

DES Ships Boats Survey and Trials Form Part 1A Condition Survey

Version 1.1 11 November 2024

Authorised for issue by:	DES Ships Boats-ChfEng	
Approved by:	DES Ships Boats-ISS-Eng1a	
Prepared by:	DES Ships Boats-EngSpt	

Version Control

	·		
1			:
Updates due to additional Survey and Trial forms creation		1.1	11 November 2024
əssələr laitinl		0.1	16 October 2023
Reason for Change	rodinA	Version	Date Issued

SURVEY AND TRIALS

The Contractor shall provide the Authority with evidence of material state and performance before and after work has been conducted on Boats as part of their respective In-Service Support contracts. This is achieved through conducting Surveys and Trials as part of the standard upkeep core work package for each Boat. When tasked, the Contractor shall conduct Surveys and/or Trials outside of the standard upkeep work package (for example, following a major equipment change or following installation of new equipment).

The Authority has provided a guide for conducting and recording the evidence for the following Surveys and Trials:

- a. Condition Survey: A comprehensive Survey of the material state and performance of the Boat and its equipment and systems preceding a planned maintenance period. Survey and Trials Form 1A is to be completed for this activity.
- b. Functional Survey: A brief functional Survey of the material state of the Boat and its equipment and systems preceding an unplanned maintenance period. **Survey and Trials Form 1B** is to be completed for this activity.
- c. Harbour Acceptance Trials (HATs) and Sea Acceptance Trials (SATs): A Trial conducted to prove the material state and performance of the Boat and its equipment and systems following a planned maintenance period. Survey and Trials Form 2A is to be completed for this activity.
- d. Acceleration Trial: A Trail to establish the acceleration of the craft to its maximum average speed and evaluate this against the expected acceleration. Survey and Trials Form 2B is to be completed for this activity.
- e. High Speed Maneuverability Trial: A Trial to establish the maneuverability of the craft at its planing speed. **Survey and Trials Form 2C** is to be completed for this activity.
- f. Endurance and Fuel Consumption Trial: A Trial to establish the endurance and fuel consumption at its planing speed. **Survey and Trials Form 2D** is to be completed for this activity.
- g. Sea Keeping Trial: A Trail to establish the sea keeping abilities of the craft.
 Survey and Trials Form 2E is to be completed for this activity.
- h. Bollard Pull: A Trial to establish the load produced by the boat's propulsion. **Survey and Trials Form 2F** is to be completed for this activity.

Acceptable material state shall be defined as;

- Equipment or system in full working order;
- No damage that will impact or impede full and safe working use of equipment or system;
- No installation of equipment or adjacent equipment that will impact full and safe working use of the equipment or system.

On completion of the Survey and/or Trial, the Contractor shall notify the Authority of any deterioration that may impact the material state of the Boat or it's equipment and systems. The Contractor shall provide the Authority with a recommendation for rectification to bring it up to an acceptable material state.

On completion of the Survey and/or Trial (and all accepted recommendations have been rectified), the Contractor shall declare that the functionality and performance of the equipment and systems provided as evidence in the Survey and Trials forms will be upheld for the duration of the **12-month Guarantee Period** from completion of the work package unless prior agreement has been obtained.

The trials are to be witnessed by the Authority or Authority's Authorised Representative unless prior agreement has been obtained.

Copies of completed Survey and Trials forms are to be sent to the Authority and originals are to be retained by the Contractor.

CONDITION SURVEY

Survey and Trials form 1A

CONDITION SURVEY (This form covers all craft types)

V 1.1 11/12/2024

Boat Type:

Boat Number:

Date:

The Contractor shall conduct a Condition Survey of the craft using the enclosed form as guidance on areas and equipment to inspect.

The material survey is to be in conjunction with the craft's relevant code (i.e., MGN280/Workboat Code/Grey Code) and craft BR.

NOTE: The enclosed form has been designed to cover all Boats from enclosed wheelhouse craft, open craft, and yachts. Therefore, certain items detailed will be Not Applicable for some craft.

