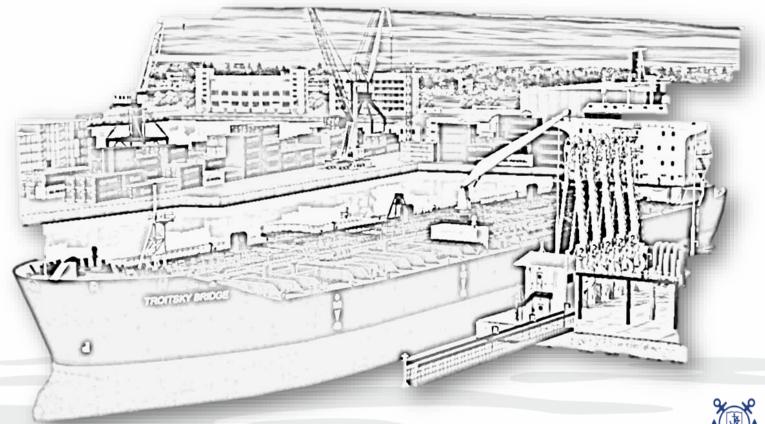
MARS-NET KA220 PROJECT

Maritime Simulators and Training Facilities Network for Enhancing the Exchange of Good Practices and Digital Learning



PREPARING TO LOAD SINGLE CARGO

Tutorial









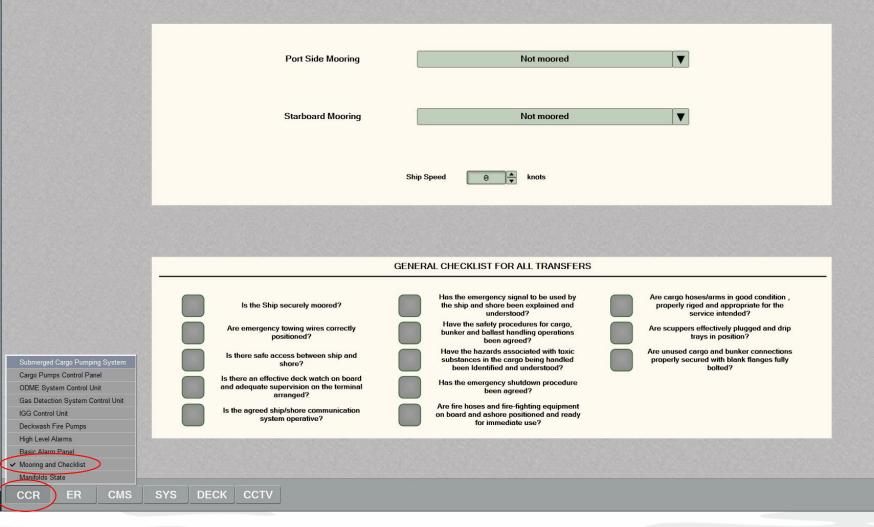






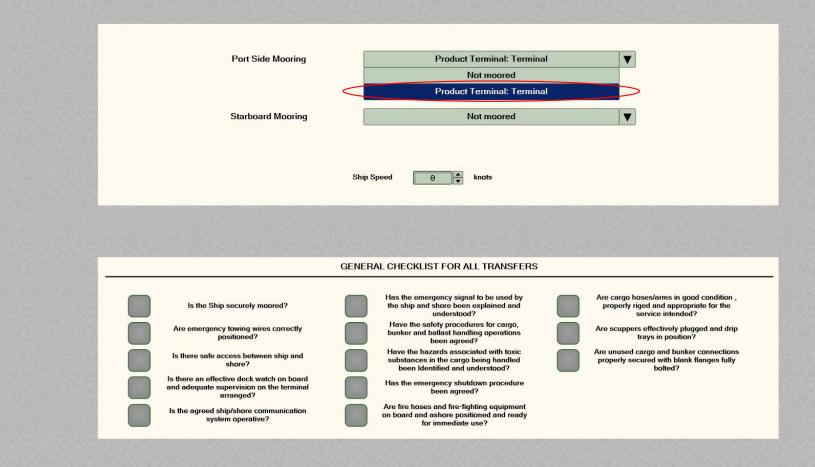






We are preparing to load cargo of Kerosene. All cargo tanks and slop tanks are inerted. Please go to the "CCR - Mooring and Checklist" and make sure the ship is moored port side, in position and ready to receive terminal personnel.





