empty)?					
Is the cargo allowed on this wagon?					
Is the cargo correctly secured against	7.5.1				
movement or displacement?					
Is there visible damage, leakage, etc., of	7.5.1				
cargo or wagon?					
Security					
Are the areas for temporary storage	1.10.1.3				
(usually terminals and shunting yards)					
- properly secured,					
- well lit					
- not accessible to the general public			_		
(where appropriate)?		ΙШ			
Does each member of the crew carry	1.10.1.4				
required identification?		_ Ц			
Are all the provisions included in the	1.10.1.3				
Security Plan fulfilled (for high					
consequences radioactive material)?					
Documentation (in the last of	T 4 0	1		Ī	
Is the transport document (in any form)	5.4.0				
accessible during the transport? Is the train driver provided with	5.4.3				
instructions in writing?	3.4.3	Ιп			
Is the train driver provided with a list of	5.4.3.3				
wagons in correct order indicating the	3111313				
wagons with dangerous goods?					
Does the transport document contain the	5.4.1				
following information?					
- Is the RID-box ticked (when					
International transport using CIM-					
document)					
a) UN number, preceded by the letters	5.4.1.1.1				
"UN";	31111111				
b) proper shipping name;					
c) primary hazard class (number "7");					
d) name and symbol of each radionuclide	5.4.1.2.5.1				
or a list of the most restrictive					
radionuclide(s);					
e) description of the physical and					
chemical form or a notation that the					
material is a special form radioactive		1			
material or low dispersible radioactive					
material;					
f) Maximum activity (Bq) with an					
appropriate SI-prefix symbol or, for		1			
fissile material, the mass (g) of the fissile material may be used;			П		
			🗀		
g) category of the package (I-WHITE, II-YELLOW);					
h) transport index (categories II-YELLOW			🖳		
and III-YELLOW only);			Ιп		
i) criticality safety index (for					
consignments including fissile		1			
	i .	1	l	1	

and the state No.					
material);			Ш	Ш	
j) Identification mark for each					
competent authority approval					
certificate;			Ш		
k) detailed statement of the contents of					
each package within an overpack,			l —		
container or vehicle;					
I) "EXCUSIVE USE SHIPMENT" where a					
consignment is required to be shipped					
under exclusive use;					
m) total activity of the consignment as a					
multiple of A2 for LSA-II and LSA-III					
substances, SCO-I and SCO-II;		ᅵ닏	ᅵ片	▎╚	
g) name and address of the consignor;	5.4.1.1.1				
h) name and address of the			_	l	
consignee(s);					
- "Carriage in accordance with					
1.1.4.2.1" for the carriage in a					
transport chain including maritime or			_		
air carriage.					
- "Carriage in accordance with 1.1.4.4"					
for carriage in a combined road/rail					
transport.			Ш	Ш	
Did the consignor provide instructions	5.4.1.2.5.2	_			
regarding actions required by the carrier?					
Is a container or vehicle packing certificate	5.4.2				
provided (if in a transport chain involving a					
sea transport)?					
TI, CSI and category					
Is the transport index (TI) correct?	5.1.5.3				
Is the criticality safety index (CSI)	5.1.5.3.3				
calculated correct					
- for each overpack or container,					
- for each overpack or container,	5.1.5.3.4				
for each overpack or container,for consignment or vehicle?	5.1.5.3.4				
for each overpack or container,for consignment or vehicle? Are the packages and overpacks assigned	5.1.5.3.4				
 for each overpack or container, for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h 	5.1.5.3.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h	5.1.5.3.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h	5.1.5.3.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE $TI \le 0$, $RI \le 0.005$ mSv/h $II-YELLOW$ $TI \le 1$, $RI \le 0.5$ mSv/h	5.1.5.3.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE $TI \le 0$, $RI \le 0.005$ mSv/h II-YELLOW $TI \le 1$, $RI \le 0.5$ mSv/h III-YELLOW $TI \le 10$, $RI \le 2$ mSv/h III-YELLOW ⁽¹⁾ $TI > 10$, $RI \le 10$ mSv/h	5.1.5.3.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE $TI \le 0$, $RI \le 0.005$ mSv/h II-YELLOW $TI \le 1$, $RI \le 0.5$ mSv/h III-YELLOW $TI \le 10$, $RI \le 2$ mSv/h III-YELLOW ⁽¹⁾ $TI > 10$, $RI \le 10$ mSv/h (1) under exclusive use	5.1.5.3.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE $TI \le 0$, $RI \le 0,005$ mSv/h II-YELLOW $TI \le 1$, $RI \le 0,5$ mSv/h III-YELLOW $TI \le 10$, $RI \le 2$ mSv/h III-YELLOW $^{(1)}TI > 10$, $RI \le 10$ mSv/h $^{(1)}$ under exclusive use Note: $RI : Radiation level$	5.1.5.3.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE $TI \le 0$, $RI \le 0,005$ mSv/h II-YELLOW $TI \le 1$, $RI \le 0,5$ mSv/h III-YELLOW $TI \le 10$, $RI \le 2$ mSv/h III-YELLOW $TI \ge 10$, $RI \le 10$ mSv/h (1) under exclusive use Note: $RI : Radiation level$	5.1.5.3.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE $TI \le 0$, $RI \le 0.005$ mSv/h II-YELLOW $TI \le 1$, $RI \le 0.5$ mSv/h III-YELLOW $TI \le 10$, $RI \le 2$ mSv/h III-YELLOW $TI \ge 10$, $RI \le 10$ mSv/h (1) under exclusive use Note: $RI : Radiation level$ Marking and labelling Is each package legibly and durably	5.1.5.3.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE $TI \le 0$, $RI \le 0,005$ mSv/h II-YELLOW $TI \le 1$, $RI \le 0,5$ mSv/h III-YELLOW $TI \le 10$, $RI \le 2$ mSv/h III-YELLOW $TI \ge 10$, $RI \le 2$ mSv/h III-YELLOW $TI \ge 10$, $RI \le 10$ mSv/h (1) under exclusive use Note: $RI : Radiation \ level$ Marking and labelling Is each package legibly and durably marked on the outside with	5.2.1.7.1				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE $TI \le 0$, $RI \le 0,005$ mSv/h II-YELLOW $TI \le 1$, $RI \le 0,5$ mSv/h III-YELLOW $TI \le 10$, $RI \le 2$ mSv/h III-YELLOW $TI \ge 10$, $RI \le 10$ mSv/h (1) under exclusive use Note: $RI : Radiation \ $ level Marking and labelling Is each package legibly and durably marked on the outside with - an identification of either the					
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI : Radiation level Marking and labelling Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee (or both)?					
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE					
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE					
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE					
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW¹TI > 10, RI ≤ 10 mSv/h (¹¹) under exclusive use Note: RI : Radiation level Marking and labelling Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee (or both)? - the UN-number, preceded by the letters "UN" and the proper shipping name (excepted packages; only UN-number, preceded by the letters	5.2.1.7.1				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1 5.2.1.7.2 5.2.1.7.3				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1 5.2.1.7.2 5.2.1.7.3				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1 5.2.1.7.2 5.2.1.7.3 5.2.1.7.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1 5.2.1.7.2 5.2.1.7.3 5.2.1.7.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1 5.2.1.7.2 5.2.1.7.3 5.2.1.7.4 5.2.1.7.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1 5.2.1.7.2 5.2.1.7.3 5.2.1.7.4				
- for each overpack or container, - for consignment or vehicle? Are the packages and overpacks assigned to the correct category? I-WHITE	5.2.1.7.1 5.2.1.7.2 5.2.1.7.3 5.2.1.7.4 5.2.1.7.4				

