Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods
Bern, 10-11 September and Geneva, 14-18 September 2020
Item 7 of the provisional agenda
Accidents and risk management

27 August 2020

Information concerning the informal working group on the improvement of the Report on occurrences - Additional information to document ECE/TRANS/WP.15/AC.1/2020/55

Submitted by the Government of France on behalf of the working group

- 1. As mentioned in paragraph 7 of document ECE/TRANS/WP.15/AC.1/2020/55, the Working Group (WG) has looked at three drafts reports to be included in RID/ADR/ADN 1.8.5. as decided in previous meetings there are three drafts on for each mode.
- 2. The draft reports contain all information necessary to understand the way the accident happens and to describe its consequences. It leads to require more information than the current report does. It was agreed that it is more realistic not to require all the information in a short time (such as the current one-month delay).
- 3. The WG identified the information that could be sent in the short time and information that could be sent at a later time. In the draft reports attached in the annexes, short term information appear in red italic.
- 4. This would lead to a different management of accident reporting. Some information would be sent immediately to declare the accident, and complementary most substantial data would be gathered through an inquiry process that would take longer, until the report will be considered as complete.
- 5. The WG noted that it would be necessary to redefine the data collection process. Some experts thought that some parts of this procedure would be better drafted as a guidance material than in a regulatory text. In February, the WG decided to meet again in June in order to work on this matter. Because of the Covid crisis, this meeting could not take place and the Guidance material could not be produced on time for the Joint meeting. However, we believe it is useful to produce the material produced by the WG so far such as the drafts attached in the annexes
- 6. Concerning the report and its goal, it was generally agreed that the report should be kept simple. The stepped approach making a distinction between the data needed initially and those needed later in the process would make the reporting easier.

However, the WG discussed that the main goal should be gathering as much information as necessary for possible investigations in order to learn from accidents, so that safety of transport of dangerous goods can be further improved.

Therefore, not only (serious) accidents should be reported but also near accidents should be reported as they could deliver equal important information.

- 7. As the work could not be completed in June, some additional work is necessary:
 - Consider drafting of relevant guidance material.
- Consider a revised scope for the accident reporting and declaration criteria as relevant.
- 8. The Joint Meeting is invited to comment as appropriate.

Annex

Draft for RID

Report on occurrences during the carriage of dangerous goods in accordance with RID section 1.8.5

Company reference number:
Reporter reference number:
Date of the report:
Company:
Address:
Contact name: Fax:
Email address:
(The competent authority shall remove this cover sheet before forwarding the report)
Operation of the interested party:
□ Consignor
□ Packer
□ Carrier
□ Consignee
□ Loader
□ Filler
□ Tank-container/portable tank operator
□ Tank-wagon operator
□ Railway infrastructure manager
□ Unloader

Identification number				
Date and location of occurrence				
Year: month:	day :		Local Time :	
□ Country:	· · · · · · · · · · · · · · · · · · ·			
□ region:				
□ Town:				
Department				
Geographical coordinates:				
□ Latitude:				
□ Longitude:				
Context				
Nature of operation:	Surface conditions:		Light conditions:	
□ Carrying	□ Dry		□ Daylight	
□ Moving	□ snow, frost, ice, slush		□ Twilight	
□ Stationary	slippery		□ darkness street light lit	
□ Shunting	□ wet, damp		darkness street light unlit	
□ Loading/Filling	□ flood		daninose substrigit ariit	
□ Unloading/emptying	unknown			
□ Other (explain):	□ other			
Carlor (explain).	- Culoi			
Weather conditions:				
Temperature: °C				
Dry, clear				
□ rain				
□ snow				
□ fog, mist, smoke				
□ sleet, hail				
□ Thunder storm				
□ High winds				
□ unknown				
□ other				
		<u> </u>		
Infrastructure:				
Line category:				
□ Open line		Specific st	ructures:	
□ Station/Terminal		□ Tunnel		
□ Station or siding		□ entry a	rea	
□ Marshalling yard [shunting]		□ on/insid	le	
□ Single track		□ exit are		
Multiple Track (more than 1)		□ Level cro	ossing	
Railway segments/Environment:				
□ Country Side/Rural				
□ Urban area		Gradient (if	known the estimate value) :	
□ Industrial area		,	,	