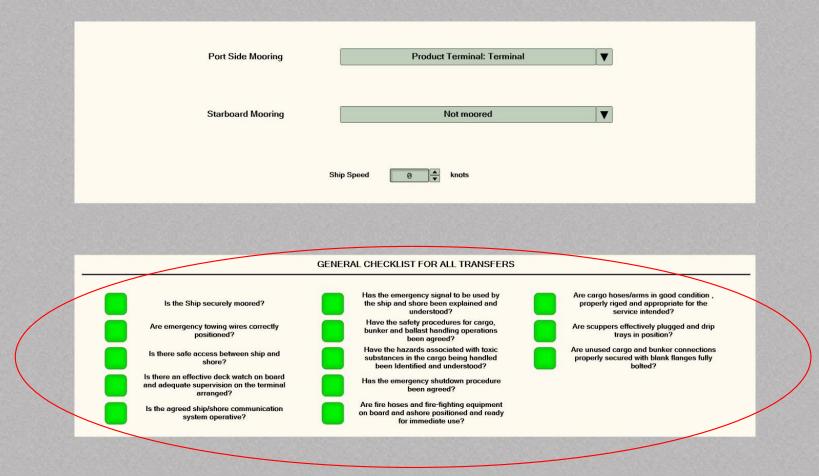






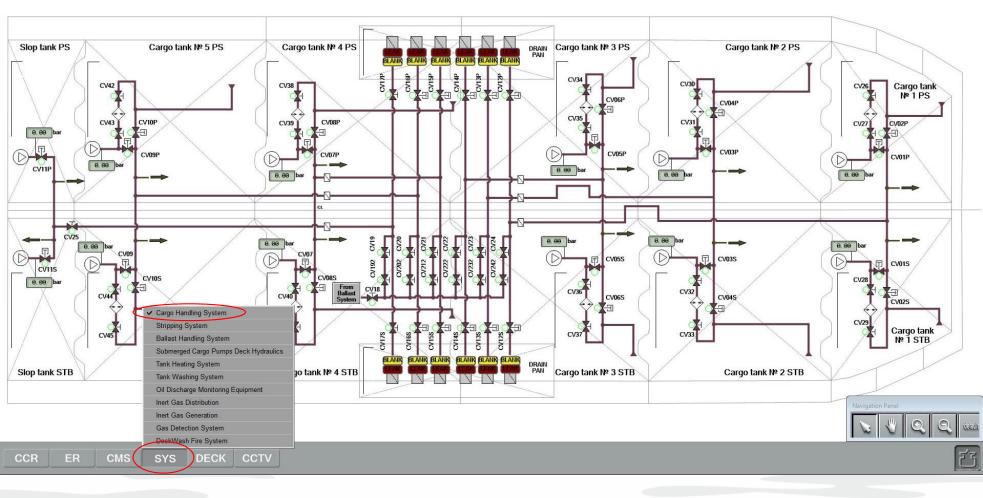
Make sure the ship is moored port side, in position and ready to receive terminal personnel.







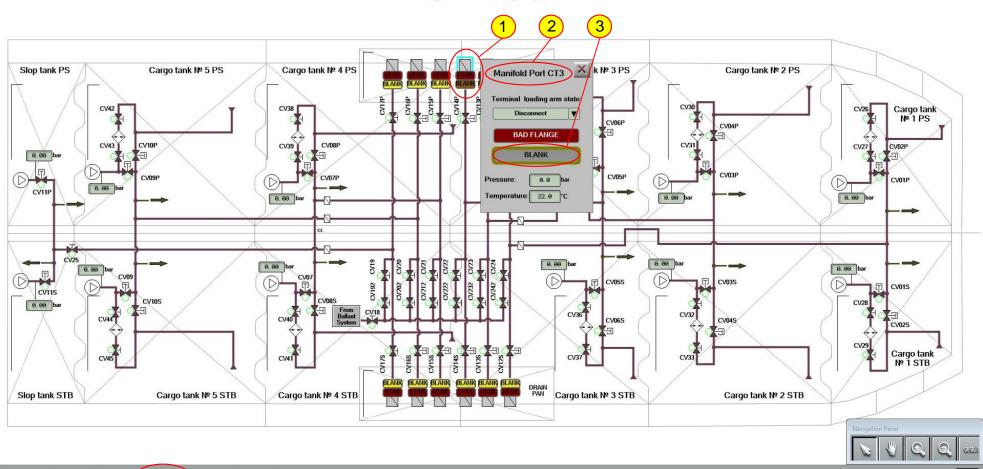




The Terminal has indicated that the checklist is complete.

On "SYS - Cargo Handling System" page and remove the blanks from manifolds #3 and #4 portside.

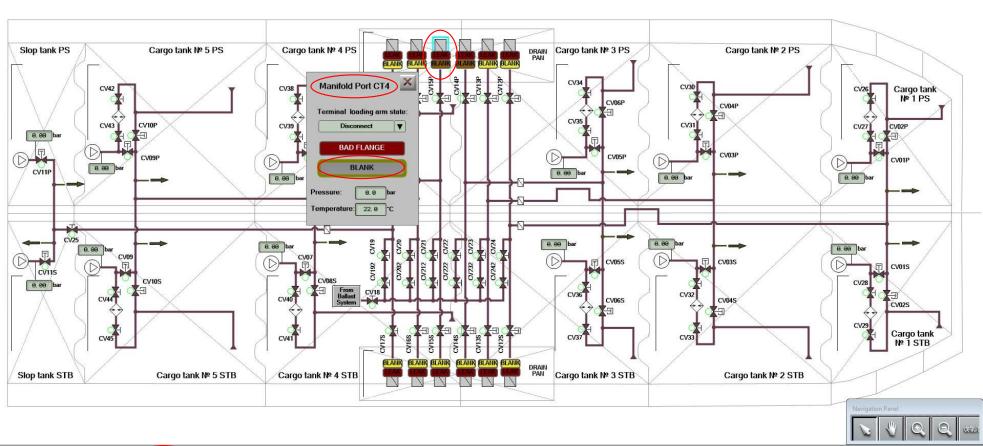




Click at the manifold CT3 to bring up the popup window, and in that window press yellow button "BLANK" and it will turn grey.

