





Teacher Guide - BUL 005 - Scenario 20

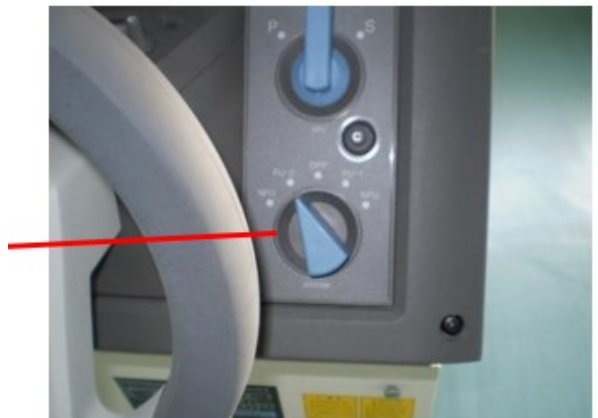
Steps in the Application of BUL 005 - Scenario 20

1	<p>Sound and light signal on navigation bridge - <i>In case of Auto Pilot steering: appears: ABNORMAL CONDITION OF STEERING – you have:</i></p>	
2	<p>Press “Acknowledge” button on the keyboard.</p>	
3	<p>Change over switch for Control Unit FU-1 (Follow-up No.1) to FU-2 (Follow-up No.2).</p>	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>Change over switch for Control Unit</p>  <p>Example</p> <pre> graph LR FU-1 --> FU-2 FU-1 --> NFU NFU --> NFU NFU --> OFF </pre> </div> </div>

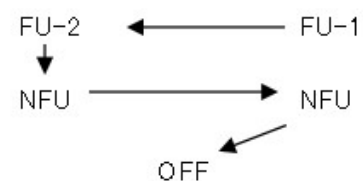
4 Still you cannot control the steering, next you have to change the position to NFU (Non Follow-up) of No.1 or No. 2 control unit.



