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Ref. T1/12.01

MSC-MEPC.3/Circ.3 18 December 2008

CASUALTY-RELATED MATTERS* REPORTS ON MARINE CASUALTIES AND INCIDENTS

Revised harmonized reporting procedures – Reports required under SOLAS regulation I/21 and MARPOL, articles 8 and 12

- The Maritime Safety Committee, at its seventy-second session (17 to 26 May 2000) and the Marine Environment Protection Committee, at its forty-fourth and forty-fifth sessions (6 to 8, 10 and 13 March 2000 and 2 to 6 October 2000 respectively) approved an MSC/MEPC circular (MSC/Circ.953 MEPC/Circ.372) on Reports on marine casualties and incidents Harmonized reporting procedures, amalgamating and harmonizing the procedures for reporting casualties to the Organization contained in existing MSC and MEPC circulars.
- The Marine Environment Protection Committee, at its fifty-eighth session (6 to 10 October 2008) and the Maritime Safety Committee, at its eighty-fifth session (26 November to 5 December 2008) approved amendments to MSC-MEPC.3/Circ.1.
- 3 Under SOLAS regulation I/21 and MARPOL articles 8 and 12, each Administration undertakes to conduct an investigation into any casualty occurring to ships under its flag subject to those conventions and to supply the Organization with pertinent information concerning the findings of such investigations.
- The reporting formats contained in the annexes to this circular replace the reporting forms contained in MSC 59/33, annex 3 regarding Damage cards, MSC/Circ.224 regarding Intact stability casualty records, MSC/Circ.388 on Fire casualty records, MSC/Circ.433 on Reports on investigations into serious casualties, MSC/Circ.559 on Incidents involving dangerous goods or marine pollutants in packaged form, MSC/Circ.621 on Guidelines for the investigation of accidents where fatigue may have been a contributing factor and COM/Circ.70/Rev.1 Questionnaire on the maritime distress system. The reporting format on Incidental spillages of harmful substances of 50 tonnes or more has been added, as such reports are considered necessary when investigating a casualty or an incident (MARPOL, articles 8 and 12); however, this does not replace the one-line entry report required by the annual mandatory report under MARPOL, article 11 (MEPC/Circ.318, Part 1).

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In order to facilitate the identification and retrieval of information circulated by means of joint MSC-MEPC circulars, from now on such information will be disseminated through the following circular series:

¹ Organization and methods of work, as MSC-MEPC.1/Circ...

² General matters, as MSC-MEPC.2/Circ...

³ Casualty-related matters, as MSC-MEPC.3/Circ...

⁴ Port State control-related matters, as MSC-MEPC.4/Circ...

⁵ Survey and certification-related matters, as MSC-MEPC.5/Circ...

⁶ National contact points for safety and pollution prevention and response, as MSC-MEPC.6/Circ...

⁷ Human element-related matters, as MSC-MEPC.7/Circ....

For the purpose of reporting information to the Organization, ship casualties are classified as "very serious casualties", "serious casualties", "less serious casualties" and "marine incidents". Administrations are requested to submit data for all "very serious casualties" and "serious casualties".

Where there are important lessons to be learned from "serious casualties", "less serious casualties" and "marine incidents", full investigation reports should be submitted along with the additional information indicated in annex 3.

Information should also be provided in accordance with annex 10, for all casualties involving life-saving appliances whether or not there are injuries or loss of life or whether used for drills or emergencies, notwithstanding paragraph 7 below.

- immobilization of main engines, extensive accommodation damage, severe structural damage, such as penetration of the hull under water, etc., rendering the ship unfit to proceed*, or
- pollution (regardless of quantity); and/or
- a breakdown necessitating towage or shore assistance.

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^{* &}quot;Very serious casualties" are casualties to ships which involve total loss of the ship, loss of life, or severe pollution, the definition of which, as agreed by the Marine Environment Protection Committee at its thirty-seventh session (MEPC 37/22, paragraph 5.8), is as follows:

[&]quot;Severe pollution" is a case of pollution which, as evaluated by the coastal State(s) affected or the flag Administration, as appropriate, produces a major deleterious effect upon the environment, or which would have produced such an effect without preventive action.

[&]quot;Serious casualties" are casualties to ships which do not qualify as "very serious casualties" and which involve a fire, explosion, collision, grounding, contact, heavy weather damage, ice damage, hull cracking, or suspected hull defect, etc., resulting in:

[&]quot;Less serious casualties" are casualties to ships which do not qualify as "very serious casualties" or "serious casualties" and for the purpose of recording useful information also include "marine incidents" which themselves include "hazardous incidents" and "near misses".

^{*} The ship is in a condition, which does not correspond substantially with the applicable conventions, presenting a danger to the ship and the persons on board or an unreasonable threat of harm to the marine environment.

6 Administrations are urged to submit data as indicated below.

Information to be submitted per casualty class

Information to be sent in accordance with the type of casualty	Very serious casualties	Serious casualties	Less serious casualties	Marine incidents
Annex 1 of the attached reporting format	To be provided within 6 months after the casualty in all cases	To be provided within 6 months after the casualty in all cases	May be provided if there are important lessons to be learned	May be provided if there are important lessons to be learned
Annexes 2 and 3 of the attached reported format, as well as other relevant annexes	To be provided at the end of the investigation in all cases	To be provided at the end of the investigation in all cases	May be provided if there are important lessons to be learned	May be provided if there are important lessons to be learned
Full investigation report	To be provided at the end of the investigation in all cases	May be provided if there are important lessons to be learned	May be provided if there are important lessons to be learned	May be provided if there are important lessons to be learned

Very serious casualty

preliminary information as indicated in annex 1*

information as indicated in annexes 2 and 3, as well as other relevant annexes

a full investigation report in all cases

Serious casualty

preliminary information as indicated in annex 1*

information as indicated in annexes 2 and 3, as well as other relevant annexes

a full investigation report only in cases of important lessons to be learnt regarding IMO regulations

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To be submitted within six months of the casualty date unless complete information is submitted within this time limit.