SURVEY SECTIONS

Sections	Item number
Hull	1
Machinery	2
Propulsion & Steering	3
Auxiliary Machinery	4
Electrical	5
Fire Detection/Fire Fighting	. 6
Wheelhouse	7
Open Boat Console	8
Seating	9
Navigation & Communication	10
Mast	• 11
Lifesaving	12
Accommodation	13

Assessment Categories

A330	,33111	ent oategories
	А	Condition satisfactory, no sign of significant deterioration at present
The material condition of the vessel is to be assessed against	В	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:
the following categories	C	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 (i.e., MGN280/Workboat Code/Grey Code).

	Survey Report on I	Vlate	eria	I Co	onditi	on of Vessel
Item	Areas and items to examine		ater ndit B		N/A	Observations and Recommendations
1.	HULL					· .
 1.	Hull External. Confirm the					
	external hull is in good					
	condition. Note any damage					
	and repairs.					
	a. Steel					
	b. Aluminium	-				
	c. GRP/ Composite					
	d. Wood					
2.	Sacrificial Anodes. Confirm all					•
	sacrificial anodes on the hull					
	and external equipment are in					·
	good condition.					
3.	Sea Inlets & Outlets. Confirm					
	in good condition	ļ				
4.	Draught marks. Confirm					
	condition and accuracy.					
5.	Collar - Closed Cell Foam					
	Fender. Confirm in good					
6.	condition. (i.e., ORC craft) RIB Collar - Inflatable. Confirm			<u> </u>		
0.	in good condition.					
7.	Additional Fixed Hull Fenders.			-		
1.	Confirm in good condition.					
8.	Weather Deck. Confirm the					
	external weather deck is in					
	good condition.					·
	a. Steel	,				
	b. Aluminium					
	c. GRP/ Composite					
	d. Wood					
9.	Weather Decks. Confirm non-					
	slip surfaces are in good					·
	condition.					
10.	Weather Deck fittings. Confirm					
	all fittings on the weather deck					
	are in good conditions. (Cleats,					•
	bollards, stag horns etc)	ļ		-		
11.	Lifting Points & Craft Lifting					
	Hooks (i.e., Henriksen).					
	Confirm are in good condition					
	and where applicable hooks mechanism are in date. Check					,
	load test certificates.					
12.	Freeing ports. Confirm clear of	-				
14.	obstruction.					

13.	Anchor and Cable warp.					
	Confirm in good condition.					
14.	Air Pipes. Confirm height					
	above deck and means of					
	closure with provision to					-
	prevent overpressure.					
15.	Watertight Doors. Confirm					
10.	condition, can be opened both					
	sides and secure space					
	watertight.					
16.	Watertight Hatches. Confirm					
10.			'			
	condition and secure space					
4	watertight.					
17.	Fire Hatches. Confirm are in a					
	good condition.		ļ			
18.	Fire Flaps. Confirm are in a					,
	good condition.					
19.	Hull Internal. Confirm the					
	internal hull is in good		1			
	condition. Note any damage					
	and repairs.					
20.	Confirm the Bilge area is in a					
	clean condition.					
21.	Deckhead. Confirm deckhead					
	is in good condition.				-	
22.	Bulkheads. Confirm all					
	bulkheads are in good					
	condition.					
23.	Internal Fire Doors & Hatches.					
	Confirm are in a good					·
	condition.					
24.	Sea Inlets & Discharges					
	Valves. Confirm shut off or					
	non-return valves operate					
	freely.					
25	Ventilators. Confirm operate		1	<u> </u>	-	
25.	•		1			
	freely.	<u> </u>	-	-		
26.	Buoyancy Tanks. Confirm are					
	in a good condition			-	-	
27.	Ballast Tanks. Confirm are in			1		
	good condition.				-	
28.	Fuel Tanks. Confirm are in					
	good condition.	-				
29.	Skylights. Confirm are in good					
	order and can be closed from					
	the outside.					
30.	Portholes. Confirm are in good					
	condition.					
31.	Authorised hull modifications.					·
	Confirm any modifications					
	since the last survey are in					
	good condition.					
32.	Unauthorised hull	1				
٥٤.	modifications. Confirm no					
L	mounications. Committee					