SYS







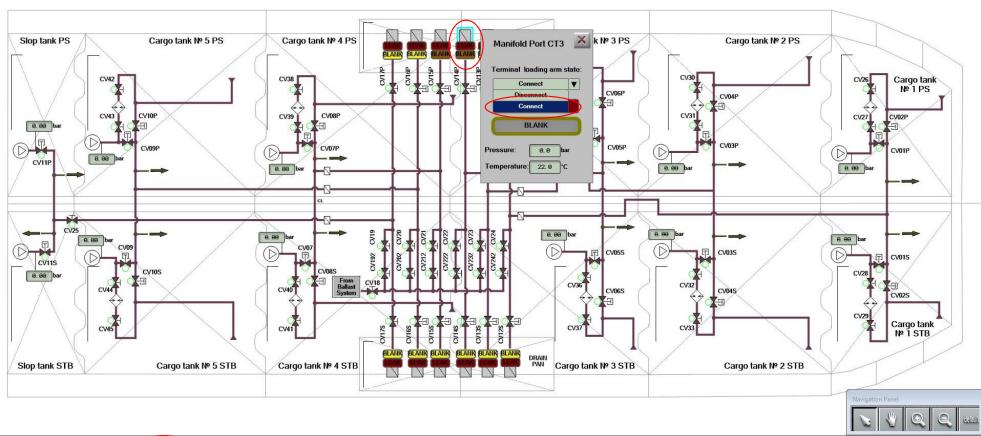






Check the condition of manifolds #3 and #4 portside – are the blanks off

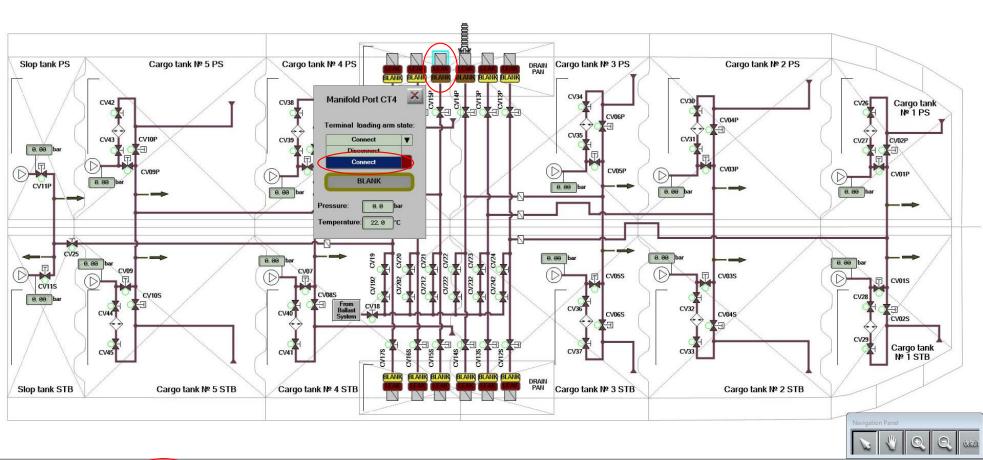




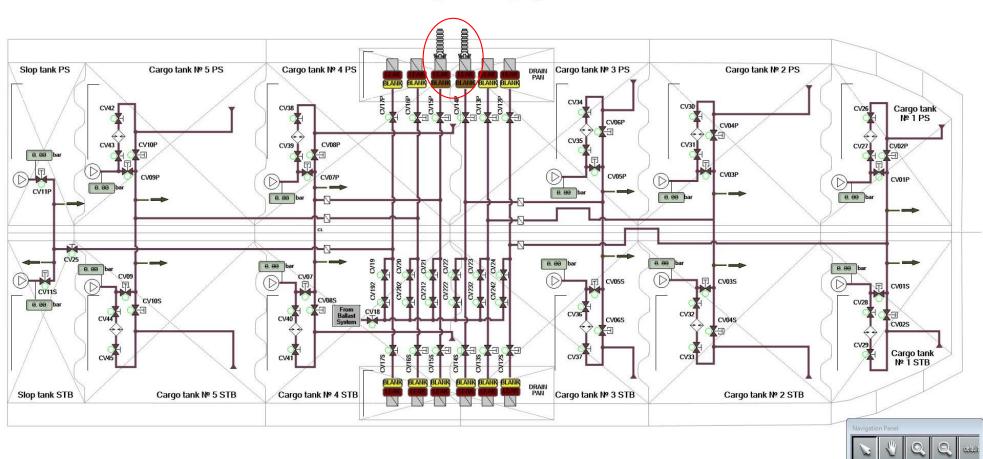
CCR ER CMS SYS DECK CCTV

On "SYS - Cargo Handling System" page select manifolds CT3, CT4 and change status to "Connect".