Less serious casualty and marine incident

information as indicated in **annexes 1, 2 and 3, as well as other relevant annexes**, only in cases of important lessons to be learnt regarding IMO regulations

a full investigation report only in cases of important lessons to be learnt regarding IMO regulations

Information to be submitted for casualties/incidents as indicated below

Information from casualties involving dangerous

goods or marine pollutants in packaged form on
board ships and in port areas

→ annex 4

Damage cards and intact stability records \rightarrow annex 5

Fire casualty record \rightarrow annex 6

Global Maritime Distress and Safety System (GMDSS) → annex 7

Fatigue as a contributory cause to maritime
→ annex 8

accidents – Fatigue factors data compilation sheet

Incidental spillage of liquids of 50 tonnes or more \rightarrow annex 9

Life-saving appliance casualty record \rightarrow annex 10

- Member Governments are invited to give effect to the Code of the International Standards and Recommended Practices for a Safety Investigation into a Marine Casualty or Marine Incident (resolutions A.849(20) and A.884(21) or MSC.255(84) and MSC-MEPC.3/Circ.2) when conducting investigations into marine casualties and incidents.
- Member Governments are requested to use the present circular when reporting on marine casualties and incidents, and to make ample use of the electronic data exchange and reporting facilities available through the IMO Global Integrated Shipping Information System (GISIS) (http://gisis.imo.org/Members), as described in circular letter No.2892 Access to IMO web services, including GISIS and IMODOCS.
- 9 The present circular supersedes MSC-MEPC.3/Circ.1.

List of annexes

ANNEX 1: SHIP IDENTIFICATION AND PARTICULARS

Indicates the information to be submitted in all casualty reports.

ANNEX 2: DATA FOR VERY SERIOUS AND SERIOUS CASUALTIES

Indicates information to be supplied on "very serious" and "serious" casualties.

ANNEX 3: SUPPLEMENTARY INFORMATION ON VERY SERIOUS AND SERIOUS CASUALTIES

Additional information required for "very serious" and "serious" casualties.

ANNEX 4: INFORMATION FROM CASUALTIES INVOLVING DANGEROUS GOODS OR MARINE POLLUTANTS IN PACKAGED FORM ON BOARD SHIPS AND IN PORT AREAS

This form may be applicable for marine casualties as defined as well as marine incidents.

- ANNEX 5: DAMAGE CARDS AND INTACT STABILITY CASUALTY RECORDS This form may apply to "very serious" and "serious" casualties.
- ANNEX 6: FIRE CASUALTY RECORD

 This form may apply to "very serious" and "serious" casualties.
- ANNEX 7: QUESTIONNAIRE RELATED TO THE GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM

 This form may apply to "very serious" and "serious" casualties.
- ANNEX 8: FATIGUE AS A CONTRIBUTORY FACTOR TO MARITIME ACCIDENTS FATIGUE FACTORS DATA COMPILATION SHEET

 This form will apply where fatigue is deemed to be a contributory factor in the casualty.
- ANNEX 9: INCIDENTAL SPILLAGES OF HARMFUL SUBSTANCES OF 50 TONNES OR MORE

 This form relates to incidents involving harmful substances. The report is considered necessary when investigating a casualty or an incident (MARPOL, articles 8 and 12), however this does not replace the one-line entry report required by the annual mandatory report under MARPOL, article 11 (MEPC/Circ.318, Part 1).
- ANNEX 10: LIFE-SAVING APPLIANCE CASUALTY RECORD

 This form is for all casualties involving life-saving appliances, adding any other information which would provide lessons to be learned concerning the use of this equipment.

SHIP IDENTIFICATION AND PARTICULARS

Administrations are urged to supply the ship identification information listed in this annex for all marine casualty reports submitted to the Organization.

SHIP PARTICULARS

1	IMO	IMO Number:						
2	Nam	Name of Ship:						
3	Flag	Flag Administration:						
4	Type	Type of Ship:						
	.1	Liquefied Gas Tanker						
	.2	Chemical Tanker						
	.3	Oil Tanker						
	.4	Other Liquids (non-flammable) Tanker						
	.5	Bulk Dry (general, ore) Carrier						
	.6	Bulk Dry/Oil Carrier						
	.7	Self-Discharging Bulk Dry Carrier						
	.8	Other Bulk Dry (cement, woodchips, urea and other specialized) Carrier						
	.9	General Cargo Ship						
	.10	Passenger/General Cargo Ship						
	.11	Container Ship						
	.12	Refrigerated Cargo Ship						
	.13	Ro-Ro Cargo Ship						
	.14	Passenger/Ro-Ro Cargo Ship						
	.15	Passenger Ship						
	.16	High-Speed Craft						
	.17	Other Dry Cargo (livestock, barge, heavy cargo, etc.) Carrier						
	.18	Fish Catching Vessel						
	.19	Fish Factory Ship/Fish Carrier						

	.20	Offshore Supply Ship	L				
	.21	Other Offshore Ship					
	.22	Research Ship					
	.23	Towing/Pushing Tug					
	.24	Dredger					
	.25	Other Activities Ship					
	.26	Non-Propelled Ships					
	.27	Other Ships Structures					
5	Type	of service:					
		 International Short international Coastal sea trade Inland waters Other, please state: Not reported 					
6	Were	any voyage related restriction limits placed on the ship? Explain:					
7	Gross	Tonnage:					
8	Lengt	h overall:					
9	Classi	fication Society:					
10	Regist	tered Shipowner:					
11	Ship I	Manager/Operator:					
12	Previo	ous names:					
13	Previo	Previous Flag:					
14	Previo	ous Class Society:					
15	Date o	of contract/keel laid/delivery:					
16	Date o	of major conversion:					
17	Deadweight:						

18	Hull	ll material:	
	.1	steel	
	.2	light alloy	
	.3	ferrocement	
	.4	wood	
	.5	GRP	
	.6	composite materials	
19	Hull	ll construction:	
	.1	single hull	
	.2	double hull	
	.3	double bottom	
	.4	double sides	
	.5	mid deck	
	.6	other	
20	Prop	pulsion Type (type, fuel, etc.): Steam	riesel Other O
	.1	Bunkers:	
	Heav	avy Fuel Oil (HFO) \square Medium Fuel Oil (MFO) \square Ma	arine Diesel Oil (MDO)
21	Natı	cure of cargo (e.g., oil, dry bulk and goods under the IMI	OG Code):
22	Buil	lding yard:	
23	Hull	ll number:	
24	Date	e of total loss/constructive total loss/scrapping:	
25	Nun	mber of Crew on ship's certificate:	
26	Nun	mber of Passengers on ship's certificate:	
27	Nun	mber of persons onboard at the time of the casualty/acci	dent:
	.1	Crew:	
	.2	Passengers:	
	3	Others:	

