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Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

Joint Meeting of Experts on the Regulations annexed to the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (ADN Safety Committee)

Fifteenth session

Geneva, 24–28 August 2009 Item 5 of the provisional agenda Catalogue of questions

Gases – emergency measures, objectives 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 2.5

Transmitted by the Central Commission for the Navigation of the Rhine $(CCNR)^{\scriptscriptstyle 1}$

- 1. At its fourteenth session, the ADN Safety Committee, recalling that, under 8.2.2.7.2.3 of the Regulations annexed to ADN, the ADN Administrative Committee was required to prepare a catalogue of questions for the ADN examinations, decided that the item should be put on the agenda for future sessions, in order to enable lists of questions to be translated and adopted progressively (ECE/TRANS/WP.15/AC.2/30, paras. 38 and 40).
- This document contains the lists of questions proposed by CCNR in respect of:
 Steps to be taken in the event of an emergency, for the examination on "gases"
 - Examination objective 1.1: Personal injury Liquefied gas on skin
 - Examination objective 1.2: Personal injury Breathing in gas
 - Examination objective 1.3: Personal injury Emergency assistance, general
 - Examination objective 2.1: Irregularities relating to the cargo Leak in a connection

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ECE/TRANS/WP.15/AC.2/2009/36

- Examination objective 2.2: Irregularities relating to the cargo Fire in the engine room
- Examination objective 2.3: Irregularities relating to the cargo Hazards in the vicinity of the vessel
- Examination objective 2.4: Irregularities relating to the cargo Over-filling
- Examination objective 2.5: Irregularities relating to the cargo Polymerization

Examination objective 1.1: Personal injury – Liquefied gas on skin

Number	Source		Correct answer
GM 1101			В
	Lique	fied gas on skin	
		w member has had liquefied butane spilled on the hands. first aid should be administered?	
	A	Briefly rinse the hands	
	В	Rinse the hands with water for at least 15 minutes	
	C	Treat the hands with an anti-burn ointment	
	D	Wrap the hands so that they are kept warm	
GM 1102			A
	Lique	fied gas on skin	
	You ri If afte	w member has had liquefied butane spilled on the hands. inse the victim's hands with water for at least 15 minutes. In the rinsing the hands do not recover their natural to the what else do you have to do?	
	A	Call a doctor	
	В	Call the victim's family so that they can retrieve the victim	
	C	Put the victim to bed to keep the person warm	
	D	Treat the hands with an anti-burn ointment and wrap them	
GM 1103			C
	Lique	fied gas on skin	
		do you do if a crew member has had liquefied butane d on his or her body?	
	A	Immediately remove the clothing and pad the body with water and sterile cotton	
	В	Immediately remove the clothing and shower the person	
	C	Put the person in a shower, then remove clothing in the shower	
	D	Have the person sit, clothed, in a warm bath for at least 15 minutes	

Number	Source	?	Correct answer
GM 1104			D
	Lique	efied gas on skin	
		w member has had liquefied ammonia spilled on the s. What is the first thing for you to do?	
	A	Call a doctor	
	В	Have the person taken as quickly as possible to a burn centre	
	C	Apply an anti-burn cream copiously on the hands	
	D	Rinse the hands with water for at least 15 minutes	

Examination objective 1.2: Personal injury – Breathing in gas

Number	Source		Correct answer
GM 1201			С
	Breathing in gas		
		mber of the vessel's crew has breathed in a large quantity pane but has not lost consciousness.	
	What	is the first thing for you to do?	
	A	Have the person breathe freely	
	В	Give the person oxygen	
	C	Bring the person away from the danger zone and keep the person under surveillance	
	D	Bring the person away from the danger zone and lie the person down in a stable position	
GM 1202			D
	Breat	hing in gas	
		mber of the vessel's crew has breathed in propane and st consciousness but is still breathing.	
	What		
	A	Mouth-to-mouth resuscitation	
	В	Give the person oxygen	
	C	Bring the person away from the danger zone and keep the person under surveillance	
	D	Bring the person away from the danger zone and lie the person down in a stable position	
GM 1203			A
	Breat	hing in gas	
		mber of the vessel's crew has breathed in propane, has onsciousness and is not breathing.	
	What	is the first thing for you to do?	
	A	Bring the person away from the danger zone and apply mouth-to-mouth resuscitation	
	В	Give the person oxygen	
	C	Bring the person away from the danger zone and keep the person under surveillance	
	D	Bring the person away from the danger zone and lie the person down in a stable position	

