



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

Version 1.1 11 November 2024

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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 Trial	S
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	<u>Item number</u>
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

•		
	Α	Condition satisfactory, no sign of significant deterioration at present
The material condition of the	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.
vessel is to be assessed against the following categories	С	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	Materia	ıl Co	nditi	on of Vessel
Item	Areas and items to examine	Mater Condit A 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				
4.	Draught marks. Confirm condition and accuracy.				
5.	Collar - Closed Cell Foam				
0.	Fender. Confirm in good	·			
	condition. (i.e., ORC craft)				
6.	RIB Collar - Inflatable. Confirm in good condition.				
7.	Additional Fixed Hull Fenders. Confirm in good condition.				
8.	Weather Deck. Confirm the			*	
	external weather deck is in				
	good condition.				
	a. Steel		+-+		
	b. Aluminium		+		·
	c. GRP/ Composite		<u> </u>		
	d. Wood Weather Decks. Confirm non-				
9.	_				
	slip surfaces are in good				
40	condition.				
10.	Weather Deck fittings. Confirm				
	all fittings on the weather deck				,
	are in good conditions. (Cleats,				
· ·	bollards, stag horns etc)	+	1		
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	Confirm in good condition.									
15	Air Pipes. Confirm height above deck and means of				1					
15	above deck and means of	1.						 		
	I .			.						
			,							
	prevent overpressure.									
16										
16	condition, can be opened both sides and secure space									
16	watertight.									
16	. Watertight Hatches. Confirm									
	condition and secure space									
17	watertight. Fire Hatches. Confirm are in a		-		-			 		
17	good condition.									
18										
	good condition.	-						 		
19										
	internal hull is in good condition. Note any damage									
	and repairs.							•		
20	Confirm the Bilge area is in a									
	clean condition.	ļ		-				 		
21	 Deckhead. Confirm deckhead is in good condition. 									
22			+			\dashv		 	· · · · · · · · · · · · · · · · · · ·	
	bulkheads are in good									
	condition.	ļ	<u> </u>				<u>-</u>			
23	}									
	Confirm are in a good condition.									
24										
	Valves. Confirm shut off or									
	non-return valves operate									
25	freely. Ventilators. Confirm operate	-		_	-			 		
20	freely.							 		
26	. Buoyancy Tanks. Confirm are		1							
	in a good condition				-	-		 		
27	 Ballast Tanks. Confirm are in good condition. 									
28										
	good condition.							 		
29					1					
	order and can be closed from the outside.									
30										
_	condition.							 		
3′										
	Confirm any modifications									
	since the last survey are in good condition.									
32				+	-					
- 52	modifications. Confirm no									

	1 1 125 17		T			
	unauthorised modifications					
	have taken place since the last					
	survey.					
2.	MACHINERY					i
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			-		
7.	assigned OBMS. Confirm the					+
	OBM and propeller are in good					ŀ
	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					
	tank. Confirm no electrical					
	equipment residing in the	<u> </u>	<u></u>	l	L	

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	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	Ì				
	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.					
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					
10.	all hand operated bilge pumps		1			
	in a good condition, free from					
	obstruction and function					
	correctly.					
10	Bilge Alarms. Confirm all work					S
16.	1 =					
47	correctly. Pumps Fuel transfer. Confirm	<u> </u>				
17.						
	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.			<u> </u>	1	
3.	PROPULSION AND STEERING					
	1	1		Т	· .	·
1.	Propulsion shafts. Confirm in					
	good condition and exposed					
	shafts are guarded (Including		1			
	Cardan shaft)		-	ļ		
2.	Steering Gear. Confirm in a					
	good condition.					
3.	Propulsion. Confirm in a good					·
	condition.			<u> </u>		·
	a. Propeller (Open)					
	b. Propeller (Enclosed.)					
-	c. Water Jet	1	1	†		
- 1	AUXILIARY MACHINERY			1	L	
4.	AUNILIAN I WACIIINLIN			· ·		*

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1.	Ramps. Confirm in good order							
	and functions correctly.							
	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							
0.								
1.	Alternators. Confirm are in a							
'-						1		
	good condition, securely							
	mounted, fitted with secure							
	guards						 	
2.	Generators. Confirm are in a							
	good condition, securely					1		
	mounted, fitted with secure							
	guards, exhausts, fuel lines.							
3.	Remote stops installed and							
٥.	functional.							
4.	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							
			ļ	 				
	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.	ļ	-	-				
8.	Sockets and Shore Supply		1					
*	connectors. Confirm are in							
	good condition.						 	
9.	Lighting. Confirm are in a good							
0.	condition, provide adequate							
	lighting for all areas of the							
	craft.	NIC					 	
6.	FIRE DETECTION/FIRE FIGHTI	NG						
		1		Τ	1		 	
1.	Fire Plan. Confirm the craft							
	has a fire plan.				<u> </u>		 	<u> </u>
		_						