Vehicle and dangerous good contained Total number of wagons involved (For each wagon/container involved, indicate information about the DG contained and the vehicle) ☐ Register Number/ Unique vehicle number: □ Train number: Position of involved wagon(s) in the train: ☐ Of those, total number of DG transport unit(s): □ Locomotive Register Number: UN Number (1) Class Label(s) Packing group if Estimated Means of Type of Means of containment ⁽³⁾ quantity of loss failure of known containment (Col. 5) material (4) of products means of (if relevant) (kg or 1) (2) containment For dangerous goods assigned to collective entries to For class 7, indicate values according to the criteria which special provision 274 applies, also the technical in 1.8.5.3. name shall be indicated. (4) Indicate the appropriate number: Indicate the appropriate number: □ Steel 1 Packaging □ Aluminum 2 Large packaging □ wood 3 Intermediate packaging container (IBC) □ Fiberboard Pressure receptacle □ Plywood BK 1 □ Plastic film BK 2 □ Metal 7 BK3 □ Paper VC1 □ Plastic 9 VC2 □ Textile 10 VC3 □ glass 11 vacuum-operated waste tanks 12 MGEC 13 Fixed Tank 14 Portable tank Indicate the appropriate number: 15 Demountable tank 16 Tank container 1 Loss 2 Fire 17 Tank swap bodies Explosion 3 18 Wagon Structural failure 19 Tank wagon 20 Battery wagon 21 Closed wagon 22 Open Wagon 23 Sheeted wagon

Description of the occurrence	
□ Rolling over	
□ on the track	
□ outside the track	
□ Drop from a height	
□ Derailment	
□ Collision Speed (estimated): Crash type: □ head on collision □ left front □ center front □ right front □ right side □ left side	Collision against fixed obstacle: Bridge pillars Obstacles outside clearance gauge Other permanent object submerged in water Buffer-stop
 rear end collision right rear center rear left rear 	□ Overhead cont act lines
Collision with vehicle: Train/railway vehicle Track maintenance equipment Road vehicle Moving Stationary	Collision with objects temporarily present on and near track: - Rocks/landslides/trees - Lost parts of (railway) vehicles - Lost or displaced loads - Other
Damage type (imminent risk of loss of product): bent gouged or cut ripped or torn torn off or damaged vented Leakage: Yes No Small Release Limited Release Continuous Release Full Release	
Place of leakage: cylinder valve flange gauging device hose adaptor or coupling inlet (loading) valve inner packaging inner receptacle	 loading/ unloading lines piping or fittings pressure relief valve sample line tank shell vacuum relief valve vent weld or seam bursting disk

Dangerous phenomena
□ absence of dangerous phenomena
□ Fire
□ Vapour cloud explosion
□ Gascloud Fire
□ Jet Fire
□ Bleve
Location of fire:
□ Locomotive
□ Axle
□ Tank – trailer
□ Trailer – semi trailer
□ Pressure receptacle
□ Transport unit
□ Toxic vapour cloud
□ explosion without fire
□ Over pressurized inside the tank / packaging
□ Other
□ Pollution of soil
□ Pollution of water