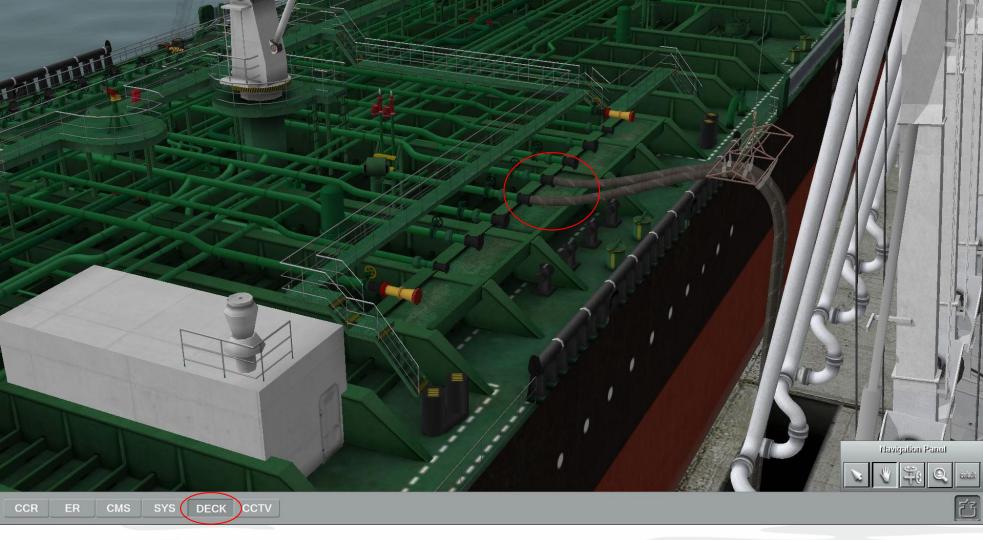




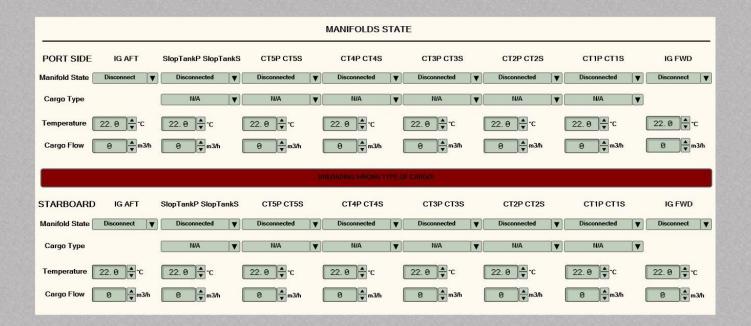


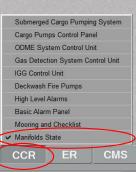






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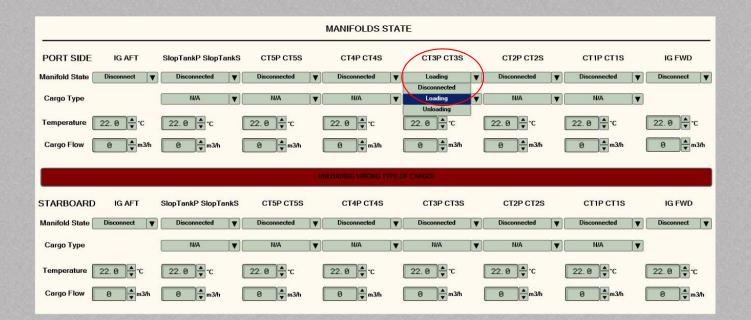




T

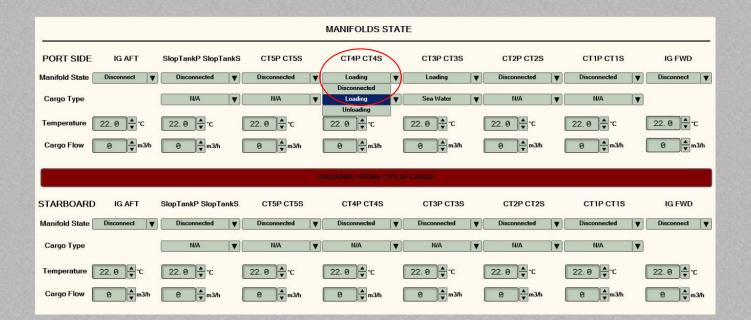
Back to "CCR - Manifolds state" and ask the terminal to prepare loading arms for loading. (for manifolds "CT3P CT3S" and "CT4P CT4S" select Manifold State "Loading")