the effects of five and water for the	1			1	
the effects of fire and water for type	E 2 4 7 6				
B(U), B(M) and C packages?	5.2.1.7.6		l H	ᅵ닉	
- orientation arrows (where applicable)?	5.2.1.9	Ш	Ш	Ш	
Are all package markings	5.2.1.2		_	_	
- readily visible?					
- legible?					
 able to withstand water exposure? 					
Is each label	5.2.2.1.6				
- affixed near the mark indicating the					
proper shipping name,					
- not covered or obscured and			一同		
- displayed next to each other, when					
more than one label is required?					
Are the labels (7A to 7C and 7E [in	5.2.2.1.11.1				
addition for fissile material]) affixed to	3.2.2.1.11.1				
- two opposite sides (package or					
overpack) or		ΙH	닏	ᅵ닏	
- all four sides (container)?					
Is each label completed with					
- contents: Name(s) of the	5.2.2.1.11.2				
radionuclide(s) using the symbol, or					
the most restrictive radionuclide(s) for					
mixtures of radionuclides, followed by					
the LSA-/SCO-group (the name of the					
radionuclide(s) is not necessary for					
LSA-I material);					
- activity: The maximum activity (Bq)		_	_		
with the appropriate SI-prefix symbol					
(for fissile material, the mass (g) may					
be used in place of activity);					
- transport index (TI) (not applicable for					
category I-WHITE);	F 2 2 1 11 2	ΙH	H		
- criticality safety index (CSI);	5.2.2.1.11.3 5.2.2.2.1.5				
Is there any text insert in the space below	5.2.2.2.1.5				
the symbol?		Ш		Ш	
Do all labels withstand weather exposure	5.2.2.2.1.7				
without substantial reduction in			_	_	
effectiveness?		Ш	Ш	Ш	
Do all labels satisfy the provisions to the	5.2.2.2.2				
models (colour, symbols and format)?					
Are placards affixed to both sides and each	5.3.1.2				
end of the container, MEGC, tank					
container or portable tank?			П		
Are placards affixed to both sides of the					
wagon,					
- if the placards affixed to the					
container, MEGC, tank container or					
portable tank are not visible from					
	E 2 1 2	П			
outside the carrying wagon or	5.3.1.3	╽╙		🂾	
- if the wagon is for carriage in bulk,					
tank, battery-wagon or wagon with	E 2.4.4				
demountable tanks or	5.3.1.4	$ \; \sqcup \; $	\sqcup	$ \; \sqcup \; $	
- if the wagon is carrying radioactive				_	
packages?	5.3.1.5				
Are orange-coloured plates affixed and	5.3.2				
visible to both sides of the wagon?					
Are the orange-coloured plates	5.3.2.2				
- weather resistant and durable?					
- do the plates detach from its mounts		-		_	
if engulfed in 15 minutes of fire?					
- do they satisfy the provisions to the					
model (colour, size, format)?					
	1				

		1			T
Are the markings on the wagon (on both					
sides) consistent with the documentation?					
Packages - Stowage	7.5.7.1	1 1		I	
Are the packages correctly secured by	7.5.7.1				
suitable means capable of restraining the					
goods (such as fastening straps, sliding,					
slatboards, adjustable brackets) in the					
wagon or container in a manner that will					
prevent any movement during carriage?	7.5.7.1	Ш			
Where restraints such as bandings or straps are used, these shall not be over-	7.5.7.1				
tightened to cause damage or deformation					
of the package					
Radiation limits		1 1		1	
Are the radiation levels kept within the					
following limits?					
Excepted packages: - External surface ≤ 5 µSv/h	2.2.7.2.4.1.2				
- 10 cm from the external surface of	2.2./.2.4.1.2		Ш		
any unpackaged instrument or article					
≤ 0,1 mSv/h	2.2.7.2.4.1.3				
Low dispersible radioactive material:	2.2.7.2.7.1.3		Ш		
- 3 m from the unshielded radioactive	2.2.7.				
material ≤ 10 mSv/h	2.3.4.1a)				
Packages or overpacks:	2.5. 1.14)		ш		
- External surface ≤ 2 mSv/h	4.1.9.1.10				
- External surface ≤ 10 mSv/h under	7.5.11 CW33				
exclusive use	(3.5)				
Wagon	(3.3)				
- External surface ≤ 2 mSv/h and	7.5.11 CW33				
- 2 m from external surface ≤ 0,1	(3.3)		_		
mSv/h	(/				
Does the non-fixed contamination not	RID				
exceed the following limits on the external					
surface of any package as well as on the					
external and internal surface of overpacks,					
containers, tanks, IBCs and wagons?					
\leq 4 Bq/cm ² for β and γ emitters and	4.1.9.1.2				
low toxicity alpha emitters					
≤ 0,4 Bq/cm² for all other alpha emitters	4.1.9.1.4				
Other					
Is the transport unit equipped with	5.4.3				
- portable lighting apparatus,					
- suitable warning clothing					
If applicable, do involved parties have the					
necessary permits/licenses/certificates for			_		
handling and transport?					
If applicable, are the conditions stated in					
the permits/licenses/certificates met?					•

Annexe 7.3: Checklist for routine inspections of transport by sea

Inspection details:			
Inspector name(s): File reference: Date/time: Location:			
Company details and	organisation:		
Company name: Address: Telephone: Fax: E-mail: Web:			
Name of the different	people met:		
Name	Title	Telephone	E-mail
List of carried packag	es:		
Model	Manufacturer	Type/Certificate of approval	Serial numbers
Organisation detail			
Does the company carry or	handle class 7 packages?	☐ Yes ☐ No	
If no, is there a documer		Yes No	
Activity of the company		Consignment Shipping Handling Loading / unloading Other:	
Total number of employees	? ved with RAM transport, and		
	e agent, cargo handler):		
Number of class 7 package	s handled?		
Type of class 7 packages h	andled	 ☐ Excepted packages ☐ Industrial packages ☐ Type A ☐ Type B ☐ Fissile ☐ Special Form Material ☐ Special Arrangement 	
Ship details		Ship Name: IMO number: Flag:	

	D inite		·		1
Subject/Inspection aspect	Provision IMDG	OK	Compliand		Comments
Consignment documentation	IMDG	UK	NOK	NA	
Are the approval certificates available to	5.4.1.5.7.4	T	l		
the carrier before loading and unloading?	J.T.1.J./.T				
Has the consignor supplied all required	5.4.1.1 &			\vdash	
transport documentation?	5.4.1.3				
Does the transport document contain all	5.4.1.4.1 &		Ш		
required information, in the correct order?	5.4.1.4.7,				
required information, in the correct order.	and see also				
	1.5.1.5 for				
	Excepted				
	Packages				
Are there special provisions and are they	5.4.1.5.7.2				
respected?	7140.0			\sqcup	
Other documentations:	IMDG			l —	
Shipper's Declaration	5.4.1	\parallel	l H	ᅵ片	
Container/vehicle packing certificate;	5.4.2			ΙШ	
 Documentation required aboard the ship: 	5.4.3				
- a special list or manifest showing					
the location of RAM;					
or a detailed stowage plan;		lĦ	l Ħ	ΙĦ	
- emergency response information;		ΙĦ	l Н	ΙĦ	
Multimodal Dangerous Goods Form	5.4.5.1		l Ħ	ΙĦ	
Sea expedition					
Does the company hold and follow	4.1.9				
recommended packing procedures?					
Marking:					
Are the cargo transport units correctly		<u> </u>			
placarded and marked?	5.3			ļ 🗆	
Are the packages correctly marked and				l	
labelled?	5.2	ļШ	ļШ	ļШ	
Are the markings legible and long-lasting?					
Do they able to withstand a three month's				_	
immersion in the sea?	5.2.1.2	Ш	Ш	\sqcup	
Stowage:	7 1		[[}	
Are the radioactive materials correctly stowed?	7.1				
Does the consignment respect the special	7.1.14			╎└	
provisions for class 7:	7.1.14				
 activity limits for LSA material and 					
SCO;					
• heat flux limit;					
radiation levels;					
• TI limits;					
CSI limits;					
 consignments under exclusive use; 					
 consignments by means of a special 					
use ship;					
 periodical contamination control. 	see also				
See IMDG 2.7.2.4.1.5 for the level of non-	4.1.9.1.2				
fixed contamination of an empty					
packaging.	ļ				
Segregation:					
Are the radioactive materials sufficiently	72446		_		
segregated from other dangerous goods?	7.2.1.16	凵	ļШ	🏻	
Are the radioactive materials sufficiently	720				
segregated from crew and passengers?	7.2.9	╎╎	H	╎╎	
Who has made the loading plan?		⊔	ļ Ш	╎╙	
Is the loading plan respected in cargo spaces?				_	
spaces:	I				1

Checklist for INF certified ships							
(This checklist only gives the references of the ma	(This checklist only gives the references of the main parts of the International Code for the						
Safe Carriage of Packaged Irradiated Nuclear Fuel	, Plutonium and Hi	gh-Level	Radioact	ive			
Wastes on Board Ships (INF Code))							
INF ships classification:	INF 1.1.2						
INF-1 : activity < 4000 TBq;							
- INF-2 : activity $< 2 \times 10^6$ TBq or							
$< 2 \times 10^5$ TBq for a plutonium							
cargo;							
 INF-3: no limited activity 							
Are the initial and periodical surveys of INF	INF 1.3.2,						
certified ships performed and are the	1.3.3 & 1.3.4						
documents available?							
Other							
If applicable, do involved parties have the							
necessary permits/licenses/certificates for							
handling and transport?							
If applicable, are the conditions stated in							
the permits/licenses/certificates met?							

