# TAI CHONG CHEANG STEAMSHIP CO (SINGAPORE) PTE LTD

### JOB HAZARD & RISK ANALYSIS FORM

		Complete this pro									measures to eliminate/i	nitigate Risks					
Vessel Name:			V F			,					Date:		Wind/ Weather:				
Voyage #:	_									Po	ort/ Location:						
Work Activity being ass	essed :										Work area :		Visibility:				_
	_	DE Di-l-E A.O.	A -1-114114	-1-	O				ь и:				-				_
Code : No Number, LK	H - LIKEIINOOD, SVK - SEV	rerity, RF - Risk Factor, A.C	- Additional contro	OIS	Code for RISK F	actor: vH - ver	y High R	ISK, HI	K - HIC		,	v risk, VL - Very Low Risk					
Date of JHA:	For unusual jobs, work	on critical equipment or	if residual risks i		HR, send JHA t	to Office				If any ha			ol measures in place or ped and office informed		ds de	velop	
SECTION 1		Refer to Ris	k Matrix sheet	Last	t Assessment.		Ris	k ratin	na .		Co	ntrol Measures		Re	sidual	Risk	
No. Job / Eve	nt	Hazard			Consequence			SVR		(If no conto		, enter NONE and keep L	KH & SVR unchanged)		SVR I		
1					•												
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
Section 2 - Additional c	ontrols			Accept	table/Intolerable				In ca	se of any N	MR, HR or VH residual r	isk, Contact Office					
No.		To be completed by Office	ce									commencement of wo	rk				
1											d not applicable			1		N	
2						Discussed hazards and controls with team Yes No								0			
3 4						Date and time when all controls are in place Shut down period for this JHA (For work on critical equipment only)  From  To								_			
5						Shut down beni	Cown period for this JHA (For work on critical equipment only) From 10 Evaluation of JHA after completion of work										
6						Any new or una	assessed	hazaı	rds rec	cognised (If		under comments and no	ted for assessments in				
7						the next JHA for this job)											
8						Comments :		_	_								
9																	
1																	
				_						-							$\equiv$
Where required, have re notified (Liaise with Off			ort limits)			LCD No	tified			N/A	Remarks						
(	<b></b>	,															
GENERATED ON BOAR	D OR ASHORE: S	hip															
Master								Chie	ef Offic	cer							
		Name/ Date Signatu		ure				Name		e/ Date	Sign		gnature				
Chief Enginer			2nd Engi			Engin	eer										
		Name/ Date		Signatu	ıre						Name	e/ Date	Sign	ature			
		erlapping responsibilities	and hazards are	involved, app	proved by Chief	f											
Engineer and Authorize	d by Master.							•		ader (Name							
							Perso	nnel A	เรรign	ned (Name 8	& Rank):						
Reviewed By: SM/FM																	
	Na	me/ Date		Signatu	ıre												
Reviewed By:							Appro	ved B	y:		r		1				
D., D/OM								_									
By D/GM	NI-	me/ Date	-	Signatu	Iro.			В	By GM		N1	e/ Date	C:	ature			_

RESPECT SAFETY OF LIFE, ENVIRONMENT & PROPERTY

CAREFULLY READ AND COMPLY WITH THE COMPREHENSIVE DIRECTIVES AND GUIDELINES CONTAINED IN "SMS VOLUME IV: JOB HAZARD ANALYSIS PROCEDURES"

"THE LIFE YOU SAVE IS MAY BE YOUR OWN!"

## TAI CHONG CHEANG STEAMSHIP CO (SINGAPORE) PTE LTD

JOB HAZARD & RISK ANALYSIS FORM

Complete this process to Identify the HAZARD and assess Associated RISK with each STEP. Take measures to eliminate/ mitigate Risks

(example: Identified Hazard: "Electricity"; Associated Risks: "Electrocution, Disability, Death,"....etc)

#### RISK MATRIX

RISK MATRIX									
	SEVERITY								
LIKELIHOOD	VERY LOW	LOW	MODERATE	HIGH	VERY HIGH				
LIKELIHOOD	1	2	3	4	5				
RARE 1	VERY LOW RISK	VERY LOW RISK	LOW RISK	LOW RISK	MODERATE RISK				
UNLIKELY 2	VERY LOW RISK	LOW RISK	MODERATE RISK	MODERATE RISK	HIGH RISK				
POSSIBLE 3	LOW RISK	MODERATE RISK	MODERATE RISK	HIGH RISK	VERY HIGH RISK				
LIKELY 4	LOW RISK	MODERATE RISK	HIGH RISK	VERY HIGH RISK	VERY HIGH RISK				
ALMOST CERTAIN 5	MODERATE RISK	HIGH RISK	VERY HIGH RISK	VERY HIGH RISK	VERY HIGH RISK				

## Risk Rating = Severity X Likelihood

Control measures are mainly aimed at reducing the likelihood as severity can

be diminished only in very rare cases.

