



Ministry
of Defence

de&s

Craft Acceptance Part 1B. Material Survey. For RIB and ORC type craft.

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Version Control

Date Issued	Version	Author	Reason for Change

CRAFT ACCEPTANCE

Acceptance of craft from a contractor following a maintenance upkeep period shall be conducted in 2 main stages.

- a. Material condition assessment
- b. Sea trials.

Craft Material Survey. The CSS Boats officer is to conduct a material state survey of the craft. The documents for this task are:

- a. Craft Acceptance Part 1A. Material Survey. For enclosed craft, open craft and yachts.
- b. Craft Acceptance Part 1B. Material Survey. For RIB and ORC type craft.



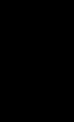
Sea Trials. Once the craft has passed the material survey it is to progress on to sea trials. The documents for this task are:

- a. Craft Acceptance Part 2A. Sea Trials. For craft following standard upkeep and repair periods.
- b. Craft Acceptance Part 2B. Sea Trials. For craft following major equipment changes.

(Major equipment changes are to be considered as changes in engines, propulsion and addition of equipment which significantly changes the weight of the craft.)

The trials are to be witnessed by the CSS Boats officer and the representative contractor officer. Copies of the acceptance trials are to be retained by CSS Boats and craft prime contractor.

CRAFT ACCEPTANCE MATERIAL SURVEY

CRAFT ACCEPTANCE - MATERIAL SURVEY (RIBS and ORC type craft)		V 1.0 1/9/19
Boat Type:	Boat Number:	Date:
<p>The MOD CSS Boats representative is to conduct a material survey of the craft using the enclosed form as guidance on areas and equipment to inspect.</p> <p>The craft should preferably be out of the water for the survey. The contractor must ensure the craft is safe to inspect.</p> <p>The material survey is to be in conjunction with the craft's relevant code (ie MGN280/Workboat Code/Grey Code) and craft BR.</p> <p><i>(The enclosed form has been designed to cover all CSS Boats. Thus certain items detailed will be Not Applicable for some craft.)</i></p>		
<u>SURVEY SECTIONS</u>		
<u>Sections</u>	<u>Item number</u>	
Hull	1	
Machinery	26	
Propulsion & Steering	46	
Electrical	50	
Fire Detection/Fire Fighting	57	
Open Boat Console	63	
Seating	67	
Navigation & Communication	70	
Mast	75	
Lifesaving	78	
Assessment Categories		
<u>ASSESSMENT CATEGORIES</u>		
The material condition of the vessel is to be assessed against the following categories		Condition satisfactory, no sign of significant deterioration at present
		Deterioration evident but not to an extent which will immediately compromise the safety of the vessel. Monitor for further deterioration and take appropriate remedial action.
		Deterioration/unsatisfactory condition compromising seaworthiness of vessel evident.

		N/A	Not Applicable			
The material survey is to be in conjunction with the craft's relevant code (ie MGN280/Workboat Code/Grey Code).						
Survey Report on Material Condition of Vessel						
Item	Areas and items to examine	Material Condition			N/A	Observations and Recommendations
		A	B			
1.	HULL					
2.	Hull External. Confirm the external hull is in good condition. Note any damage and repairs.					
	a. Steel					
	b. Aluminium					
	c. GRP/ Composite					
	d. Wood					
3.	Sacrificial Anodes. Confirm all sacrificial anodes on the hull and external equipment are in good condition.					
4.	Sea Inlets & Outlets. Confirm in good condition					
5.	Draught marks. Confirm condition and accuracy.					
6.	Collar - Closed Cell Foam Fender. Confirm in good condition. (ie ORC craft)					
7.	RIB Collar - Inflatable. Confirm in good condition.					
8.	Additional Fixed Hull Fenders. Confirm in good condition.					
9.	Weather Deck. Confirm the external weather deck is in good condition.					
	a. Steel					
	b. Aluminium					
	c. GRP/ Composite					
	d. Wood					
10.	Weather Decks. Confirm non-slip surfaces are in good condition.					
11.	Weather Deck fittings. Confirm all fittings on the weather deck are in good conditions. (Cleats, bollards, stag horns etc)					

