

Ministry of Defence



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

Version 1.0 16 October 2023

Prepared by:	
Approved by:	
Authorised for issue by:	

Version Control

Date Issued	Version	Author	Reason for Change
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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. Survey and Trials Form 1A is to be completed for this activity.
- b. 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 work package. Survey and Trials Form 2A 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.

Survey and Trials form 1A	(This form covers all craft types)									
Boat Type:	Boat No	umber:								
	shall conduct a Con as and equipment		Survey of the craft using the end ect.	losed form as						
	vey is to be in con oat Code/Grey Co		n with the craft's relevant code (i. I craft BR.	e.,						
			l to cover all Boats from enclosed w as detailed will be Not Applicable for							
SURVEY SEC	TIONS									
Sections			Item number							
Hull			1							
Machinery Propulsion & Ste	erina		34 55							
Auxiliary Machin	uxiliary Machinery 59									
Electrical 63 Fire Detection/Fire Fighting 73										
Wheelhouse 79										
Open Boat Cons	87									
Seating Navigation & Co	mmunication		91 94							
Mast	minumcation		99							
Lifesaving			103							
Accommodation			105							
	Ass	essm	ent Categories							
		A	Condition satisfactory, no sign deterioration at present	of significant						
The material cor vessel is to be as		В	Deterioration evident but not to will immediately compromise th vessel. Monitor for further dete take appropriate remedial action	ne safety of the rioration and						
the following cate		с	Deterioration/unsatisfactory con compromising seaworthiness o							
		N/A	Not Applicable							

Item Areas and items to examine A B Control of the second					ateri Inditi		N/A			vations		
2. Hull External. Confirm the external hull is in good condition. Note any damage and repairs. a. Steel b. A. Uminium c. GRP/ Composite d. Wood 3. Sacrificial Anodes. Confirm all sacrificial anodes on the hull and external equipment are in good condition. 4. Sea infets & Outlets. Confirm in good condition. 6. 6. Draught marks. Confirm in good condition. 6. 6. Collar - Closed Cell Foam Fender. Confirm in good condition. 7. RIB Collar - Inflatable. Confirm in good condition. 6. 8. Additional Fixed Hull Fenders. Confirm in good condition. 7. 8. Additional Fixed Hull Fenders. Confirm in good condition. 9. 9. Weather Deck. Confirm the external weather deck is in good condition. 9. Weather Deck. Confirm non-silp surfaces are in good condition. 10. Weather Decks. Confirm non-silp surfaces are in good condition. 11. Weather Deck. Confirm anota all fittings on the weather deck are in good condition. 12. Lifting Points		Item	Areas and items to examine	2 #5.2					Recom	menua		
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				-+			+					
		13.	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	+		1		
	condition, can be opened both					
	sides and secure space					
	watertight.		·			
17.	Watertight Hatches. Confirm	+				· · · · ·
17.	condition and secure space					
	watertight.					
18.	Fire Hatches. Confirm are in a				· · · · · · · · · · · · · · · · · · ·	
10.					· ·	
- 10	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			1		· ·
	and repairs.	<u> </u>				
21.	Confirm the Bilge area is in a					
	clean condition.					·
22.	Deckhead. Confirm deckhead					
	is in good condition.	ļ				
23.	Bulkheads. Confirm all		•			· ·
	bulkheads are in good					
	condition.					
24.	Internal Fire Doors & Hatches.					
	Confirm are in a good					
	condition.					
25.	Sea Inlets & Discharges					
	Valves. Confirm shut off or	1				
	non-return valves operate					
	freely.					
26.	Ventilators. Confirm operate					
	freely.					
27.	Buoyancy Tanks. Confirm are				:	
	in a good condition					
28.	Ballast Tanks. Confirm are in					
	good condition.					· · · · · · · · · · · · · · · · · · ·
29.	Fuel Tanks. Confirm are in				۰.	
	good condition.					
30.	Skylights. Confirm are in good					
	order and can be closed from				ŀ	, ,
	the outside.					
31.	Portholes. Confirm are in good	, · · ·				
	condition.					
32.	Authorised hull modifications.	1				
	Confirm any modifications					
	since the last survey are in			•		
	good condition.					
33.	Unauthorised hull					
	modifications. Confirm no					· · ·

