



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

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Prepared by:	DES Ships Boats-EngSpt	
Approved by:	DES Ships Boats-ISS-Eng1a	
Authorised for issue by:	DES Ships Boats-ChfEng	

Version Control

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

Assessment Categories

A

B

C

The material condition of the vessel is to be assessed against the following categories

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.

Condition satisfactory, no sign of significant

deterioration at present

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).

Item	Areas and items to examine	1	later ondi	ion	N/A	Observations and Recommendations
1.	HULL	- Inches	200			
1.	Hull External. Confirm the	THE REAL PROPERTY.				
	external hull is in good condition. Note any damage and repairs.					
	a. Steel					
	b. Aluminium					
	c. GRP/ Composite					
	d. Wood			-+		<u> </u>
, 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	7				
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.					
	Additional Fixed Hull Fenders. Confirm in good condition.			-	1/1	
	Weather Deck. Confirm the external weather deck is in good condition.					
	a. Steel	-	-+			
	b. Aluminium			+-	<u> </u>	
	c. GRP/ Composite					
	d. Wood		-	-		
8	Weather Decks. Confirm non- slip surfaces are in good condition.			(E)(E)		9-31
8	Weather Deck fittings. Confirm all fittings on the weather deck are in good conditions. (Cleats,					
b	pollards, stag horns etc)					
1. L	ifting Points & Craft Lifting dooks (i.e., Henriksen).			-		
a	Confirm are in good condition and where applicable hooks nechanism are in date. Check bad test certificates.					
. F	reeing ports. Confirm clear of bstruction.	-	+-	-	_	

	13. Anchor and Cable warp.	7	T	_	100	-	
-	Confirm in good condition						
	14. Air Pipes. Confirm height	-		_			
	above deck and means of		1 1				,
	closure with provision to		1 1				
L	prevent overpressure.		1 1			- 1	
1	5. Watertight Doors. Confirm		+-+				
	condition, can be opened both						
	sides and secure space					- 1	
	watertight.						
10	6. Watertight Hatches. Confirm						
	condition and secure space						
	watertight.						
17	7. Fire Hatches. Confirm are in a			_ '			
	good condition.						
18							
,,	 Fire Flaps. Confirm are in a good condition. 						270,000,044,000
19	Hull Internal Co. 5						
, ,	Trial intolliar Collinii lile					1	
	internal hull is in good						
	condition. Note any damage and repairs.	1 1		-			
20	Confirm the Div						
20	I service and bride area is in a					+	
21.	clean condition.						
21,	- Juliana Committe deckness			\top		+	
	is in good condition.						
22.				+-		+-	
	bulkheads are in good						
	condition.						
23.	Internal Fire Doors & Hatches.	A-1-101		-		-	
	Confirm are in a good						
	condition.						
24.	Sea Inlets & Discharges			+		-	77
	Valves. Confirm shut off or		- 1				
	non-return valves operate						
	treely.		1				
25.	Ventilators. Confirm operate			+-		-	
	Lireely.						
26.	Buoyancy Tanks. Confirm are		-	-			
	in a good condition						
27.	Ballast Tanks. Confirm are in		- 1				
	good condition.						
28.	Fuel Tanks. Confirm are in			-			
	good condition.						
29.	Skylights. Confirm are in good	Const	+				
	order and can be closed from						
	the outside.						
30.	Portholes. Confirm are in good						<u> </u>
	condition.						
31.	Authorised hull modifications.		+				200 - 200
	Confirm any modifications						
	since the last survey are in						
	good condition.						
32.	Unauthorised hull	-					
	modifications. Confirm no						
	- Smooths, Committe NO						

	unauthorised modifications have taken place since the last				
_	survey.				
2.	MACHINERY	THE REAL PROPERTY.	TE.		
1.	Craft with in-board Main				
٠.			1	1 .	
	Engines - Machinery space.				
	Confirm the space is clean,				5
	tidy, free of clutter. Signage is				
	clear. Escape routes clearly signed.				
2.	Craft with in-board Main				
۷.					
	Engines. Confirm the engines are in a good condition and				
•					
	securely mounted with guards,		201		
	exhausts, fuel lines securely installed.				
3.	Out-Board Motor Craft. For		8		I The second second
Ο.	craft with OBM, confirm				
	securing, fuelling and control				1
	systems are in good condition.				
4.	Out-Board Motor Craft with	Control			
	assigned OBMS. Confirm the				
	OBM and propeller are in good		-		
	condition.				
5.	Remote stops installed and	-	1 100		
	functional.				'
6.	Main Fuel. Check the				
	following:				
	a. Type of fuel		_	-	
-	b. Stowage	-	+ `-		
	c. Signage	_	-		
	d. Shutoffs	-	+		
	e. Fuel filtering		1		
	arrangements		1		
	f. Fuel filling		+-		
	arrangements.	1			
	g. Fuel tank vents and		-		
	associated pipework.				1
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				
į.	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				87
	located under or adjacent to				
	tank. Confirm no electrical				100
	equipment residing in the				