PRELIMINARY CASUALTY DATA

28	Date and time (local onboard):				
29	Position/location:				
30	Initial event*:				
		collision stranding/ grounding contact are or explosion null failure/ failure of watertight doors/ports, etc. machinery damage damages to ship or equipment capsizing/ listing missing: assumed lost accidents with life-saving appliances other			
31	(Consequences:			
	□ s □ r □ l	otal loss of the ship ship rendered unfit to proceed** ship remains fit to proceed** collution oss of life serious injuries			
32	Summary o	of events:			

y = 1.1

* For an explanation of the terms below see annex 2.

The ship is in a condition, which does not correspond substantially with the applicable conventions, presenting a danger to the ship and the persons on board or an unreasonable threat of harm to the marine environment.

The ship is in a condition, which corresponds substantially with the applicable conventions, presenting neither a danger to the ship and the persons on board nor an unreasonable threat of harm to the marine environment.

DATA FOR VERY SERIOUS AND SERIOUS CASUALTIES

CASUALTY DATA

1	Date	ate and local time of casualty: (24 hr clock) (dd/mm/yyyy):					
2	Position of casualty (Latitude, Longitude):						
3	Loca	Location of casualty:					
	3.1	At berth					
	3.2	Anchorage					
	3.3	Port					
	3.4	Port approach					
	3.5	Inland waters					
	3.6	Canal					
	3.7	River					
	3.8	Archipelagos					
	3.9	Coastal waters (within 12 miles)					
	3.10	Open sea					
4	Pilot	on board:					
5	Type	Type of casualty (initial event):					
	5.1	Collision: striking or being struck by another ship (regardless of whether under way, anchored or moored).					
		5.1.1 IMO Number of other ship involved. (not coded)					
		5.1.2 Name of other ship involved. (not coded)					
	5.2	Stranding or grounding: being aground, or hitting/touching shore or sea bottom or underwater objects (wrecks, etc.).					

	5.3	Contact: striking any fixed or floating object other than those included in No.1 or 2.	
	5.4	Fire or explosion.	
	5.5	Hull failure or failure of watertight doors, ports, etc.: not caused by Nos.1 to 4.	
	5.6	Machinery damage: not caused by Nos.1 to 5, and which necessitated towage or shore assistance.	
	5.7	Damages to ship or equipment: not caused or covered by Nos.1 to 6.	
	5.8	Capsizing or listing: not caused by Nos.1 to 7.	
	5.9	Missing: assumed lost.	
	5.10	Accidents with life-saving appliances.	
	5.11	Other: all casualties which are not covered by Nos.1 to 10.	
6	Type	of subsequent events:	
	6.1	Collision: striking or being struck by another ship (regardless of whether under way, anchored or moored).	
		6.1.1 IMO Number of other ship involved. (not coded)	
		Name of other ship involved. (not coded)	
	6.2	Stranding or grounding: being aground, or hitting/touching shore or sea bottom or underwater objects (wrecks, etc.).	
	6.3	Contact: striking any fixed or floating object other than those included in No.1 or 2.	
	6.4	Fire or explosion.	
	6.5	Hull failure or failure of watertight doors, ports, etc.	

	6.6	Machin or shore					
	6.7	Damage	Damages to ship or equipment.				
	6.8	Capsizi	ng or listing.				
	6.9	Missing	g: assumed lost.				
	6.10	Accide	nts with life-saving appliances.				
	6.11	Other: a	all events which are not covered by Nos.1 to 10.				
7	Conse	quences	of the casualty:				
	7.1	Conseq	Consequences to the ship involved in the casualty:				
		7.1.1	Total loss				
		7.1.2	Ship rendered unfit to proceed*				
		7.1.3 Ship remains fit to proceed**					
	7.2	Conseq	quences related to human beings:				
		7.2.1	Number of dead or missing crew				
		7.2.2	Number of dead or missing passengers				
		7.2.3	Number of other dead or missing persons				
		7.2.4	Number of crew being seriously*** injured in the casualty				
		7.2.5	Number of passengers being seriously*** injured in the casualty				
		7.2.6	Number of other persons being seriously*** injured in the casualty				

^{*} The ship is in a condition, which does not correspond substantially with the applicable conventions, presenting a danger to the ship and the persons on board or an unreasonable threat of harm to the marine environment.

The ship is in a condition, which corresponds substantially with the applicable conventions, presenting neither a danger to the ship and the persons on board nor an unreasonable threat of harm to the marine environment.

^{***} Incapacitated for 72 hours or more.

7.3 Consequences to the environment (pollution):

7.3.1	Oil in bunkers:			
	7.3.1.1 Ty	rpe of oil Heavy fuel Diesel Lube oils Other	Quantity spilled	
7.3.2	Oil cargo:			
	7.3.2.1 Ty	rpe of oil (not coded) Crude oil Persistent refined oil products Non-persistent refined oil products Others	Quantity spilled	
7.3.3	Chemicals in bu	lk:		
	Category (Appe	ndix I to Annex II of MAR	POL)	
	 □ X □ Y □ Z □ os 	Quantity in tons spilled		

	7.3.4 Dangerous Goods in packaged form:					
	Class	(IMDG Code)	Proper Shipping Names	UN numbers	Quantity lost overboard	
		1				
		5.1				
		7				
8	Primary cau	ses of the initia	l event:			
Codi	ng principle:					
a	marine envir	onmental protegy ships' crews,	ction. It involves	the entire spectrui gement, regulatory	ets maritime safety and m of human activities bodies, classification	
b	the human e	lement involve and systematic	ment in accident ca	ausation. This co	sound understanding of omes by the thorough factors and the causal	
	8.1 Intern	nal causes (rela	ted to the ship whe	re the casualty oc	curred):	
	8.1.1	Human violati	ions or errors by the	crew:		
		.1 Humai	n violations n error			