Number	Sourc	e	Correct answer
GM 1204			В
	Brea	thing in gas	
		ember of the vessel's crew has breathed in ammonia. The on is coughing and has trouble breathing.	
	Wha	t is the first thing for you to do?	
	A	Give the person oxygen until there is no more coughing, then have the person lie down on a bed	
	В	Bring the person away from the danger zone, keep the person under surveillance and call a doctor	
	C	Shower the person and remove clothing	
	D	Apply mouth-to-mouth resuscitation and inform a doctor	
GM 1205			В
	Brea	thing in gas	
		ember of the vessel's crew has breathed in some propane When do you apply mouth-to-mouth resuscitation?	
	A	If the victim has lost consciousness and is breathing	
	В	If the victim has lost consciousness and is not breathing	
	C	If the victim has not lost consciousness and is breathing	
	D	If the victim has not lost consciousness and is not breathing	

Examination objective 1.3: Personal injury – Emergency assistance, general

Number	Source		Correct answer
GM 1301			A
	Emer	gency assistance, general	
		ng an inspection, a member of the vessel's crew feels sick old space. What is the first thing for you to do?	
	A	Inform the master and provide first aid	
	В	Enter the hold space and find out what happened to the victim	
	C	Immediately remove the victim from the hold space with the help of a colleague	
	D	Activate the "do not approach" signal	
GM 1302			C
	Emer	gency assistance, general	
		ember of the vessel's crew trips on piping and has a us fall. What is the first thing for you to do?	
	A	Apply mouth-to-mouth resuscitation	
	В	Put the victim to bed	
	C	Check if the victim has lost consciousness	
	D	Inform a doctor	
GM 1303			С
	Emer	gency assistance, general	
		do you check if a victim has lost consciousness as a result accident?	
	A	Check if you can feel a pulse	
	В	Check if the thorax is moving and whether the victim is breathing	
	C	Check if the victim reacts to your words or other stimuli	
	D	Check if the victim reacts to the smell of ether	

Number	Source	e	Correct answer
GM 1304			D
	Eme	rgency assistance, general	
	A member of the vessel's crew has breathed in a dangerous gas and has to be transported to hospital. What is the most important information to send with the victim?		
	A	The victim's service record	
	В	The telephone number of the victim's family	
	C	The victim's passport	
	D	Information on the cargo	

Examination objective 2.1: Irregularities relating to the cargo – Leak in a connection

Number	Source		Correct answer
GM 2101			A
	Leak in a connection		
	pipes	g unloading, liquid drips from a connection between the for loading and unloading and the loading facility. What u do?	
	A	Stop the pumps and close the corresponding blocking valves	
	В	Place a receptacle under the connection to collect the leak	
	C	Pump slowly	
	D	Place a wet towel around the connection and continue the unloading	
GM 2102			В
	Leak	in a connection	
		ng loading, a connection between the pipes for loading and ding and the loading facility develops a leak. What do o?	
	A	Load more slowly	
	В	Stop the loading after consultation with the loading facility	
	C	Continue to load	
	D	Place a receptacle under the connection	
GM 2103			С
	Leak	in a connection	
	loadii	ng navigation with a loaded vessel, a place is found in the ng and unloading piping that is not leak-proof. All shut- alves are closed. What do you do?	
	A	Activate the "do not approach" signal, moor the vessel and alert the authorities	
	В	Activate the "do not approach" signal and continue the voyage	
	C	Depressurize the piping	
	D	Continue the voyage without taking any additional measures	

Examination objective 2.2: Irregularities relating to the cargo – Fire in the engine room

Number	Source	e	Correct answer
GM 2201			С
	Fire i	in the engine room	
	Duri	ng loading, a fire breaks out in the engine room.	
	What	t do you do, apart from extinguishing the fire?	
	A	Continue to load, but inform the shore facility	
	В	Just inform the shore facility	
	C	Activate the rapid blocking system and inform the shore facility	
	D	Call the shipping police	
GM 2202			A
	Fire i	in the engine room	
	You have a cargo of UN No. 1011 BUTANE. A fire breaks out in the machine room while the vessel is under way.		
	What do you do, apart from extinguishing the fire?		
	A	Inform the competent authority	
	В	Inform the consignee	
	C	Continue the voyage and activate the "do not approach" signal	
	D	Activate the water-spray system	
GM 2203			C
	Fire in the engine room		
		ng unloading a fire breaks out in the engine room. What ou do, apart from extinguishing the fire?	
	A	Simply continue the voyage	
	В	Just inform the shore facility	
	C	Activate the rapid blocking system and inform the shore facility	
	D	Activate the "do not approach" signal	

