



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.
- 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

ASSE	essin	ent 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	C	Deterioration/unsatisfactory condition compromising seaworthiness of vessel evident.
	N/A	Not Applicable
The meterial curvey is to be in coni	iunctio	n with the craft's relevant code (i.e.

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

• 1	Survey Report on M					OII OI VESSEI			
Item _.	Areas and items to examine		Material N/A Condition A B C			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 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					+			
	d. Wood								
9.	Weather Decks. Confirm non- slip surfaces are in good condition.								
10.	Weather Deck fittings. Confirm all fittings on the weather deck are in good conditions. (Cleats, bollards, stag horns etc)					,			
11.	Lifting Points & Craft Lifting Hooks (i.e., Henriksen). Confirm are in good condition and where applicable hooks mechanism are in date. Check		-		-				
12.	load test certificates. Freeing ports. Confirm clear of obstruction.								

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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								
13.	condition, can be opened both						•		
	sides and secure space								
	· · · · · · · · · · · · · · · · · · ·								
10	watertight.			~					
16.	Watertight Hatches. Confirm								
	condition and secure space								
	watertight.								
17.	Fire Hatches. Confirm are in a								
	good condition.								
18.	Fire Flaps. Confirm are in a								
	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	†							
20.	clean condition.								
24	Deckhead. Confirm deckhead	-	 		_			-	
21.	1								
	is in good condition.	-	-	 					
22.	Bulkheads. Confirm all								
	bulkheads are in good		1						
	condition.	ļ	-	-					
23.	Internal Fire Doors & Hatches.					1			
	Confirm are in a good		1						
	condition.								
24.	Sea Inlets & Discharges								
	Valves. Confirm shut off or								
	non-return valves operate								
	freely.	1							
25.	Ventilators. Confirm operate			1					
20.	freely.								
06			-	+					
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	1							
30.	condition.								
24	Authorised hull modifications.	+	-						
31.									
	Confirm any modifications								
	since the last survey are in						1		
	good condition.	_							
32.	Unauthorised hull						-		
	modifications. Confirm no								
	1								

			т	1	· · · · · · · · · · · · · · · · · · ·
	unauthorised modifications				
	have taken place since the last				
	survey.		<u> </u>	<u> </u>	
2.	MACHINERY				
1.	Craft with in-board Main	T		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				
	are in a good condition and				
	securely mounted with guards,				
	exhausts, fuel lines securely				
	installed.	ļ			
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				
- ''	assigned OBMS. Confirm the				
	OBM and propeller are in good				
	condition.				
5.	Remote stops installed and			١	
	functional.				
6.	Main Fuel. Check the				
	following:				
	a. Type of fuel		-		
	b. Stowage				
	c. Signage d. Shutoffs	<u> </u>			
	e. Fuel filtering				
	arrangements f. Fuel filling				
	arrangements.				
	g. Fuel tank vents and				
	associated pipework.				
7.	Fuel Pipework. Confirm				ν
	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	L			

			7		7	
	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.	İ				
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		-			,
	all hand operated bilge pumps					
	in a good condition, free from					
	obstruction and function					
	correctly.					*
16.	Bilge Alarms. Confirm all work	ļ				
10.	correctly.					
17.	Pumps Fuel transfer. Confirm					
17.						
18.	in good operating condition.				ļ	
10.	Pumps Bilge. Confirm in good					
	operating condition. (Electrical					
40	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				1	
	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					
т.	AUAILIAN WACHINERT				1 115	

1.	Ramps. Confirm in good order and functions correctly.						
	Confirm remote controls.					,	
2.	Anchor windlass. Confirm in						
	good order and functions						
	correctly. Confirm remote						·
	control.						
3.	Winches. Confirm in good			-			
0.	condition. Confirm remote						
	control.						
				<u> </u>	<u> </u> 		
5.	ELECTRICAL						
1.	Alternators. Confirm are in a	Т	T	1	T	<u> </u>	
'.							
	good condition, securely						
	mounted, fitted with secure						
	guards	-		<u> </u>			
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				4		
	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 .	good condition						*
6.	Distribution Boards. Confirm	+					
0.							
7.	are in a good condition.,	-			-		
/ .	Electrical cables. Confirm are						
	in a good condition and all						
	cables securely clipped and						
	terminated.			ļ			
8.	Sockets and Shore Supply						
	connectors. Confirm are in						
	good condition.						
9.	Lighting. Confirm are in a good	1					
	condition, provide adequate						
	lighting for all areas of the						
	craft.						
6.	FIRE DETECTION/FIRE FIGHT	ING		- ::::			
				•			-
1.	Fire Plan. Confirm the craft			T .			
	has a fire plan.						
		1		ı	1	L	

