

Common Marine Inspection Document

NE

for Small Workboats

(Marine Inspection for Small Workboats - MISW)

IMCA M 189 Issue 6 July 2022

Vessel name:	
IMO number	
Date inspected:	
Date uploaded:	





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IMCA M 189 Issue 6

Document designation: this document is categorised as a Recommended Practice.

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Information below this line not included in reports generated by the eCMID database:

Key to answer settings:

ANSWER resulting in findings | ANSWER requiring comment | 📷 image can be uploaded

IMCA M 189 Issue 6 – Version History

Date	Reason	Revision
July 2022	Hybrid supplements added	Issue 6
May 2021	'Index of certificates' replaced with 'Certificates and publications' New supplements on the High Speed Craft (HSC) Code and on Walk-to- Work, plus minor editorial changes elsewhere	Issue 5
April 2020	Minor updates to address user feedback	Issue 4.1
September 2018	General update of question sets, explanatory notes moved to M 167	Issue 4
June 2016	Addition of vessel-specific supplements	Issue 3
May 2012	Layout changed to facilitate inclusion on the CMID database	Rev. 2
December 2007	Due to the revision of the small vessel code	Rev. 1

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IMCA M 189 Issue 6 – July 2022

Explanatory notes and guidance on completion of this document can be found in the latest issue of IMCA M 167

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Inspection summary

Report completed by (inspector's name)	Date	
Inspector's employer	AVI number	
Company on whose behalf inspection is carried out		
Report summary seen and discussed by (Master's name)	Date	
Port of inspection		
Vessel operation at time of inspection		

Inspector's findings

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Inspector's additional comments

Debrief

The inspector shall discuss the inspection findings with the master before leaving the vessel. The closing meeting report should be completed (template available in the inspection application under File > Download documents) and submitted with the final report as an attached image file.

Distribution list for reports

The final report, when uploaded to the eCMID database provides access to the report for the following:

- 1. Vessel owner;
- 2. The party who commissioned the inspection, if not the vessel owner, such as an oil company client, charterer;
- 3. Any other eCMID database user who has been assigned access by the vessel operator.

Further information on the eCMID processes can be found in IMCA M 167 – *Guidance on the IMCA eCMID system* – available via www.ecmid.com with user guides to the eCMID website and software.

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1 Vessel particulars

	Requested information
Name of vessel	
Type of vessel	
Detail of engines, berths and any special features	
Length overall (LOA) – in metres	
Gross tonnage (GT)	
Previous name(s)	
Vessel owner/operator Name:	
Address:	
Tel:	
E-mail:	
Date current vessel operator assumed responsibility for vessel	
Manning agent Name:	
Address:	
Tel:	
E-mail:	
Flag	
(if the vessel has changed flag within the past six months, report date of change)	
(if the vessel has changed flag within the past six months, report previous flag)	
Port of registry	
Classification society (if applicable)	
(if the vessel has changed class within the past six months, report date of change)	
(if the vessel has changed class within the past six months, report previous classification society)	
Class ID number	
Category	
Vessel certificate (details of operating code e.g. MCA Vessel Code - include max. distance from shore, day trips only, etc.)	
Issued (on date)	
Valid until	
Issued by	
Last annual inspection	
Total allowance number of persons onboard (PoB)	

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2 Certificates and publications

2.1	Is the vessel clear of conditions of class, port/flag state and any safety related memoranda?	Yes	<u>No</u>	NA	NS		
	Review most recent Class status report & record Class notation of the v conditions noted in certificate.	vessel	and a	ny lin	nitatio	ons or	
	If not in Class, record details of alternative arrangements and/or Flag St regime in place.	tate c	ertific	ation	and s	survey	
2.2	Are all statutory certificates issued by RO or flag state valid and in date?	Yes	<u>No</u>	NA	NS		
	As applicable, e.g.: Passenger ship safety certificate, International Oil Poll International Air Pollution Prevention Certificate, International Sec certificate, Load Line/exemption certificate, Maritime Labour Convent Radio Station licence, Ship Sanitation exemption certificate, Minimum sa State Safety Certificate.	ution wage tion c afe ma	Preve Pollu compli anning	ntion ition ance g docu	Certi Preve state umen	ficate, ention ment, t, Flag	
2.3	Does the vessel carry valid certificates of insurance?	Yes	<u>No</u>	NA	NS		
	 Is the P&I Certificate of Entry current? Does the vessel carry Certificate of insurance for wreck removal? (Compulsory for vessels >= 300GRT) Employer Liability Insurance. Hull and Machinery Insurance. List the type of certificates carried and any limitations noted with respect to cover. 						
2.4	If the vessel is required to carry IMDG cargo, is a valid document of compliance for carriage of dangerous goods onboard?	Yes	<u>No</u>	NA	NS		
	Confirm IMDG certificate. Verify if IMDG segregation is complied with. Are the crew suitably trained and is the relevant documentation a Manifest(s), DG Emergency and First aid schedule)?	availat	ole (e	.g., IN	ИDG	Code,	
2.5	Additional Section 2 comments?	Yes	No			0	
L			I				

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3 Inspection

3.1	Has the vessel a copy of the latest port state inspection onboard?	Yes	<u>No</u>	NA	NS	
	Note date of last port state inspection and if over 12 months the reason Comment on where and when the inspection was carried out. If vessel	why. was c	letain	ed. oi	r signi	ificant
	deficiencies were listed, record the reason for detention or nature of tho	se de	ficien	cies.	- 0	
	None of the response options will generate a finding.					
3.2	Has the vessel a copy of the latest eMISW onboard?	Yes	<u>No</u>	NA	NS	
	Note date of last eMISW and if over 12 months the reason why.					
	Company, date and relevant findings (if any).					
	If the vessel is new or has been laid up and has not been subjected to inspector can use NA.	o an e	MISW	/ insp	ectio	n, the
	If no inspection has been carried out and this should normally have been should select 'No' and state the reason, e.g. required by industry guideli will be recorded.	en cor nes.	nplete In this	ed, th case	e insp the fi	oector nding
3.3	Are there any pending conditions of class or pending class memoranda?	<u>Yes</u>	No	NA	NS	
	If any, comment on the nature of the conditions of class and/or class me	morai	nda (if	fany).		
3.4	Additional Section 3 comments?	Yes	No			

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4 Logbooks

4.1	Does the vessel have appropriate logbook(s) (e.g. official/deck/radio/engine)?	<u>Yes</u>	<u>No</u>	NS	
	Comment if no logbook is available for use.				
	Comment on appropriate entries in the logbooks.				
4.2	Additional Section 4 comments?	Yes	No		0

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5 Weather-tight integrity

5.1	Is it possible to secure all openings to prevent the ingress of water whilst at sea?	Yes	<u>No</u>			Ō		
	Comment if there is unreasonable difficulty doing this.		•	•	•			
5.2	Are doors located above the weather deck, which give access to spaces below, weather-tight and able to be operated from either side?	<u>Yes</u>	<u>No</u>					
	Comment on the state and condition of seals, fastening and securing fitti	ngs.						
5.3	If there are any opening skylights fitted, can they be effectively secured from either side?	Yes	<u>No</u>	NA	NS			
	Note the condition of fastening and securing fittings for the skylights.							
	Note: In a new vessel, a skylight which is provided as a means of escape opened from both sides.	shou	ld be	capat	ole of	being		
5.4	Are blanks available for securing in place, in the event of breakage of a skylight?	Yes	<u>No</u>	NA	NS	O		
	Note the stowages for the blanks and their ease of access in an emergen	cy.						
5.5	Can all opening port-lights be effectively secured?	<u>Yes</u>	<u>No</u>	NA	NS			
	Comment on the condition of securing arrangements and fittings.							
	If any opening or port-lights are below the weather deck, are there dead be secured in place?	-light	s or bl	anks	availa	ble to		
5.6	Are all weather-tight closures to ventilators in full working order?	Yes	<u>No</u>	NA	NS	Ō		
5.7	Does the hull and structure of the vessel appear in a good state of repair?	<u>Yes</u>	<u>No</u>			O		
	Comment on the state and condition of the hull, hull coatings (marine (visual observation).	grow	th) an	d sup	erstru	icture		
5.8	When a deck is fitted with bulwarks such that water may be trapped, are there effective draining ports?	Yes	<u>No</u>	NA		O		
5.9	Are sea inlets and discharges below the waterline fitted with a seacock or other effective means of closure?	Yes	<u>No</u>	NA	NS	Ō		
5.10	Is there evidence of any water leaking into the vessel below decks?	<u>Yes</u>	No	NA	NS			
	Comment on the evidence of leaking and if possible include a photograph. This should not be confused with water brought down from the upper deck during wet conditions. Leaking from internal fresh water supplies should be reported in machinery or accommodation sections.							
5.11	If the vessel has a self-righting capability are all safety criteria being met?	Yes	<u>No</u>	NA	NS			
	Note whether correct means of crew, passenger and cargo securing a serviceable.	rrang	emen	ts are	fitte	d and		
	Note whether appropriate services for recovery from inversion are fitted	and	servic	eable				
5.12	Additional Section 5 comments?	Yes	No			O		

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6 Machinery and electrical

6.1	Are engine/generator machinery and spaces clean and well maintained?	Yes	<u>No</u>			
6.2	Are vent pipes for fuel tanks protected against water ingress by a goose neck or other efficient means?	Yes	<u>No</u>	NA	NS	۲

6.3	Are vent pipes for fuel and lube oil tanks fitted with a flame or spark	Yes	<u>No</u>	NA	NS	$\overline{\bigcirc}$
	arrestor?					