	unauthorised modifications					
	i '					
	have taken place since the last		-			
	survey.			!		
2.	MACHINERY					
1.	Craft with in-board Main					
	Engines - Machinery space.					
	Confirm the space is clean,					
	tidy, free of clutter. Signage is					
	clear. Escape routes clearly					
	signed.					
2.	Craft with in-board Main					
	Engines. Confirm the engines					
	are in a good condition and					. ·
	securely mounted with guards,					·
	exhausts, fuel lines securely					
	installed.					
3.	Out-Board Motor Craft. For					
	craft with OBM, confirm					·
	securing, fuelling and control					
	systems are in good condition.					
4.	Out-Board Motor Craft with					
	assigned OBMS. Confirm the					
	OBM and propeller are in good					
	condition.	,				
5.	Remote stops installed and					
	functional.					·
6.	Main Fuel. Check the					
	following:					
	a. Type of fuel					
	b. Stowage					
	c. Signage					
	d. Shutoffs					
	e. Fuel filtering					
	arrangements					
	f. Fuel filling					
	arrangements.					
	g. Fuel tank vents and					
	associated pipework.					
7.	Fuel Pipework. Confirm					
	pipework is in a good condition					
	and of the right material and					·
	secure.					
8.	Valves. Confirm remote means					
	of closing valves on tanks that					
	contain oil fuel, lubricating oil		,			
	and other flammable oils, and					
	valves operate freely.					
9.	Tanks for petrol engine craft.					,
	Confirm a suitable approved					
	hydrocarbon gas detector fitted					
	located under or adjacent to				1	
	tank. Confirm no electrical					
	equipment residing in the					
	1 Squipmont rootaling in the	L	1		J	

		1				
	vapour area, or are ignition					
	protected.					
10.	Exhaust pipework. Confirm					
	pipework is in a good condition					
	of the right material and					
	secure.					
11.	Engine cooling system.					·
	Confirm filter and seacock					
	isolation in good condition and					
40	function correctly.					
12.	Fans. Machinery spaces and					
	battery boxes if fitted. Confirm	,				·
40	operation.			1		
13.	Compressed air. Confirm					
	system is in a good condition.					
	Check calibration of safety					
	valves.			-		3
14.	Bilge Pumps Powered.					
	Confirm are in a good					
	condition, free from obstruction and function correctly (ie					
	Electrical powered pumps)					•
15.	Bilge Pumps Manual. Confirm					
15.	all hand operated bilge pumps					
	in a good condition, free from					
	obstruction and function					·
	correctly.					
16.	Bilge Alarms. Confirm all work		 			7
10.	correctly.					
17.	Pumps Fuel transfer. Confirm					•
'''	in good operating condition.					
18.	Pumps Bilge. Confirm in good					
10.	operating condition. (Electrical					· ·
	and manual pumps.)					
19.	Pumps Ballast, Confirm in					
10.	good operating condition.					
20.	Hydraulic system. Confirm in					
20.	good condition without leaks.					
3.	PROPULSION AND STEERING	<u> </u>	1.7			
J.	THO GEORIAN STEERING	•'				
1.	Propulsion shafts. Confirm in	T	1	T		,
'.	good condition and exposed	,				
	shafts are guarded (Including					
	Cardan shaft)					
2.	Steering Gear. Confirm in a					
	good condition.					
3.	Propulsion. Confirm in a good				-	
J.	condition.					1
	a. Propeller (Open)		-			
	b. Propeller (Enclosed.)		+	-		
-	c. Water Jet		-	-		
1	AUXILIARY MACHINERY					
4.	AUXILIANT WACHINERT					