Annexe 7.4: Checklist for routine inspections of transport by inland waterway

Inspection details: Inspector name(s): File reference:

Date/time: Location:

|--|

Consignor Name: Address: Telephone: Fax: E-mail:	
Carrier Name: Address: Telephone: Fax: E-mail:	
Consignee Name: Address: Telephone: Fax:	

E-mail:

Name of the different people met:

Name	Title	Telephone	E-mail

List of carried packages:

Model	Manufacturer	Туре	Serial numbers

Vessel(s) details:

Vessel(s) Identification:

Nationality:

Type of vessel(s):

Owner: Leased by:

Subject/Inspection aspect	Provision		Compliand		Comments
	ADN 2013	OK	NOK	NA	30
Security Areas for temporary storage:	1.10.1.3	T			
Are the areas for the trans-shipment	1.10.1.5				
- properly secured,					
- well illuminated and					
- not accessible to the general public			_		
(where possible and appropriate)?					
Means of identification:	1.10.1.4			_	
Does each member of the vessel crew			ΙШ	Ш	
carry means of identification?	1.10.3.2				
Are all the provisions included in the Security Plan fulfilled (for high	1.10.5.2		lп		
consequences radioactive material)?					
Documents to be carried					
Documents:	8.1.2	T			
Are the following documents carried on the vessel?					
 vessel's certificate of approval 				Ιп	
- transport document;					
- instructions in writing;					
- inspection certificate of the insulation					
resistance of the electrical installation				Ш	
- inspection certificate of the fire-					
extinguishing equipment and fire-hoses - means of identification;		\parallel	ᅵᅢ	ΙH	
- means of identification; - stowage plan			ΙH	ΙĦ	
- ADN specialized knowledge certificate;			ΙĦ		
Transport document – information:	5.4.1				
Does the transport document contain the					
following information?					
a) UN number preceded by the letters				l	
"UN";		\parallel	ᅵᅵᅵ	IЦ	
b) proper shipping name;		\parallel	ᅵᅢ	IН	
c) primary hazard class (number "7");			ᅵᅢ		
d) name and address of the consignor;e) name and address of the consignee(s);		1	ᅵᅢ	ΙH	
The following information shall be inserted					
in the order given and immediately after					
the information a) to c) from above:					
a) name or symbol of each radionuclide or					
a list of the most restrictive					
radionuclide(s);					
b) description of the physical and					
chemical form or a notation that the					
material is a special form radioactive					
material or low dispersible radioactive material;					
c) maximum activity [Bq] with an					
appropriate SI prefix symbol (for fissile					
material, the mass [g] of fissile					
material may be used in place of					
activity);					
d) category of the package (I-WHITE, II-		_	_	_	
YELLOW, III-YELLOW);					
e) transport index (categories II-YELLOW					
and III-YELLOW only);			⊔		
 f) criticality safety index for consignments including fissile material; 					
g) identification mark for each competent					
authority approval certificate;					
h) detailed statement of the contents of					
each package within the overpack,			l		
container or conveyance;					

i) "EXCLUSIVE USE SHIPMENT" where a						
consignment is required to be shipped						
under exclusive use;						
j) total activity of the consignment as a						
multiple of A2 for LSA-II and LSA-III						
substances, SCO-I and SCO-II;						
"Carriage in accordance with 1.1.4.2.1" fo	or					
the carriage in a transport chain including						
maritime or air carriage;			П			
Transport document – statement	5.4.1.2.5.2					
regarding actions.						
Did the consignor provide in the transport						
documents a statement regarding actions						
that are required to be taken by the carrie						
or a statement that no such requirements						
are necessary?						
Container/vehicle packing certificate	9 : 5.4.2					
Is a container/vehicle packing certificate	.					
provided with the transport document (if						
the carriage in a large container precedes						
a voyage by sea)?			П			
Instructions in writing:	5.4.3					
Are the instructions in writing carried in	3.1.5					
the wheelhouse readily available and do						
they correspond in form and contents to						
the given model?						
Transport index, criticality safety ind	lov category of	the nac	kage/ o	Vorna	.k	
Transport index (TI):	5.1.5.3	lile pac	kage/ C	vei pat	,r.	
Is the transport index (TI). Is the transport index (TI) correct?	3.1.3.3					
is the transport index (11) correct:			П			
Criticality safety index (CSI):	5.1.5.3.3					
Is the criticality safety index (CSI) correct						
- for each overpack or container						
for each overpack or containerin a consignment or aboard a vessel or						
for each overpack or containerin a consignment or aboard a vessel or cargo transport unit?						
 for each overpack or container in a consignment or aboard a vessel or cargo transport unit? Category of the package and 	5.1.5.3.4					
 for each overpack or container in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: 	5.1.5.3.4					
 for each overpack or container in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned 	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category?	5.1.5.3.4					
 for each overpack or container in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h 	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW(¹¹) TI > 10, RI ≤ 10 mSv/h (¹¹) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages:	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW(¹¹) TI > 10, RI ≤ 10 mSv/h (¹¹) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW ⁽¹⁾ TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW ⁽¹⁾ TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor	5.1.5.3.4					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h III-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI ≤ 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor consignee, or both?	5.1.5.3.4 5.2.1.7.1					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h III-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI ≤ 10, RI ≤ 10 mSv/h (¹¹) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor consignee, or both? - the UN-number preceded by the letter	5.1.5.3.4 5.2.1.7.1 or					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h III-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI ≤ 10, RI ≤ 10 mSv/h (¹¹) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (i	5.1.5.3.4 5.2.1.7.1 or s n					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and the proper shipping name (if the case of excepted packages only the letter "UN" and	5.1.5.3.4 5.2.1.7.1 or s n					
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- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (if the case of excepted packages only the UN-number, preceded by the letters "UN" is required)?	5.1.5.3.4 5.2.1.7.1 or s n					
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- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (if the case of excepted packages only the UN-number, preceded by the letters "UN" is required)? - the permissible gross mass (for each package of gross mass exceeding 50	5.1.5.3.4 5.2.1.7.1 or s n					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (if the case of excepted packages only the UN-number, preceded by the letters "UN" is required)? - the permissible gross mass (for each package of gross mass exceeding 50 kg)?	5.1.5.3.4 5.2.1.7.1 or rs n e					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (if the case of excepted packages only the UN-number, preceded by the letters "UN" is required)? - the permissible gross mass (for each package of gross mass exceeding 50 kg)? - TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE	5.1.5.3.4 5.2.1.7.1 or rs n e					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (if the case of excepted packages only the UN-number, preceded by the letters "UN" is required)? - the permissible gross mass (for each package of gross mass exceeding 50 kg)? - TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or rather	5.1.5.3.4 5.2.1.7.1 or rs n e					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (if the case of excepted packages only the UN-number, preceded by the letters "UN" is required)? - the permissible gross mass (for each package of gross mass exceeding 50 kg)? - TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPA, TYPE B(U), TYPE B(M) or rather TYPE C?	5.1.5.3.4 5.2.1.7.1 or rs n e					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (ithe case of excepted packages only the UN-number, preceded by the letters "UN" is required)? - the permissible gross mass (for each package of gross mass exceeding 50 kg)? - TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or rather TYPE C? - the international vehicle registration	5.1.5.3.4 5.2.1.7.1 or rs n e					
- for each overpack or container - in a consignment or aboard a vessel or cargo transport unit? Category of the package and overpack: Are the packages and overpacks assigned to the correct category? I-WHITE TI ≤ 0, RI ≤ 0,005 mSv/h II-YELLOW TI ≤ 1, RI ≤ 0,5 mSv/h III-YELLOW TI ≤ 10, RI ≤ 2 mSv/h III-YELLOW TI > 10, RI ≤ 10 mSv/h (1) under exclusive use Note: RI = Radiation level Marking and labeling Marking of packages: Is each package legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letter "UN" and the proper shipping name (if the case of excepted packages only the UN-number, preceded by the letters "UN" is required)? - the permissible gross mass (for each package of gross mass exceeding 50 kg)? - TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPA, TYPE B(U), TYPE B(M) or rather TYPE C?	5.1.5.3.4 5.2.1.7.1 or rs n e					