	8.1.2	Human violations or errors by the pilot:	
		.1 Human violations	
		.2 Human error	
	8.1.3	Structural failures of the ship:	
	8.1.4	Technical failure of machinery/equipment including design errors:	
		 Failure of propulsion machinery Failure of essential auxiliary machinery Failure of steering gear Failure of closing arrangements or seals Failure or inadequacy of navigational equipment Failure of bilge pumping Failure of electrical installation Failure or inadequacy of communication equipment 	
		.9 Failure or inadequacy of lifesaving appliances .10 Ship design errors (i.e. insufficient stability) .11 Other	
	8.1.5	The ship's cargo:	
		 Cargo shifting Fire or explosion in cargo Improper stowage of cargo Spontaneous combustion Cargo liquefaction Other 	
8.2	Exter	enal causes (outside the ship):	
	8.2.1	Another ship or ships (improper actions, etc.)	
	8.2.2	The environment:	
		 .1 Heavy sea .2 Wind .3 Currents or tides .4 Icing .5 Ice conditions .6 Restricted visibility 	

		8.2.3	Navigational infrastructure:	
			 Failures in aids to navigation Inaccurate charts or nautical publications Charts or nautical publications unavailable for the sea VTS 	
		8.2.4	Criminal acts:	
		8.2.5	Other "external" causes (i.e. not associated with the ship itself):	
			.1 Tug boat operations.2 Failure or incorrect operation of shore equipment or installation	
			.3 Other than .1 and .2	
	8.3	Unkn	own causes:	
9	Viola	tions ar	nd error types:	
	9.1	Viola	tion (deliberate decision to act against a rule or plan):	
		9.1.1	Routine (cutting corners, taking path of least effort, etc.)	
		9.1.2	Necessary (due to inadequate tools or equipment, improper procedures or regulations)	
		9.1.3	"For kicks" (thrill seeking, to alleviate boredom, macho behaviour)	
		9.1.4	Exceptional (taking risks to help people in distress, lack of system knowledge)	
	9.2	Slip (unintentional action where failure involves attention):	
		9.2.1	Incorrect operation of controls or equipment	
		9.2.2	Left/Right, reversal	
		9.2.3	Failure to report due to distraction	
		9.2.4	Other	
	9.3	Lapse	e (unintentional action where failure involves memory):	
		9.3.1	Forgetting to report information	
		9.3.2	Failure to advise Officer on the Watch	
		9.3.3	Other	

	9.4	planni		tentional action where there is an error in the ess; there is no deliberate decision to act against edure):	
		9.4.1	Error in	n judgement	
		9.4.2	Inappro	opriate choice of route	
		9.4.3	Decidi	ng not to pass on information	
		9.4.4	Failure	e to respond appropriately	
		9.4.5	Other		
10	Unde	rlying fa	ctors:		
	10.1	Livewa	re:		
		10.1.1	Physio .1 .2 .3 .4	logical: Fatigue Stress Alcohol/illegal drug Prescription medicine	
		10.1.2	Psychol.1 .2 .3 .4 .5 .6 .7	Excessive workload Communication Standards of personal competence Lack of familiarity or training Panic and fear Boredom Mental and emotional disorders	
		10.1.3	Physics .1 .2 .3 .4	al: Hearing problem Visual problem Injuries and illness Less than adequate medical fitness	
		10 1 4	Others		

10.2	Hardwa	Hardware:	
	10.2.1	Equipment not available	
	10.2.2	Ergonomics	
	10.2.3	Design failures (other than ergonomics)	
	10.2.4	Maintenance and repair	
	10.2.5	Other	
10.3	Softwar	re:	
	10.3.1	Company policy and standing orders	
	10.3.2	Less than adequate operating procedures and instruction	
	10.3.3	Management and supervision	
	10.3.4	Other	
10.4	Enviror	nment:	
	10.4.1	Ship movement/Weather effects	
	10.4.2	Noise	
	10.4.3	Vibration	
	10.4.4	Temperature/Humidity	
	10.4.5	Less than adequate manning	
	10.4.6	Other	

SUPPLEMENTARY INFORMATION ON VERY SERIOUS AND SERIOUS CASUALTIES

To assist completion of marine casualty analysis, in addition to the information in annexes 1 and 2, the following information is required:

1	Principal findings and form of casualty investigation:
2	Action taken:
3	Findings affecting international regulations:
4	Assistance given (SAR operations):

INFORMATION FROM CASUALTIES INVOLVING DANGEROUS GOODS OR MARINE POLLUTANTS IN PACKAGED FORM ON BOARD SHIPS AND IN PORT AREAS

This report is a supplement to the report made by the master in accordance with guidelines and general principles adopted by the Organization by resolution A.851(20) in case of an incident involving dangerous goods, harmful substances and/or marine pollutants in packaged form on board ships and in port areas.

The information should be provided in case of:

- an accident with loss of life, injury or damage to ship or property; or
- an accident, where an unsafe situation, an emergency or loss has occurred involving dangerous goods in packaged form and marine pollutants.

The information should be provided by the Administration carrying out the investigation, if necessary in consultation with other parties involved (e.g., authorities of ports of loading, transit or discharge, etc.) and forwarded to the International Maritime Organization together with recommendations, if considered necessary, for rectifying any detected deficiencies.

The summary and recommendations of any subsequent investigations should also be reported to the Organization.

INFORMATION FROM INVESTIGATION OF INCIDENTS INVOLVING DANGEROUS GOODS OR MARINE POLLUTANTS IN PACKAGED FORM

1	Cargo(es) involved					
	1.1	Proper Shipping Name:	UN Number:	IMO Hazard Class*:		
	r consignee:					

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Data should be provided only if not supplied otherwise.

	1.3	Type of packaging/container:
	1.4	Quantity and condition of goods:
	1.5	Stowage/Securing arrangements:
2	Pollution	on – goods lost overboard (yes/no):
	2.1	Quantity of goods lost:
	2.2	Lost goods floated or sank:
	2.3	Lost goods released from packaging (yes/no):
3	Brief a	ccount of the sequence of events*:
4	Extent	of damage*:

^{*} Data should be provided only if not supplied otherwise.