6.4	Are there means available to effectively control fuel spillages or leaks	Yes	<mark>No</mark>	NA	NS	Ō
	from permanent or temporary equipment?					

Comment on the means of control e.g. savealls, drains, temporary means, such as oil spill equipment, etc.

6.5	Is there a safe means of isolating the fuel supply in the event of an emergency?	Yes	<u>No</u>	NA	NS	

Comment on the means used and the ease of access to/operation of isolation method.

Is the means for isolating accessible from outside the machinery space?

6.6	Are there any fuel or oil leaks in the machinery spaces?	<u>Yes</u>	No	NA	NS	0
	Comments on the oridence that leaders have been a			•		

Comment on the evidence that leakage has occurred and any indication of control measure/mitigation.

Caution: Inspector to be aware of hazard/risk of fire depending on circumstances.

A photograph should only be taken if it is safe to do so.

'Yes' generates an entry in the Findings section.

6.7 Are the bilges empty and free from oil residue? Yes No NA NS

	Note: Inspector should ask the reason(s) why the bilges are oily and reco	rd ab	ove.		
<u> </u>		Voc	No	NIA	NIC

6.8	When batteries are the sole means of starting the propulsion engine, are there at least two sets of batteries available?	<u>res</u>	<u>INO</u>	NA	IN S	0
	Comment on the state and condition of battery arrangements.					

6.9	Are there safe means of isolating electrical supplies?	Yes	<u>No</u>	NA	NS	0

6.10	Are electrical systems protected from water?	Yes	<u>No</u>	NA	NS	0
	Comment on the state and effectiveness of protection.					
C 44		Voc	No	NIA	NIC	

6.11	Are battery spaces adequately ventilated?	res	NA	IND	

6.12 Are all batteries secured firmly to prevent movement? Yes No NA NS im
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6.13	Is there adequate and appropriate PPE for personnel	Yes	<u>No</u>	NA	NS	0
	checking/maintaining the batteries (e.g. face shields, rubber gloves)?					

6.14	Is effective emergency lighting provided to allow escape from below/	Yes	<mark>No</mark>	NA	NS	
	under-deck/after deck to allow essential activities to be conducted?					

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6.15	If steering by remote control, are there effective means of emergency	Yes	<u>No</u>	NA	NS	Ō
	steering?					

6.16	Are there two fully working bilge pumps?	<u>Yes</u>	<u>No</u>	NA	NS	Ō				
	Comment on the condition of bilge pumps and pumping arrangements.									
6.17	Is at least one bilge pump available for duty in an emergency?	Yes	<u>No</u>	NA	NS	0				
	Note: The pumps and sources of power, if power-driven, should be in widely separated spaces so that any single event does not disable all the pumping systems.									
6.18	Is an operating bilge alarm fitted in watertight spaces containing machinery or in cargo holds?	Yes	<u>No</u>	NA	NS					
6.19	Are operating manuals available for the machinery?	<u>Yes</u>	<u>No</u>	NA	NS					
	Comment on whether the manuals are in a language that can be understood by the crew.									
6.20	Are adequate tools and the manufacturers' recommended emergency spares available for the machinery?	Yes	<u>No</u>	NA	NS	Ó				
	Comment if emergency spares are not as per manufacturers' recomment	datior	ns (if k	nowr	ı).					
6.21	Are maintenance records available for the onboard equipment?	Yes	<u>No</u>	NA	NS					
	Comment on the state and condition of records.			•	•					
6.22	Is the engine room free from untreated hazards?	Yes	<u>No</u>	NA	NS	Ō				
	Comment on any hazards that appear to have been overlooked or remains a hazard due to inadequate mitigation, e.g. missing or damaged lagging on hot surfaces, loose floor plates, unguarded rotating machinery etc.? Note: SOLAS: All surfaces above 220°C are to be insulated or equivalent protected in order to avoid ignition of flammable fluids. Typical hot surfaces on engine 'body' are as follows: indicator valves (if fitted), cylinder covers, exhaust pipe from each cylinder, tie in to exhaust manifold, exhaust manifold in particular overlaps between steel sheets and laggings, foundation and lifting lugs on exhaust ducts, turbochargers, in particular flanges to such, cut outs for pressure/temperature sensors, etc.; housing surfaces of floodlights. (<i>Ref MSC.1/Circ.1321, 11 June 2009 – Guidelines for measures to prevent fires in engine-rooms and</i>									
6.23	Does the vessel have a planned maintenance system in place covering critical equipment and spares?	Yes	<u>No</u>	NA	NS					
	Are critical equipment spares defined onboard the vessel and is a curren (Ref ISM 10.3 and flag state requirements)	t list a	ivailat	ole?						
6.24	Is the external fuel transfer system in a well maintained and operational condition?	Yes	<u>No</u>	NA	NS					
6.25	Comment on the condition of system connections (signs of leaks, corrosion, etc.) Comment on the maintenance and condition of the dry-break coupling. Has a risk assessment been made for the transfer process? Are formal fuel transfer procedures and checklist in place? Is scheduled pressure test of system carried out and recorded?									
6.25	Additional Section 6 comments?	res	INO							

