

SeaStreak M/V Wall Street

Design Verification Test Procedure

For

Neptune Compact CPP system

STEP	COMPONENT(s)	ACTION	RESULT	ALTERNATE ACTION/CONTROL	ALARM	VERIFIED
1	CPU Cabinet					
1.1	Power supply (2 x24vdc)	Open Fuse or break external supply	Loss of one power supply	Normal Operation.	Power failure	
1.2	Internal fuses F5	Open F5 fuse	Loss of power to main control system	System will enter backup control	Power failure and system failure alarm	
1.3	Internal fuses F6	Open F6 fuse	Loss of power to indication system	Indication failure. System will operate normally.	Power failure	
1.4	Internal fuses F7	Open F7 fuse	Loss of power to pitch driver	System will enter backup control. Pitch will be frozen	System failure alarm	
1.5	Main control bus.	Lift wires 13 &14 in terminal X1	Communication failure	System will enter backup control	System failure alarm	
1.6	Backup/ indication Bus.	Lift wires 17 & 18 in terminal X1	Communication failure	Indication Failure	NA	
1.7	Pitch driver	Remove fuse F7	Loss of power to pitch driver	System will enter backup control. Pitch will be frozen	System failure alarm	
1.8	Main CPU (C4)	Remove J1 Plug	CPU stopped	System will enter backup control	System failure alarm	
2	Gear Box					
2.1	Pitch indication feedback	Unplug sensor	Loss of feedback signal	Indication failure. System will operate normally.	No pitch indication	
3	Main PH Control Panel					
3.1	Pitch/rpm order from maneuvering station in service	Remove J7 Plug	Broken order potentiometer or wires	System will enter backup control/or take control from other station	System failure alarm	