12.	Lifting Points & Craft Lifting Hooks (ie Henriksen). Confirm are in good condition and where applicable hooks mechanism are in date. Check load test certificates.					
13.	Freeing ports. Confirm clear of obstruction.					
14.	Anchor and Cable warp. Confirm in good condition.					
15.	Air Pipes. Confirm height above deck and means of closure with provision to prevent overpressure.					
16.	Watertight Doors. Confirm condition and secure space watertight.					
17.	Watertight Hatches. Conform condition and secure space watertight.					
18.	Fire Hatches. Confirm are in a good condition.					
19.	Fire Flaps. Confirm are in a good condition.					
20.	Hull Internal. Confirm the internal hull is in good condition. Note any damage and repairs.					
21.	Confirm the Bilge area is in a clean condition.					
22.	Bulkheads. Confirm all bulkheads are in good condition.					
23.	Sea Inlets & Discharges Valves. Confirm shut off or non-return valves operate freely.					
24.	Ventilators. Confirm operate freely.					
25.	Fuel Tanks. Confirm are in good condition if visible.					
26.	MACHINERY					
27.	Craft with in-board Main Engines - Machinery space. Confirm the space is clean, tidy, free of clutter. Signage is clear.					
28.	Craft with in-board Main Engines. Confirm the engines are in a good condition and securely mounted with guards, exhausts, fuel lines securely installed.					
29.	Out-Board Motor Craft. For craft with OBM, confirm securing,					

	fuelling and control systems are in good condition.					
30.	Out-Board Motor Craft with assigned OBMS. Confirm the OBM and propeller are in good condition.					
31.	Remote stops installed and functional.					
32.	Main Fuel. Check the following:					
	a. Type of fuel					
	b. Stowage					
	c. Signage					
	d. Shut-offs					
	e. Fuel filtering arrangements					
	f. Fuel filling arrangements.					
	g. Fuel tank vents and associated pipework.					
33.	Fuel Pipework. Confirm pipework is in a good condition and of the right material and secure.					
34.	Valves. Confirm remote means of closing valves on tanks that contain oil fuel, lubricating oil and other flammable oils, and valves operate freely.					
35.	Tanks for petrol engine craft. Confirm a suitable approved hydrocarbon gas detector fitted located under or adjacent to tank. Confirm no electrical equipment residing in the vapour area, or are ignition protected.					
36.	Exhaust pipework. Confirm pipework is in a good condition of the right material and secure.					
37.	Engine cooling system. Confirm filter and seacock isolation in good condition and function correctly.					
38.	Fans. Machinery spaces and battery boxes if fitted. Confirm operation.					
39.	Bilge Pumps Powered. Confirm are in a good condition, free from obstruction and function correctly (ie Electrical powered pumps)					
40.	Bilge Pumps Manual. Confirm all hand operated bilge pumps in a good condition, free from					

	obstruction and function correctly.					
41.	Bilge Alarms. Confirm all work correctly.					
42.	Pumps Fuel transfer. Confirm in good operating condition.					
43.	Pumps Bilge. Confirm in good operating condition. (Electrical and manual pumps.)					
44.	Pumps Ballast. Confirm in good operating condition.					
45.	Hydraulic system. Confirm in good condition without leaks.					
46.	PROPULSION AND STEERING					
47.	Propulsion shafts. Confirm in good condition.					
48.	Steering Gear. Confirm in a good condition.					
49.	Propulsion. Confirm in a good condition.					
	a. Propeller (Open)					
	b. Propeller (Enclosed.)					
	c. Water Jet					
50.	ELECTRICAL					
51.	Alternators. Confirm are in a good condition, securely mounted, fitted with secure guards					
52.	Batteries. Confirm are in a good condition, securely mounted in a container, terminals covered to be electrically safe. Unobstructed ventilation for lead acid batteries.					
	a. Engine Start Batteries					
	b. Craft Power Batteries					
	c. Navs and Comms Batteries					
53.	Distribution Boards. Confirm are in a good condition.,					
54.	Electrical cables. Confirm are in a good condition, securely clipped and terminated.					
55.	Sockets and Shore Supply connectors. Confirm are in good condition.					
56.	Lighting. Confirm are in a good condition, provide adequate lighting for all areas of the craft.					
57.	FIRE DETECTION/FIRE FIGHTING					
58.	Fire Plan. Confirm the craft has a fire plan.					

