



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

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Authorised for issue by:	DES Ships Boats-ChfEng	
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Version Control

			1
Updates due to additional Survey and Trial forms creation		1.1	1 November 2024
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Reason for Change	Author	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.
- 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.

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Survey and Trials form 1A

CONDITION SURVEY (This form covers all craft types)

11/12/2024

Boat Type:

Boat Number:

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

Assessment Categories

essm	ent Categories
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.
N/A	Not Applicable
	A B

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	ı	later ondit B		N/A	Observations and Recommendations
1.	HULL					
1.	Hull External. Confirm the		1			,
	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			-		
1	in good condition					
4.	Draught marks. Confirm					
5.	condition and accuracy.					
J.	Collar - Closed Cell Foam					
	Fender. Confirm in good					
6.	condition. (i.e., ORC craft) RIB Collar - Inflatable. Confirm					
	in good condition.					
7.	Additional Fixed Hull Fenders.					
	Confirm in good condition.					
3.	Weather Deck. Confirm the		_			y.
	external weather deck is in					
	good condition.					i.
	a. Steel	_				
	b. Aluminium	_		-		
	c. GRP/ Composite	_	+-	-		
	d. Wood		-		-	
. '	Weather Decks. Confirm non-	$\neg \vdash \neg$	-			
;	slip surfaces are in good		1	1 .		
.	condition.					
' '	Weather Deck fittings. Confirm			1		
9	all littings on the weather deck					
	are in good conditions. (Cleats,					
. Ti	pollards, stag horns etc) Lifting Points & Craft Lifting					
F	Hooks (i.e., Henriksen).					
	Confirm are in good condition					
a	and where applicable hooks					
n	nechanism are in date. Check		1			
lc	pad test certificates.					
F	reeing ports. Confirm clear of				1	

•											
	•										
1:	The state of the country	T			I			1			
	Confirm in good condition.										
14	4. Air Pipes. Confirm height	+	\dashv	-		+			 		
	above deck and means of										
	closure with provision to										
	prevent overpressure.										
15	Watertight Doors, Confirm	+	-			+					
	condition, can be opened both										
	sides and secure space										
	watertight.										
16	The second secon		+	+		+			 		
	condition and secure space										
	watertight.										
17.	The flatories. Confining are in a			\dashv		+-		 			
- 10	good condition.										•
18.	The ridge. Committee in a		T	\top				<u> </u>	 		
40	good condition.										
19.	The state of the s								 		
	internal hull is in good										
	condition. Note any damage										
	and repairs.									•	
20.	The blige area is in a								 		
21.	clean condition.										
۷١.	Deckhead. Confirm deckhead			7							
22.	is in good condition.										
22.	Bulkheads. Confirm all						· ·		 · · · · · · · · · · · · · · · · · · ·		
	bulkheads are in good condition.										
23.											
23.	Internal Fire Doors & Hatches.										·
	Confirm are in a good condition.										
24.	Condition.	,									
4 -	Sea Inlets & Discharges								 		·
	Valves. Confirm shut off or										
	non-return valves operate freely.										
 25.	Ventilatora Cartin										
_0.	Ventilators. Confirm operate freely.										
26.	Buoyancy Topks Co. 5	_									
-J.	Buoyancy Tanks. Confirm are in a good condition										
27.	Ballast Tanks. Confirm are in	_		<u> </u>	\perp						
	good condition.								-		
28.	Fuel Tanks. Confirm are in	_									
	good condition.						T		 		
9.	Skylighte Confirm				\perp		_				
٠.	Skylights. Confirm are in good								 		
	order and can be closed from the outside.										
0.		\perp									
-	Portholes. Confirm are in good condition.										
1.							_				
"	Authorised hull modifications.										
	Confirm any modifications										
	since the last survey are in good condition.										
2.	Unauthorised hull										
	modifications C 7		Γ						· · · · · · · · · · · · · · · · · · ·		
.	modifications. Confirm no				1		-1				