						T	 	
1.	Ramps. Confirm in good order							
	and functions correctly.		1					
	Confirm remote controls.						 	
2.	Anchor windlass. Confirm in							
2.	good order and functions			.				
	correctly. Confirm remote							
	control.						 	
3.	Winches. Confirm in good							
	condition. Confirm remote							
	control.							
5.	ELECTRICAL							
		:					 	
1.	Alternators. Confirm are in a							
	good condition, securely							
	mounted, fitted with secure							
	quards							
	Generators. Confirm are in a			-				
2.								
	good condition, securely							
	mounted, fitted with secure							
	guards, exhausts, fuel lines.						 	
3.	Remote stops installed and							
	functional.						 	
4.	Batteries. Confirm are in a							
٦.	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							
		-	-	-			 	
5.	Inverters. Confirm are in a							
	good condition		_				 	
6.	Distribution Boards. Confirm							
	are in a good condition.,			_			 	
7.	Electrical cables. Confirm are							
'.	in a good condition and all							
	cables securely clipped and							
							•	
	terminated.	-	_		-			
8.	Sockets and Shore Supply							
	connectors. Confirm are in							
	good condition.							
9.	Lighting. Confirm are in a good		ľ		-			
•	condition, provide adequate							
	lighting for all areas of the							
	craft.	10.10		ļ				
6.	FIRE DETECTION/FIRE FIGHT	ING	j					
1.	Fire Plan. Confirm the craft							
	has a fire plan.							
	Had a mo plant							

					•	
2.	Fire Detectors. Confirm in					
	good condition and comply					
1	with the fire-plan.					
3.	Fire Alarms. Confirm in good					
	condition and comply with the					
	fire-plan.					
4.	Fire extinguishers. Confirm the					
7.	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	1				
	d. Water		ļ			
	e. Blanket					
	f. Fire Bucket					
5.	Fixed firefighting systems for					
	machinery spaces (Pyrogen					
	etc.). Confirm the system is in		1			
1	good condition and in-date.					
7.	WHEELHOUSE					
1.	Structure. Confirm the outer					
'.	structure is in good condition.					
	a. Steel/Armour protection	 			<u> </u>	
	b. Aluminium		 	-	-	
		-	+	 		
	c. GRP/ Composite	+		-		
	d. Wood		-	-		
2.	Skylights. Confirm are in good					
	order and can be closed from					
	the outside.		<u> </u>			
3.	Windows. Confirm are in good					
	condition.					
4.	Window Wipers and water jets.					
	Confirm in good condition					
5.	Wheelhouse Doors. Confirm					
	are in good condition and able					
	to operate from both sides.					
6.	Craft Controls. Confirm all craft					
0.	steering and engine controls					
	are in a good condition.	.				
	(Steering system, throttle, and					
	gear controls etc)					
7		-	-	-		
7.	Craft Machinery					
	Instrumentation Alarms					
	Indication. Confirm the					
	instrumentation in the					,
	wheelhouse are in good					
	condition.					·
	a. Engine Instrumentation					
L				•		

b. Auxiliary systems indication. (i.e., generators) c. Auxiliary systems	
generators) c. Auxiliary systems	
c. Auxiliary systems	
c. Auxiliary systems	
	i
Alarms	
d. Steering Indication (i.e.,	
rudder angle etc)	
e. Propulsion and Trim	
Equipment indication.	
f. Fire Alarms	
g. Bilge Alarms	
h. Engine Alarms	
8. OPEN BOAT CONSOLES	
Console. Confirm the console	
structure is in good condition	
and secure to the craft.	
	-
2. Craft Controls. Confirm all craft	
steering and engine controls	
are in a good condition.	
(Steering system, throttle, and	
gear controls etc)	
3. 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. Engine Alarms	
9. SEATING	
Non shock mitigation seating:	
Confirm in good condition and	
secured to craft.	•
Shock mitigation seating:	
Confirm in good condition and	
secured to cräft.	
10. NAVIGATION AND COMMUNICATION	
1. Navigation equipment. Confirm	
the correct operation and	
condition of the following:	
a. Compass Gyro	
b. Compass Fluxgate	
c. Compass GPS	
d. Compass Magnetic	
	3
e. Secondary back up	
compass	