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2.	Fire Detectors. Confirm in						
	good condition and comply						
	with the fire-plan.						•
`3.	Fire Alarms. Confirm in good						
J.	condition and comply with the						
	· •						
	fire-plan.						
4.	Fire extinguishers. Confirm the					1	
	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						
	e. Blanket						
	f. Fire Bucket						
-							
5.	Fixed firefighting systems for						•
	machinery spaces (Pyrogen						
	etc.). Confirm the system is in						
	good condition and in-date.						
7.	WHEELHOUSE						•
1.	Structure. Confirm the outer						
'	structure is in good condition.					-	
	b. Aluminium						
	c. GRP/ Composite						
	d. Wood						
2.	Skylights. Confirm are in good						
	order and can be closed from						
	the outside.		'			•	
2	Windows. Confirm are in good	 			<u> </u>		
3.							
	condition.				<u> </u>		
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)		<u> </u>				
7.	Craft Machinery	-					
	Instrumentation Alarms						
,	Indication. Confirm the						
	instrumentation in the						
	wheelhouse are in good						
	condition.						
	1 (3)[(1)[(0)]	1	1 .	I	I	I.	
	a. Engine Instrumentation	_					

				г	Ι	I .
	b. Auxiliary systems					
	indication. (i.e.,					
	generators)		-			
	c. Auxiliary systems					
	Alarms					
						•
	d. Steering Indication (i.e.,					
	rudder angle etc)					
	e. Propulsion and Trim				1	
	Equipment indication.					
	f. Fire Alarms					
	g. Bilge Alarms					
	h. Engine Alarms					
	OPEN BOAT CONSOLES		<u> </u>	I	J	
8.		Г.	T	Τ	ĭ	
1.	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	ŀ				
	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			ļ		
	f. Engine Alarms		<u></u>			
9.	SEATING					
					,	
1.	Non shock mitigation seating:					
	Confirm in good condition and					
	secured to craft.					
2.	Shock mitigation seating:		<u> </u>	<u> </u>		
 	Confirm in good condition and					
<u></u>	secured to craft.	A T1		<u> </u>		
10.	NAVIGATION AND COMMUNIC	AH	אוע			
			ŀ		1	T
1.	Navigation equipment. Confirm					
	the correct operation and					
	condition of the following:					en .
	a. Compass Gyro					
	b. Compass Fluxgate	1				-
	c. Compass GPS		Ť	1	-	
		1	 . 	1		
-	d. Compass Magnetic	-	-	-		
	e. Secondary back up			1		,
	compass			1		

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	f. Deviation cards for the					
	magnetic compasses.					
	g. Pelorus	ļ				
	h. Radar					
	i. GPS					
	j. ECDIS (using UKHO					
	charts)					
	k. Chart plotter (using					
	commercial charts -					,
	Navionics, Blue View					
	etc)	İ				
	Automatic Identification			-		
	System (AIS)					,
	m. Depth sounder	<u> </u>				
	n. Speed and distance	-				
	indicator					·
	o. 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					
	good condition and with					
	correct MMSI loaded and					
	licence.					
4.	VHF handheld Radios.					
7.	Confirm in good condition and					
	charged.					,
11.	MAST		I			
11.	WASI					
1.	Mast. Confirm all masts	T			1	
'	carrying navigation lights,					
	antenna or other equipment					
•	are in good condition.					
<u> </u>	Mast Equipment. Confirm all					
2.				•		
	equipment on the mast					
	(navigation lights, antenna,					
	radar scanner) are in good					
	condition.	ļ				
3.	Yachts. Mast Sailing. Confirm					
	all mast for sails and					
	associated fittings are in good					
	condition.					
12.	LIFESAVING					
1.	Confirm the following are in		П			
''	good condition, in date and					·
	comply with the requirements					
L	comply with the requirements	<u> </u>	1			

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						T
	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					
	I. SART					
13.	ACCOMMODATION					
		,	,			
1.	Accommodation area. Confirm					
	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.					

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.				
С	Deterioration/unsatisfactory condition compromising seaworthiness of vessel evident.				

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

Comments: