

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

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

Version Control

Date Issued	Version	Author	Reason for Change
16 October 2023	1.0		Initial release
11 November 2024	1.1		Updates due to additional Survey and Trial forms creation

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

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

Assessment Categories

Assessment Categories									
	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 conin	unction	with the craft's relevant and (i.e.							

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

tem	Areas and items to examine	Cond	erial dition	N/A	Observations and Recommendations
1.	HULL				
1.	Hull External. Confirm the		T		
	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				
4.	Draught marks. Confirm				
	condition and accuracy.				•
5.	Collar - Closed Cell Foam				,
	Fender. Confirm in good				
	condition. (i.e., ORC craft)				
6.	RIB Collar - Inflatable. Confirm				
_	in good condition.				
7.	Additional Fixed Hull Fenders.				
0	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.				
0.			-		
٥.	Weather Deck fittings. Confirm				
	all fittings on the weather deck				
	are in good conditions. (Cleats, bollards, stag horns etc)				
1.	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.				
	Freeing ports. Confirm clear of				
	obstruction.				•

40		·		 		
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	1				
	condition, can be opened both			Ì		
	sides and secure space					
	watertight.					
16.	Watertight Hatches. Confirm	-	-			
	condition and secure space				·	
	watertight.					
17.	Fire Hatches. Confirm are in a	-	-	 1		
'''	good condition.					
18.		-				
10.	Fire Flaps. Confirm are in a					
10	good condition.		-			
19.	Hull Internal. Confirm the					
	internal hull is in good					
	condition. Note any damage					
	and repairs.					
20.	Confirm the Bilge area is in a					
	clean condition.	<u> </u>				
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				·	İ
	non-return valves operate					
	freely.					
25.				 		
25.	Ventilators. Confirm operate					
26	freely.			 		
26.	Buoyancy Tanks. Confirm are					
	in a good condition					
27.	Ballast Tanks. Confirm are in					
	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.					
51.	Confirm any modifications					
	since the last our covers !-					
	since the last survey are in	-		-		
- 00	good condition.					
32.	Unauthorised hull					
	modifications. Confirm no					

	unauthorised modifications				T		7.	
					-			
	have taken place since the last survey.							
2.	MACHINERY			Щ.				
-	WIACI IINEK I							
1.	Craft with in-board Main	Т	·	-	<u> </u>	:	<u> </u>	
	Engines - Machinery space.							
	Confirm the space is clean,							
	tidy, free of clutter. Signage is		1					
	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							
4.	systems are in good condition. Out-Board Motor Craft with			_				
7.	assigned OBMS. Confirm the							
	OBM and propeller are in good							
	condition.							al .
5.	Remote stops installed and	-						
	functional.							
6.	Main Fuel. Check the		-			_		
	following:		l					
	a. Type of fuel			1-				
	b. Stowage							4.
	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							
0	Secure.							
8.	Valves. Confirm remote means						-	
	of closing valves on tanks that							,
	contain oil fuel, lubricating oil							
	and other flammable oils, and			·				
9.	valves operate freely.							
ອ.	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							
	equipment residing in the							

	-	,				
	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					
	function correctly.					
12.	Fans. Machinery spaces and					
	battery boxes if fitted. Confirm					
	operation.					
13.	Compressed air. Confirm					
	system is in a good condition.					
	Check calibration of safety					
	valves.			ļ		
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	1				
10.	all hand operated bilge pumps					
	in a good condition, free from			-		
	obstruction and function					
	correctly.					·
16.	Bilge Alarms. Confirm all work					
	correctly.					
17.	Pumps Fuel transfer. Confirm					
	in good operating condition.					
18.	Pumps Bilge. Confirm in good					
	operating condition. (Electrical					·
	and manual pumps.)					
19.	Pumps Ballast. Confirm in					
	good operating condition.					
20.	Hydraulic system. Confirm in					
	good condition without leaks.					
3.	PROPULSION AND STEERING			·		
						,
1.	Propulsion shafts. Confirm in					
	good condition and exposed					
	shafts are guarded (Including					
	Cardan shaft)					
2.	Steering Gear. Confirm in a					
	good condition.					
3.	Propulsion. Confirm in a good					_
	condition.					
	a. Propeller (Open)					
	b. Propeller (Enclosed.)					
	c. Water Jet					
4.	AUXILIARY MACHINERY		-			
						· · · · · · · · · · · · · · · · · · ·

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1.	Ramps. Confirm in good orde	-		7			7			
	and functions correctly.									
	Confirm remote controls.									
2.		-	_							
	good order and functions									
	correctly: Confirm remote									
	control.									
3.			`							
3.	good and a good									
	condition. Confirm remote									
	control.									
5.	ELECTRICAL						· ·	-		
1.	Alternators. Confirm are in a				<u> </u>					
1 '	good conditions. Confirm are in a									
	good condition, securely									
	mounted, fitted with secure		-							
-	guards									
2.	Generators. Confirm are in a									
	good condition, securely									
	mounted, fitted with secure									
	guards, exhausts, fuel lines.									
3.	Remote stops installed and								,	
	functional.									
4.	Batteries. Confirm are in a								 	
	good condition, securely									
	mounted in a container.					*				
	terminals covered to be									1
	electrically safe. Unobstructed									l
	ventilation for lead acid									
	batteries.									
	a. Engine Start Batteries		-		-				 	
	b. Craft Power Batteries	-		_	-		,			
		 	-		_					
	The same conting									
E	Batteries									
5.	Inverters. Confirm are in a								 	
<u> </u>	good condition									
6.	Distribution Boards. Confirm								 	-
	are in a good condition.,									
7.	Electrical cables. Confirm are								 	
ļ	in a good condition and all									
	cables securely clipped and									
	terminated.									
8.	Sockets and Shore Supply	 							 	
	connectors. Confirm are in									
	good condition.				l					
9.				-						
٠.	Lighting. Confirm are in a good									
	condition, provide adequate									
	lighting for all areas of the									
	craft.									
6.	FIRE DETECTION/FIRE FIGHTI	NG								\dashv
<u>.</u> 1										
1.	Fire Plan. Confirm the craft					,		···········	 -X	-
	has a fire plan.									
									,	