:	vapour area, or are ignition protected.	
	10. Exhaust pinework. Confi	
	- " add bibework Confirm	
	pipework is in a good condition	
	or trie right material and	
-	secure.	
	11. Engine cooling system.	
	Confirm filter and seacock	
	isolation in good condition and	
	function correctly.	
1	2. Fans. Machinery spaces and	
	battery boxes if fitted. Confirm	
	operation.	
1	Compressed air. Confirm	
1	1 - Tripi Coocu all Carrillan	
	system is in a good condition.	
	Check calibration of safety valves.	
14		
	1 - "30 I WINDS FOWERED	
	Confirm are in a good	
,	condition, free from obstruction	,
	and function correctly (ie	
15	Electrical powered pumps)	
13	- "9" ullus Matiliai Contirm	
	all hand operated hilde number	
	iii a yood condition free from	
	obstruction and function	
40	correctly.	
16.	- 30 / Warris, Colling all Work	
	Correctly.	
17.	The state of the s	
	in good operating condition	
18.	Pumps Bilge, Confirm in good	
	operating condition (Flectrical	
	Land manual pumps \	
19.	Pumps Ballast. Confirm in	
4.000	good operating condition	
20.	Hydraulic system Confirm in	
	good condition without leaks.	
3.	PROPULSION AND STEERING	
	STORY MAD STEERING	
1.	Propulsion shafts. Confirm in	
	good condition and exposed	
	shafts are guarded (Including	
	Cardan shaft)	
2.	Steering Coop Coop	
,	Steering Gear. Confirm in a good condition.	
3.	Propulsion Const	
	Propulsion. Confirm in a good condition.	
-	2 Propelly (2)	
	a. Propeller (Open)	
+	b. Propeller (Enclosed.)	
4.	c. Water Jet	
44	AUXILIARY MACHINERY	

1.	The second of th	T	T	1				- 15 m
	and functions correctly. Confirm remote controls.					•		
2.	Anchor windlass. Confirm in	+-	-	-+				
	good order and functions			1				
	correctly. Confirm remote							
	control.							
3.	Winches. Confirm in good	+	 - -					
	condition. Confirm remote		1					
8	control.							
5.	ELECTRICAL							
		34.05						
1.	Alternators. Confirm are in a		T			Daniel Co.		
	good condition, securely							
	mounted, fitted with secure							
-	guards			, . ,				
2.	Generators. Confirm are in a							
	good condition, securely							
	mounted, fitted with secure							- 1
3.	guards, exhausts, fuel lines.	-						
Ų.	Remote stops installed and functional.							
4.	Batteries. Confirm are in a	-	_	-				_
	good condition, securely							
	mounted in a container,							
	terminals covered to be		- 1			3.		
	electrically safe. Unobstructed							
	ventilation for lead acid			1				
	batteries.							- 3
	a. Engine Start Batteries							
	b. Craft Power Batteries			1				-
	c. Navs and Comms			 				
<u> </u>	Batteries				1			
5.	Inverters. Confirm are in a						,	
-	good condition							
6.	Distribution Boards. Confirm							
7.	are in a good condition.,							
7.	Electrical cables. Confirm are		- 1					
	in a good condition and all				1 .			
	cables securely clipped and terminated.							1.
8.	Sockets and Shore Supply						<u> </u>	
· .	connectors. Confirm are in							1
	good condition.							
9.	Lighting. Confirm are in a good	-						
	condition, provide adequate							
	lighting for all areas of the							
	craft.							
6.	FIRE DETECTION/FIRE FIGHTING	3						
- 6.0								
1.	Fire Plan. Confirm the craft		-			700000000000000000000000000000000000000		
	has a fire plan.							
	Control of the Contro				- F - S			

2	Fire Data da							
2	The December of the little of							
	good condition and comply		ł					
	with the fire-plan.		- 1					
3	The state of the s							
	condition and comply with the	1						
	fire-plan.							
4.		-		-	-	-		
	craft is fitted with the right type,							
	size and numbers of							
		1						
	extinguishers for the relevant							
1	areas of the craft complying				ľ			
1	with the fire plan. Confirm in							
100000	date status of all extinguishers.							
	a. CO2/CO2 with bayonet					,		
	b. Dry Powder			Ť .				
	c. Foam AQQ					1 100000		
L	d. Water		-		-			
	e. Blanket	-	+-	+-		+		
	f. Fire Bucket	├	+-,	-				
5.	Fixed firefighting systems for	-	+-	200				
	machinery spaces (Pyrogen							
1	etc.) Confirm the queters is in							
-	etc.). Confirm the system is in							
7.	good condition and in-date.							
	WHEELHOUSE							The state of the s
4	Total Control							
1.	Structure. Confirm the outer							
	structure is in good condition.		1					
-	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.							1
3.	Windows. Confirm are in good							
0.	condition.							
4.				\vdash	-			
J - 7 .	Window Wipers and water jets.							
<u> </u>	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					1		
	steering and engine controls							la la
	are in a good condition.							
	(Steering system, throttle, and							
	gear controls etc)	- 1						
7.	Craft Machinery	-+						
	Instrumentation Alarms		- 1					
	Indication. Confirm the	ŀ	1					
- 1								
	instrumentation in the							
	wheelhouse are in good							
	condition.							
	a. Engine Instrumentation							
				11127-01				

	L A		_					
	b. Auxiliary systems						,	
	indication. (i.e.,							
-	generators)		1					
	c. Auxiliary systems			3				
	Alarms							
1	d. Steering Indication (i.e.,		-	200	_			
1	rudder angle etc)							
	e. Propulsion and Trim	-	-					
	Equipment indication				-			
	Equipment indication. f. Fire Alarms			<u>.</u>		_		
		<u> </u>						
	g. Bilge Alarms						6	
_	h. Engine Alarms							
8.	OPEN BOAT CONSOLES		116	ALTERNATION OF THE PARTY OF THE		-		
1.	Console. Confirm the console			11				
	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			4				
	gear controls etc)							
3.	Craft Machinery							
J.	Instrumentation							
	Instrumentation Alarms							
	Indication. Confirm the							
	instrumentation on the console				3			
	are in good condition.							
	a. Engine Instrumentation				_			
	b. Engine Alarms			+	+			
	c. Steering Indication (ie				+ -			
	rudder angle)				1			
	d. Propulsion and Trim	+-						
	Equipment indication		- 1					
	C Piles Atamas			· .				
	e. Bilge Alarms			\perp				
	f. Engine Alarms							
9.	SEATING	124	The second				91111111	
1.	Non shock mitigation seating:				T			
	Confirm in good condition and			8				
	secured to craft.				1			
2.	Shock mitigation seating:							
	Confirm in good condition and		1					
	secured to craft.		-					
10.	NAVIGATION AND COMMUNICAT	-1011						
10.	MANIGATION AND COMMUNICAT	ION					***************************************	
1.	Novigation again 1 9 5		2 15					
'	Navigation equipment. Confirm							10 10 10
	the correct operation and							
	condition of the following:							
	a. Compass Gyro							
	b. Compass Fluxgate							
	c. Compass GPS		+ -					
	d. Compass Magnetic	+-	+					
	e. Secondary back up		+					
	compass							
	oompass							

	f. Deviation cards for the					
	magnetic compasses.			-	,	
	g. Pelorus		+			
_	h. Radar		+			
<u> </u>	i. GPS	 	 		- 20	8 12 200
					and the second second	
	j. ECDIS (using UKHO charts)					
	- Field (doing					
!	commercial charts -					
	Navionics, Blue View etc)					,
	Automatic Identification					
	System (AIS)					1-1-1-1
	m. Depth sounder			1=0		
	n. Speed and distance	_ + _				
	indicator					
	voyage data recorder wind speed and	-		20.5		
	direction indicator					
	g. Navtex					
	r. Navigation Lights.					
	s. Navigation Shapes t. Radar reflector					
			 			
	u. Horn					10 100
2.	v. Signalling Lamp				10.00	
2. 3.	Internal communications.					
J.	VHF DSC Radio. Confirm in					
	good condition and with correct MMSI loaded and					
	licence.					
4.	VHF handheld Radios.					<u> </u>
₹.						
	Confirm in good condition and charged.					
11.	MAST					
1.	Mast. Confirm all masts					
	carrying navigation lights,					
	antenna or other equipment					
	are in good condition.		d.			
2.	Mast Equipment. Confirm all					
	equipment on the mast			1		
	(navigation lights, antenna,					
	radar scanner) are in good					
	condition.					
3.	Yachts. Mast Sailing. Confirm					
	all mast for sails and					
100	associated fittings are in good					
	condition.					
12.	LIFESAVING					
1.	Confirm the following are to		and the			
	Confirm the following are in good condition, in date and					
	comply with the requirements					
	comply with the requirements	~				

	of the vessel to							
	of the vessel type and							
	passenger carriage.			1	1			
	If these items are not held on							
	board, state what				1			
	arrangements are made.		- 1					
	a. Lifejackets							
	b. Life Rafts							
	c. Life Rafts Hydrostatic				100			
	releases							-
	d. Lifebuoys	1	+-				-	
	e. Man Overboard			-		32		
	recovery	N						
	f. Parachute flares							
	g. Handheld flares	-						32
	h. Line Throwing			 				2420 200 3
	apparatus		1 .					
	i. Waterproof torch	-	+-					
	j. Medical Kit	+	-					
	k. EPIRB	+						
	I. SART		+ -					
13.	ACCOMMODATION							The Control of the Control
	THE SEMINOBATION						1-1	-
1.	Accommodation area. Confirm							
	the area is in good condition							
	and free of clutter. Ensure the			1				
	2 means of escape a clear to			1				
	use and appropriately signed.							
2.	Smoke detectors. Confirm the	-	-				_	
	space has been fitted with Fire			- 1				
	Detectors and Alarms.							
3.	Galley Confirm all and		1					
٥.	Galley. Confirm all appliances				,			
4.	are in good condition.							
→.	Toilet. Confirm the toilet is in							
	good condition and associated							
	seacock operate freely.							

	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.	

<u>Name</u>	<u>Date</u>
	ey Conducted By Name