 the identification mark and a serial number for packages which conforms to a design? the trefoil symbol by embossing, stamping or other means resistant to 					
the effects of fire and water for Type B(U), B(M) and C packages? - where applicable the orientation arrows (not necessary for material in Type					
IP-2, IP-3, A, B(U), B(M) or C packages)?					
Marking-requirements.	5.2.1.2				
Are all package markings - readily visible, - legible and					
- able to withstand open water exposure without a substantial reduction in					
effectiveness?					
Labelling-provisions:	5.2.2.1.6				
Is each label					
- affixed near the mark indicating the		l 🖂			
proper shipping name, - not covered or obscured and		ΙH	l H		
- displayed next to each other, when					
more than one label is required?					
Labeling-provisions (number):	5.2.2.1.11.1				
Are the labels (7A to 7C and 7E (in					
addition for fissile material)) affixed to					
- two opposite sides (package, overpack)					
or		l —			
- all four sides (container)?	5.2.2.1.11.2		Ш	Ш	
Labeling-information: Is each label completed with	5.2.2.1.11.2				
- contents: name(s) of the					
radionuclide(s) using the symbol or the					
most restrictive radionuclide(s) for					
mixtures of radionuclides, followed by					
the LSA-/SCO-group (the name of the					
radionuclide(s) is not necessary for					
LSA-I-material);					
- activity: the maximum activity [Bq]					
with the appropriate SI prefix symbol					
(for fissile material the mass [g] may					
be used in place of activity); - transport index(TI) (not applicable for		🖰		Ш	
category I-WHITE)		ΙП			
- criticality safety index (CSI) (each label			_		
conforming to the model No. 7E)					
Labeling-requirements.					
Do all labels					
- withstand open water exposure without	F 2 2 2 4 7				
a substantial reduction in effectiveness and	5.2.2.2.1.7		🗀	╽╙╽	
- satisfy the provisions to the models					
(colour, symbols and format)?	5.2.2.2.2				
Placards.	5.3.1			_	
Are placards affixed					
- to both sides and at each end of the					
container, MEGC, tank-container or	F 2 4 2			_	
portable tank?	5.3.1.2				
 to both sides and at the rear carrying vehicle or wagon, if the 					
placards affixed to the container,					
MEGC, tank container or portable					
tank are not visible from outside					

the carrying vehicle?	5.3.1.3				
 vehicle for carriage in bulk, tank- vehicle, battery-vehicle and vehicle 					
with demountable tanks?	5.3.1.4	П	П	ΙП	
 vehicle carrying radioactive material 			_		
in packagings or IBCs?	5.3.1.5				
Orange-coloured plate:	5.3.2.1				
Are orange-coloured plates affixed					
in a vertical plane, at the front and at the rear of the transport unit both					
perpendicular to the longitudinal axis of					
the transport unit?	5.3.2.1.1				
- in addition on the sides of each tank,					
tank compartment or element of					
battery vehicles parallel to the					
longitudinal axis of the vehicle when a hazard identification number is					
indicated in Column (20) of table A of					
Chapter 3.2?	5.3.2.1.2				
- in addition on the sides of each					
transport unit and container carrying					
unpackaged solids or articles or packaged radioactive material with a					
single UN number under exclusive use					
parallel to the longitudinal axis of the					
vehicle when a hazard identification					
number is indicated in Column (20) of	F 2 2 4 4				
table A of Chapter 3.2?In case that the orange-coloured plates	5.3.2.1.4		Ш		
prescribed in 5.3.2.1.2 and 5.3.2.1.4					
are not used because transport units					
are carrying only one dangerous					
substance, do the plates displayed at					
the front and rear bear the hazard identification number and the UN					
number for that substance?	5.3.2.1.5				
Orange-coloured plate —	5.3.2.2.1				
requirements:					
- Are the orange-coloured plates					
reflectorized? - Is the material used be weather			Ш		
resistant and ensure durable marking?					
- Do the plates detach from its amount					
in the event of 15 minutes' engulfment					
in fire?					
Members of the vessel/vehicle crew					
Are there persons other than the members	7.1.4.14.7.1.3				
of the vessel crew or the driver of the					
vehicle embarked on board (not allowed in					
vessels/vehicles carrying packages,					
overpacks or containers bearing category II-YELLOW or III-YELLOW labels)?					
Packages - Stowage					
Are the consignments securely stowed?	7.1.4.14.7.3.1				
Has the master established a stowage plan	7.1.4.11				
of the dangerous goods?				Ш	
Radiation limits Radiation level:					
Does the radiation level not exceed the					
following limits?					
- excepted packages					
o external surface ≤ 5 µSv/h	2.2.7.2.4.1.2		Ш	╽╙╽	
 10 cm from the external surface of any unpackaged instrument or 					
any unpackaged instrument of	<u> </u>	1]	<u> </u>

article ≤ 0,1 mSv/h	2.2.7.2.4.1.3				
- low dispersible radioactive material					
o 3 m from the unshielded	2272244				
radioactive material ≤ 10 mSv/h	2.2.7.2.3.4.1		Ш		
 packages and overpacks o external surface ≤ 2 mSv/h 	7.1.4.14.7.3.3	П		П	
 external surface ≤ 10 mSv/h (under 	7.1.4.14.7.3.5				
exclusive use)					
- conveyance	7.1.4.14.7.3.3				
 external surface ≤ 2 mSv/h and 					
o 2 m from the external surface ≤ 0,1					
mSv/h [Ш	Ш	Ш	
Contamination: Does the non-fixed contamination not	7.1.4.15.2 &				
exceed the following limits on the external	7.1.4.14.7.5				
surface of any package as well as on the					
external and internal surface of overpacks,					
containers, tanks, IBCs and vehicles,					
wagons vessels?			_		
≤ 4 Bq/cm ² for beta and gamma					
emitters and low toxicity					
alpha emitters ≤ 0,4 Bq/cm² for all other alpha emitters					
Equipment					
Fire-extinguishing appliances:	8.1.4				
Is the vessel equipped with at least two					
hand fire-extinguishers having the same					
capacity?					
The fire-extinguishing agent contained in these					
additional hand fire-extinguishers shall be suitable for fighting fires involving the					
dangerous goods carried					
Fire- extinguishing appliances – use:	8.3.2				
Does the master/expert know how to use					
the fire-extinguishing appliances ?					
Other	T			_	
If applicable, do involved parties have the					
necessary permits/licenses/certificates for					
handling and transport? If applicable, are the conditions stated in		$+$ \square		 	
the permits/licenses/certificates met?					
are permissiple and account of the control of the c	l				

Annexe 7.5: Checklist for routine inspections of transport by air

Inspection details:			
Inspector name(s): File reference: Date/time: Location:			
Company details and	organisation:		
Consignor Name: Address: Telephone: Fax: E-mail:			
Carrier Name: Address: Telephone: Fax: E-mail:			
Consignee Name: Address: Telephone: Fax: E-mail:			
Name of the different	people met:		
Name	Title	Telephone	E-mail
List of carried package	es: Manufacturer	Type/Certificate of approval	Serial numbers
Aircraft(s) details: Aircraft(s) Identification: Nationality: Type of aircraft(s): Owner: Leased by:			