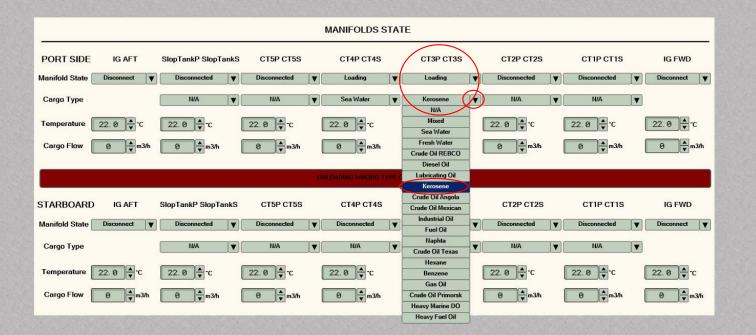








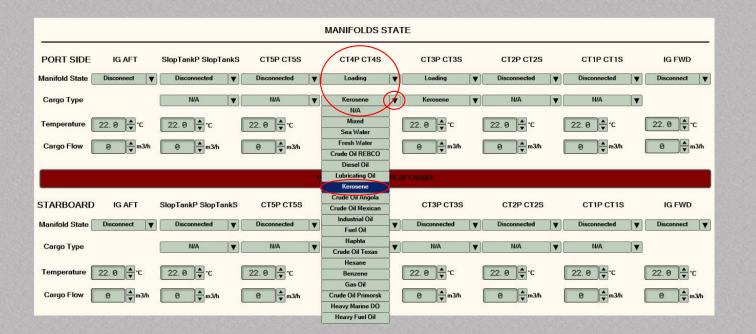






For CT3P CT3S manifold select Manifold State "Loading", then select Cargo Type "Kerosene" and then set Cargo Flow to 200 m3/h.

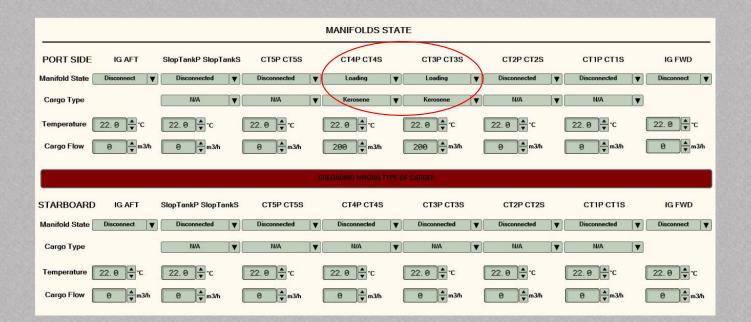






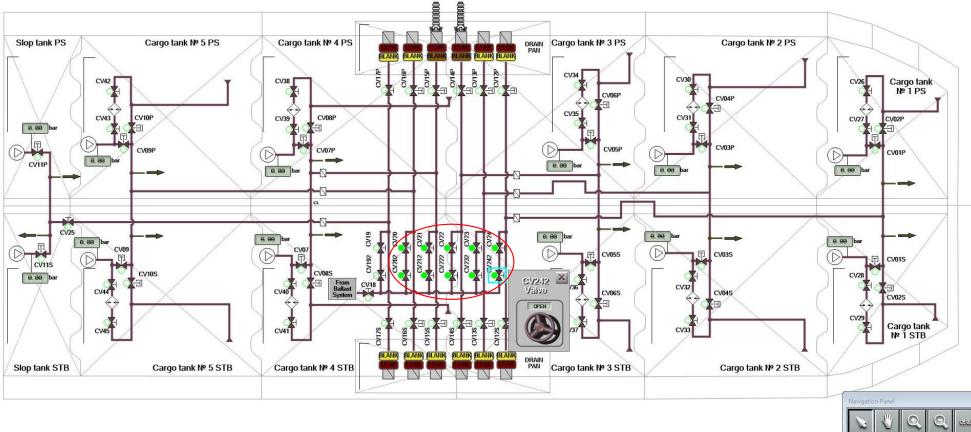
For CT4P CT4S manifold select Manifold State "Loading", then select Cargo Type "Kerosene" and then set Cargo Flow to 200 m3/h.











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To prepare cargo system for loading single cargo, proceed to "SYS - Cargo Handling System" and open all crossover valves between cargo lines:







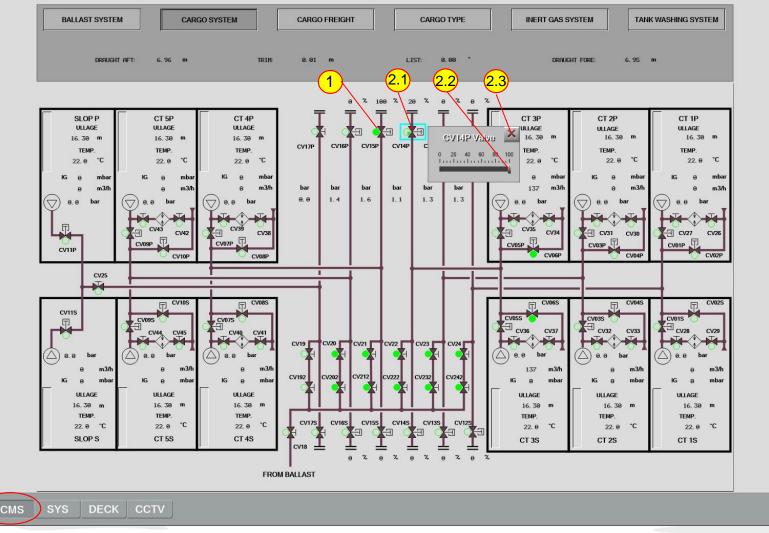
For open valves on drop line of cargo tanks # 3 P/S, you need to open valves on dropline in cargo tanks # 3 P/S. We are going to start loading into these tanks. Go back to the "CMS - Computerized Monitoring System - Cargo System" and open valves **CV06P** and **CV06S**.