	unauthorised modifications	Т	- T								
	have taken place since the last										
	survey.	-									
2.	MACHINERY		l_	L							
۷.	MACHINERY									-	
1.	Craft with in-board Main	Τ	Т			T ·					
	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. 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	+-	+-	_	\dashv						
	assigned OBMS. Confirm the										
	OBM and propeller are in good										
	condition.										
5.	Remote stops installed and	-			_						
	functional.										
6.	Main Fuel. Check the	-	-		\perp						
•	following:										
	a. Type of fuel										
	b. Stowage										
	c. Signage										
	d. Shutoffs										
	e. Fuel filtering				\top						
	arrangements										
1	f. Fuel filling				+						
	arrangements.										
	g. Fuel tank vents and		1-		+						
	associated pipework.										
7.	Fuel Pipework. Confirm		-	-	+						
1	pipework is in a good condition										
	and of the right material and										
	secure.										
	Valves. Confirm remote means				\perp			,			
	of closing valves on tanks that					-					
	contain oil fuel laber of		•	ŀ							
	contain oil fuel, lubricating oil										
	and other flammable oils, and								¥		
	valves operate freely.										
.]	Tanks for petrol engine craft.										
(Confirm a suitable approved										
	hydrocarbon gas detector fitted					.					
- 1	ocated under or adjacent to										
t	ank. Confirm no electrical										
ϵ	Equipment residing in the			'							
(equipment residing in the										

	Vapour organization			-,			
	vapour area, or are ignition protected.						
10			-				
	pipework is in a good condition						
	of the right material and						
	secure.						
11				<u> </u>			
	Confirm filter and seacock						
	isolation in good condition and	'					
	function correctly.						
12.	Fans. Machinery spaces and	<u> </u>					
	battery boxes if fitted. Confirm						
1	operation.						
13.					ļ		
	system is in a good condition.						
	Check calibration of safety						
	valves.						
14.							
	Confirm are in a good						
	condition, free from obstruction						
	and function correctly (ie						
	Electrical powered pumps)						
15.	Bilge Pumps Manual. Confirm						
	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						
4							
1.	Propulsion shafts. Confirm in					Γ	
	good condition and exposed						
	shafts are guarded (Including						
2	Cardan shaft)						
2.	Steering Gear. Confirm in a						
3.	good condition.						·
ა.	Propulsion. Confirm in a good						
	condition.						
	a. Propeller (Open)						
	b. Propeller (Enclosed.)						
	c. Water Jet						
4. /	AUXILIARY MACHINERY						

	 Ramps. Confirm in good orde 	<u>-</u>					- r -	 	
	and functions correctly.	'							
	Confirm remote controls.								
	2. Anchor windlass. Confirm in								
-	good and and a second firm in							 	
	good order and functions								
	correctly. Confirm remote								
	Control.			1					
3	3. Winches. Confirm in good	_			-				
	condition. Confirm remote								
	control.								
5									
1	The indicate in a	\top		Т					
	good condition, securely								
	mounted, fitted with secure								
	guards				-			•	
2.									
	To short ators. Cornill are in a							 	
	good condition, securely								
	mounted, fitted with secure								
	guards, exhausts, fuel lines								
3.	Remote stops installed and	+	+	+	+-			 	
L	functional.								
4.	Batteries. Confirm are in a	-							
	good condition assembly								
	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								
	o. November Batteries								
	c. Navs and Comms								
	Batteries					1			
5.	Inverters. Confirm are in a								
	good condition								
6.	Distribution Boards. Confirm								
	are in a good condition.,					- 1			
7.	Flectrical applications								
• •	Electrical cables. Confirm are								
	in a good condition and all								
	cables securely clipped and								
	terminated.								
8.	Sockets and Shore Supply								
	connectors. Confirm are in			- 1					
	good condition.								.
9.	Lighting Confirm								
	Lighting. Confirm are in a good			T					
	condition, provide adequate								
-	lighting for all areas of the								
	craft.		.						
6.	FIRE DETECTION/FIRE FIGHTING							 	
		ی			,				
1.	Fire Plan. Confirm the craft								
'.	has a fire plan.	- 1	- 1	- 1		- 1			