	Provision	C	Complianc	:e	
Subject/Inspection aspect	ICAO-TI	OK	NOK	NA	Comments
Storage in Transit	2013-2014 Ed.				
Radiation Protection					
 Correct segregation distances during storage in transit (between groups of packages) 	7.2.10.4.1				
 Correct segregation distances during storage in transit (with people) (NB: Segregation distances with undeveloped photographic film and 	7.2.10.6.1				
living animals shall be respected too) CSI < 50? Or correct segregation distance?	7.2.10.4.2				
Tie-down		ш			
 Are the packages correctly tied-down? Adequate material for the handling of 	7-2-4-2				
class 7 packages	7.2.4.3				
 Dangerous goods storeroom Is there a dedicated storeroom for dangerous goods? 	Recommendation, not mandatory				
Last contamination control? Is there any radiation control (decimates)?					
(dosimeter)? Displayed notice of dangerous goods		Ш			
- Are there notices prominently displayed about accepted dangerous					
goods?	7.4.8				
Airline / Air Cargo carrier Is the airline / air cargo carrier allowed to	1				
transport radioactive material?					
Documents available for inspection	1	ı	T		
Documents : Are the following documents available for					
inspection?					
- Two copies of DGD or, if provided by					
EDP or EDI techniques, can be					
produced as a paper document without delay;	5.4.1.1	П		П	
- Multilateral shipment approval and					
notification	5.1.2.1				
 Certificates issued by the competent authority, design for 	5.1.2.2				
- special form;	3111212				
- low dispersible radioactive					
material - UF ₆ ≥ 0,1 kg					
 fissile material 					
- type B(U) or B(M)					
type Cspecial arrangements		H		$\mid \mid \mid \mid$	
Transport document – information					
Does the transport document contain the					
following information? - Name and address of the shipper;	5.4.1.3				
- Name and address of the consignee;					
a) UN number preceded by the letters "UN";	5.4.1.4				
b) proper shipping name;c) primary hazard class (number "7");d) subsidiary hazard class (if applicable);					

Is the sequence correct (a, b, c, d)?	5.4.1.4.2		
a) name or symbol of each radionuclide or a list of the most restrictive			
radionuclide(s); b) description of the physical and	5.4.1.5.7		
chemical form or a notation that the material is a special form radioactive			
material or low dispersible radioactive material;			
c) maximum activity [Bq] with an appropriate SI prefix symbol (for fissile			
material, the mass [g] of fissile material may be used in place of			
activity); d) category of the package (I-WHITE, II-YELLOW, III-YELLOW);			
e) transport index (categories II-YELLOW and III-YELLOW only);			
f) criticality safety index for consignments including fissile material;			
g) identification mark for each competent authority approval certificate;			
h) detailed statement of the contents of each package within the overpack,			
container or vehicle; i) "EXCLUSIVE USE SHIPMENT" where a			
consignment is required to be shipped under exclusive use; j) total activity of the consignment as a			
multiple of A ₂ for LSA-II and LSA-III substances, SCO-I and SCO-II;			
Are additional requirements stated, such as Cargo Aircraft Only (CAO);	5.4.1.5.8		
Is the transport document certified and signed, name and date;	5.4.1.6		
Does the Air Waybill contain a reference to the Dangerous Goods Declaration (DGD)?	5.4.2		
Transport document – statement regarding actions.			
Did the consignor provide in the transport documents a statement regarding actions			
that are required to be taken by the			
carrier or a statement that no such requirements are necessary?	5.4.1.5.7.2		
Restrictions on the type of aircraft and necessary routing instructions?			
Appropriate emergency arrangements?			
Content: - Immediate actions and emergency			
phone numbers Information to competent authorities			
- Further actions in order to avoid / limit radiological consequences			
 Procedure for overpacking or repacking? 			
Are these procedures known by the personnel (are they placarded /			
distributed)?			

Is the UN number and proper shipping name in accordance with the certificate of the country of origin of design? Are the applicable competent authority	5.4.1.5.7.3				
certificates valid and available for inspection?	5.4.1.5.7.4				
Transport index, criticality safety index		e nack	age/ ov	ernack	
Transport index (TI):		Pack	uge/ or	or pack	
Is the transport index (TI) correct?	5.1.2.3.1				
Criticality safety index (CSI):					
Is the criticality safety index (CSI) calculated correctly for each overpack or freight container? Is the criticality safety index (CSI)	5.1.2.3.1.3				
calculated correctly for each consignment or aboard the aircraft?					
Category of the package and					
overpack.					
Are the packages and overpacks assigned to the correct category? I-WHITE $TI \le 0$, Radiation level ≤ 0.005 mSv/h	5.1.2.3.1.4				
Radiation level 5 0,003 m3v/m			ш		
II-YELLOW TI ≤ 1 , Radiation level ≤ 0.5 mSv/h					
III-YELLOW TI ≤ 10,					
Radiation level ≤ 2 mSv/h					
III-YELLOW TI > 10, Radiation				_	
level < 10 mSy/h and under exclusive use		1 1 1			
level ≤ 10 mSv/h and under exclusive use Carriage and handling					
Carriage and handling					
Carriage and handling Securing of cargo: - Are packages containing dangerous					
Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles					
Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable	7.2.4.2				
Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles	7.2.4.2				
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means?	7.2.4.2				
Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable	7.2.4.2				
Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling					
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? - Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package:					
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? - Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and	7.2.10				
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? - Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with					
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? - Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor	7.2.10				
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? - Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letters	7.2.10 5.2.2 5.2.4.2				
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? - Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letters "UN" and the proper shipping name?	7.2.10 5.2.2				
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? - Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letters "UN" and the proper shipping name? - the permissible gross mass (for each	7.2.10 5.2.2 5.2.4.2				
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? - Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letters "UN" and the proper shipping name? - the permissible gross mass (for each package of gross mass exceeding 50	7.2.10 5.2.2 5.2.4.2 5.2.4.1				
Carriage and handling Securing of cargo: - Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? - Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with - an identification of either the consignor or consignee, or both? - the UN-number preceded by the letters "UN" and the proper shipping name? - the permissible gross mass (for each package of gross mass exceeding 50 kg)?	7.2.10 5.2.2 5.2.4.2				
Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor or consignee, or both? the UN-number preceded by the letters "UN" and the proper shipping name? the permissible gross mass (for each package of gross mass exceeding 50 kg)? TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or TYPE C?	7.2.10 5.2.2 5.2.4.2 5.2.4.1				
 Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor or consignee, or both? the UN-number preceded by the letters "UN" and the proper shipping name? the permissible gross mass (for each package of gross mass exceeding 50 kg)? TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or TYPE C? the international vehicle registration 	7.2.10 5.2.2 5.2.4.2 5.2.4.1 5.2.4.5				
 Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor or consignee, or both? the UN-number preceded by the letters "UN" and the proper shipping name? the permissible gross mass (for each package of gross mass exceeding 50 kg)? TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or TYPE C? the international vehicle registration code (VRI Code) for Type IP-2, IP-3 	7.2.10 5.2.2 5.2.4.2 5.2.4.1 5.2.4.5 5.2.4.5				
 Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor or consignee, or both? the UN-number preceded by the letters "UN" and the proper shipping name? the permissible gross mass (for each package of gross mass exceeding 50 kg)? TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or TYPE C? the international vehicle registration code (VRI Code) for Type IP-2, IP-3 and A packages? 	7.2.10 5.2.2 5.2.4.2 5.2.4.1 5.2.4.5				
 Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor or consignee, or both? the UN-number preceded by the letters "UN" and the proper shipping name? the permissible gross mass (for each package of gross mass exceeding 50 kg)? TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or TYPE C? the international vehicle registration code (VRI Code) for Type IP-2, IP-3 and A packages? the identification mark and a serial 	7.2.10 5.2.2 5.2.4.2 5.2.4.1 5.2.4.5 5.2.4.5				
 Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor or consignee, or both? the UN-number preceded by the letters "UN" and the proper shipping name? the permissible gross mass (for each package of gross mass exceeding 50 kg)? TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or TYPE C? the international vehicle registration code (VRI Code) for Type IP-2, IP-3 and A packages? the identification mark and a serial number for packages which conforms to a design? 	7.2.10 5.2.2 5.2.4.2 5.2.4.1 5.2.4.5 5.2.4.5				
 Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor or consignee, or both? the UN-number preceded by the letters "UN" and the proper shipping name? the permissible gross mass (for each package of gross mass exceeding 50 kg)? TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or TYPE C? the international vehicle registration code (VRI Code) for Type IP-2, IP-3 and A packages? the identification mark and a serial number for packages which conforms to a design? the trefoil symbol by embossing, 	7.2.10 5.2.2 5.2.4.2 5.2.4.1 5.2.4.5 5.2.4.5				
 Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor or consignee, or both? the UN-number preceded by the letters "UN" and the proper shipping name? the permissible gross mass (for each package of gross mass exceeding 50 kg)? TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or TYPE C? the international vehicle registration code (VRI Code) for Type IP-2, IP-3 and A packages? the identification mark and a serial number for packages which conforms to a design? the trefoil symbol by embossing, stamping or other means resistant to 	7.2.10 5.2.2 5.2.4.2 5.2.4.1 5.2.4.5 5.2.4.5				
 Carriage and handling Securing of cargo: Are packages containing dangerous goods, unpackaged dangerous articles and other goods secured by suitable means? Are segregation / separation rules respected in storage and transport? Marking and labelling Marking of package: Is each package visibly, legibly and durably marked on the outside with an identification of either the consignor or consignee, or both? the UN-number preceded by the letters "UN" and the proper shipping name? the permissible gross mass (for each package of gross mass exceeding 50 kg)? TYPE IP-1, TYPE IP-2, TYPE IP-3, TYPE A, TYPE B(U), TYPE B(M) or TYPE C? the international vehicle registration code (VRI Code) for Type IP-2, IP-3 and A packages? the identification mark and a serial number for packages which conforms to a design? the trefoil symbol by embossing, 	7.2.10 5.2.2 5.2.4.2 5.2.4.1 5.2.4.5 5.2.4.5				