Causes of occurrence	
External causes:	
□ Rock/stone fall	Technical failure vehicle:
□ Landslides	□ Electrical system failure
□ Earthquake	□ mechanical system failure
□ Vegetation	□ broken component or device
□ Environmental relevant factors	□ defective component or device
□ Fog	□ missing component or device
□ Flooding	□ Wheel
□ Frost	□ braking system failure
□ Ice	□ abrasion
□ High winds	□ exterior corrosion
□ Storm	□ interior corrosion
□ Snow	□ Damaged lining
□ Heat	□ Coupling failure
□ Other (explain):	□ Engine failure
Utilet (explain).	□ Axle failure
	□ Other
Technical fault on fixed installation:	
□ Broken rail	Related to DG carried:
□ Track buckle and other track misalignment	□ incompatible products
□ Wrong-side signaling (infrastructure) failure	□ incompatible material of the containment with the product carried
□ Switch and crossing failure	□ self-ignition
□ Failure of the level crossing equipment	 polymerization
□ Disorder of earthworks/embankment failure	
□ Power supply equipment failure	Faulty load securing:
□ Train detection equipment failure	□ improper securing arrangement
□ Overhead contact line failure	□ inadequate blocking and bracing
□ Fire of fixed installation	Polated to procedure:
□ Other	Related to procedure:
□ Structures failure	□ improper preparation for transport □ inadequate maintenance
□ Tunnel failure	•
□ Viaduct failure	□ inadequate procedures
□ Culvert failures	□ overfilled
□ Rail bridge structural failure Over line bridge	□ over pressurized
□ Station structure failure	□ valve open
□ Platform failure	Human assess
	Human causes:
	□ deliberate action
	□ effect of alcohol
	□ effect of narcotic drugs
	□ medical treatment
	□ medical emergency
	□ excessive speed
	□ lack of experience
	□ inattention
	sleepiness
	carelessness (driving, shunting)
	o loss of control
	non compliance with procedures
	□ inadequate training
	□ other
	I control of the second of the

Consequences	
Death and injury in DG company personal:	Material/environment damages :
	□ Air pollution
□ Injured (total number):	□ Water pollution
Davis of hospitalization.	□ Soil pollution
Days of hospitalization: □ Serious injury (Abbreviated Injury Scale >3)	□ Estimated quantity of loss products (kg/l):
☐ Minor injury (Abbreviated Injury Scale <3)	
Williof Hijury (Appreviated Hijury Scale \3)	
Nature of injury:	
□ Traumatic	The second of a discourse
□ Intoxicated	Involvement of authorities:
□ Burned	□ No □ Yes (which authority):
□ Radiation	□ Evacuation of persons for a duration of at least 3 hours
	Evacuation of persons for a duration of at least 5 hours
□ Death (number):	□ Closure of public traffic routes for a duration of at least
B . # !	3 hours
Death and injury caused by DG:	
Injured (total number):	
Days of hospitalization:	
□ Serious injury (AIS>3)	
□ Minor injury (AIS<3)	
Nature of injury:	
□ Traumatic □ Intoxicated	
□ Burned	
□ Radiation	
- Radiation	
Death (number):	
, ,	
Death and injury (third party and public):	
Injured (number):	
Dooth (number):	
Death (number):	

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Report on occurrences during the carriage of dangerous goods in accordance with ADR section 1.8.5

Company reference number:		
Reporter reference number:		
Date of the report:		
Date of the report.		
Company:		
Address:		
Contact name:	Telephone:	Fax:
Email address:		
Enidii audiess.		
(The competent authority shall remove this cove	or sheet hefore forwarding the ren	ort)
(The competent dutionly shall remove this cove	is sheet before forwarding the rep	orty
Operation of the interested party:		
□ Consignor		
□ Packer		
□ Carrier		
□ Consignee □ Loader		
□ Loaaer □ Filler		
☐ Tank-container/portable tank operator		
□ Unloader		
□ Other (precise):		
= IL		

Identification number				
Date and location of occurrence				
Year: month:	day:	Local Time :		
□ Country:				
□ region:				
□ Town:				
□ Department:				
Geographical coordinates:				
□ Latitude:				
□ Longitude:				
Alternatively road : number and kilometric point Context				
Nature of operation:	Surface conditions	Light conditions		
Carrying:	□ Dry	□ Daylight		
☐ Moving	□ snow, frost, ice, slush	□ Twilight		
□ Stationary		□ darkness street light lit		
□ Parked	□ wet, damp	□ darkness street light unlit		
transshipment	□ flood			
Loading/Filling	unknown			
Unloading/emptying	□ other			
☐ Other (explain):				
Weather conditions				
Temperature: °C				
□ Dry, clear				
□ Rain				
□ Snow				
□ Fog, mist, smoke				
□ Sleet, hail				
□ Thunder storm				
□ High winds				
□ Unknown				
□ Other				
Infrastructure:				
Description of the road:				
□ Country Side/Rural □ Urban area				
□ Urban area □ Industrial area				
□ Multimodal Logistical				
□ Parking road infrastructure (precise number of place	es):			
_ "				
Type of road:				
□ Highway □ Unidirectional road □ Bi	directional road			
□ Number of lanes (if known) :				

