

SOP-BMCC-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 Brooks 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 Brooks McCall:

Systems: subsystems	Recommended Spares
Ship's Hull:	1 Damage control kit
Hull	
Internal bulkheads	
Watertight doors	
Electrical Generation Plant	1 Cylinder head
Main generators:	2 Pistons
Two 12v-71 Detroit Diesel	6 injectors
Main switchboard panel	1 blower
Electronic Governor batteries	1 fuel pump
	1 water pump
	2 magnetic pick ups
	1 spare 8/D battery for governor

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Propulsion	1 Spare water pump
Main engines:	1 Spare fuel pump
Three 16v-92 Detroit Diesel	1 Spare blower
	8 Injectors
Steering Gear	1 Solenoid set
Two Steering pumps/ Vickers	

3.0 Standby Critical Equipment

Air Compressors	Recommended Spares
Pressure Tanks	4 Filters, compressor oil
Electrical Supply	none

Electrical Generators		Recommended Spares
One Standby generator 6 Detroit Diesel	-71	6 Injectors 1 fuel pump

Lifesaving Appliances	Recommended Spares
Life rafts	
Life vests	

Firefighting Apparatus	Recommended Spares
Fire pumps Fixed fire extinguishing system Flame detector Fire detection alarm panel	

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		Redundancy in place			
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Satellite Compass	
GPS	

Bilge Systems	Recommended Spares
Ballast pump	redundancy with fire and ballast pumps
Bilge alarm	Engine Room, Bow Thruster Room
Bilge pump #1 and #2	redundancy with fire and ballast pumps
Oily Water Separator	Solenoids

Ship Security Surveillance and Warning system	Recommended Spares
Cameras	None- domestic water operation only

4.0 Maintenance

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

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