

## SIGNIFICANT EVENT REPORT (CRES) CONCERNING THE TRANSPORT OF RADIOACTIVE MATERIALS

The "significant event report" has to be sent to ASN within 2 months of the notification of the radioactive substances transport significant event. It includes a detailed analysis of the event and a description of the corrective measures taken or envisaged.

Reference of person filling out the report:	. Date of CRES:	
Identification of the significant event		
Date detected: Department/Country: Department/		
Reminder of notification criterion chosen for the EST in the notification	Reminder of proposed INES level for the EST in the notification	
Confirmation or revision of notification criterion chosen for the EST	Confirmation or revision of the INES level proposed for the EST	
Person to be contacted for further information		
First Name	Last name	
	E mail	



I. TRANSPORT OF	PERATION THAT LE	D TO THE EVENT		
package model de	sign			
packaging manufa	cture			
packaging mainten	ance / repair			
preparation, includ	ing documentary, of the p	package for shipment		
☐ loading of the pack	age / substances into the	e vehicle, the overpack or th	ne container	
carriage phase				
parking during tran	sport			
package handling	when changing transport	modes or vehicles		
package unloading	at destination			
package acceptant	ce or refusal at destinatio	on		
other:				
Entity which drew up	the CRES			
Responsibility of this	entity in the transport of	operation		
	-			
Consignor	☐ Carrier	Consignee	Package model designer	
Packaging owner		☐ Transport organiser	other:	
Information about the	shipment concerned			
Consignor				
Carrier				
Consignee				
Freight forwarding agent				



## **II. MODE OF TRANSPORT**

RAIL  Passenger train Goods train	ROAD  Light vehicle (< 3.5 metric tons)  Truck > 3.5 metric tons
Event occurred:  ☐ In station ☐ On loading, unloading, transhipment site ☐ On open track	Event occurred:  In built-up area  On loading, unloading, transhipment site  On public road  On parking area
RIVER  Ship (passenger) Ship (goods)  Event occurred: In port At dock On the water	AIR  Aircraft (passenger)  Aircraft (cargo)  Road vehicle on airport site  Event occurred:  In airport  In flight
SEA  Non-INF ship INF ship  Event occurred: At sea	Package outside conveyance  In warehouse During maintenance / repair During manufacturing During design Other:



III. DESCRIPTION OF THE EVENT			
Give a concise description of the event and the corresponding time-line:			



## IV. INFORMATION ABOUT THE PACKAGES INVOLVED

Fill out this part for each type of package in the shipment. Enclose the additional package types in the appendix.

1st package type
Package type  ☐ A ☐ B(U) ☐ B(M) ☐ IP1 ☐ IP2 ☐ IP3 ☐ excepted ☐ unpackaged material ☐ fissile ☐ fissile excepted ☐ fissile not requiring criticality-safety demonstrations ☐ non-fissile  under section 674 or section 675 of SSR-6
Name of package model:  If an approved package model, identification mark of certificate of approval:
Package labelling:   I White   II Yellow   III Yellow
Package transport index (TI): Package criticality safety index (CSI):
Number of packages of this type in the shipment:
Contents
Concise description of the contents (if uranium present, specify the enrichment):
Concise description of the contents (if dramain present, specify the emicriment).
UN number:
Class: 7 (radioactive) other:
Radionuclides:
Activity (in A1 or A2):
Physical form: solid powder liquid gas special form
Classified material: LSA I LSA II LSA III SCO I SCO II
2 <sup>nd</sup> package type
Package type  ☐ A ☐ B(U) ☐ B(M) ☐ IP1 ☐ IP2 ☐ IP3 ☐ excepted ☐ unpackaged material ☐ fissile ☐ fissile excepted ☐ fissile not requiring criticality-safety demonstrations ☐ non-fissile  under section 674 or section 675 of SSR-6
Name of package model:
If an approved package model, identification mark of certificate of approval:  Package labelling:
Package transport index (TI):
Package criticality-safety index (CSI):
Number of packages of this type in the shipment:
Contents
Concise description of the contents (if uranium present, specify the enrichment):
UN number:  Class:
Activity (in A1 or A2):  Physical form:
Classified material: LSA I LSA II LSA III SCO I SCO II



# **V. CAUSES OF THE EVENT** Detailed analysis of the causes (human error, equipment failure, extreme conditions, etc.) and identification of the root causes (a cause tree may be appended):



## VI. DESCRIPTION OF THE ALERT CIRCUIT

Description of the information circuit
Time alert given at consignor (hour, minutes):  Time alert given at carrier (hour, minutes):  Time alert given at consignee (hour, minutes):  Time alert given at each of the emergency services and the authority (hour, minutes):
Resources dispatched (human, material)
Interventions carried out (radiological checks in particular)
Identification of the intervening entity
Comments



VII. INTERIM MEASURES TAKEN
VIII. CONSEQUENCES OF THE EVENT
Analysis of the actual or potential consequences of the event for the safety of transport and for radiation protection (bodily or material damage, loss of confinement, damage to the package, increased dose rates, etc.):



## IX. ACTIONS TAKEN OR IN PROGRESS TO RESTORE A NORMAL SITUATION More particularly specify what was done with the damaged packages (interim storage location, conveyance and overpack used to remove them, destination of the damaged packages, etc.): X. STEPS TAKEN TO PREVENT ANY REOCCURRENCE Describe in detail the corrective and preventive measures taken to prevent a reoccurrence of the event or the occurrence of a similar event, more particularly with respect to the root causes identified:



XI. BEST PRACTICES IDENTIFIED  For example, steps which enabled the event to be detected or its consequences to be mitigated:					
XII. COMMUNICATION ABOUT	THE EVENT				
Were the media informed?	☐ Yes	□ No			
If yes, by whom:					
and at what moment:					

This report must be sent within 2 months following notification of the radioactive substances transport significant event to the ASN Transport and Sources Department: **dts-transport@asn.fr** or ASN/DTS
15, rue Louis Lejeune – CS 70013 – F -92541 Montrouge cedex FRANCE.

### A copy of these documents must be sent to:

- the relevant ASN regional division.

  The contact details of the ASN regional divisions are available on www.asn.ft/Contact.
- The French Institute for Radiation Protection and Nuclear Safety: IRSN BP 17 F-92262 Fontenay-aux-Roses Cedex France