Almost Certain 5	Occurs several times per year on each ship / location
Likely 4	Occurs several times per year in the company
Possible 3	Has not occurred in the company in last year
Unlikely 2	Has not occurred in the company in last 3 years
Rare 1	Has not occurred in the company in last 8 years
Very Low Risk	Risk Level is Acceptable
Low Risk	Risk Level is Acceptable
Moderate Risk	Risk level needs additional controls to be ALARP
High Risk	Risk level needs additional controls to be ALARP
Very High Risk	Risk level intolerable

SEVERITY	SAFETY	HEALTH	ENVIRONMENT	OPERATIONAL IMPACT	MEDIA
VERY HIGH 5	Multiple Fatalities	Multiple health related fatalities	Long term impact, severe impact on sensitive area, widespread effect, lasting impairment of ecosystem	Very Serious damage or loss to vessel / equipment / cargo resulting in Out of service more than 30 days Direct cost more than 2,000,000 USD	International Coverage
HIGH 4	Single Fatality / Severe permanent partial disability	Single health related fatality	Medium to long term effect / large area affected some impairment of ecosystem	Major damage or loss to vessel / equipment / cargo resulting in Out of service between 15 and 30 days Direct cost between 500,000 and 2,000,000 USD	National Coverage
MODERATE 3	Lost Time Injury / Moderate permanent partial disability	Health Repatriation Case	Short to medium term impact, local area affected, no effect on ecosystem	Mod. Damage or loss to vessel /equipment / cargo resulting in Out of service between 1 and 15 days Direct cost between 200,000 and 500,000 USD	Regional Coverage
LOW 2	Restricted work case	Health Medical Treatment Case	Temporary effect / Minor effect to small area	Minor damage or loss to vessel / equipment / cargo resulting in Out of service < 1 day Direct cost between 10,000 and 200,000 USD	Local Coverage
VERY LOW 1	First aid case / Medical treatment case	Onboard Case / Potential Occupational Health Incident	Low impact with no lasting effect, minimal area exposed	Insignificant damage or loss to vessel / equipment / cargo resulting in Direct cost less than 10,000 USD	No Coverage

		HARARD RISK FACTOR MATRIX				
GRADE	CATEGORY	ACTION	Approval To PROCEED			
Slight - Very Low Risk	1	No action required when residual risk level is between 1 - 2	All JHAs carried out under this category are not required to be sent to the office. No action is required unless change in circumstances.			
Minor - Low Risk		No additional controls are required. Monitoring is required to ensure controls are maintained when residual risk is between 3 - 4	All JHA carried out under this category are to be sent to the office as part of notification for review by F/M or S/M. Approval is not required. Office may revert with the comments if necessary.			
BELOW RIS	K LEVELS A	RE REQUIRED TO BE SENT TO OFFICE FOR REVIEW AND APPROVAL PROCESS.	FM/SM	DGM	GM	
Moderate - Moderate Risk	3	When residual risk level is between 5 – 9, efforts should be made to reduce risk. Risk reduction measures should be implemented within a defined time frame. When the moderate risk is associated with extremely harmful consequences, further assessment may be necessary to establish, more precisely the likelihood of harm as a basis for determining the need for improved control measures.	Review + Notify DGM-SMD/MSD	Approve or Reject	•	
High - High Risk	4	When residual risk level is between 10 – 14, work should not be started until the risk has been reduced. Consider available resources, which may have to be allocated to reduce the risk. When the risk involves work in progress urgent action should be taken.	Notify DGM-SMD/MSD	Review + Notify GM	Approve or Reject	
Extreme - Very High Risk	5	When residual risk level is between 15 – 25, work should not be started or continued until the risk has been reduced. If it is not possible to reduce the risk even with unlimited resources, work has to remain prohibited. JHA must be submitted by SM/FM to the GM for his approval.	Notify GM	Notify GM	Approve or Reject	

RESPECT SAFETY OF LIFE. ENVIRONMENT & PROPERTY

CAREFULLY READ AND COMPLY WITH THE COMPREHENSIVE DIRECTIVES AND GUIDELINES CONTAINED IN "SMS VOLUME # IV JOB HAZARD ANALYSIS PROCEDURES"

"THE LIFE YOU SAVE IS MAY BE YOUR OWN!"