



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

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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 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

,	A	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 equi-		Not Applicable

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

Item	Areas and items to examine	Mate Condi A B		N/A	Observations and Recommendations
1.	HULL				
					
١.	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				
	Fender. Confirm in good				
6.	condition. (i.e., ORC craft)				
U. .	RIB Collar - Inflatable. Confirm				
7.	in good condition.				*
·	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				
	d. Wood				
9.	Weather Decks. Confirm non-				
	slip surfaces are in good				
	condition.				•
0.	Weather Deck fittings. Confirm		_		
	all fittings on the weather deck				
	are in good conditions. (Cleats				
	pollards, stag horns etc)				
1.	Lifting Points & Craft Lifting				
	Hooks (i.e., Henriksen).				
	Confirm are in good condition				
6	and where applicable hooks				
	mechanism are in date. Check				
<u>'</u>	oad test certificates.				
「	reeing ports. Confirm clear of obstruction.				

13	The same cable walp.					
-	Confirm in good condition.					
14	The second of the second secon				Ţ.,	
	above deck and means of					
	closure with provision to	'		İ		
	prevent overpressure.			-		
15.						
	condition, can be opened both					
	sides and secure space				,	
	watertight.					•
16.	The state of the s					
	condition and secure space					
	watertight.					·
17.	The state of the s					
	good condition.					
18.	The composition are in a					
	good condition.					
19.	The street of th					
	internal hull is in good					
	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					
	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.			_		
	Confirm any modifications					
	since the last survey are in					
	good condition.					
32.	Unauthorised hull	_	-	-		
	modifications. Confirm no					

					1			
	unauthorised modifications	,						
	have taken place since the last							
	survey.							
2.	MACHINERY							
1.	Craft with in-board Main							
	Engines - Machinery space.							
	Confirm the space is clean,		İ					
	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	T						
	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			1				
	functional.							
6.	Main Fuel. Check the			-				
	following:							
	a. Type of fuel							
	b. Stowage		1	-				
	c. Signage							
	d. Shutoffs	 	-	-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	e. Fuel filtering			<u> </u>				
	arrangements							
	f. Fuel filling		-		ļ			
	arrangements.							
			-	ļ			,	 1
7.	associated pipework.							
7.	Fuel Pipework. Confirm							,
	pipework is in a good condition							l
	and of the right material and		1					
	secure.		ļ					
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							
			·			I		

	vapour area, or are ignition									
40	protected.									
10.	Promote Programme Committee									
	pipework is in a good condition		1							
	of the right material and									
44	secure.								•	
11.										
	Confirm filter and seacock									
	isolation in good condition and									
10	function correctly.									
12.	The state of the s	1.								
	battery boxes if fitted. Confirm									
13.	operation.									
13.	The state of the s									
	system is in a good condition.									
	Check calibration of safety valves.									
14.										
14.	The second of th									
	Confirm are in a good									
	condition, free from obstruction									
	and function correctly (ie						,	,		
15.	Electrical powered pumps) Bilge Pumps Manual. Confirm									
.0.	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				ŕ					
	operating condition. (Electrical									
	and manual pumps.)									
19.	Pumps Ballast. Confirm in									
	good operating condition.			l						
20.	Hydraulic system. Confirm in									
	good condition without leaks.	İ								
3.	PROPULSION AND STEERING					L				
1.	Propulsion shafts. Confirm in	Τ		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			_						
	condition.									
	a. Propeller (Open)			\dashv						
	b. Propeller (Enclosed.)		_	\dashv					•	
	c. Water Jet			+						
4.	AUXILIARY MACHINERY									

1.	Ramps. Confirm in good order						
	and functions correctly.						
	Confirm remote controls.						
2.	Anchor windlass. Confirm in						
	good order and functions						
	correctly. Confirm remote						
u .	control.				1		
3.	Winches. Confirm in good						
	condition. Confirm remote						
	control.						
5.	ELECTRICAL	!		.I			
1.	Alternators. 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						
	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						
J 5.							
6.	good condition						
0.	Distribution Boards. Confirm						
7.	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		T				
	connectors. Confirm are in						
	good condition.					,	
9.	Lighting. Confirm are in a good						
	condition, provide adequate						
	lighting for all areas of the						
	craft.						
6.	FIRE DETECTION/FIRE FIGHTIN	۱G			<u> </u>		
		Ī.Ī			. *		
1.	Fire Plan. Confirm the craft		.				
	has a fire plan.						