Open valves CV06P and CV06S. System is prepared. You need to inform shore terminal staff that we are ready for loading

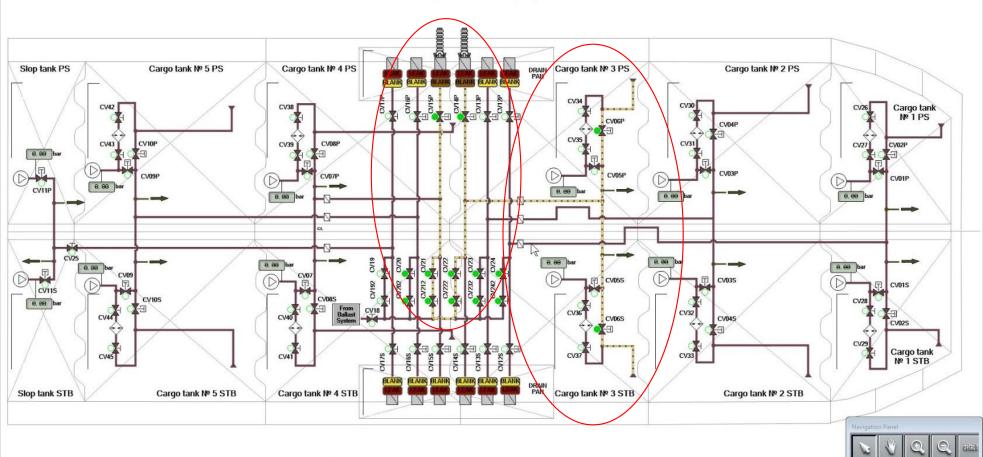




Terminal representative confirmed that they are also ready for loading and we can open manifold valves.

Go to "CMS - Computerized Monitoring System - Cargo System" and open manifold valves





CCR ER CMS SYS DECK CCTV

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Loading to cargo tank #3 has being started.



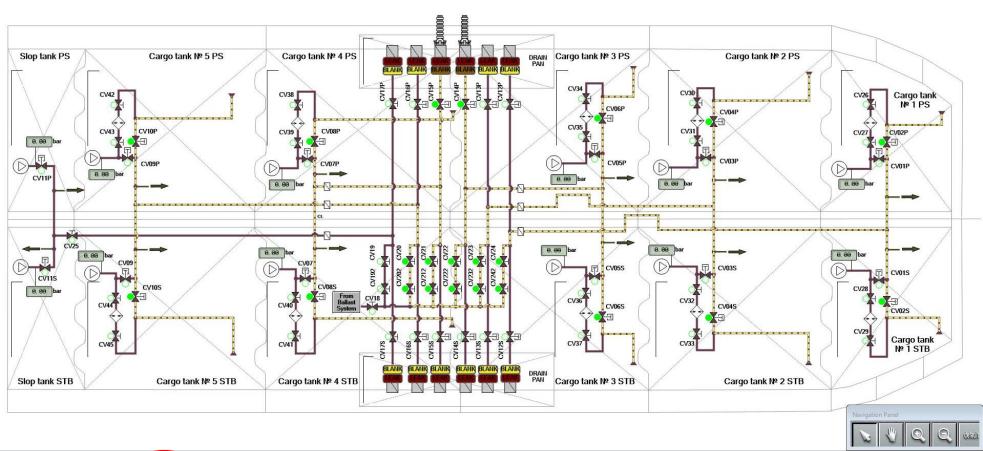


Open valves on drop lines for all other cargo tanks, except Slop Tanks.

CCR

Go to "CMS - Computerized Monitoring System - Cargo System" and open valves CV10P, CV08P, CV04P, CV02P, CV02S, CV04S, CV08S, CV10S)

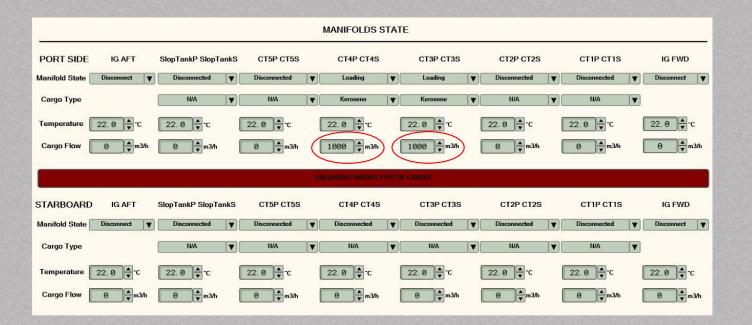




SYS

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Cargo is going into the all tanks. Check the level of ullage in tanks!