□ Gradient (if known) :	
□ Speed limit (if known) :	
□ Width (if known):	
Topographical:	
□ Straight road	
□ Curve road	
□ S – curve road	
□ Level crossing	
□ Roundabout	
Specific structures:	
□ Tunnel Category:	
□ entry area	
□ on/inside	
□ exit area	
Bridge:	
□ bridge (on a)	
□ under the bridge	

Vehicle and dangerous good contained

Total number of vehicles involved

(For each vehicle/container involved, indicate information about the DG contained and the vehicle)

□ Register Number:

UN Number	Class	Label(s) (Col. 5)	Packing group (if relevant)	Estimated quantity of loss of products (kg or I) ⁽²⁾	Means of containment	Means of containment material (4)	Type of failure of means of containment (5)

- (1) For dangerous goods assigned to collective entries to which special provision 274 applies, also the technical name shall be indicated.
 - (3) Indicate the appropriate number:
- 1 Packaging
- 2 Large packaging
- 3 Intermediate packaging container (IBC)
- 4 Pressure receptacle
- 5 BK 1
- 6 BK 2
- **7** BK3
- 8 VC1
- 9 VC2
- **10** VC3
- 11 vacuum-operated waste tanks
- **12** MGEC
- 13 Fixed Tank
- 14 Portable tank
- 15 Demountable tank
- 16 Tank container
- 17 Tank swap bodies
- 18 Tank compartments

- (2) For class 7, indicate values according to the criteria in 1.8.5.3.
- (4) Indicate the appropriate number:
- 1 Steel
- 2 Aluminum
- 3 wood
- 4 Fiberboard
- **5** Plywood
- 6 Plastic film
- 7 Metal
- 8 Paper
- 9 Plastic
- 10 Textile
- 11 glass
- 12 combination
- **13** FRP
- 14 Other
 - (5) Indicate the appropriate number:
 - 1 Loss
 - 2 Fire
 - 3 Explosion
 - 4 Structural failure

Description of the occurrence	
□ rolling over:	
□ on the road	
□ outside the road	
□ drop from a height	
□ Leaving the road	
□ Lane departure	
□ jack-knifing	
□ submerged in water	
□ Collision Speed (estimated):	Collision against fix obstacle:
Crash type:	□ Bridge pillars
□ head on collision	□ Obstacles outside clearance gauge
□ left front	□ Other permanent object
□ center front	 Overhead contact lines
□ right front	
□ right side	
□ left side	
□ rear end collision	Collision with objects temporarily present on and near track:
□ right rear	Rocks/landslides/treesLost parts of vehicles
center rear	- Lost or displaced loads
□ left rear	- Other
Collision with vehicle:	
□ Moving □ Stationary	
□ Parking	
a raining	
Damage type (imminent risk of loss of product):	
□ bent	
□ gouged or cut	
□ ripped or torn	
□ torn off or damaged	
□ vented	
<u>Leakage</u> □ Yes □ No	
□ Small Release	
□ Limited Release	
□ Continuous Release	
□ Full Release	□ loading/ unloading lines
	□ piping or fittings
Place of leakage	pressure relief valve
□ cylinder valve	□ sample line
□ flange	□ tank shell
□ gauging device	□ vacuum relief valve
□ hose adaptor or coupling	□ vent
□ inlet (loading) valve	□ weld or seam
□ inner packaging	□ bursting disk
□ inner receptacle	□ Other

Da	ngerous phenomena
	Absence of dangerous phenomena
	Fire
	Vapour cloud explosion
	Gascloud Fire
	Jet Fire
	Bleve
Lo	cation of fire:
	Tractor Cab
	Road tractor
	Tyres
	Tank – trailer
	Trailer – semi trailer
	Pressure receptacle
	Transport unit
	Toxic vapour cloud
	Explosion without fire
	Over pressurized inside the tank / packaging
	Other
	Dellution of soil
	Pollution of soil
	Pollution of water
\Box	I OHULIOH OF WALCE