2.	Fire Detectors. Confirm in			1			
	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						
	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						
7.	good condition and in-date.						
	WHEELHOUSE						
1.	Structure. Confirm the outer		l .		·		
	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.						
	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						
	steering and engine controls						
	are in a good condition.						
	(Steering system, throttle, and	-					
	gear controls etc)						
7.	Craft Machinery						
	Instrumentation Alarms					•	
	Indication. Confirm the						
	instrumentation in the						
	wheelhouse are in good						
	condition.						
	a. Engine Instrumentation						
)		 		<u> </u>		

					·			
	b. Auxiliary systems							
	indication. (i.e.,							
	generators)							
	c. Auxiliary systems							
	Alarms							
	d. Steering Indication (i.e.,							
<u> </u>	rudder angle etc)		ļ					
	e. Propulsion and Trim							
	Equipment indication.							
	f. Fire Alarms							
	g. Bilge Alarms							
	h. Engine Alarms							
8.	OPEN BOAT CONSOLES	·	L	I		<u> </u>		1
1.	Console. Confirm the console	T	1	T		<u> </u>		
1.	1							
	structure is in good condition							
	and secure to the craft.		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							ξ ₀
	are in good condition.	-	-					
	a. Engine Instrumentation	ļ	1					
	b. Engine Alarms							
	c. Steering Indication (ie	-						
	rudder angle)							
	d. Propulsion and Trim							
	Equipment indication			İ				
	e. Bilge Alarms		1					
	f. Engine Alarms	\vdash				,		
9.	SEATING	1	<u>.</u>		<u> </u>			
9.	SEATING							
	Niera de la companya	1	T	Т	1	T		
1.	Non shock mitigation seating:							
	Confirm in good condition and							
	secured to craft.							
2.	Shock mitigation seating:							
	Confirm in good condition and							
	secured to craft.							
10.	NAVIGATION AND COMMUNIC	ATIC	NC			.1		
10.	TO TO TO TO TO THE OWN TO THE	, , , , , ,	- 11					
1.	Navigation equipment. Confirm		T	T	1	1		
'.								
	the correct operation and							
	condition of the following:	-	-	1				
	a. Compass Gyro							
	b. Compass Fluxgate				<u> </u>			
	c. Compass GPS							
	d. Compass Magnetic	1		1				
	e. Secondary back up			 				
	,		`					
L	compass			<u> </u>	<u></u>			

	f. Deviation cards for the	-	Г - , г -					
	magnetic compasses. g. Pelorus							
	g. Pelorus h. Radar							
	i. GPS							
	(
	charts) k. Chart plotter (using							
	piottoi (doing							
	commercial charts -							
	Navionics, Blue View							
	etc) I. Automatic Identification							
	System (AIS) m. Depth sounder							
	n. Speed and distance							
	indicator							
				_				5
	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.			-				
	Confirm in good condition and							
	charged.				ľ			
11.	MAST			1			,	
	en en en en en en en en en en en en en e							
1.	Mast. Confirm all masts	T			T			
	carrying navigation lights,							
	antenna or other equipment	ľ						
	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				T .			
	all mast for sails and							
	associated fittings are in good							
	condition.							
40	LIFESAVING							
12.								
	Confirm the fall							
12.	Confirm the following are in							
	Confirm the following are in good condition, in date and comply with the requirements							

	of the vessel type and		T			· .			
	passenger carriage				- 1				
	If these items are not held on								
	board, state what								
	arrangements are made.								
	a. Lifejackets								
	b. Life Rafts				·				
	C. Life Poffe Hall 4								
	c. Life Rafts Hydrostatic releases			1					
	d. Lifebuoys								
	e. Man Overboard								
	recovery			1					
	f. Parachute flares					_			
	g. Handheld flares				+				
	h. Line Throwing						,		
	apparatus								
	i. Waterproof torch				-				
	J. Medical Kit								
	k. EPIRB								٠.
	I. SART	-							
13.	ACCOMMODATION				12.25.25	<u> </u>			
1.	Accommodation area. Confirm		т	T					
	the area is in good condition								
	and tree of clutter. Figure the		1						a
	2 means of escape a clear to								
	use and appropriately signed			1					
2.	Smoke detectors. Confirm the								
	space has been fitted with Fire				,				
	Detectors and Alarms.							*	
		- 1	1			1			
3.	Galley, Confirm all application								
3.	Galley. Confirm all appliances	+							
	Galley. Confirm all appliances are in good condition								
	Galley. Confirm all appliances are in good condition. Toilet. Confirm the toilet is in						-		
3. 4.	Galley. Confirm all appliances are in good condition						-		

	General Boat Condition	
Th	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.	

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