 Labelling of package; Transport on cargo aircraft only and type B(M) package (label fig. 5-25)? 			
FORBIDDEN IN PASSENGER AIRCRAFT	5.3.1		
- Excepted package (label fig. 5-30)?			
Radioactive Material, Excepted Package This package contains radioactive material, excepted package and is in all respects in compliance with the applicable international and national governmental regulations.			
The information for this package need not appear on the Notification to Captain (NOTOC)	5.3.1		
Labelling - provisions . Is each label			
 affixed near the mark indicating the proper shipping name; not covered or obscured and; displayed next to each other, when 	5.3.2.8 5.3.2.8		
more than one label is required;	5.3.2.8		
Are the labels affixed to - two opposite sides (package, overpack) or all four sides (container)?	5.3.2.6		
Labelling - information: Is each label completed with - contents: name(s) of the radionuclide(s) using the symbol or the most restrictive radionuclide(s) for mixtures of radionuclides, followed by the LSA-/SCO-group (the name of the radionuclide(s) is not necessary for LSA-I-material);	5.3.5.1		Nuclide(s):
- activity: the maximum activity [Bq]			Activity:
with the appropriate SI prefix symbol (for fissile material the mass [g] may be used in place of activity);	5.3.5.1		
 transport index(TI) (not applicable for category I-WHITE); 	5.3.5.1		TI:
 criticality safety index (CSI) (each label fig. 5-21); 	5.3.5.1		CSI:
 Is the information consistent with the information given in the transport documents? 			

		1		1	
Placarding;					
Are four placards (or enlarged labels)					
affixed to each side wall and each end wall					
of large freight containers and tanks (other					
than excepted packages)?	5.3.6				
Radiation limits					
Radiation level:					
Does the radiation level not exceed the					
following limits?					
- excepted packages					
 external surface ≤ 5 µSv/h 	2.7.2.4.1.1.2				
 10 cm from the external surface of 					
any unpackaged instrument or		_	_	l	
article ≤ 0,1 mSv/h	2.7.2.4.1.1.3				
- low dispersible radioactive material					
o 3 m from the unshielded	272244				
radioactive material ≤ 10 mSv/h	2.7.2.3.4.1				
- packages and overpacks	40110				
o external surface ≤ 2 mSv/h	4.9.1.10	╽╙		╷╙	
 o external surface ≤ 10 mSv/h (under exclusive use) 	4.9.1.11			Ιп	
Contamination:	4.9.1.11			\Box	
Does the non-fixed contamination not					
exceed the following limits on the external					
surface of any package	4.9.1.2				
≤ 4 Bq/cm ² for beta and gamma	1131212				
emitters and low toxicity					
alpha emitters;					
\leq 0,4 Bq/cm ² for all other alpha emitters					
Technical requirements for air					
transport:					
- Classification:		<u> </u>			
 Low dispersible radioactive material 	2.7.2.3.4				
 Type C packages) 	6.7.9				
- Additional requirement for packages					
transported by air:					
the temperature of the accessible					
surfaces shall not exceed 50°C at					
an ambient temperature of 38°C	6721			l	
with no account taken for insolation	6.7.2.1	╎╙		╎╚	
o packages must be designed so that,					
if they were exposed to ambient temperatures ranging from -40°C					
to +55°C, the integrity of					
containment would not be impaired	6.7.2.2	П		ΙП	
o packages containing radioactive	0.7.2.2	i		i	
material must be capable of					
withstanding, without leakage, an					
internal pressure that produces a					
pressure differential of not less					
than maximum normal operating					
pressure plus 95 kPa	6.7.2.3				
P P P P	1				1

File reference: Date/time: Location: **Company details and organisation:** Company name: Address: Telephone: Fax: E-mail: Web: Name of the different people met: Name Title **Telephone** E-mail

Checklist for compliance audit of a consignee

Annexe 8:

Auditor details:

Auditor name(s):

	I	C	Complianc	e e	
Subject/Inspection aspect	Provision	OK	NOK	NA	Comments
Modes of transport	1				
Road					
Rail					
Air					
Sea			\vdash		
Inland waterway					
Management System (see annex 10) Regulations					
Are the organisation and personnel	T				
involved in the transport of RAM aware of					
the regulatory requirements?					
Are the regulatory requirements					
understood and being observed?					
In the event of a non-compliance with any					
limit applicable to radiation level or					
contamination detected at the receipt, has					
the consignee procedures:					
- to take immediate actions to mitigate					
the consequences;		Ш		ΙШ	
- to investigate the non-compliance and					
its causes, circumstances and		l —		l —	
consequences;					
- to take appropriate actions to remedy					
the causes and circumstances, and to prevent a recurrence;					
to inform the consignor;					
- to communicate to the competent					
authority (causes of the non-					
compliance, corrective and/or					
preventive actions)?					
Checks of the transport operations (un	loading and	l recei	pt)		
Does the company/facility have necessary					
permits/licenses for use of received					
radioactive material?					
Does the company hold and follow					
recommended unloading and receipt		l		l	
procedures?		Ш			
Does the company perform a check of the					
shipment and in case of non-compliance		l —		l —	
inform the consignor?					
Training Does the company provide an adequate	T	ı		ı	
Does the company provide an adequate					
training programme for the personnel? Does the company maintain records of the					
training and qualifications of the					
personnel?				Ιп	
Radiation Protection Programme					
Is there an adequate Radiation Protection					
Programme (doses evaluation,					
optimisation, radiological surveillance,					
radiation protection procedures, and					
emergency arrangements)?					
Is the Radiation Protection Programme					
periodically reviewed?					
Emergency Arrangements					
Are adequate emergency response plans				 	
or procedures available?		$\sqcup \sqcup$	igert	\square	
How and when are the emergency					
response plans or procedures tested?		_ Ц			

Checklist for investigation after an incident/accident Annexe 9: **Inspection details:** Inspector name(s): File reference: Date: Location: **Company details and organisation:** Consignor Name: Address: Telephone: Fax: E-mail: Web: Carrier Name: Address: Telephone: Fax: E-mail: Web: Consignee Name: Address: Telephone: Fax: E-mail: Web:

Interviewed Personnel:

Name	Title/company/function	Telephone	E-mail

1	Observations	
1.1	Accident/incident	
-7-	Date of the accident	
	Location of the accident	
	Description of the	Describe what has
	accident	happened. Give an overall
		view of the incident.
	Scene of accident and	What did it look like? Who
	performed emergency	responded to the
	response	accident? Who came to
	•	the scene? How did the
		emergency response
		function?
	Decision of investigation	For whom do I
		investigate? Who
		decides? What is my
		purpose?
1.2	Environment	
	Personnel	What working personnel
		was involved in the
	Witnesses	accident? Who witnessed the
	Witnesses	
		accident? Were there any
		recordings, photographs
		taken or filming being made?
	Vehicles, machines and	What machinery was
	other devices	involved in the accident
	other devices	and what was its
		function?
	Recorded registrations	Secure registrations of
	in vehicles, radio	actions before moving
	controlled equipment,	vehicles and certify that
	communications and	the time stamp in
	other devices	recordings is correct.
	Surroundings	Describe the surrounding
		environment.
	Safety systems	What traffic safety
		systems were in use
		(signal system,
		automated control
		systems, etc.)? What
	Communications	state were they in? What ways of
	Communicadons	communications was
		available? Was
		predetermined means of
		communications used?
	On-going work on	Was there any work or
	infrastructure	maintenance going on
		road, railway, runway or
		other at the time of the
		accident?
	Emergency- and rescue	Describe the companies
	services within the	own alarm-, emergency-
	organisation	and rescue organisation,
		including links to the
		community rescue
		services and others.