	Fire Detectors. Confirm in	\neg	-						
	good condition and comply				1				
	with the fire-plan.								
	3. Fire Alarms. Confirm in good	+	_						
	The state of the s								
	condition and comply with the fire-plan.								
	4. Fire extinguishers. Confirm (I						,		
	The standard of the standard o								
	orall is filled 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.	· ·· · · · · · · · · · · · · · · · · ·			4_					
	machinery spaces (Pyrogen								
	etc.). Confirm the system is in								
	good condition and in-date.								
7.	WHEELHOUSE								
	· · · · · · · · · · · · · · · · · · ·								
1.	Structure Confined								
٠.	Taractare. Committee offer								
	structure is in good condition.								
	a. Steel/Armour protection						 		
	b. Aluminium							-	
· · · · · · · · · · · · · · · · · · ·	c. GRP/ Composite								
	d. Wood				+		 		
2.	Skylights. Confirm are in good		-		-		 		
	order and can be closed from								
	the outside.								
3.	Windows. Confirm are in good	-			-		 		
	condition.								
4.	Window Wipers and water jets.	\rightarrow			ļ		 		
	Confirm in good condition								
5.	Wheelhouse Doors. Confirm	\dashv							
	are in good condition and able								
	to operate from both sides.								
6.	Craft Controls Confi	\perp							
٠.	Craft Controls. Confirm all craft								
	steering and engine controls								
	are in a good condition.								
	(Steering system, throttle, and								
7	gear controls etc)								
7.	Craft Machinery	1							
	Instrumentation Alarms								
	Indication. Confirm the								
	instrumentation in the								
	wheelhouse are in good								
	condition.								
			- 1	.					
	a. Engine Instrumentation		_			-]

Γ		h Auxiliany aveters								
		b. Auxiliary systems								
		indication. (i.e.,								
+		generators)								
		c. Auxiliary systems							 	
+		Alarms								
		d. Steering Indication (i.e.,				_			 	
L		rudder angle etc)			- -					•
		e. Propulsion and Trim	1-	+	-				 	
		Equipment indication.								
		f. Fire Alarms	+		+					
		g. Bilge Alarms	┽	+	-				•	
		h. Engine Alarms	┼			_				
	8.	OPEN POAT CONSCIENT								
-	1.	OPEN BOAT CONSOLES								
	١.	Console. Confirm the console							 	
ŀ		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			ł	1				
		gear controls etc)								
	3.	Craft Machinery				-				
		Instrumentation Alarms								
		Indication. Confirm the	İ							
		instrumentation and								
		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	\dashv							,
	9.	SEATING	\bot							
	0.	OLATING								
	1.	Non about with the								
	'	Non shock mitigation seating:							 	
		Confirm in good condition and								
•		secured to craft.						,		
2	2.	Shock mitigation seating:							 	
		Confirm in good condition and								
		secured to craft.			- 1					
1	0.	NAVIGATION AND COMMUNICAT	FION							
		THE SOLVING SOLVING NICA	HON	V						
1	. 1	Navigation equipment. Confirm			<u> </u>					
		the correct operation and								
		Condition of the falls								
		condition of the following:								
		a. Compass Gyro							 	
		b. Compass Fluxgate			+		_			
		c. Compass GPS	+	_	+		+-		 	
		d. Compass Magnetic	+-	+-	\dashv	,			 	
		e. Secondary back up	-		-					
		compass								
		ompado		L_						

	f. Deviation cards for the									
	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	ļ	ļ							
	Tatamata lacitification									
	System (AIS)									
	m. Depth sounder							-		
	n. Speed and distance indicator								-	
	o. Voyage data recorder p. Wind speed and									
	direction indicator									
	g. Navtex							_		
<u> </u>	- Jacon 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	1								
	licence.									
4.	VHF handheld Radios.									
	Confirm in good condition and									
	charged.					1				
11.	MAST				100					
1.	Mast. Confirm all masts						-			
	carrying navigation lights,							*		
	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									
3.	condition.									
J.	Yachts. Mast Sailing. Confirm				-					
	all mast for sails and									
	associated fittings are in good condition.									
12.	LIFESAVING									
: <u>~</u> .,	LII LOAVING CONTRACTOR OF THE									
1.	Confirm the following are in				_					
. •	good condition, in date and									
	comply with the requirements									
			- 1	- 1						

		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								
		b. Life Raits								,
		c. Life Rafts Hydrostatic								
	-	releases								
		d. Lifebuoys								
		e. Man Overboard			1					
		recovery								
		f. Parachute flares		 	+-	-				
		g. Handheld flares	-	+	+	-				
		h. Line Throwing	-		-					
		apparatus								
		i. Waterproof torch	-	 						
		j. Medical Kit	 		<u> </u>					
		k. EPIRB								
	40	I. SART							· · · · · · · · · · · · · · · · · · ·	
	13.	ACCOMMODATION		9 11 11				1, 11		
	-									
	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.					İ			
ŀ	4.	Toilet. Confirm the toilet is in								
		good condition and								
		good condition and associated					1			
		seacock operate freely.	- 1		1		i	•		

	General Boat Condition	
The	e 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> </u>	<u>Name</u>	Signature
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		,		
				Comments:
 	 		 	.0,400,000,0

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