津波に対する船舶対応要領一覧表(別表)

「津波警報等」に対する対応

				船舶の対応							
勧			津波来襲	港内着岸船				航行船		丁声 佐娄-b	
舌の	津波警報・注意報の種類		時間的余裕	大型船、中型船(漁船を含む)		小型船 錨泊船、浮標係留船		加いて 加い		工事作業中	
告の種類				危険物積載船舶	一般船舶 (作業船を含む)	小型船 (プレジャーボート、小型漁船等)	細冲船、浮標係留船 (作業船を含む)	大型船、中型船 (漁船を含む)	小型船 (プレジャーボート、小型漁船等)	工事・作業船等 (作業台船及び起重機船を含む)	
津波第一体制	津波 注意報	1m (0.2m<予想高さ≦ 1m)	_	荷役・作業中止 係留避泊又は港外退避	荷役・作業中止 係留避泊又は港外退避	陸揚げ固縛 又は 係留強化の後 陸上避難 (場合によっては港外退避)	作業中止・港内避泊 (場合によっては港外退避)	港外退避	着岸のうえ陸揚げ固縛 若しくは係留強化の後 陸上避難又は港外退避	工事・作業中止 港外退避又は流出防止措置	
	津波警報	3m (1m<予想高さ≦3m)	無し	荷役·作業中止 係留避泊	荷役·作業中止 係留避泊	陸上避難	作業中止 港内避泊	港内避泊 又は港外退避	着岸後陸上避難 又は港内避泊	工事·作業中止 陸上避難	
津波第			有り	荷役·作業中止 港外退避	荷役・作業中止 港外退避又は係留避泊	陸揚げ固縛又は係留強化の後 陸上避難 (場合によっては港外退避)	作業中止 港外退避	港外退避	着岸のうえ陸揚げ固縛 若しくは係留強化の後 陸上避難又は港外退避	工事・作業中止 港外退避又は流出防止措置	
第二体制	大津波警報	10m超 (10m<予想高さ) 10m (5m<予想高さ≦ 10m) 5m (3m<予想高さ≦5m)	無し	荷役・作業中止 係留避泊又は陸上避難	荷役・作業中止 係留避泊又は陸上避難	陸上避難	作業中止 港内避泊	港内避泊 又は港外退避	着岸後陸上避難 又は港内避泊	工事·作業中止 陸上避難	
ייחי			有り	荷役·作業中止 港外退避	荷役·作業中止 港外退避	陸揚げ固縛又は係留強化の後 陸上避難 (場合によっては港外退避)	作業中止 港外退避	港外退避	着岸のうえ陸揚げ固縛 若しくは係留強化の後 陸上避難又は港外退避	工事・作業中止 港外退避又は流出防止措置	
	備考			事業者側で予め対応マ ニュアルを作成しておく。		る海域が港外に存在し、かつ避 難する時間的余裕がある場合は	錨地として使用されている海域 のうち、津波発生時に流速が速 くなる可能性の高い海域を予め 調査しておく。		小型船でも十分津波に対応できる海域が港外に存在し、かつ避難する時間的余裕がある場合は港外退避でも可。		

「南海トラフ地震臨時情報」に対する対応

南海トラフ地震臨時情報	南海トラフ臨時情報(調査 中)	〇南海トラフ地震情報に係る気象庁の発表に留意すること
		○南海トラフ地震情報に係る情報の入手に努めること ○連絡系統、避難方法、避難海域の確認を行っておくこと
	南海トラフ臨時情報 (巨大地震警戒)	○避難準備を行い、直ちに出港できる体制を整えること ○南海トラフ地震情報に係る情報の入手に努めること ○以下の内容についてあらかじめ確認しておくこと ・避難に必要な支援体制の確保 ・岸壁管理者の対応 ・荷主等の対応 ・避難方法、避難海域 なお、避難に必要な支援体制を受けられない等の状況が予想される場合にあっては、自主的に安全な海域に避難しておくこと
	備考	

津波来襲までの時間的余裕

有り : 大津波・津波警報が発せられた時点から避難に要する十分な時間(船舶を港外退避、陸揚げ固縛等の安全な状態に置くまで)が有る場合 無し: 大津波・津波警報が発せられた時点から避難に要する十分な時間(船舶を港外退避、陸揚げ固縛等の安全な状態に置くまで)が無い場合

大型船 : タグボート等の補助船、パイロットを必要とし、単独での出港が困難な船舶をいう。 中型船 : 大型船及び小型船以外の船舶をいう。 小型船 : プレジャーボート、漁船等のうち、港内において陸揚げできる程度の船舶(造船所での陸揚げは含まない)をいう。

陸揚げ固縛 : プレジャーボート、漁船等の小型船を陸揚げし、津波等により海上に流出しないよう固縛する。

陸上避難: 船舶での退避は高い危険が予想されるので、乗組員等は陸上の高い場所に避難する。可能な限り船舶の流出防止、危険物の安全措置を取る。

港外退避 : 港外の水深が深く、十分広い海域、沖合いに避難する (港外退避が間に合わない場合は港内の緊急避難海域において待機)。 : 港内の緊急避難海域で錨、機関、スラスターにより津波に対抗する。(小型船は流速の遅い水域で津波、漂流物を避航)

係留避泊 : 係留強化、機関の併用等により係留状態のまま津波に対抗する(陸上作業員等の緊急避難場所として乗船させることを考慮する。)

Tsunami Warning/Advisory, Vessel Types, and Recommended Actions

		Time Allowance to Tsunami Strike								
			In a port Berthing Vessels			Anchoring Vessels/Buoy-	Proceeding Vessels (Including Arrival/Leaving shore Work)		Construction work in the port	
	/arning/Advisory		Large/Mid-Size Vessels(Including Fishing Vessels)		Small Vessels	mooring Vessels	Proceeding vessels (in	cluding Arrival/ Leaving Shore Work)	Construction work in the port	
(PH:Pred	icted Height)		Vessels Carrying Dangerous Cargo	General Vessels (Including Working Vessels)	Small Vessels(Pleasure Boats,Fishing Boats,etc)	_	Large/Mid-Size Vessels(Including Fishing Vessels)	Small Boats(Pleasure Boats,Fishing Boats,etc)	Working Vessels (Including Crane Ship,etc)	
Tsunami Advisory	1m (0.2m <ph≦1m)< td=""><td></td><td colspan="2">OBerthing sheltering or offshore evacuation</td><td>OEvacuation on terrene after lift on the terrene and do lashing or strengthen mooring(Offshore evacuation,if necessary)</td><td>OSuspend loading/unloading or operations OIn a port sheltering (Offshore evacuation,if necessary)</td><td>OOffshore evacuation</td><td></td><td>OSuspend construction and work OOffshore evacuation or preventive measures against drifting</td></ph≦1m)<>		OBerthing sheltering or offshore evacuation		OEvacuation on terrene after lift on the terrene and do lashing or strengthen mooring(Offshore evacuation,if necessary)	OSuspend loading/unloading or operations OIn a port sheltering (Offshore evacuation,if necessary)	OOffshore evacuation		OSuspend construction and work OOffshore evacuation or preventive measures against drifting	
		No	OSuspend loading/unloading or operations OBerthing sheltering or evacuation on terrene		OEvacuation on terrene	OSuspend loading/unloading or operations OIn a port sheltering	OIn a port sheltering	OIn a port sheltering or evacuation on terrene after docking	OSuspend operations OEvacuation on terrene	
Tsunami Warning	3m (1m <ph≦3m)< td=""><td>Yes</td><td colspan="2">OSuspend loading/unloading or operations OOffshore evacuation</td><td>OEvacuation on terrene after lift on the terrene and do lashing or strengthen mooring(Offshore evacuation,if necessary)</td><td>OSuspend loading/unloading or operations OOffshore evacuation</td><td>OOffshore evacuation</td><td></td><td>OSuspend construction and work OOffshore evacuation or preventive measures against drifting</td></ph≦3m)<>	Yes	OSuspend loading/unloading or operations OOffshore evacuation		OEvacuation on terrene after lift on the terrene and do lashing or strengthen mooring(Offshore evacuation,if necessary)	OSuspend loading/unloading or operations OOffshore evacuation	OOffshore evacuation		OSuspend construction and work OOffshore evacuation or preventive measures against drifting	
Maior		No	OSuspend loading/unloading or operations OBerthing sheltering or evacuation on terrene		Oevacuation on terrene	OSuspend loading/unloading or operations OIn a port sheltering	OIn a port sheltering	OIn a port sheltering or evacuation on terrene after docking	OSuspend construction and work OEvacuation on Terrene	
Tsunami Warning		Vac 05	OSuspend loading/unloading or operations OOffshore evacuation		OEvacuation on terrene after lift on the terrene and do lashing or strengthen mooring(Offshore evacuation,if necessary)	OSuspend loading/unloading or operations Ooffshore evacuation	Offshore evacuation	literrene or evacuate outside the	OSuspend construction and work OOffshore evacuation or preventive measures against drifting	
	Remarks		Business operators are required to prepare action manuals		May evacuate outside the port in case there is enough time to the refuge and enough area outside the port			May evacuate outside the port in case there is enough time to the refuge and enough area outside the port		