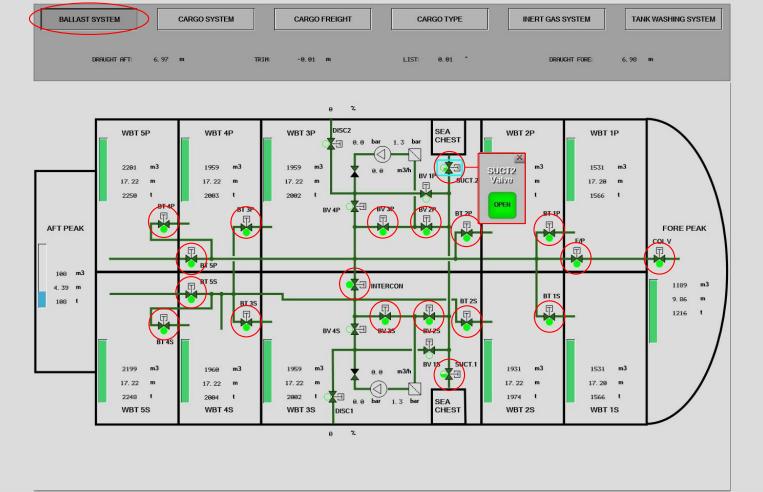




We need to do is to increase loading rate of loading to the maximum.

Go back to "CCR - Manifolds state" and set Cargo Flow to 1000 m3/h for the manifolds #3 and #4.





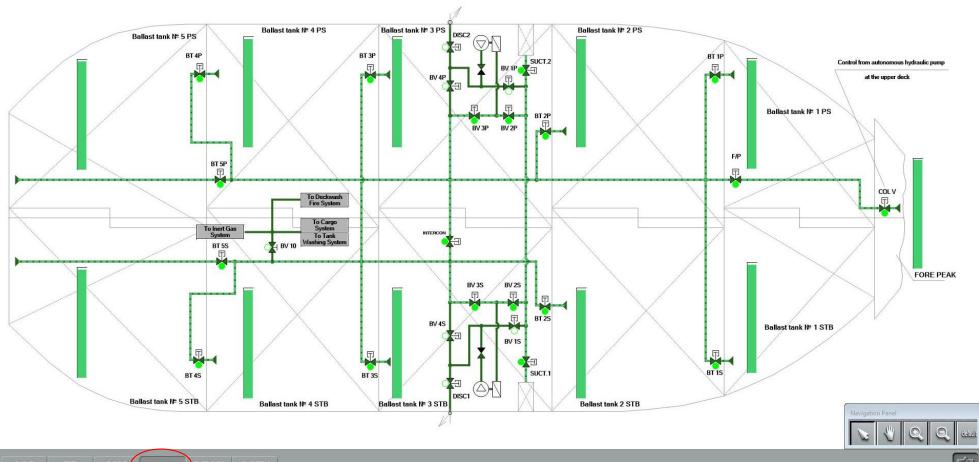


We need to start discharging the ballast water by gravity. Go to "CMS - Ballast System" and open the following valves:

COL V, F/P, BT1P, BT1S, BT2P, BT2S, BT3P, BT3S, BT4P, BT4S, BT5P, BT5S, INTERCON, BV3P, BV3S, BV2P, BV2S, SUCT1 and SUCT2.



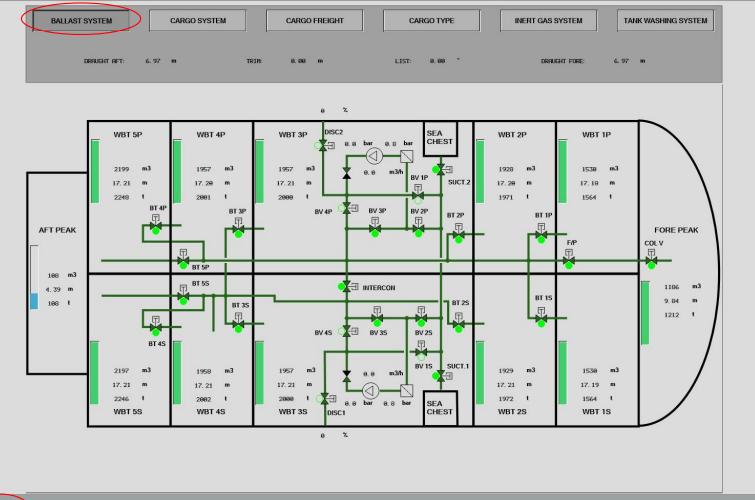
Ballast Handling System



ER CMS SYS DECK CCTV

Check the conditions - ballast is discharging by gravity!