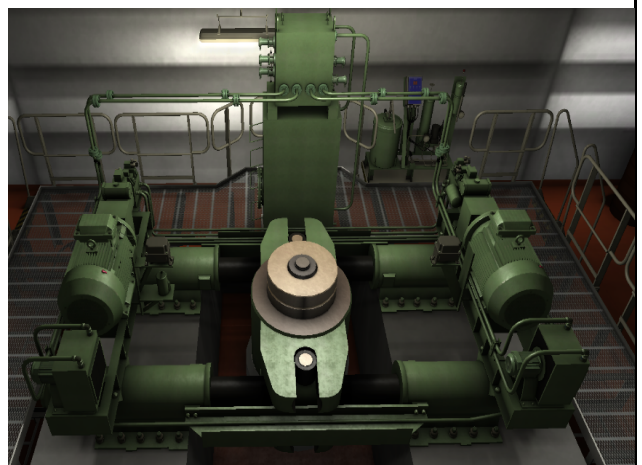
Change over switch for Control Unit

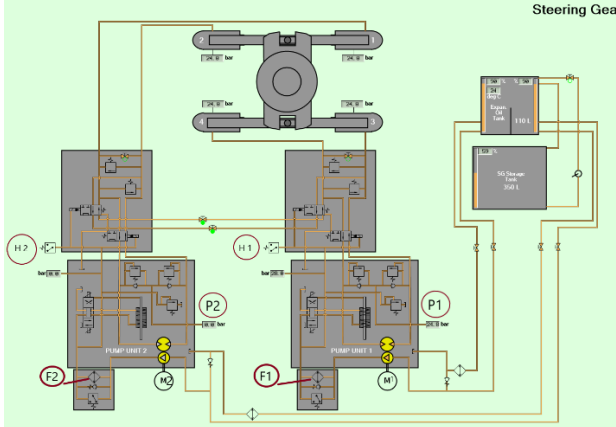
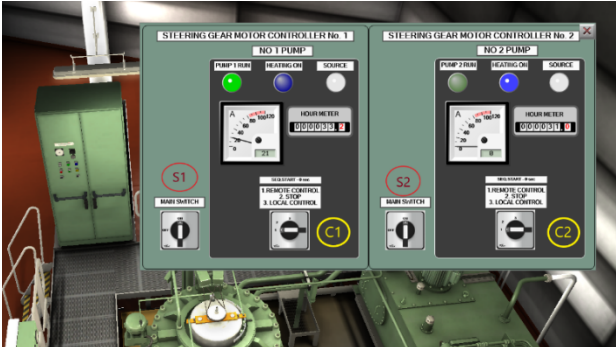
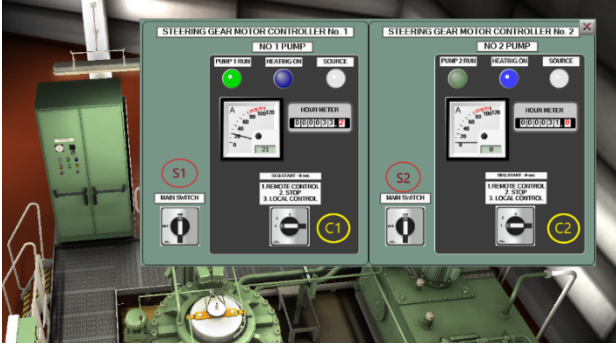
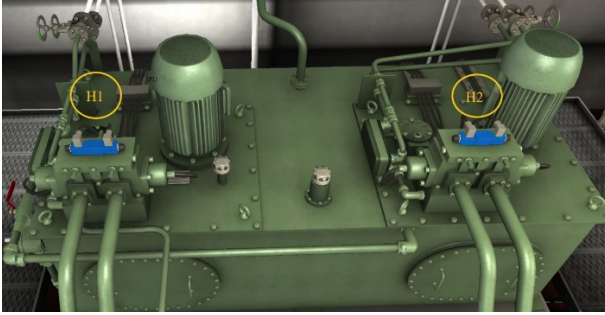


Example



4 In case you cannot control the steering with above procedures – Student proceeds to the Steering Gear Room. (It takes a few minutes you to go down).



		
6	<p>Check electric power supply of <i>HYDROPUMP Port side</i> (HP-Ps) and <i>HYDROPUMP Starboard side</i> (HP-Stbs).</p>	
7	<p>Check fuse of the electric power supply in the pumps control panels.</p>	
7	<p>Start procedures to steer by Emergency Steering Handle:</p> <p>1) Make sure that at least one Steering Gear is running;</p>	

2) In case the control unit power is “ON” (if you forget to turn “OFF” the control stand switch), turn “OFF” the switch inside the control unit switch board;

3) Steer by lever movement.

EMERGENCY STEERING PROCEDURE

1) In case of Hand or Auto Pilot Steering, and if you have abnormal condition of steering, you have to change the control unit to other one. For example, you shall change FU-1 (Follow-up No.1) to FU-2 (Follow-up No.2).

2) Still you can not control the steering, next you have to change the position to NFU (Non Follow-up) of No.1 or No.2 control unit.

3) In case you can not control the steering with above procedures, and then you must proceed to steering gear room to steer by emergency steering handle.

* To make sure to check the control unit before you proceed to the steering gear room. Because it takes five minutes for you to go down to the steering gear room in PCO, and most of the troubles of steering is caused by the control unit.

4) When you proceed to the Steering gear room, keep the Control switch to "OFF" position. Otherwise you can not operate emergency steering handle, because the power of the control Hydr. pressure still remain.

Steering Stand on Bridge



Change over switch for Control Unit



Example

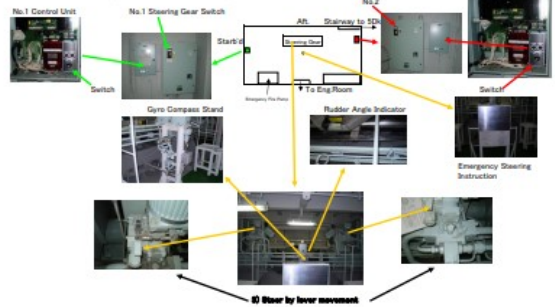
FU-2
NFU

OFF

2. Emergency Steering in the Steering Gear Room

1) Make sure that at least one Steering Gear is running.

2) If you see the control unit power is on (If you forget to turn off the control stand switch), turn off the switch inside the control unit switch board.



3) Steer by lever movement



3) Steer by lever movement

8 Finished Scenario.