

Date Page

: 10/08/2018 : 6 of 11

Made by : QHSE Approved by : MD Rev. No : 0

Cargo plan to be prepared prior every Load / Discharge operation and forwarded to Operations / QHSE for review. To be forwarded as hard copy on board in CCR 2.0 folder

# **PUMPING PLAN**

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Date Page

: 10/08/2018 : 7 of 11

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Date : 10/08/2018
Page : 8 of 11

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## LOADING/ DISCHARGING OPERATIONS SEQUENCE

Indicate/ Record instructions and sequence of operations to take place (such as valve status and line up, tank atmosphere status including IG pressure, pumps to be used, stripping and pump to be used, topping up process, ullaging method, ballast operations/ sequence) per stage. The details and instructions to be provided shall be separated per stage (i.e. instructions to be followed for stage 1, then for stage 2 and so on).

CARGO: Vessel to load BITUMEN PEN 60/70 in Nominated tanks (1 w's, 3w's, 4w's, 6w's & 7w's COT). Before commencing loading ensure veasel lined up as per below mentioned sequence MANIFOLD VV 'S (OPEN), MANIFOLD CROSSOVER (V'Y S (OPEN), GOOSSNEEK V/V (SHUT), LINEMASTER V/V (SHUT), DROP V/V (OPEN), BOTTOM CROSSOVER (OPEN), TANK V/V'S (OPEN), BULKHEAD MASTER V/V'S (SHUT), ALL CARGO VALVES IN PUMPROOM (SHUT). Initial loading rate to be 150cub mper line. Once ensure cargo being recieved in cargo tank open two more tank valves and increase the rate gradually to maximum 1000 cub mper hour/per line. When loading at full rate ensure 4 cargo tank v/v's are open at all times. Mastriser to be used as means of venting, Maintain tank pressure around 400-500 mmwg. Hydraulic pump level to be monitored. Shipshore safety checklist to be complied with at all times. Loading operations checklists to be complied with thourly pumproom rounds to be taken. LSA / FFA / SOPEP equipments to be kept ready at all times.  BALLAST: No ballast to be take or discharged during this stage  2 CARGO: Vessel to continue loading at maximum loading rate as above mentioned sequence plan. Hourly comparison of ship shore figures to be carried out. Hydraulic pump level to be monitored. Shipshore safety checklist to be complied with at all times. Loading operations checklists to be complies with. Hourly pumproom rounds to be taken. LSA / FFA / SOPEP equipments to be kept ready at all times.  BALLAST: Start NO 1 WBP when required and adhere to sequence mentioned above. Monitor stresses & stability of the vessel at all times.  CARGO: Vessel to continue loading at maximum loading rate as above mentioned sequence plan. Hourly comparison of ship shore figures to be carried out. Hydraulic pump level to be monitored. Shipshore safety checklist to be complies with. Hourly pumproom rounds to be taken. LSA / FFA / SOPEP equipments to be kept ready at all times. Compare CCR guages with manual ullages of cargo tanks. Steel tapes to be used for comparison.  BALLAST: No	Stage No: Hours::	Listructions Fo Be Followed
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Avoid Applicable of Sup Short Eight St for Extract Out. Hydrathic films level to be monitored	5	CARGO: Vessel to continue loading at maximum loading rate as above mentioned sequence plan.  Hourly comparison of ship shore figures to be carried out. Hydraulic pump level to be monitored.



Date : 10/08/2018 Page : 9 of 11

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- "	Shipshore safety checklist to be complied with at all times. Loading opeartions checklists to be complies with. Hourly pumproom rounds to be taken. LSA / FFA / SOPEP equipments to be kept ready at all times.					
	BALLAST: Start NO 1 WBP when required and adhere to sequence mentioned above. Monitor stresses & stability of the vessel at all times.					
6	CARGO: Topping off of COT to be carried out as per above sequence mentioned ullages. Ensure 2 tanks are always open during topping off of cargo tanks. Topping off sequence will be 7w's,6w's,4w's 1w's, & 3w's. Reduce rate to 300 cub m per line for topping off. Manifold pressure to be monitored Hourly comparison of ship shore figures to be carried out. Hydraulic pump level to be monitored. Shipshore safety checklist to be complied with at all times. Loading operations checklists to be complies with. Hourly pumproom rounds to be taken. LSA / FFA / SOPEP equipments to be kept ready at all times.					
<u> </u>	BALLAST: Vessel to be maintained in EK condition during this stage. Use ballast pump if required.					
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Date : 10/08/2018 Page : 10 of 11

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Stage No: Hours:	Instructions To Be Followed
	ties) Stages of Operation Afrecautions agains static generation / Line clearing
Stage no 1	Ensure lineup before starting loading During ullaging/ gauging equipment to earthed before using. All deck hands to use gas meters at all times.
Stage no 7	After completion of loading before disconnecting manifolds blow air to ensure no cargo splash takes place. Crew members carrying out operation to wear special suits and face shiels for safety.
	Notice of Rate Change / Venting Requirements
En	nergency Stop Procedures / Emergency spill Procedures & Spill containment
· · · · · · · · · · · · · · · · · · ·	
Łn	nergency Stop Procedures / Emergency spill Procedures & Spill containment
	Hazards of Cargoes / Special precautions required
-1	
<del>_</del>	UKC limitations / Bunkering / Others



Date : 10/08/2018 Page : 11 of 11

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# Pre-loading / Pre- discharging plan understood and reviewed by all Deck Officers

Cargo Watch-keeping Schedule: -

Officer (	On Watch	Deck Watch		
0000-0600 / 1200- 1800	2 net office	OS- Jimbay, AB-Jeffey.		
		AB- Wilman OS ALIS		
0600-1200 / 1800 - 2400	3 rad of free	Busum ADI, AB-JOE,		
	70	OS- MAR IL		
		PlMAN- ON Call		

Prepared by Chief Officer:  Reviewed by Deck Officer's:	Approved by Master:
Reviewed by Deck Officer's:	
- ofulla	ALA!
2nd Officer	3rd Officer
	;