

SOP-NAUT-001 Critical Equipment

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1.0 Purpose

Chapter 10 "Maintenance of Ships and Equipment" establishes the definitions of critical and standby critical equipment and sets forth the guidelines that will ensure all this equipment on our vessels is identified and maintained in readiness at all times.

This SOP lists the critical systems, equipment, standby critical equipment, and recommended spares specific to the Nautilus.

2.0 Critical Systems and Equipment

The Company recognizes the importance of all vessel equipment, but has identified the following systems as critical for the Nautilus:

Systems: subsystems	Recommended Spares
Ship's Hull:	
Hull	1 Damage control kit
Watertight doors	
	1 Cylinder head
Electrical Generation Plant	1 Piston
	1 Injector
1 Harbor generator: 500 kw Generator Caterpillar 3412	1 Bridge diode
	1 Water pump
	1 Fuel Pump
Main switchboard panel	1 Cyl. Liner
	1 Turbo Cartridge

Title of Document:	Safety Management Manual	Document Number:	SOP-NAUT-001
Authority:	Director of Marine Operations	Revision:	1
Custodian/Owner: Designated Person Ashore		Issue Date:	March 2024
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2 Water pump
2 Turbo Cartridge
4 Injectors
2 Cylinder Head
2 Fuel Pump
2 Oil Pump
2 Piston
2 Cyl. Liner
2 Fuel Pump
1 AVR
1 Bridge Diode
1 Woodward
1 Solenoids set

3.0 Standby Critical Equipment

Air Compressors	Recommended Spares	
	Oil filter	
	Compressor Oil 10 Lt	
	1 High Pressure Valve	
2 Main Air Compressors	1 Low pressure Valve	
	2 Belt	
	1 Piston High Pressure side	
	1 Piston Low Pressure side	

Firefighting Apparatus	Recommended Spares
1 Fire pumps	1 Impeller Each one
1 Emergency Fire Pump	1 Mechanical Seal Each one
	1 Ball Bearing

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Communications	Redundancy (no spares)
GMDSS	EPIRB, VSAT, SART
VHF Radios	Multiple units and portables, VSAT, Single side band
General Alarm	Ship's PA, whistle, horn
Ship's whistle/ horn	Portable, manual horns

Navigation	Recommended Spares	
Radar		
Gyro	Redundancy in place	
GPS		

Bilge Systems	Recommended Spares
2 Bilge/Ballast	1 Impeller
pump	1 Mechanical Seal
Engine Room,	
Steering Gear,	
Bow Thruster	
Compartment,	2 Level Switches
Winch Room	

Ship Security Surveillance and Recommended Spares	
Warning system	
Cameras	Four (4) Spare cameras and connections

4.0 Maintenance

General maintenance procedures established to ensure their reliability are recorded in the computer-based maintenance program.

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