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

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	b. Auxiliary systems					
	indication. (i.e.,					
	generators)			İ		
	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		-			
8.	OPEN BOAT CONSOLES	1	<u> </u>	٠		
1.	Console. Confirm the console	r –	T	T		T
'-	structure is in good condition					,
	and secure to the craft.					
2.		ļ				
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:					
	Confirm in good condition and					
	secured to craft.					
2.	Shock mitigation seating:					
۷.	Confirm in good condition and					
	secured to craft.					
10		A : -				
10.	NAVIGATION AND COMMUNICATION	4110	N.			
	Novinction	т		———	,	
1.	Navigation equipment. Confirm					
	the correct operation and					
	condition of the following:					
	a. Compass Gyro					
	b. Compass Fluxgate		-			
	c. Compass GPS					
	d. Compass Magnetic		. 1			
	e. Secondary back up					
	compass					

	f. Deviation cards for the							
	magnetic compasses.							*
	g. Pelorus							
	h. Radar	1						
	i. GPS	1						
	j. ECDIS (using UKHO	+						
	charts)							
	k. Chart plotter (using							
	commercial charts -							
	Navionics, Blue View							
	etc)							
	Automatic Identification							
	System (AIC)							
	System (AIS)							
	m. Depth sounder							
	n. Speed and distance							
	indicator							
	o. Voyage data recorder					-		
	p. Wind speed and		_	_				
	direction indicator					4		
	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							
1	good condition and with							,
	correct MMSI loaded and							
1	licence.	1						
4.	VHF handheld Radios.							
"	Confirm in an all the second							
	Confirm in good condition and							
11.	charged.							
. 11.	MAST			-				
	TM-10 8							
1.	Mast. Confirm all masts							
	carrying navigation lights,							
	antenna or other equipment	*						
	are in good condition							
2.	Mast Equipment, Confirm all		1					
	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							
			1 1					
	condition				1			- 1
12	condition.							
12.	condition. LIFESAVING						· · · · · · · · · · · · · · · · · · ·	
	Condition. LIFESAVING					· · · · · · · · · · · · · · · · · · ·		
12.	Condition. LIFESAVING Confirm the following are in							
	Condition. LIFESAVING							

	of the vessel type and				-		
	passenger carriage.					-	
	If these items are not held on						
	board, state what						
	arrangements						
	arrangements are made.						
	a. Lifejackets				-		
	b. Life Rafts				+		
	c. Life Rafts Hydrostatic		1	_	_		
	releases						
	d. Lifebuoys				+		
	e. Man Overboard	+	-				
	recovery	1			1		
	f. Parachute flares	+	+				
	g. Handheld flares	+			 		
	h. Line Throwing	 			ļ		
	apparatus						
	i. Waterproof torch	-					<u> </u>
	j. Medical Kit	 	-				
	k. EPIRB						
	I. SART						
13.	ACCOMMODATION						
	7.000MMODATION						3
1.	Accommodation area. Confirm	<u> </u>					
	the area is in good condition						
	and free of clutter Ensure the	- 1					
	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.			T			
1.	Toilet. Confirm the toilet is in						· ·
	good condition and					+	
	good condition and associated seacock operate freely.	- 1					
. 1	ocacock operate freely	- 1	- 1	1		1	

2000 2000 2	General Boat Condition	-
Th	e material condition of the vessel is considered as:	
A	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:		
<u>Signature</u>	Survey Conducted B	D ate

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