5	Emergency response measures taken:
6	Comments on compliance with applicable convention/recommendation requirements:
7	Comments on effectiveness of applicable convention/recommendation requirements:
8	Measures/recommendations to prevent recurrence:
9	Further investigation (yes/no)*:

^{*} Data should be provided only if not supplied otherwise.

DAMAGE CARDS AND INTACT STABILITY CASUALTY RECORDS

Card No	Number of files to this casualty(If more than one damage, please complete another sheet with description of that penetration)
Date and place° of casualty (category and deta	ils)
	(capsize; collision; fire/explosion; grounding; heavy weather; loss; other)
Nature of damage (category and details)	(dent/deformation ; breakage/crevice ; strong deformation ; other)
Damaged Ship.	
Ship Name°	IMO No
Type* (category and details)(Bulk Carrier ; Gen. Cargo ; Container ; Fishing ; F	assenger + Pass/Cargo ; RoRo, Car Carrier, Ferry, Car Ferry ; Service Ship + Specialised ; Tanker ; other)
Length between perpendiculars* L_{pp} =	L _{oa} = Moulded breadth* B =
Moulded depth* D =	
Draught before damage: amidships di =	(or fore di = aft di =)
	Ship side
	Bulkhead- or freeboard deck
Ship bottom d	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Dimensions and location of damage (see sketc	hes above).
Ship side(portside ; starboard ; botto	Damage position(fore ship; afterbody; cargohold; rudder; engineroom; other)
Position (height) with reference to WL(damage extends: 1=below and ab	
Distance from AP to centre of damage* $X =$	
Distance from base line to the lower point of da	mage* Z =
Length of $I = \dots$ Height of $h = \dots$	Penetration d =
$damage^* I_1 = \\ damage^* \ h_1 =$	of damage* d _l =
$dd\;mid\qquad = \dots \dots dd\;fore\qquad = \dots$	dd aft = (draughts after damage)
dd mid calc =	
Hole in ship:	es □ No Struck vessel: □ Yes □ No
Ship to ship collision:	es □ No Striking vessel: □ Yes □ No
	x, additional dimensions should be given for the part located below this deck,

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If so, indicate time taken to sink after collision and manner of sinking 5. Appropriation of breached compartment(s) (e.g., machinery room, cargo hold, etc.) 6. Type and quantity of cargo in damaged compartment, if any 7. Total number of persons on board ship before damage 8. Total number of persons lost 9. Were there any special circumstances which influenced the results of damage (e.g., open watertight doors manholes, side-scuttles or pipes, fractures, etc.)? 10. Position of watertight bulkheads in vicinity of damage (distance from AP to each of them) 11. How many compartments flooded? 12. Was there a double bottom in the damaged area? Yes No. If so, indicate whether the inner bottom was breached 13. Separate penetration from the bulbous bow? Yes No. 14. Transverse subdivision bulkhead damaged? Yes No.		cond ship involved in collision (to be com	•	• •					
Moulded depth D =									
Draught before damage: amidships d =			L _{oa} =	Moulded breadth B =					
Additional data to be supplied, if available 1. Condition of sea and wind force (Beaufort scale) at time of casualty									
1. Condition of sea and wind force (Beaufort scale) at time of casualty			(or for	e d = aft d =)			
2. Speed at time of impact in knots damaged ship v1 second ship v2. 3. Angle of encounter	Add	litional data to be supplied, if available							
2. Speed at time of impact in knots damaged ship v1 second ship v2	1.	·	•	•					
3. Angle of encounter	2.								
4. Did the ship to which this card refers sink? If so, indicate time taken to sink after collision			second ship v_2 .						
If so, indicate time taken to sink after collision	3.	Angle of encounter							
5. Appropriation of breached compartment(s) (e.g., machinery room, cargo hold, etc.) 6. Type and quantity of cargo in damaged compartment, if any 7. Total number of persons on board ship before damage 8. Total number of persons lost	4.	Did the ship to which this card refers si	ink?		☐ Yes	☐ No			
5. Appropriation of breached compartment(s) (e.g., machinery room, cargo hold, etc.) 6. Type and quantity of cargo in damaged compartment, if any 7. Total number of persons on board ship before damage 8. Total number of persons lost 9. Were there any special circumstances which influenced the results of damage (e.g., open watertight doors manholes, side-scuttles or pipes, fractures, etc.)? 10. Position of watertight bulkheads in vicinity of damage (distance from AP to each of them) 11. How many compartments flooded? 12. Was there a double bottom in the damaged area? If so, indicate whether the inner bottom was breached 13. Separate penetration from the bulbous bow? 14. Transverse subdivision bulkhead damaged? 15. Collision bulkhead damaged? 16. Damage assessment					-				
6. Type and quantity of cargo in damaged compartment, if any 7. Total number of persons on board ship before damage 8. Total number of persons lost 9. Were there any special circumstances which influenced the results of damage (e.g., open watertight doors manholes, side-scuttles or pipes, fractures, etc.)? 10. Position of watertight bulkheads in vicinity of damage (distance from AP to each of them) 11. How many compartments flooded? 12. Was there a double bottom in the damaged area? 13. Separate penetration from the bulbous bow? 14. Transverse subdivision bulkhead damaged? 15. Collision bulkhead damaged? 16. Damage assessment	5.	Appropriation of breached compartme	ent(s) (e.g., machiner	ry room, cargo hold, etc.)					
7. Total number of persons on board ship before damage 8. Total number of persons lost	6.	Type and quantity of cargo in damage	ged compartment, if	any					
9. Were there any special circumstances which influenced the results of damage (e.g., open watertight doors manholes, side-scuttles or pipes, fractures, etc.)? 10. Position of watertight bulkheads in vicinity of damage (distance from AP to each of them) 11. How many compartments flooded? 12. Was there a double bottom in the damaged area? Yes Now the compartment of the sulbous bow? Yes Now the comp	7.								
manholes, side-scuttles or pipes, fractures, etc.)? 10. Position of watertight bulkheads in vicinity of damage (distance from AP to each of them) 11. How many compartments flooded? 12. Was there a double bottom in the damaged area? If so, indicate whether the inner bottom was breached 13. Separate penetration from the bulbous bow? 14. Transverse subdivision bulkhead damaged? 15. Collision bulkhead damaged? 16. Damage assessment	8.	Total number of persons lost							
10. Position of watertight bulkheads in vicinity of damage (distance from AP to each of them) 11. How many compartments flooded? 12. Was there a double bottom in the damaged area? If so, indicate whether the inner bottom was breached 13. Separate penetration from the bulbous bow? 14. Transverse subdivision bulkhead damaged? 15. Collision bulkhead damaged? 16. Damage assessment	9.	Were there any special circumstances which influenced the results of damage (e.g., open watertight doors,							
10. Position of watertight bulkheads in vicinity of damage (distance from AP to each of them) 11. How many compartments flooded? 12. Was there a double bottom in the damaged area? If so, indicate whether the inner bottom was breached 13. Separate penetration from the bulbous bow? 14. Transverse subdivision bulkhead damaged? 15. Collision bulkhead damaged? 16. Damage assessment		• •							
11. How many compartments flooded? 12. Was there a double bottom in the damaged area?	10.	Position of watertight bulkheads in vic	cinity of damage (dist	tance from AP to each of then	n)				
If so, indicate whether the inner bottom was breached 13. Separate penetration from the bulbous bow?	11.								
13. Separate penetration from the bulbous bow? 14. Transverse subdivision bulkhead damaged? 15. Collision bulkhead damaged? 16. Damage assessment	12.	Was there a double bottom in the dama	aged area?		☐ Yes	☐ No			
14. Transverse subdivision bulkhead damaged? 15. Collision bulkhead damaged? 16. Damage assessment		If so, indicate whether the inner bottom	ı was breached						
15. Collision bulkhead damaged?	13.	Separate penetration from the bulbous	bow?		☐ Yes	☐ No			
16. Damage assessment	14.	Transverse subdivision bulkhead dama	aged?		☐ Yes	☐ No			
	15.	Collision bulkhead damaged?			☐ Yes	☐ No			
	16.	Damage assessment							
17. Any additional information considered useful (details of construction, year built, etc.)									
17. Any additional information considered useful (details of construction, year built, etc.)									
	17.	Any additional information considered u	useful (details of cons	truction, year built, etc.)					
			•••••			•••••			
						•••••			
			•••••						