1	Community rescue	How did the community	
	services	rescue services perform?	
		How can it be made	
		better?	
1.3	Injuries and damage	S	
	People	Was anyone from the	
		public killed or injured?	
	Personnel	Was anyone from	
		involved companies killed	
		or injured?	
	Cargo, goods,	Was anything destroyed	
	baggage and other property	or damaged?	
	Packagings	Were any packaging's for	
	i ackagings	radioactive materials	
		damaged?	
	Vehicles	Were any vehicles	
		damaged as a result of	
		the accident?	
	Infrastructure	Was there any damage	
		made to the	
		infrastructure?	
	Environment	Was there any damage	
		caused by the accident to	
		the environment? Any emissions resulting from	
		the accident or leakage	
		from packages, tanks, or	
		other damage?	
1.4	External conditions		
	Weather and	Was there rain, fog,	
	visibility	snow, icy temperatures or	
		any other circumstance	
		that could have had effect	
		on the outcome?	
 			
	Sound	How was the level of	
	Sound	noise at the time of the	
		noise at the time of the accident?	
	Geographical	noise at the time of the accident? The location of the	
2	Geographical information	noise at the time of the accident?	
2 2.1	Geographical	noise at the time of the accident? The location of the	
	Geographical information Investigations Witness information	noise at the time of the accident? The location of the	
	Geographical information Investigations	noise at the time of the accident? The location of the accident.	
	Geographical information Investigations Witness information	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants	
	Geographical information Investigations Witness information	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel	
	Geographical information Investigations Witness information	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel working in the involved	
	Geographical information Investigations Witness information	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel	
	Geographical information Investigations Witness information Employees	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel working in the involved organisation.	
	Geographical information Investigations Witness information	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel working in the involved organisation. Interview other witnesses	
	Geographical information Investigations Witness information Employees	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel working in the involved organisation. Interview other witnesses to the accident. Did	
	Geographical information Investigations Witness information Employees	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel working in the involved organisation. Interview other witnesses to the accident. Did anyone take photographs	
	Geographical information Investigations Witness information Employees	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel working in the involved organisation. Interview other witnesses to the accident. Did anyone take photographs or film the accident? Was	
	Geographical information Investigations Witness information Employees	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel working in the involved organisation. Interview other witnesses to the accident. Did anyone take photographs	
	Geographical information Investigations Witness information Employees	noise at the time of the accident? The location of the accident. Interview the employees, the safety adviser, the management, consultants and other personnel working in the involved organisation. Interview other witnesses to the accident. Did anyone take photographs or film the accident? Was there video surveillance	

2.2	Management systems	3	
	Organisation and	How is the company	
	communication of	organized?	
	orders	How is the workforce	
	oracis	getting their instructions	
		and orders?	
		Who has the authority to	
		give orders?	
		Who is responsible and is	
		the responsibility clearly	
		stated?	
		How is the safety culture	
		in the company?	
		How are the resources	
		distributed?	
		Are the resources enough	
		to ensure safety?	
	Competence	What are the minimum	
	requirements for	requirements for the	
	personnel	different functions?	
	personner	Are they clearly stated?	
		Are they complied with?	
	Routines and	How does the	
	instructions for	organisation detect	
	internal control,	anomalies and errors in	
	audits and	the routines?	
	monitoring	Is there a functional	
		management system in	
		place?	
		Is there a system to	
		monitor the routines?	
		Are there internal quality	
		audits?	
		Do they also encompass	
		the transport activities?	
	Routines for	Are the external	
	controlling external	entrepreneurs	
	entrepreneurs	authorized?	
	cha opi chicaro	Are there written rules	
		and instructions for	
		external entrepreneurs?	
		Is there any monitoring of	
	Docnoncibilities	entrepreneurs?	
	Responsibilities	Are the responsibilities	
	regarding the	clearly stated?	
	interface with other	Is there also a question of	
	operators	who is responsible?	
2.3	Rules and regulations		
	Laws, ordinances	Summarise the relevant	
	and regulations	regulations and check if	
		compliance was met.	
	ADR,	Were the modal rules for	
	RID,	transport understood and	
	ADN,	observed?	
	IMDG-code,	Use the relevant checklist	
	ICAO-TI,	for routine inspection of	
	Baltic agreement,	transport operations and	
	Bi- or multilateral		
		check if compliance was	
	agreements, etc.	made?	

Operative rules Describe the operators	
own set of relevant rules	
and routines for the	
activities, were they	
complied with?	
Instructions for use Were instructions for	
using machinery,	
operating vehicles, etc.	
followed?	
Designers, manufacturers	
and experts may have	
knowledge of used	
equipment which can help	
the investigation.	
Standards for Did the design standards	
infrastructure, have any effect on the	
planning and accident? Where the	
construction standards met?	
Rules for Have involved vehicles	
maintenance of been checked and	
1	
set rules?	
Rules for Have the infrastructure	
maintenance of been maintained	
infrastructure properly?	
2.4 Condition and function of technical systems	
Technical safety What was the condition of	
systems the railway signal system,	
road signal system or	
similar technical systems?	
Where they in working	
order as intended?	
Infrastructure What was the condition of	
the road, runway,	
railway, etc.	
Communications What was the condition of	
the communication	
systems at the time of	
the accident? Did the	
equipment work as	
intended?	
Vehicles What was the condition of	
Vehicles What was the condition of the involved vehicles?	
Vehicles What was the condition of the involved vehicles? Had they undergone	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs?	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by Have mandatory	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre What was the condition of the involved vehicles? Had they undergone mandatory and repairs? Have mandatory documentation been	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by Have mandatory	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre What was the condition of the involved vehicles? Had they undergone mandatory and repairs? Have mandatory documentation been	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre Have mandatory documentation been completed by the traffic	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre documentation been completed by the traffic control at railway, port or airport?	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre documentation been completed by the traffic control at railway, port or airport? Notes made by What notes have been	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre Notes made by crew on involved What notes have been made? Were they	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre Notes made by crew on involved vehicles What was the condition of the involved vehicles What was the condition of the involved vehicles What was the condition of the involved vehicles? Had they undergone mandatory and repairs? Have mandatory documentation been completed by the traffic control at railway, port or airport?	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre Notes made by crew on involved vehicles What was the condition of the involved vehicles Was mandatory What notes have been made? Were they mandatory and correct? Faulty notes received	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre Motes made by crew on involved vehicles Notes made by vehicles What was the condition of the operations Have mandatory documentation been completed by the traffic control at railway, port or airport? What notes have been made? Were they mandatory and correct? Faulty notes received from a control centre may	
Vehicles What was the condition of the involved vehicles? Had they undergone mandatory controls and recommended maintenance and repairs? 2.5 Documentation of the operations Measures taken by a control centre Notes made by crew on involved vehicles What was the condition of the involved vehicles Was mandatory What notes have been made? Were they mandatory and correct? Faulty notes received	