The response to information relating to the Nankai Trough Earthquake

	The Nankai Trough Earthquake Temporary Information(Under Analysis)	Collection of Information						
The Nankai Trough Earthquake Temporary	Earthquake Temporary	OCollect Information related to the Nankai Trough Earthquake Extra information. OIf the Tsunami warning triggered by next coming earthquake is issued, make sure the emergency call tree, the sea area where you evacuate and so on so that you can evacuate from the port.						
Information	The Nankai Trough Earthquake Temporary Information(Huge Earthquake caution)	OUse following special cautions with the Nankai Trough Earthquake. 1. Confirmation regarding securing of support system necessary for evacuation. 2. Confirmation of correspondence of quay administrator. 3. Confirmation of correspondence of cargo handling companies. 4. Confirmation of evacuation method based on the characteristics of each port. 5. Note Information on Nankai Trough Earthquake announced by the Japan Meteorological Agency. 6. Evacuation from the port.						
	Remarks							

[Defeinition of items]

Time Allowance to Tsunami Strike:

Yes: Vessels may have sufficient time to evacuate(to put the vessel in a safe state by offshore evacuation or landing and binding)follwing the release of a major tsunami warning / tsunami warning.

No: Vessels will not have sufficient time to evacuate(to put the vessel in a safe state by offshore evacuation or landing and binding) following the release of a major tsunami warning / tsunami warning.

Large sized vessels: Vessels unable to make self-leaving off the port without the assistance of support boats(tugboats,etc)and/or pilot service.

Medium saized vessels: Other vessels than large vessels or small vessels.

Small boats: [Pleasure/fishing boats] They are small enough to be carried onto land and sheltered(excluding docking).

With dagerous cargo: Dangerous cargo tanker, radioactive substance loading vessels, gunpowder loading vessels.

On terrene evacuation: Crew members take refuge on terrene in hight places, as hight risk is predicted for in-vessel sheltering. Before leaving the vessel, complete securing -vessel-measures where possible such as securing dangerous cargo and ensuring protection from vessel being swept away.

Berthing sheltering: Resisting tsunami power while berthing by means of enhancement of berthing force or through the use of engines. (Acceptance of land workers seeking emergency shelters onboard should be considered.

In a port sheltering: Sheltering in the emergency sheltering area inside the port and resisting tsunami water power by means of anchors or using engines/thrusters.

Offshore evacuation: Choose a wide area where water is deep and away from the coast(if face a difficulties in evacuation,re-choose in a port sheltering.)

Lift on the terrene and do Unload and secure the pleasure boats and other small boats so that they may not get washed away to sea by the tsunami.