NOTES

- 1. Damage cards should be completed for decked, steel seagoing ships 25 m in length and over, for all breaches of the hull causing flooding of any compartment (collisions, stranding, etc.)
- 2. The term "damaged ship" refers to the ship for which this card is being completed.
- 3. A sketch showing location of damage and of main transverse bulkheads would be desirable.
- 4. Depth D should be measured to the bulkhead deck in passenger ships and to the freeboard deck in non-passenger ships or to the uppermost completed deck, if bulkhead or freeboard deck are not specified.
- 5. In the case of collision with another ship, it is desirable to fill in damage cards for both ships.
- 6. All measurements should be given in metres.
- 7. Data marked with an asterisk (*) are the most important.
- 8. The provision of data marked (°) is optional.

INTACT STABILITY CASUALTY RECORD

Length between perpendicular Breadth moulded* B = Draught amidships to assigned	$\mathbf{c}_{\mathbf{S}}^* \mathbf{L}_{\mathbf{pp}} = \underline{}}$	*	
Breadth moulded $\mathbf{B} = \underline{}$	Depth moulde	ed D =	
Draught amidships to assigned	l loadline or subdivision lin	ne d or forward	and aft
Service conditions (light or loa	aded, with approximate per	centage of cargo, stores, fu	iel and passengers)
Type of cargo, if any	disposition	stowage factor	
Deck cargo, if any Quantity of ballast water, if an Sea and wind conditions at tim	type	quantity	
Quantity of ballast water, if an	ıy		
Sea and wind conditions at tim	ne of casualty: sea*	wind* (Beaufort sca	le)
Wind velocity II	Wind pressure n	\	
Wave length Direction of wind relative to sl	Wave height h _w		
Direction of wind relative to sl	hips head	(de	egrees)
Direction of waves relative to	ships head	(de	egrees)
Direction of waves relative to Speed of ship at time of casual	lty V kno	ots	,
Name, length and height of en	iclosed superstructures and	l deck-houses above the de	ck to which D was
measured			
Bilge keels: Width ^(o) Depth of bar keel, if any ^(o) Was water trapped on deck?	Longitu	idinal extent ⁽⁰⁾	
Depth of bar keel if any ⁽⁰⁾	Eongita		
Was water trapped on deck?	If so indicate	ate the extent	
Were all vulnerable openings	effectively closed at time o	of casualty?	
were an vumerable openings	streetivery closed at time o	casualty:	
Was icing a contributory facto	to casualty?		
Was the vessel under action of	f helm at time of casualty?		
Were any special instruction	is relative to this ship in	existence concerning the	ne maintenance of
stability, e.g., filling tanks, etc		e existence, concerning th	ic manifemance of
stability, e.g., illing talks, etc	••		
Were any voyage limits and/or	r weather restrictions impor	sed for the vessel?	
	F		
Were any particular circumsta	nces related to the casualty	·?	
Give short description of casua	alty ¹		
•	, <u> </u>		

Note:

Data should be provided only if not provided otherwise.