Causes of occurrence				
External causes:	Technical failure on vehicle:			
□ Slippery/wet road	□ Electrical system failure			
□ Rock/stone fall	□ mechanical system failure			
□ Earthquake	□ broken component or device			
□ narrow road	□ defective component or device			
□ Environmental relevant factors	□ missing component or device			
□ Fog	□ Tyre			
□ Flooding	□ braking system failure			
□ Frost	□ abrasion			
□ <i>lce</i>	□ exterior corrosion			
□ High winds	□ interior corrosion			
□ Storm	□ Damaged lining			
□ Snow	□ Coupling failure			
□ Heat	□ Engine failure			
□ Other(explain):	□ Axle failure			
	□ Other			
Related to DG carried	Human causes:			
□ incompatible products	□ Driver □ Other participants □ Third party			
□ incompatible material of the containment with the product carried				
□ self-ignition	□ deliberate action			
□ polymerization	□ effect of alcohol			
	□ effect of narcotic drugs			
Faulty load securing:	□ medical treatment			
□ improper securing arrangement	□ medical emergency			
□ inadequate blocking and bracing	excessive speed			
	□ inattention			
Related to procedure	□ sleepiness			
□ improper preparation for transport	carelessness (driving, shunting)			
□ inadequate maintenance	□ loss of control			
□ inadequate procedures	□ non compliance with procedures			
□ overfilled	□ lack of experience			
□ over pressurized	□ inadequate training			
□ valve open	□ other			

Consequences			
Death and injury in DG company personal:	Material and environment damages: □ Air pollution		
□ Injured (total number):	□ Water pollution □ Soil pollution		
Days of hospitalization: □ Serious injury (Abbreviated Injury Scale > 3) □ Minor injury (Abbreviated Injury Scale < 3)	□ Estimated quantity of loss products (kg/l):		
Nature of injury: □ Traumatic	Involvement of authorities:		
□ Intoxicated □ Burned □ Radiation	□ No □ Yes (which authority): □ Evacuation of persons for a duration of at least 3 hours □ Closure of public traffic routes for a duration of at least 3 hours		
□ Death (number):			
Death and injury caused by DG:			
Injured (total number):			
Days of hospitalization: □ Serious injury (AIS>3) □ Minor injury (AIS<3)			
Nature of injury: □ Traumatic □ Intoxicated □ Burned □ Radiation			
Death (number):			
Death and injury third party and public:			
Injured (number):			
Death (number):			

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Report on occurrences during the carriage of dangerous goods

Company reference number:
Reporter reference number:
Company:
Address:
Contact name: Fax:
Email address:
Official remakes (ENII) of the support
Official number (ENI) of the vessel
Dry cargo vessel (single hull, double hull
Tank vessel (type)
(The competent authority shall remove this cover sheet before forwarding the report)
Operation of the interested party:
[¬ Consignor] ¬ Packer
□ Carrier
□ Consignee
□ Loader
□ Filler
□ Tank-container/portable tank operator
□ Unloader
□ Waterway infrastructure manager
(comment : The IM has no offial satus in AND however some part of the infrastructure may have an active part in the accident)
□ Reception facility operator

Date and location of occurrence:		
Year: month:	day :	Local Time :
	uay .	Local Time .
Country		
Inland waterway (name):Free sector (name):		
Free sector (name):KM point:		
Port:		
Geographical coordinates:		
□ Latitude:		
□ Longitude:		
Context:		
	T T T T T T T T T T T T T T T T T T T	
Nature of operation:	conditions of inland waterway	light conditions
□ underway	□ water level (reference gauge)	□ daylight
□ loading/filling	□ estimated speed through water	□ twilight
unloading	□ high water	□ darkness
□ degassing	□ low water	□ artificial light
□ berthed	□ ice condition	□ lit
anchored		unlit unlit
shifting		
maintenance/repairsother (explain):		
other (explain).		
Weather conditions		
Temperature: °C		
□ Dry, clear		
□ rain		
□ snow		
□ fog, mist, smoke		
□ sleet, hail		
□ Thunder storm		
□ High winds		
□ unknown		
□ other		
<u>Infrastructure</u>		
□ Lock		
□ Bridge		
□ Movable		
□ fixed		
Dam		
Aquaduct		
□ Lift □ Tunnel		
unnelunnelunder		
Outel		
Waterway segment/Environment:		
□ CEMT class:		
urban [to be defined]: yes/no		
□ industrial area: yes/no		