Examination objective 2.3: Irregularities relating to the cargo – Hazards in the vicinity of the vessel

Number	Source	2	Correct answer
GM 2301			В
	Haza	rds in the vicinity of the vessel	
	unloa	vessel is moored at a shore facility and is ready to be ided. A fire alarm is activated at the shore facility. On the and in the vicinity you see no fire. What do you do?	
	A	Disconnect the connections and depart with the vessel	
	В	Await instructions from the shore facility	
	C	Activate the water-spray system	
	D	Activate the "do not approach" signal	
GM 2302			A
	Haza	rds in the vicinity of the vessel	
	During unloading a fire breaks out on the dock.		
	What do you do?		
	A	Activate the rapid blocking system, disconnect the connections and depart with the vessel	
	В	Call the shipping police	
	C	Activate the water-spray system	
	D	Await instructions from the shore facility	
GM 2303			В
	Haza	rds in the vicinity of the vessel	
		e propane is being unloaded, there is a gas leak at the a facility. The alarm is activated. What do you do?	
	A	Activate the water-spray system	
	В	Await instructions from the shore facility	
	C	Continue to unload, but wear a breathing apparatus	
	D	Constantly measure the gas concentration on deck	

Examination objective 2.4: Irregularities relating to the cargo – Over-filling

Number	Source		Correct answer
GM 2401			A
	Over-	filling	
	gauge	ng loading with propane, you regularly check the level es. There is a cargo tank that contains more than the nt permitted by the admissible maximum degree of g.	
	What	do you do?	
	A	Have the loading stopped by the shore facility and pump the overflow into another cargo tank	
	В	Activate the rapid blocking system and pump the overflow into another cargo tank	
	C	Ensure that the admissible total quantity is not exceeded	
	D	During the rest of the loading, allow the overflow to flow into another cargo tank	
GM 2402			A
	Over-	filling	
	gauge	ng loading with butane, you regularly check the level es. A cargo tank contains more than the amount permitted e admissible maximum degree of filling.	
	What	do you do?	
	A	Have the loading stopped by the shore facility and pump the overflow into another cargo tank	
	В	Separate this cargo tank and another of the cargo tanks, and using the compressor, you force liquid into the other cargo tank while continuing to load	
	C	Ensure that the admissible total quantity is not exceeded	
	D	Do nothing, as in specific circumstances you can take a little more cargo in one cargo tank	

Number	Source	2	Correct answer
GM 2403			D
	Over	-filling	
	During loading with propane, the facility against overflowing is actuated. You are supposed to make a short voyage, in winter. How do you proceed?		
	A	You disconnect the facility against overflowing and you continue to load	
	В	You depart with the vessel, without undertaking any other action	
	C	As you are able to carry more cargo, there is no problem	ı
	D	You pump back some of the cargo until the admissible maximum degree of filling is reached	

Examination objective 2.5: Irregularities relating to the cargo – Polymerization

Number	Source		Correct answer
GM 2501			С
	Polyr	merization	
	During carriage of UN No. 1010 1,2-BUTADIENE, STABILIZED, the temperature rises in one of the cargo tanks. You assume the cargo has started polymerizing. What do you do?		
	A	Activate the water-spray system to cool the cargo	
	В	Fill the hold space with water to cool the cargo	
	C	Inform the consignee of the cargo	
	D	Release vapour from time to time	
GM 2502			В
	Polyr	merization	
	STAI	ng carriage of UN No. 1010 1,3-BUTADIENE, BILIZED, the temperature rises in one of the cargo tanks. assume the cargo has started polymerizing. What do you	
	A	Add the accompanying inhibitor	
	В	Inform the consignee of the cargo	
	C	Moor the vessel and inform the competent authority	
	D	Fill the hold space with water to cool the cargo	
GM 2503			D
	Polyr	merization	
	STAI	ng carriage of UN No. 1010 1,3-BUTADIENE, BILIZED, the temperature rises in one of the cargo tanks. assume the cargo has started polymerizing. What do you	
	A	Release vapour from time to time to cool the cargo	
	В	Activate the water-spray system to cool the cargo	
	C	Pump the product out of the cargo tank in question and mix it with the contents of the other cargo tanks	
	D	Inform the consignee of the cargo	