	f. Deviation cards for the						
	**		i				
	magnetic compasses.						
	g. Pelorus					_	
	h. Radar					_	
	i. GPS						
	j. ECDIS (using UKHO						
	charts)						
	k. Chart plotter (using						
	commercial charts -						
	Navionics, Blue View						•
	etc)						
	I. Automatic Identification						
	System (AIS)						
	Denth counder	 	1-				
	m. Depth sounder	-	-			_	
	n. Speed and distance						
	indicator	-	-				
	 Voyage data recorder 		-	-			
,	p. Wind speed and						
	direction indicator						
	q. Navtex						
	r. Navigation Lights.					,	
	s. Navigation Shapes	-					
	t. Radar reflector						
	u. Horn	T .					
		-					
	v. Signalling Lamp	-					
2.	Internal communications.				-		
3.	VHF DSC Radio. Confirm in						
	good condition and with						
	correct MMSI loaded and						
	licence.						
4.	VHF handheld Radios.			1		i	
4.	VHF handheld Radios.						
4.	VHF handheld Radios. Confirm in good condition and						
	VHF handheld Radios. Confirm in good condition and charged.						
4.	VHF handheld Radios. Confirm in good condition and charged. MAST						
	VHF handheld Radios. Confirm in good condition and charged.						
11,	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts						•
11,	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights,						•
11,	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment						•
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition.						•
11,	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all						•
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast						
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna,						
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good						
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good condition.						
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good condition. Yachts. Mast Sailing. Confirm						
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good condition. Yachts. Mast Sailing. Confirm all mast for sails and						
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good condition. Yachts. Mast Sailing. Confirm						
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good condition. Yachts. Mast Sailing. Confirm all mast for sails and						
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good condition. Yachts. Mast Sailing. Confirm all mast for sails and associated fittings are in good						
11. 1. 2. 3.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good condition. Yachts. Mast Sailing. Confirm all mast for sails and associated fittings are in good condition. LIFESAVING						
11.	VHF handheld Radios. Confirm in good condition and charged. MAST Mast. Confirm all masts carrying navigation lights, antenna or other equipment are in good condition. Mast Equipment. Confirm all equipment on the mast (navigation lights, antenna, radar scanner) are in good condition. Yachts. Mast Sailing. Confirm all mast for sails and associated fittings are in good condition.						

	fill and the ond	\neg					
	of the vessel type and			- 1			
	passenger carriage.						
	If these items are not held on		1				
	board, state what						
Ì	arrangements are made.				 	 	
	a. Lifejackets					 	
	b. Life Rafts					 	
	c. Life Rafts Hydrostatic						
	releases				 		
	d. Lifebuoys				 	 	
	e. Man Overboard	l					
	recovery		1			 	
	f. Parachute flares				 	 	
	g. Handheld flares					 	
	h. Line Throwing						
	apparatus					 	
	i. Waterproof torch					 	
	i. Medical Kit						
	k. EPIRB						
	I. SART						
13.	TON.						
13.				· -	 		
1.	Accommodation area. Confirm						
١.	the area is in good condition						
	and free of clutter. Ensure the						
	2 means of escape a clear to						
	use and appropriately signed.					 	
2.	Smoke detectors. Confirm the						
۷.	space has been fitted with Fire						
	Detectors and Alarms.						
	Galley. Confirm all appliances						
2	Galley. Committee an apprent						
3.	are in good condition.						
	are in good condition.	+			1		
3.	are in good condition. Toilet. Confirm the toilet is in						
	are in good condition.						

.

	General Boat Condition	
The	material condition of the vessel is considered as:	
А	Condition satisfactory, no sign of significant deterioration at present	
В	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.	
C	Deterioration/unsatisfactory condition compromising seaworthiness of vessel evident.	:

<u> </u>	<u>Name</u>	Olmbu S	
	Signature		
	urvey Conducted By		