		unauthorised modifications have taken place since the last survey.							ſ				•	
•	34.	MACHINERY			L									
ŀ	35.	Craft with in-board Main				<u>.</u>								
	50.	Engines - Machinery space. Confirm the space is clean, tidy, free of clutter. Signage is								· .		•		
		clear. Escape routes clearly signed.	<u> </u>										1	
	36.	Engines. Confirm the engines are in a good condition and securely mounted with guards,									ı			
	37.	exhausts, fuel lines securely installed. Out-Board Motor Craft. For	-				· .							
	37.	craft with OBM, confirm securing, fuelling and control systems are in good condition.										,		
	38.	Out-Board Motor Craft with assigned OBMS. Confirm the OBM and propeller are in good		-					、					
	39.	condition. Remote stops installed and functional.		,							• •			
,	40.	Main Fuel. Check the following:		, ,			-							
		a. Type of fuel		+			_							
		b. Stowage		+										
		c. Signage d. Shutoffs												
		e. Fuel filtering	·		1		· · ·							
		arrangements f. Fuel filling	ļ		-									
		arrangements. g. Fuel tank vents and												
	41.	associated pipework. Fuel Pipework. Confirm			<u> </u>	-					,			`
		pipework is in a good condition and of the right material and secure.		. <u>.</u>										
	42.	Valves. Confirm remote means of closing valves on tanks that contain oil fuel, lubricating oil and other flammable oils, and valves operate freely.												•
	43.	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												

							· ·	
							• • • • • •	1
	[vapour area, or are ignition			<u> </u>			7
		protected.				1		
	44.	Exhaust pipework. Confirm						1
		pipework is in a good condition						
		of the right material and						· ·
		secure.						
	45.	Engine cooling system.						1
		Confirm filter and seacock						
		isolation in good condition and					· ·	•
		function correctly.					· .	
	. 46.	Fans. Machinery spaces and						1
		battery boxes if fitted. Confirm				•		
		operation.						
	47.	Compressed air. Confirm	1					1 .
		system is in a good condition.					· ·	
		Check calibration of safety					· .	
		valves.						
	48.	Bilge Pumps Powered.	f		<u> </u>			1
		Confirm are in a good						
		condition, free from obstruction						
		and function correctly (ie						
		Electrical powered pumps)						
	49.	Bilge Pumps Manual. Confirm					· · ·	1
		all hand operated bilge pumps	-					
,		in a good condition, free from			· ·			
		obstruction and function				1		
		correctly.						· .
	50.	Bilge Alarms. Confirm all work		· .				1
•		correctly.					·	
	51.	Pumps Fuel transfer. Confirm]
		in good operating condition.						
	52.	Pumps Bilge. Confirm in good						
		operating condition. (Electrical		1			<i>i</i>	
		and manual pumps.)						
	53.	Pumps Ballast. Confirm in						
		good operating condition.						
	54.	Hydraulic system. Confirm in						
		good condition without leaks.		·	,			
	55.	PROPULSION AND STEERING			·	*.	· · ·	
	56.	Propulsion shafts. Confirm in						7
		good condition and exposed	-					
		shafts are guarded (Including	1	1		р. Т	· · ·	
		Cardan shaft)						
	57.	Steering Gear. Confirm in a			·			
		good condition.						
	58.	Propulsion. Confirm in a good						
, i		condition.						
*		a. Propeller (Open)						
	· · · ·	b. Propeller (Enclosed.)		1	1.		· · · · · · · · · · · · · · · · · · ·	1.
	<u> </u>	c. Water Jet	İ	İ	1			1
	59.	AUXILIARY MACHINERY	<u>ــــــــــــــــــــــــــــــــــــ</u>	·	L	L		-1
	60.	Ramps. Confirm in good order			<u> </u>	~		1
		and functions correctly.	1	1				
		Confirm remote controls.		1				ł
			L	L	L	l	· · · · ·	

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	•						•					
		· · · · · · · · · · · · · · · · · · ·			r———		<u>г</u> -					-7
ſ	61.	Anchor windlass. Confirm in										
		good order and functions						•				
		correctly. Confirm remote	· .									
-		control. Winches. Confirm in good	+								· · ·	-
	62.	condition. Confirm remote										
		control.									·	
-	63.	ELECTRICAL	<u>ا</u>	.1	<u> </u>							
ļ	64.	Alternators. Confirm are in a										
		good condition, securely										
		mounted, fitted with secure							•			•
1		guards					┢───		·			
	65.	Generators. Confirm are in a										
		good condition, securely										
		mounted, fitted with secure guards, exhausts, fuel lines.										
ļ	66.	Remote stops installed and	+		· ·							
	00.	functional.						•				
	67.	Batteries. Confirm are in a	1	1								
.		good condition, securely										
		mounted in a container,										
	× ,	terminals covered to be										
	•	electrically safe. Unobstructed										
		ventilation for lead acid										τ
		batteries. a. Engine Start Batteries	+	+	+		<u> </u>				<u> </u>	
ľ		b. Craft Power Batteries	+		, ,				<u> </u>			-
ľ		c. Navs and Comms	-	-			+-				,	-1
ł		Batteries										
	68.	Inverters. Confirm are in a										
		good condition		<u> </u>								
	69.	Distribution Boards. Confirm				1						
		are in a good condition.		+	+							_
	70:	Electrical cables. Confirm are								•		
		in a good condition and all cables securely clipped and	1									
		terminated.										
•	71.	Sockets and Shore Supply].
		connectors. Confirm are in										
		good condition.		· -				<u> </u>				_
	72.	Lighting. Confirm are in a good										
		condition, provide adequate										
		lighting for all areas of the craft.										~
	73.	FIRE DETECTION/FIRE FIGHT		 i						-,		
	74.	Fire Plan. Confirm the craft								1		
	'¬.	has a fire plan.							_			
	75.	Fire Detectors. Confirm in			1	,	· ·					
,		good condition and comply										
		with the fire-plan.				<u> </u>						
	76.	Fire Alarms. Confirm in good										
		condition and comply with the										
		fire-plan.			_!				 ,	<u> </u>		

