

SOP-EMMA-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 R/V Emma McCall.

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 R/V Emma McCall:

Systems: Subsystems	Recommended Spares
Ship's Hull: Hull Internal bulkheads Watertight doors	Damage control kit
Electrical Generation Plant Main generators: Two 3306 Caterpillar Main switchboard panel Electronic Governor batteries	Cylinder heads Pistons Fuel Pump Starter
Propulsion Main engines: Two 3508 Caterpillar Electronic Engines Steering Gear	Spare water pump Spare fuel pump Injectors set
Two Steering pumps/ Vickers	Solenoids set

3.0 Standby Critical Equipment

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Authority:	Director of Marine Operations	Revision:	2
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Air Compressors	Recommended Spares
Pressure Tanks	Filters, compressor oil
Electrical Supply	none

Electrical Generators	Recommended Spares
One Standby generator 3306 Caterpillar	Injector set, fuel pump
Electronic Engine (Port Side)	

Lifesaving Appliances	Recommended Spares
Life rafts & Life vests	

Firefighting Apparatus	Recommended Spares
Fire pumps, Smoke Alarms / Detectors	
Gas Detectors	

Communications	Redundancy (no spares)
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, Satellite Compass, GPS	None (Redundancy in place)

Bilge Systems	Recommended Spares
Ballast pump	None (redundancy with fire and ballast pumps)
Bilge alarm - Engine	
Room, Bow Thruster	Float switches for all locations
Bilge pump #1 and #2	None (redundancy with fire and ballast pumps)
Oily Water Separator	Solenoids

Ship Security Surveillance and Warning system	Recommended Spares
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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