General Particulars		For ship in fully loaded homogenous arrival condition (with 10% stores, fuel, etc.)	For ship in condition at time of loss
Draught (amidships)	d		
Displacement*	Δ		
Centre of gravity above moulded base line*	KG		
Metacentric height (uncorrected)*	GM		
Distance between the transverse metacentre and centre of	BM		
buoyancy			
Reduction in GM due to any free surface of liquids*			
Block coefficient of fineness of displacement*	δ		
Coefficient of fineness of midship section	β		
Coefficient of fineness of waterplane	α		
Height of centre of buoyancy above moulded base line	KB		
Lateral area of ships profile (including erections, etc.)	A_{v}		
exposed to wind			
Distance between centre of lateral area of ships profile			
exposed to wind and corresponding waterline			
Estimated rolling period (P-S-P) (in seconds) (o)	T_r		
Rated amplitude of roll (maximum)	$\theta_{\rm r}$		
Angle of heel for immersion of uppermost continuous deck			
Righting levers (GZ) based upon centre of gravity (G)			
corrected for any free surfaces, for the following angles of			
heel:*			
$0_{\rm o}$			
10°			
20°			
30°			
40°			
50°			
60°			
70°			
80°			
90°			
Maximum righting lever	GZ_m		
Angle of maximum stability	$oldsymbol{ heta}_{ ext{m}}$		
Angle of vanishing stability	$oldsymbol{ heta}_{ ext{v}}$		
Lightship Displacement Δ_{0} Centre of gravity ab	ove m	oulded base line KG ₀	
NOTES FOR INTACT STABILITY CASUALTY RECORD			
seagoing passenger ships, sea-going cargo ships of 25 metres in length and over, and sea-going fishing vessels of 15 metres in length and over, in respect of both losses of ships and cases in which dangerous heeling occurred due to unsatisfactory intact stability, including those cases where loss or heeling of the ship was due to shifting of cargo. and to the freeboard completed deck, if but a Data marked with an The provision of data both the below loadin (i) 20 mm for every	l deck lkhead could be u asterisk marked ach a ske g condit 10° ang	etch of statical stability curions, using the following sc	r to uppermost iffied.) rves, drawn for ales:

DATA FOR VERY SERIOUS AND SERIOUS CASUALTIES

FIRE CASUALTY RECORD

In addition to supplying the information requested in this annex, Administrations are urged to also supply the information listed in other relevant annexes of MSC-MEPC.3/Circ.3, in particular the information contained in annex 1 (ship identification and particulars).

1	Operat	tional Condition of Ship:
		Loading Unloading Awaiting departure Under repair (afloat or dry dock) Other, please state: Not reported
2	Local	conditions when fire was discovered:
	.1	Time (local onboard) at which fire was discovered (daylight or darkness):
	.2	Wind force (Beaufort scale and direction):
	.3	State of sea (and code used):
3	Part of	Ship where fire broke out:
4	Probat	ble cause of fire:
	.1	Briefly describe on-board activities that were contributing factors (cargo operations, maintenance, hot work, etc.):
	.2	Probable cause of ignition:
5	Explai	n how persons onboard were alerted:
6	Means	by which fire was initially detected:*
	() () ()	Fixed fire detection system By ships crew or passenger Not known

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^{*} A '\sqrt{'} is to be inserted, as appropriate.

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retardi	ng bulk	heads, doors, decks, etc.) with respect to:	
	.1	Containment and extinguishment of any fire in the space of origin:	
	.2	Protection of means of escape or access for fire fighting:	
	.3	Adequacy of structural fire protection:	
8	Ship's	portable fire-extinguishing equipment used (foam, dry chemical, CO ₂ , water, etc.):	
9	Fixed fire-extinguishing installations:		
	.1	At site of origin of fire (specify the type):	
	.2	Adjacent areas (specify the type):	
	.3	Were fixed fire-extinguishing systems used in an attempt to extinguish the fire?	
	.4	Did the use of fixed fire-extinguishing systems contribute to the extinguishment of the fire?	
10 explos	-	explain the action taken by the crew to contain, control and suppress fire and ne space of origin:	
11 equipn	Was onent wa	utside assistance provided (e.g., fire department, other ship, etc.) and, if so, what s used:	
the fire (see its	e-fighti	nine qualifications and training of all ship's crew involved in the incident, not only ng operations, but also any related actions that may have contributed to the fire	
13 in plac		on whether company or industry procedures, including hot work procedures, were elevant to the operation concerned:	
14	If the p	procedures were in place, were they correctly implemented?	
15	Time t	aken to fight fire from first alarm:	
	.1	To control the fire:	
	.2	Once controlled, to extinguish the fire:	
16	Total o	duration of fire:	

Briefly, describe the performance of structural fire protection (fire resisting and fire

17 Damage caused by	fire:
---------------------	-------

- .1 Loss of life, or injuries to personnel:
- .2 To the cargo:
- .3 To the ship:
- .4 Release of pollutants:
- Was there any failure of the fire-fighting equipment or systems when used?

If yes, were the equipment and/or system maintenance records up to date (e.g., servicing)?

- Was there an adequate supply of air on board for self-contained breathing apparatus or was outside assistance needed to supply such air?
- 20 Observations and comments:

QUESTIONNAIRE RELATED TO THE GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM

	nunicat	oose of this questionnaire is to enable the Sub-Committee on ions and Search and Rescue to assess the effectiveness of the global maritime system and to recommend improvements where necessary.
safety incid	dents o	overnments are urged to complete the questionnaire in respect of distress and courring to ships under their flag, adding any other information which, at their provide lessons to be learned concerning the application of the global maritime system.
		, Member Governments are encouraged to pass any relevant information they casualties concerning foreign ships to the country in which such ships are
.1	(a)	GMDSS sea area or sea areas for which radio equipment was installed:
	(b)	Date and time of incident (UTC):
.2		description of:
	(a)	GMDSS sea area:
	(b)	weather conditions during SAR operations:
.3		ription of distress and safety radiocommunications, including particulars of the wing items:
	(a)	means of communication (radiotelegraphy, radiotelephony, INMARSAT SES, DSC, EPIRB) and frequencies used for:
		distress alert by ship:
		distress relay by RCC:

SAR Coordinating communications:

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(b)	use of alarm signal:
(c)	contents of distress message:
(d)	RCC(s), ships, coast station or coast earth stations which acknowled distress message (state time and position):
(e)	language difficulties:
TC /1	a ship was abandanad description of distract radiocommunications and loa
	e ship was abandoned, description of distress radiocommunications and loc als from survival craft:
If a detai	_
If a detarrece	satellite EPIRB or EPIRB was used for alerting and/or locating survivors ils (frequency, type of activation, etc.) and which LUT/CES or coast sived the alerting signal:

FATIGUE AS A CONTRIBUTORY FACTOR TO MARITIME ACCIDENTS FATIGUE FACTORS DATA COMPILATION SHEET

This compilation sheet should be completed and submitted with each maritime accident investigation report where fatigue has been identified as a contributory factor. The compilation sheet should indicate the cause of the identified fatigue. See MSC/Circ.621 for guidelines for the investigation of accidents where fatigue may have been a contributing factor.