2.	Fire Detectors. Confirm in									
	good condition and comply									
	with the fire-plan.									
3.	Fire Alarms. Confirm in good									_
	condition and comply with the						•			
	fire-plan.									
4.	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									\dashv
	b. Dry Powder									٦
	c. Foam AQQ						,			1
	d. Water									\dashv
	e. Blanket									\dashv
	f. Fire Bucket									+
5.	Fixed firefighting systems for									\dashv
	machinery spaces (Pyrogen									
	etc.). Confirm the system is in							٠		
-	good condition and in-date.									
7.	WHEELHOUSE									1
-	Ct									
1.	Structure. Confirm the outer									1
	structure is in good condition.			<u> </u>						
-	a. Steel/Armour protection									1
	b. Aluminium									1
	c. GRP/ Composite d. Wood	<u> </u>	_	_						
2.	1.000	<u> </u>		,						1
۷.	Skylights. Confirm are in good								,	
	order and can be closed from the outside.									
3.										
J.	Windows. Confirm are in good condition.			ŀ						
4.										l
7.	Window Wipers and water jets.									l
5.	Confirm in good condition		ļ	<u> </u>						
J.	Wheelhouse Doors. Confirm									
	are in good condition and able									
6.	to operate from both sides. Craft Controls. Confirm all craft			ļ						
0.	steering and engine controls			.						
	are in a good condition.									
	(Steering system, throttle, and									
	gear controls etc)									
7.	Craft Machinery									
	Instrumentation Alarms									
	Indication. Confirm the				ı					
	instrumentation in the									
	wheelhouse are in good			`		į				
	condition.									
	a. Engine Instrumentation									

	 b. Auxiliary systems 					
	indication. (i.e.,					
	generators)	·				
	c. Auxiliary systems					
	Alarms					
	d. Steering Indication (i.e.		_	<u> </u>		
	rudder angle etc)	'				
	e. Propulsion and Trim		-			
	Equipment indication.					t .
	f. Fire Alarms	-				
			-			
	g. Bilge Alarms					
-	h. Engine Alarms					
8.	OPEN BOAT CONSOLES		·			
1.	Console. Confirm the console					
	structure is in good condition					
<u> </u>	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					
1.	Non shock mitigation seating:		Т			
	Confirm in good condition and					
	secured to craft.					
2.	Shock mitigation seating:					
-	Confirm in good condition and					
	secured to craft.					
10.	NAVIGATION AND COMMUNIC	<u> </u>				
10.	NAVIGATION AND COMMUNIC	AHO	N			
1.	Navigation oguisment Care	·	- T			
۱۰	Navigation equipment. Confirm					
	the correct operation and					
	condition of the following:					
	a. Compass Gyro					
	b. Compass Fluxgate					
	c. Compass GPS					
	d. Compass Magnetic					
	e. Secondary back up					
	compass					

Γ		1	-T	_	1	
	f. Deviation cards for the					
	magnetic compasses.					٨
	g. Pelorus					
	h. Radar					
	i. GPS					
	j. ECDIS (using UKHO	1				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	charts)	1				
	k. Chart plotter (using	-	1	 		
	commercial charts -					
	Navionics, Blue View					•
	etc)					
	I. Automatic Identification	+ `		ļ		
	System (AIS)		-	-		
	m. Depth sounder			ļ	-	
	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	-				
	v. Signalling Lamp		 			
2.	Internal communications.					
3.	VHF DSC Radio. Confirm in		-			
٥.	l .					
	good condition and with	Ì				·
	correct MMSI loaded and					·
	licence.	 				
4.	VHF handheld Radios.					
	Confirm in good condition and					
	charged.					
11.	MAST					
			-			
1.	Mast. Confirm all masts					
	carrying navigation lights,			İ		
	antenna or other equipment					
	are in good condition.					
2.	Mast Equipment. Confirm all					
	equipment on the mast					
	(navigation lights, antenna,					
	radar scanner) are in good					
	condition.					
3.	Yachts. Mast Sailing. Confirm					
	all mast for sails and					
	associated fittings are in good					'
	condition.					
10	LIFESAVING	<u> </u>	L	<u> </u>	<u> </u>	
12.	LIFESAVING					
1.	Confirm the following are in	ĺ		T		
'						
	good condition, in date and					
	comply with the requirements		1	1		

	of the vessel type and	7				
	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		-	+		
	I. SART			+		
13.	ACCOMMODATION	ــــــ		ــــــــــــــــــــــــــــــــــــــ		
1.	Accommodation area. Confirm	T	T	T -		
	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			-		
	space has been fitted with Fire	·				
	Detectors and Alarms					
3.	Galley. Confirm all appliances		-			
	are in good condition.					
4.	Toilet. Confirm the toilet is in					
	good condition and associated					
	seacock operate freely.					
			- 1			i

	General Boat Condition					
The material condition of the vessel is considered as:						
Α	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.					

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