					Service Contraction	
77.	Fire extinguishers. Confirm the	1			· •	
	craft is fitted with the right type,	1.83	See.		1.1.1	Sec. Sec.
	size and numbers of		105.0		× - 18 -	
	extinguishers for the relevant	1 31		2.9	W. Michay	
	areas of the craft complying	-		14	131	
	with the fire plan. Confirm in		1. 1. 1.		111	
	date status of all extinguishers.	122			150	
	a. CO2/CO2 with bayonet					
	b. Dry Powder					
A		1117	-			
	c. Foam AQQ					
	d. Water		1	-		
in the	e. Blanket		1		1.1.1	
	f. Fire Bucket		N		and the	
78.	Fixed firefighting systems for					
	machinery spaces (Pyrogen			12.5		
	etc.). Confirm the system is in	19			and the second	and the second se
	good condition and in-date.		12.2		1. 25	
79.	WHEELHOUSE		5			
80.	Structure. Confirm the outer	10.20		1.25		
	structure is in good condition.	19	110			
	a. Steel/Armour protection				C. C. Santa	
	b. Aluminium	1.7.9	- 25		100	1
1.5	c. GRP/ Composite	1		-		
	d. Wood		1	1.1		
81.		-				
01.	Skylights. Confirm are in good order and can be closed from			N.		
			i.	024	and the second	
00	the outside.					
82.	Windows. Confirm are in good	1.1				
	condition.		13. 4		112	
83.	Window Wipers and water jets.			1 2 3		
	Confirm in good condition	1000	C	1		
84.	Wheelhouse Doors. Confirm	1.14			1999	
	are in good condition and able		134		Carlos a	
4.1.19	to operate from both sides.	1.11	1.2	134		
85.	Craft Controls. Confirm all craft	19				
	steering and engine controls	1.2	1.		1.389.50	
	are in a good condition.	1				
	(Steering system, throttle, and	. 16		11		
1 may	gear controls etc)		1	1		
86.	Craft Machinery	in a	- 1			A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT OF A CONTRACT OF
	Instrumentation Alarms					
	Indication. Confirm the		1		Sec. Sec.	
	instrumentation in the		1.00			
	wheelhouse are in good			1000	De la la	
	condition.	120	Sile	1.0	1.1.1	
	a. Engine Instrumentation	1		-	and the st	1
	b. Auxiliary systems					
	indication. (i.e.,		1211		Sector 1	
	generators)	134	1.1	1.		
				14.		
	c. Auxiliary systems				No a	
Charger 20	Alarms	•			0	
	d. Steering Indication (i.e.,	125	121		28 - See	
12-13	rudder angle etc)					

					F	T
	e. Propulsion and Trim					· · · ·
	Equipment indication.			┣		·
	f. Fire Alarms			ļ		·
	g. Bilge Alarms					· · · · · · · · · · · · · · · · · · ·
	h. Engine Alarms					
87.	OPEN BOAT CONSOLES			. ·		
88.	Console. Confirm the console					
,	structure is in good condition					
	and secure to the craft.		ļ ,			
89.	Craft Controls. Confirm all craft					
00.	steering and engine controls					
	are in a good condition.					
	(Steering system, throttle, and			·		
	gear controls etc)					
90.	Craft Machinery					
00.	Instrumentation Alarms					
	Indication. Confirm the	·			1.	
	instrumentation on the console					
	are in good condition.					
	a. Engine Instrumentation		1		<u> </u>	
,	b. Engine Alarms		-	+		
	c. Steering Indication (ie			-	┼	
	rudder angle)		•			
· ·	d. Propulsion and Trim		+	+		
	Equipment indication					
	e. Bilge Alarms			<u> </u>	+	
	f. Engine Alarms	I		_!	<u> </u>	
91.	SEATING	T	1	<u> </u>		·
92.	Non shock mitigation seating:				·	
	Confirm in good condition and					
	secured to craft.		+		<u> </u>	
93.	Shock mitigation seating:					
	Confirm in good condition and					
	secured to craft.					<u></u>
94.		A H				······································
-95.	Navigation equipment. Confirm					
	the correct operation and					
	condition of the following:					
	a. Compass Gyro					· · · · · · · · · · · · · · · · · · ·
	b. Compass Fluxgate		+ -			· · · · · · · · · · · · · · · · · · ·
	c. Compass GPS		_			
	d. Compass Magnetic	+	_	_ <u>+</u>		
	e. Secondary back up					
	compass	<u> </u>				
	f. Deviation cards for the					
	magnetic compasses.			_		
·	g. Pelorus			<u> </u>	_	
	h. Radar					· · · · · · · · · · · · · · · · · · ·
	i. GPS					
	j ECDIS (using UKHO					
	charts)			·		
	k. Chart plotter (using					
	commercial charts -					<u>_</u>

