How to Fill out 'Response against Tsunami Checklist'

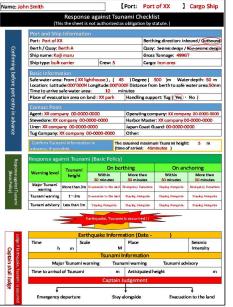
- Check the guidance on "How to Fill out 'Response against Tsunami Checklist' " in our website.
- In preparation for a Tsunami occurring, it is recommended to actively seek information on tsunami
- · in advance.
- Each Ship's Captain fills in the blanks on consultation with ship's agents.
- Even if Captain may not fill in all the blanks in the front page, this sheet can work as a checklist.
- It should be noted that the use of this sheet is not obligatory by statute.

Example of information collection from related organizations							
Table of Response against Tsunami							
				Actions to be Tak	en by a Ship		
Taunami V		Time Allowers to		Ships Berthing in a Port			
Recomm		Trumami Ambal	Large/Mid-Sized Ships (inclu		Small Ships	Anchored Ships/Bupy-	
		Tagrami Amai	Ships Carrying Dangerous Goods	General Ships (including Cargo- handling Working Ships)	Pleasure Boats, Fishing Boats, etc.	mooring Ships	
	Major Teunani Teunani	No	Suspend Cargo handling/Works Essentially, Emergency Departure	Suspend Cargo handling/Works, Execuste to the Land	Execuste to the Land	Use of Engine	
		Yes	Suspend Cargo handlingWorks Emergency Departure	Suspend Cargo handling Works, Execusts to the Land	Grounding-fixing (Execuste to the Land, if necessary)	Emergency Departure	
Taurumi Warning		No	Suspend Cargo handling/Works Essentially, Emergency Departure	Suspend Cargo handling/Works, Execusite to the Land or Stay Alongside	Execuste to the Land	Use of Engine	
		Yes	Yes	Suspend Cargo handling/Works Emergency Departure	Suspend Cargo handlingWorks, Execusite to the Land or Stay Alongaide	Tile the Lashing Tool, Execuste to the Land, if necessary	Emergency Departure
Taunami Recommenda tion	Tourseni Advisory		Suspend Cargo handling Works Stayling Alongside or Emergency Separature Departure Departure		Tile the Lashing Tool or Execuste to the Land	Note: Use Engine in case of Emergency Departure if necessary	
Time series			Tsunami caused by earthquakes in the past			d Tsunami gence map	

		Working Tin	ne (minutes)	
	Suspend the cargo handling works	5		
	Call the crews	2	1	
Emergency Departure	Prepare for leaving pier/port (Start the engine and thruster)	17	30	
Departure	Release/cut the Mooring -> Departure	5	1	
	Notify the land and operating company after departure	1		
	Call the crews	2		
	Tight and add mooring lines and tighten the brake of mooring winch	3		
	Prepare for anchoring	2	15	
Staying Alongside	Prepare the engine and thruster as a readiness for mooring the break and drifting	3		
Alongside	Discuss and instruct to suspend cargo handling	3	1	
	Check the waterproofing, and close the waterproof doors and sea water valves	1]	
	Notify and confirm with the land and operation company	1		
	Count the number of crews and check the tally	3		
Evacuation to	Instruct to complete evacuation to the land	3	10	
the Land	Shipside works required until evacuation to the land is completed	4	1	

Fill in the blank table (decision guideline) based on the information obtained.								
Response against Tsunami by Arrival Time (decision guideline)								
Warning Level	Tsunami Height	Bert	hing	Anchoring				
warning Level		Within 30 minutes	More than 30 minutes	Within 30 minutes	More than 30 minutes			
Major Tsunami Warning	More than 3m	Evacuation to the Land	Emergency Departure	Emergency Departure	Emergency Departure			
Minor Tsuna-mi Warning	1 – 3 m	Staying Alongside	Emergency Departure	Emergency Departure	Emergency Departure			
Low Tsunami Recommendations	Less than 1m	Staying Alongside	Emergency Departure	Emergency Departure	Emergency Departure			

Example





Protect ships from Tsunami

· Probability of a large, M8-M9 class earthquake

occurring within 30 years is appx. 70%.

· A large tsunami may arrive at a short notice on several fronts in Japan

To decide on evacuation actions quickly, it is important to make Ship's Tsunami evacuation manual & Response against Tsunami Checklist



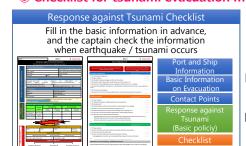


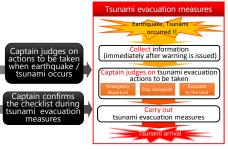
Damaged ships by Tsunami in Great East Japan Earthquake

Response against Tsunami Checklist

Format of the "Ship's Tsunami Evacuation Manual" with one sheet (front/back) for 3 important steps on tsunami evacuation measures

- 1) Basic items to be filled in advance
- ② Information to be confirmed when earthquake / tsunami occurs
- 3 Checklist for tsunami evacuation measures