Vessel/containers and dangerous good contained Total number of vessels/containers involved (For each vessel/container involved, indicate information about the DG contained) Type of failure of UN Number⁽¹⁾ Estimated Class Packing Means of Means of containment Type of quantity of containment in material means of group if occurrence containment(4) Identification accordance with relevant loss of number products ADN, 1.2.1(3) (kg or I)⁽²⁾ For dangerous goods assigned to collective entries For class 7, indicate values according to the criteria to which special provision 274 applies, also the in 1.8.5.3 technical name shall be indicated. Indicate the appropriate number: Indicate the appropriate number: Packaging Loss IBC Fire 2 2 3 Large packaging 3 Explosion 4 Small container Structural failure 5 Wagon Vehicle 6 7 Tank-wagon 8 Tank-vehicle Battery-wagon 9 10 Battery-vehicle 11 Wagon with demountable tanks 12 Demountable tank 13 Large container 14 Tank container 15 MEGC 16 Portable tank 17 Dry cargo vessel (single-hull, double-hull) 18 Tank vessel (type) Indicate the appropriate number: Collision with bank, structure or berthing installation Collision with another cargo vessel (collision/impact) Collision with a passenger vessel (collision/impact) Contact with the waterway bed, whether or not vessel has run aground 5 Fire 5.1 Vapour cloud explosion 5.2 Gascloud Fire 5.3 Jet Fire

- 5.4 Bleve
- Explosion
- Leak/Location and extent of damage (with additional description)
- Shipwreck
- Capsizing
- 10 Technical fault (optional)
- 11 Human error (optional)

Additional description of occurrence:

causes of occurrence **External causes:** Technical failure vehicle: Environmental relevant factors □ Electrical system failure □ Fog □ mechanical system failure □ High water □ broken component or device □ Low water defective component or device □ Frost □ missing component or device □ Ice □ abrasion □ High winds exterior corrosion □ Storm interior corrosion □ Snow Damaged lining □ Heat □ Coupling failure □ Recreational traffic □ Engine failure □ Other(explain): □ Steering installation failure [relative to: carriage, loading, unloading, degassing] Related to DG carried □ incompatible products **Human causes:** □ deliberate action incompatible material of the containment with the product carried □ self-ignition effect of alcohol polymerization □ effect of narcotic drugs medical treatment Faulty load securing: medical emergency □ improper securing arrangement excessive speed □ inadequate blocking and bracing □ lack of experience inattention Related to procedure □ fatigue □ improper preparation for transport □ carelessness □ inadequate maintenance □ loss of control □ inadequate procedures □ non-compliance with procedures $\quad \ \ \, \Box \ \ \, overfilled$ □ inadequate training over pressurized □ language, communication □ valve open other

Consequences			
Death and injury in DG company personal:	Material/environment damages :		
	□ Air pollution		
□ Injured (total number):	□ Water pollution		
	□ Soil pollution		
Days of hospitalization:	□ Estimated total quantity of loss products (kg/l):		
□ Serious injury (Abbreviated Injury Scale >3)	□ Estimated total quantity of financial loss (euro):		
□ Minor injury (Abbreviated Injury Scale < 3)	□ destruction of buildings, etc…		
Nature of injury:			
□ Traumatic			
□ Intoxicated	Involvement of authorities:		
□ Burned	□ No □ Yes (explain which authority):		
□ Radiation	- Fire visiting of manager for a direction of at least 2 hours		
□ Drowned	Evacuation of persons for a duration of at least 3 hours		
□ Death (number):	□ Estimated time of closure of waterway:		
Death and injury caused by DG:	Comment: to be refined, CEMT class of the waterway, tonnes blocked,		
Injured (total number):			
Days of hospitalization:			
□ Serious injury (AIS>3)			
□ Minor injury (AIS<3)			
Nature of injury:			
□ Traumatic			
□ Intoxicated			
□ Burned			
□ Radiation			
Death (number):			
Death and injury third party and public:			
Injured (number):			
Death (number):			