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		1	1	T	1	1
	Navionics, Blue View etc)					
	I. Automatic Identification					
	System (AIS)		-	2.000		
	m. Depth sounder			1		
	n. Speed and distance indicator				1. 1.	
	o. Voyage data recorder			-	Concerning and	
	p. Wind speed and	1.1				
1. 4.	direction indicator			1.20		
	q. Navtex					
1	r. Navigation Lights.			-		×
1. 1. 1.	s. Navigation Shapes	1.				
	t. Radar reflector					
	u. Horn		1.			
	v. Signalling Lamp					
96.	Internal communications.		1.00			
97.	VHF DSC Radio. Confirm in	1.1.5	1.1		1948/187	
19.1.18	good condition and with	12.5				
1.	correct MMSI loaded and		1. 3			
	licence.	1.89.11		1.5		
98.	VHF handheld Radios.	1		1		
	Confirm in good condition and		3.23		1. S. 19	
	charged.					
99.	MAST			-		
100.	Mast. Confirm all masts					
1. C. S. M.	carrying navigation lights,	199		1.	1	
	antenna or other equipment		13.25	1	1.1.1.2	
	are in good condition.	1.00	2	1		
101.	Mast Equipment. Confirm all			2		
	equipment on the mast				1.1.2.2	
	(navigation lights, antenna,		2.00		1.20	
	radar scanner) are in good			134	To the second	
	condition.		1.3			
102.	Yachts. Mast Sailing. Confirm					
1.2	all mast for sails and	1.8	1.00	3.14		
	associated fittings are in good			199	and the second	
100	condition.		14.5			
103.	LIFESAVING	T	1	1	1 ·	
104.	Confirm the following are in	1			11.11	
	good condition, in date and			1.2		
1.	comply with the requirements			NS.A.	1.1.1	
1.0	of the vessel type and		1.1			
· ·	passenger carriage. If these items are not held on	No.		1	12111	
See.	board, state what	1.1			Sec. 1	
	arrangements are made.	1.1	4.4	1.11	1111	
1/4	a. Lifejackets					
-	b. Life Rafts					
N. A. P. A.	c. Life Rafts Hydrostatic				and the	
	releases				10510.55	
	d. Lifebuoys			1. 1. 1	1.1	
	e. Man Overboard				1	
1.5.5.5	recovery					
and the second se		1 7 1	1	1	A CARACTER CONTRACTOR	

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			T			······································
	f. Parachute flares				<u> </u>	
	g. Handheld flares				<u> </u>	
·	h. Line Throwing					
	apparatus			• •	•	
	i. Waterproof torch					
	j. Medical Kit					
	k. EPIRB					
	I. SART					
105.	ACCOMMODATION					
106.	Accommodation area. Confirm					3
	the area is in good condition					``
	and free of clutter. Ensure the			'		
	2 means of escape a clear to				1	х. т. т.
	use and appropriately signed.					
107.	Smoke detectors. Confirm the		·			
	space has been fitted with Fire					
	Detectors and Alarms.					· · · · · · · · · · · · · · · · · · ·
108.	Galley. Confirm all appliances					
	are in good condition.	ļ	<u> </u>	L		
109.	Toilet. Confirm the toilet is in					· ·
	good condition and associated					
	seacock operate freely.	•		1		

General Boat Condition

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The material condition of the vessel is considered as:

A	Condition satisfactory, no sign of significant deterioration at present	
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.	
Ğ	Deterioration/unsatisfactory condition compromising seaworthiness of vessel evident.	
Со	mments:	\$

· · · ·	Survey Conducted By	/	· · ·	*
Signature	Name		<u>Date</u>	
	· · · · · · · · · · · · · · · · · · ·			•

Ministry of Defence

DES Ships Boats Survey and Trials Form Part 2A Harbour Acceptance Trials (HATs) and Sea Acceptance Trials (SATs)

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