	C-f-L	Charles and an Cale	
	Safety	Check log of safety	
	communications	communications between	
		a control centre and a	
		transport. There may also	
		be tapes/records to listen	
		to and footage or video.	
	Given orders	Were given order correct,	
		were they documented in	
		the proper way and did	
		they have any effect on	
		the accident?	
2.6	Human Factors		
	Working hours in	Did the personnel work	
	connection to the	long hours? Late hours?	
	accident	Early hours? Was there	
		enough time given for	
		rest between shifts? Was	
		there a lot of overtime?	
	Medical issues	Check for impaired	
	riculcul issues	hearing or eyesight	
		(glasses?), restricted	
		peripheral vision, colour	
		blindness (red/green),	
		diabetes and other	
		physical disabilities that	
		could have had an impact	
		on the accident. Have any	
		medical exemptions been	
		given?	
	Personal	Are there any personal	
	circumstances	circumstances that could	
		have affected the	
		outcome, such as trouble	
		at home, divorces or	
		economic troubles	
		influencing a person's	
		presence and	
		watchfulness?	
	Interface between	Is the machinery's (or	
	man and machine	corresponding tool's)	
		interface user-friendly to	
		the operator? Was it	
		operated the way	
		intended?	
	Physical and/or	Is the work physically	
	psychological	heavy? Is the personnel	
	impact	exposed to psychological	
		strain? Is there stress?	
2.7	Previous accidents		
	Previous accidents	Have there been other	
	of a similar nature	similar accidents or	
	or a similar mature	incidents in the past? Are	
		there parallels? Is there a	
		pattern, suggesting a	
		systematic problem?	

2.8	The Scene of the acc	ident	
	Photographs and	Document the scene in	
	video	photographs as soon as	
		possible, these can be	
		invaluable afterwards	
		(when it has been	
		trampled all over). It is	
		also evidence and can be	
		used to check details	
		afterwards. Video filming	
		the scene can be helpful	
		afterwards to.	
	Overview sketch of	An overview sketch of the	
	the scene	scene is helpful to	
		understand the sequence	
		of events leading to the accident.	
3	Costs	accident.	
3.1	Injuries		
	Injuries on people	Describe the injuries and	
	, , ,	fatalities of people of the	
		public.	
	Injuries on	Describe the injuries and	
	personnel	fatalities of working	
		personnel involved in the	
		accident.	
3.2	Damages	[-	
	Costs relating to	Estimate the cost of	
	damages on cargo,	damages to transported	
	goods and other	goods and other property,	
	property	related to the accident.	
	Cost relating to	Estimate the costs of	
	damages on vehicles	damages made on vehicles.	
	Costs relating to	Estimate the costs of	
	damage on the	reconstruction of	
	infrastructure	damaged infrastructure.	
	Costs relating to	Estimate the cost of	
	damage on the	restoration damages to	
	environment	the environment.	
	Downtime costs	Estimate the costs for	
		closed down	
		infrastructure, stopped	
		transports, vehicles,	
	Carlo fau	systems or other.	
	Costs for	Estimate the cost of	
	investigations	investigating the accident,	
		engaging experts, using consultants and	
		laboratory work.	
	Total Costs	Sum of all costs.	
4	Analysis and conclu		
4.1	Mapping the sequence		
	Mapping events in	What did really happen,	
	chronological order	on a detailed level?	
		Analyze! Follow all	
		detailed events leading to	
		the accident and describe	
		what barriers were	
		breached along the way.	

4.2	Analysis and discussi	ion	
	Analysis and disease.	Discuss and reason freely	
	•	the available facts leading	
		to the conclusions. Give	
		reasons for and against	
		theories and do not fear	
		to speculate, but make	
		sure to always arrive at a	
		conclusion or an	
		assessment of probability	
		that is well founded.	
4.3	Conclusions	Donatal Harman	
	Direct causes	Present the causes	
		directly leading to the	
		accident, such as a	
		punctured tyre or a	
	Underlying factors	derailment. Factors leading to direct	
	officerrying factors	causes (above), such as	
		poor maintenance, long	
		hours or medical	
		deficiencies.	
	Root causes	Circumstances such as	
		organisational factors,	
		vague or non-existent	
		routines or poor	
		management.	
4.4	Other observations	, , , , , , , , , , , , , , , , , , , ,	
		Observations made	
		during the course of the	
		investigation, not directly	
		related to the accident	
		but still of some	
_	A strain to local	importance.	
5 5.1	Actions taken Implemented	Manauras already taken	
5.1	measures	Measures already taken and put into action to	
	ilicasules	correct errors or	
		erroneous actions.	
5.2	Planned and	Measures taken and	
	decided actions,	planned, but not yet set	
	not yet	into motion.	
	implemented		
6	Proposals for action	n	
		List the investigator's	
		proposal for corrective	
		measures and address	
		each one to the relevant	
_		party.	
7	Notification and ad		
		Accident report of the	
		safety adviser as	
		appropriate and the duty	
		for the notification	

Annexe 10: Checklist for compliance audit of a management system

Audit details:			
Auditor name(s): File reference: Date/time: Location:			
Company details and	organisation:		
Company name: Address: Telephone: Fax: E-mail: Web:			
Name of the different	people met:		
Name	Title	Telephone	E-mail

			Complianc	Δ.	
Subject/Inspection aspect	Provision	ОК	NOK	NA	Comments
Company activities		J.,	11011		
Identify which activities related with transpo	rt are developed	by the	compan	У	
Package or special form radioactive	•				
material design (see checklist 1)					
Manufacturing of package or special					
form radioactive material (see checklists					
2 and 3)					
Maintenance, repair and service					
activities of packaging's (see checklist 4)				Ш	
Preparation of a consignment					
(consignor) (see checklist 5)					
Transport (see checklist 6)					
Reception of consignment (consignee)					
(see checklist 8)		ш			
Other:					
Modes of transport					
Road					
Rail					
Air					
Sea					
Inland waterways					
Management system					
Is there an established and appropriately					
documented management system?					
Is there a defined organisational structure					
and management responsibilities?					
Are there organizational policies and					
defined objectives?		П		П	
Does the management system cover the					
activities carried out by the organisation?				П	
Is the management system designed to					
ensure that the transport activities					
conform to all applicable requirements and					
regulations?					
Is a graded approach used to ensure that					
the activities are correctly performed?					
What processes are used to encourage					
and manage a safety culture within the					
organisation?					
Does a radiation protection programme					
exist within the organisation?					
Documentation and control of documentation	nts and record	S			
Has the management system					
documentation been sufficiently defined:					
- preparation, issue and approval of		_	l <u> </u>	_	
documents;					
- distribution and withdrawal of					
documents and records; - control of documents and records?		ΙH	ΙH	ΙH	
Management responsibility					
Are the responsibilities clearly defined?					
Are active support, strong leadership and					
commitment of senior management					
visible?					
Satisfaction of interested parties					
Are the interested parties (stakeholders)					
clearly identified?					
Are the requirements, needs and		+ -		\vdash	
expectations of interested parties					
identified?					
identified:	1		шШ		l

Resource Management				ı	
Is there a commitment to the timely					
identification and provision of necessary					
resources, including personnel, to meet					
the needs of the organisation and					
regulatory needs?					
Are the following items described in					
processes and/or procedures?					
- Human Resources					
- Infrastructure and working environment					
- Financial Resources					
- Involvement of individuals		H	H		
- Managing information and knowledge		H	H	ΙĦ	
- Managing information and knowledge		H	H	ΙH	
Training					
				1	
Does the operator provide an appropriate					
training programme for all personnel					
involved in the transport of RAM?					
Process Implementation					
Are the following items described in					
processes and/or procedures?					
- Communication and interfaces					
- Development of processes					
 Process management and control of 					
product					
- Design control					
 Management systems and the different 					
phases of transport					
- Purchasing					
- Identification, traceability and					
preservation of materials					
- Process control					
- Control of inspections, measurements and					
tests					
- Servicing					
Measurement, assessment and improve	ment				
Is the management system subject to review					
15 the management system subject to review					
and evaluation, and, if so, how frequently?					
and evaluation, and, if so, how frequently?					
and evaluation, and, if so, how frequently? Checks of the supplier services					
and evaluation, and, if so, how frequently? Checks of the supplier services Have effective and efficient purchasing					
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