Website

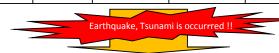
Guidance and Formats in English, Chinese, Korean, Russian and Spanish are available on our website. http://www.mlit.go.jp/en/maritime/maritime fr6 000002.html



Safety Policy Division, Maritime Bureau, MLIT, Japan

Name:		[P	ort:	Cargo Ship			
	Response agai (This the sheet is not au						
	Port and Ship Information						
	Port:	Berthing direct	Berthing direction: Inbound / Outbound				
5	Berth / Quay:	Quay: Seismic design / Non-seismic design					
on fi	Ship name:		Gross Tonnage:				
<u> </u>	Ship type:	Crew:	Cargo:				
ng							
be:	Basic Information						
ός	Safe water area: From (), (, , ,	•	er depth: m			
Confirming before port entry in advance	Location: Latitude: Longitude: Distance from berth to safe water area: nm Time to arrive safe water area: minutes						
ort	Place of evacuation area on land :		Handling support: Tug (Yes • No)				
ent							
7	Contact Point						
⊇.	Agent:	Opera	Operating company:				
ad	Stevedore:	Harbo	Harbor Master:				
/an	Liner:	Japan	Japan Coast Guard:				
ice	Tug Company:	Other:					
	Confirm Tsunami information in advance, if possible.	The assumed (time of arriv	maximum Tsunam al:)	ii height: m			
Resp	Response against Tsunami (Bas	ic Policy)					
SS		0 1 111					

Response against Tsunami (Basic Policy)								
	Tsunami	On be	rthing	On anchoring				
Warning level	height	Within ~minutes	More than ~ minutes	Within ∼minutes	More than ∼minutes			
Major Tsunami warning	More than 3m							
Tsunami warning	1~3m							
Tsunami advisory	Less than 1m							



Earthquake Information (Date -)								
Time	h	m	Scale	М	Place		Seismic Intensity	
	Tsunami Information							
	Major Tsunami warning Tsunami warning Tsunami advisory							
Time to arrival of Tsunami				m	Anticipated he	ight		m
	Captain Judgement							
+ +								
Emergency departure			Stay al	alongside Evacuation to the la		nd		

[Port: **]** Cargo Ship

Basic Response List

(Fill in the as far as practicable)

Keep monitoring the latest information of Tsunami. (from TV, Radio or VHF)	Confirm Tsunami occurrence from Port master, Harbor admetc	
Emergency departure	*Continue to obtain the informa (from TV, Radio or VHF)	tion of Tsunam
☐ ① Interruption of cargo work		minutes
☐ ② Crew readiness	(minutes
☐ ③ Standby for departure (Engine and Thruster if provided)	(minutes
\square $ ext{ }$ $ ext{ }$ Consider support Tug, handler and Mooring crew are nece	essary or not	
\square \bigcirc Confirm store landing facilities (Crane, Loading Arm, Bellow	ws Chute, etc) available	
\square \bigcirc Check the suitability of the departure route (Proximity of h	nazards and other vessels in way of c	leparture
route)	(minutes
☐ ⑦ Unmooring or cutting lines	unating commons.) often depositive	
☐ ⑧ Give notice to the shore (relevant departments or the ope	erating company), after departure	minutos
		minutes
Staying alongside	*Continue to obtain the informa (from TV, Radio or VHF)	tion of Tsunam
☐ ① Crew readiness	(minutes
\square	ches	minutes
☐ ③ Standby anchor	(minutes
\square $\textcircled{4}$ Standby engine and thruster if provided (To avoid damagin	ng of lines, Surging)	minutes
\square $\textcircled{5}$ Discuss or instruct for the interruption of Cargo work, etc	(minutes
\square $\ensuremath{\mbox{\@red}}$ Check watertight measures (close all the watertight doors	/openings, etc)	minutes
\square $\ensuremath{ \bigcirc \bigcirc }$ Give notice to the shore (relevant departments or the ope	erating company)	minutes
\square \otimes Check the ways to obtain the latest information.		
(Preparing vessel on the advice or the indication from Ha (Check the safe water area in advance for the emergency (Check the safe area, the evacuation route for evacuation	y departure)	etc)
Evacuation to the land	*Continue to obtain the informa (from TV, Radio or VHF)	tion of Tsunam
☐ ① Crew readiness	(minutes
\square $\ensuremath{ \bigcirc}$ Check the safe area, the evacuation route, the required tir	me to evacuate etc	
\square $\ \ $ Instruct crew to evacuate to land	(minutes
\square $\textcircled{4}$ Carry out the required work on board till Evacuation to the	e land (minutes
(Disengaging the connections such as loading facilities betw	ween the ship and the land)	minutes

Attention in case of drifting (Additional points)

When the ship drifts from berth, the mooring may break, and cargo handling facilities, such as cranes etc. may collapsed, therefore crew shall evacuate to the safe area.

Captain shall Judge