Fatigue identified in this accident was caused by (Check all factors that apply):

1	Management/regulatory factors	
	Contractual arrangements	
	Work and rest periods	
	Manning levels	
	Watchkeeping practices	
	Assignment of duties	
	Shore-ship-shore support and communication	
	Management policy	
	Voyage planning	
	Recreational facilities	
2	Ship factors	
	Level of automation	
	Reliability of equipment	
	Motion characteristics	
	Vibration, heat and noise levels	
	Quality of working and living environment	
	Cargo characteristics/requirements	
	Ship design	
2		
3	Crew factors	
	Period on board	
	Experience/training	
	Crew composition, cohesiveness, and relationships	
	Crew competency and quality	
	Personal problems and condition	
4	External factors	
	Weather	
	Port conditions	
	Ice conditions	
	Density of vessel traffic	

INCIDENTAL SPILLAGES OF HARMFUL SUBSTANCES OF 50 TONNES OR MORE

The following additional information should be submitted for each incident involving spillage of 50 tonnes or more of harmful substances. See annexes 1 and 2 of this circular for information to be submitted on vessel identification and casualty specifics. One copy of the report should be retained by the reporting Administration, one copy to be sent to the flag Administration, and one copy to be sent to the International Maritime Organization.

This reporting format on Incidental spillages of harmful substances of 50 tonnes or more has been added, as the report is considered necessary when investigating a casualty or an incident (MARPOL, articles 8 and 12), however this does not replace the one-line entry report required by the annual mandatory report under MARPOL, article 11 (MEPC/Circ.318, Part 1).

Part 1 To be completed by the reporting Administration

1	Was	s the date of the incident known or estimated?	
2	Loc	ation of the incident (select one of the following	<u>s</u>):
	.1 .2 .3 .4	in inland waters in the territorial sea within the exclusive economic zone outside the exclusive economic zone, in international waters	
3	Rep	orting Administration:	
		Report completed by: (Administration and a	ddress)

Part 2

Information to be supplied by the reporting Administration and/or the flag Administration

	.1		
		no action	
	.2	clean-up efforts	
	.3	salvage efforts	
	.4	other, i.e.	L
.2	Lega	al action:	
	.1	no action	
	.2	action to be taken by flag Administration	
	.3	pending	
	.4	action taken by reporting Administration, i.e.	
.3	Meas	sures/recommendations to prevent recurrence:	
.4	Addi	itional information:	

Direct Natural Resource Damages

Loss of	wildlife:	
	Impact on birds Impact on marine mammals Impact on fish Impact on other marine life, including invertebrates	
Loss of	fisheries:	
	Fin fish Shellfish Fish farming	
Damage	e to marine environment:	
Damage	e to shore environment:	
Habitat	Degradation:	
	Soft Habitats (salt marshes, mangroves, mudflats) Shoreline (Beaches) Rocky Coasts/Reefs, including coral	
	Part 3	
To be complete	ed by the flag Administration:	
5 Legal a	ction taken by flag Administration:	
.2	no action pending action taken, i.e.	

LIFE-SAVING APPLIANCE CASUALTY RECORD

The purpose of this casualty record is to enable the gathering and collation of statistical data on both novel and traditional life-saving appliances, in order that the safety of these appliances may be assessed and improvements made if necessary on the basis of reliable risk information.

Administrations are urged to supply the additional information listed in this annex for all casualties involving life-saving appliances, adding any other information which would provide lessons to be learned concerning the use of life-saving appliances.

1		annex 2, items 3.1-3.10)			
	.1	Was the ship: under	way 🗖 i	in port \square	at anchor \square
2	Loca	l conditions:			
	2.1	Local time (24-hr clock):			
		Daylight Darkn	ess 🗆		
	2.2	Wind force (Beaufort scale):			
	2.3	Wave height (observed):			
	2.4	Sea Temperature:°C	C		
	2.5	Air temperature:°	C		
	2.6	Ice conditions Yes	□ No □		
	2.7	Warm Climates Yes	□ No □		
3	Type	of life-saving appliance invol	ved:		
	3.1	Inflatable liferaft:	Capacity:		POB:
		.1 Davit launched	Yes □	No 🗆	
	3.2	Marine Evacuation System (MES):		
		.1 Vertical \square	Slide		
	3.3	Lifeboat	Capacity:		POB:
		.1 Davit launched \square	Free fall \square		

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	3.4	Buoyant apparatus		
	3.5	Ship's rescue boat □		
	3.6	Launching appliances Capacity:	POB:	
	3.7	Other: Capacity:	POB:	
4	Type	of personal life-saving appliance used:		
	4.1	Immersion suit		
	4.2	Lifejacket		
	4.3	Personal Flotation Device (PFD), other than Lifejacket		
	4.4	Anti-exposure suit		
	4.5	Lifebuoy		
5	Reas	on for deployment of life-saving appliance:		
	5.1	Emergency evacuation/abandonment		
	5.2	Crew training		
	5.3	Deployment as required by regulations		
	5.4	Approval Trials (give details)		
6	Natu	re of casualty/incident:		
		(See annex 1, paragraph 30)		
7	Detai	ils of injuries/fatalities:		
	7.1	Number of life-saving appliance-related fatalities		
		Crew:Others:Others:		
	7.2	Number of life-saving appliance-related injuries		
		Crew: Passengers:Others:		

8	Other relevant details:
9	Description of causes/contributing factors:
	(see annex 2, paragraph 10)
	APPENDIX
GU	IDANCE FOR PREPARING THE LIFE-SAVING APPLIANCES CASUALTY RECORD
	following examples could be taken into account when preparing the description of ibuting factors for the purpose of entering the life-saving appliances casualty record:
Desig	gn factor examples:
1	The design made it hard for people to carry out reasonable tests.
2	The design provided no means to detect predictable hazard conditions.
3	Use of the design was vulnerable to predictable human failings.
4	The design was inadequately specified for the required duty.
5	Operation of the design was vulnerable to circumstances.
6	Release mechanism design problems.
Huma	an factor examples:
1	Inadvertent operation of equipment.
2	Inadequate maintenance of equipment.
3	Communication failures.
4	Lack of familiarity with equipments and associated controls.
5	Unsafe practices during drills and inspections.