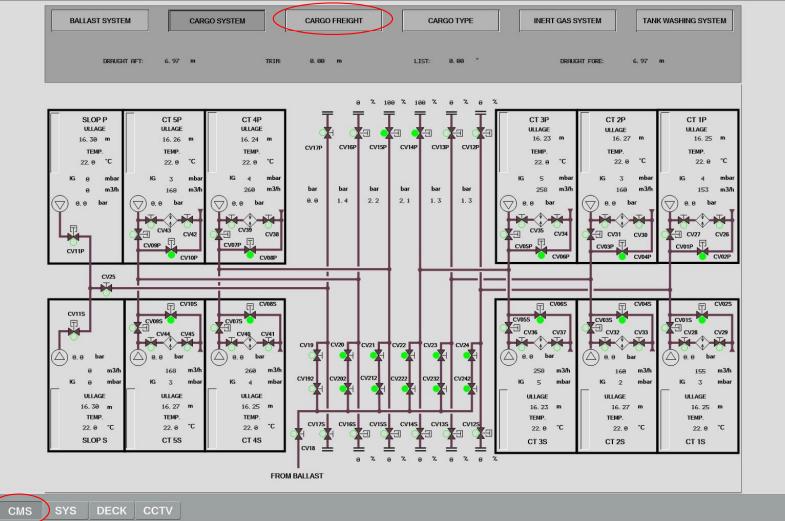






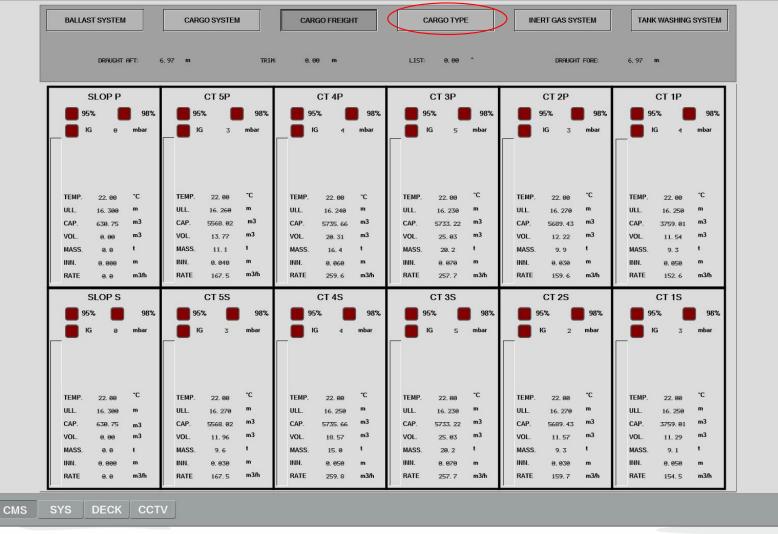
Check the conditions - ballast is discharging by gravity!





CCR

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Check the conditions - Cargo is loading into all cargo tanks. Ullages in tanks are reducing.



BALLAST SYSTEM	CARGO SYSTEM	CARGO FREIGHT	CARGO TYPE	INERT GAS SYSTEM	TANK WASHING SYSTEM
DRHUGHT AFT: 6	5. 97 m TRIP	t 8.86 m	LIST: 8.88 °	DRAUGHT FORE:	6. 97 m
SLOP P	CT 5P	CT 4P	CT 3P	CT 2P	CT 1P
Gas Type Conc Nitrogen 78.860 Oxygen 41397 CO2 17.000	Gas Type Conc Nitrogen 78.828 Oxygen 41.380 CO2 16.993 CH Vapour 0.0410	Gas Type Conc Nitrogen 78.828 Oxygen 41.380 CO2 18.993 CH Vapour 0.0407	Gas Type Conc Nitrogen 78.819 Oxygen 41.376 CO2 16.991 CH Vapour 0.0513	Gas Type Conc Nitrogen 78.829 Oxygen 4.1381 CO2 16.993 CH Vapour 0.0396	Gas Type Conc Nitrogen 78.829 Oxygen 41.381 CO2 16.993 CH Vapour 0.0394
Cargo Type Conc	Cargo Type Conc Kerosene 100.00	Cargo Type Conc Kerosene 100.00	Cargo Type Conc Kerosene 100.00	Cargo Type Conc Kerosene 100.00	Cergo Type Conc Kerosene 100.00
SLOP S	CT 5S	CT 4S	CT 3S	CT 2S	CT 1S
Gas Type Conc Nitrogen 78 860 Oxygen 41397 CO2 17,000	Gas Type Conc Nitrogen 78,832 Oxygen 41,383 CO2 16,994 CH Vapour 0.0348	Gas Type Conc Nitrogen 78.832 Oxygen 41.382 CO2 16.994 CH Vapour 0.0352	Gas Type Conc Nitrogen 78,819 Oxygen 41,376 CO2 16,991 CH Vapour 0.0513	Gas Type Conc Nitrogen 78.832 Oxygen 4.1382 CO2 16.993 CH Vapour 0.0357	Gas Type Conc Nitrogen 78.831 Oxygen 41.382 CO2 16.993 CH Vapour 0.0367
Cargo Type Conc	Cargo Type Conc Kerosene 100.00	Cargo Type Conc Kerosene 100.00	Cargo Type Conc Kerosene 100.00	Cargo Type Conc Kerosene 100.00	Cargo Type Conc Kerosene 100.00



Check the conditions – single cargo "Kerosene" is loading into all cargo tanks. We can observe the level of vapour, the concentration of nitrogen, oxygen, and CO2