59.	Fire Detectors. Confirm in good condition and comply with the fire-plan.					
60.	Fire Alarms. Confirm in good condition and comply with the fire-plan.					
61.	Fire extinguishers. Confirm the craft is fitted with the right type, size and numbers of extinguishers for the relevant areas of the craft complying with the fire plan. Confirm in date status of all extinguishers.					
	a. CO2/CO2 with bayonet					
	b. Dry Powder					
	c. Foam AQQ					
	d. Water					
62.	Fixed firefighting systems for machinery spaces (Pyrogen ect.). Confirm the system is in good condition and in-date.					
63.	OPEN BOAT CONSOLES					
64.	Console. Confirm the console structure is in good condition and secure to the craft.					
65.	Craft Controls. Confirm all craft steering and engine controls are in a good condition. (Steering system, throttle and gear controls etc)					
66.	Craft Machinery Instrumentation Alarms Indication. Confirm the instrumentation on the console are in good condition.					
	a. Engine Instrumentation					
	b. Engine Alarms					
	c. Steering Indication (ie rudder angle)					
	d. Propulsion and Trim Equipment indication					
	e. Bilge Alarms					
	f. Fire Alarms					
67.	SEATING					
68.	Non shock mitigation seating: Confirm in good condition and secured to craft.					
69.	Shock mitigation seating: Confirm in good condition and secured to craft.					
70.	NAVIGATION AND COMMUNICATION					

71.	Navigation equipment. Confirm the correct operation and condition of the following if fitted:					
	a. Compass Gyro					
	b. Compass Fluxgate					
	c. Compass GPS					
	d. Compass Magnetic					
	e. Secondary back up compass					
	f. Deviation cards for the magnetic compasses.					
	g. Radar					
	h. GPS					
	i. ECDIS (using UKHO charts)					
	j. Chartplotter (using commercial charts - Navionics, Blue View etc)					
	k. Automatic Identification System (AIS)					
	l. Depth sounder					
	m. Navigation Lights.					
	n. Navigation Shapes					
	o. Radar reflector					
	p. Horn					
	q. Signalling Lamp					
72.	Internal communications.					
73.	VHF DSC Radio. Confirm in good condition and with correct MMSI loaded and licence.					
74.	VHF handheld Radios. Confirm in good condition and charged.					
75.	MAST					
76.	Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition.					
77.	Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good condition.					
78.	LIFESAVING					
79.	Confirm the following are in good condition, in date and comply with the requirements of the vessel type and passenger carriage.					

	If these items are not held on board, state what arrangements are made.					
	a. lifejackets					
	b. Life Rafts					
	c. Life Rafts Hydrostatic releases					
	d. Lifebuoys					
	e. Man Overboard recovery					
	f. Parachute flares					
	g. Handheld flares					
	h. Line Throwing apparatus					
	i. Waterproof torch					
	j. Medical Kit					
	k. EPIRB					
	l. SART					

Overall Material State Of Craft		
The material condition of the vessel is considered as:		
A	Condition satisfactory, no sign of significant deterioration at present	<input type="checkbox"/>
B	Deterioration evident but not to an extent which will immediately compromise the safety of the vessel. Monitor for further deterioration and take appropriate remedial action.	<input type="checkbox"/>
	Deterioration/unsatisfactory condition compromising seaworthiness of vessel evident.	<input type="checkbox"/>
Comments:		

Survey Conducted By		
<u>Signature</u>	<u>Name</u>	<u>Date</u>