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7 Stability

7.1	If required does the vessel have an approved stability information booklet onboard?	Yes	<u>No</u>	NA	NS			
7.2	If the vessel is required to carry an approved stability booklet, is there a competent person and appropriate system available to calculate the vessel's stability?	Yes	<u>No</u>	NA	NS			
	Competence should be based on requirements of operating area whether by international, national or industry standards as applicable.							
7.3	Are any stability records available to show the effects of adding or removing loads on the vessel?	<u>Yes</u>	<u>No</u>	NA	NS			
	Comment on the condition of records and the date of the most recent review. Comment on the system of review of records by company management.							
7.4	Are the crew familiar with the stability issues with regards to winches and lifting operations?	Yes	<u>No</u>	NA	NS			

	7.5	Additional Section 7 comments?	Yes	No			O	
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Additional section 7 comments?

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8 Freeboard

8.1	If required by flag state, is the vessel marked with a deck line and freeboard mark?	Yes	<u>No</u>	NA	NS	
	Note: Comment on if the markings are clearly visible.					
8.2	If the vessel is not marked with a deck line and freeboard mark, has the safe maximum draught been determined?	Yes	<u>No</u>	NA		

8.3	Additional Section 8 comments?	Yes	No			
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9 Escape

9.1	Are there at least two means of escape from any normally occupied space?	Yes	<u>No</u>	NA	NS	
	Note on the ease of access to escape routes. Note: 'No' will appear in the Findings section – if two means of escape a due to vessel type, select 'NA' and add a comment to explain.	are no	ot real	istica	lly pra	octical
9.2	Are means of escape clearly marked and the escape route adequately illuminated?	Yes	<u>No</u>	NA	NS	

9.3	If there are not at least two means of escape, are there fire detectors	Yes	<u>No</u>	NA	NS	$\overline{\bigcirc}$
	fitted in the space?					
					-	-

9.4 Additional Section 9 comments? Yes No

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10 Fire

10.1	Are fire detectors and fire call points, where fitted, in working order?	Yes	<u>No</u>	NA	NS	Ø		
	Comment on if there is there a procedure for testing fire detectors and it	f it is o	compl	ied w	ith.			
10.2	If no fire detectors are fitted, are adequate procedures in place to detect smoke or fire?	<u>Yes</u>	<u>No</u>	NA	NS			
	Comment on what these alternative procedures are.							
10.3	Is/are the vessel's fire pump(s) working and available?	Yes	<u>No</u>	NA	NS			
	This may be a manual or power-driven pump.							
10.4	Is a working emergency fire pump available outside the machinery space?	Yes	<u>No</u>	NA	NS	0		
10.5	If fitted, can fire hose(s) deliver a jet of water to any part of the vessel?	Yes	<u>No</u>	NA				
10.6	If available, does the jet/spray nozzle work properly on the fire hose?	Yes	<u>No</u>	NA	NS	0		
10.7	Are the required number and correct type of portable fire extinguishers available on the vessel as defined in the safety plan and with valid service certificates?	<u>Yes</u>	<u>No</u>	NA	NS	0		
	Comment on the number and type of fire extinguishers as required by th Comment on the condition of the extinguishers and the system for main	e ves tainin	sel's s g ther	afety n.	plan.			
10.8	Is there a fixed firefighting system for the engine room?	<u>Yes</u>	<u>No</u>	NA	NS	O		
	Comment on the type of firefighting system fitted and method of operat Note: If there is no fixed firefighting system for the engine room due to the explain how engine room firefighting is effectively conducted.	ion. ype of	fvess	el sele	ect 'N/	A' and		
10.9	Is there a fire blanket in the galley/pantry/cooking area?	Yes	<u>No</u>	NA	NS			
10.10	Do the crew members know how to operate the firefighting equipment?	Yes	<u>No</u>					
10.11	Additional Section 10 comments?	Yes	No			0		

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11 Radio

			1		1				
11.1	Is the radio equipment in good working order?	Yes	<u>No</u>	NA	NS	O			
	Note: Radio installation and vessel's radio licence should be in accordance	ce wit	h eac	hothe	er.				
	Safety radio equipment should be tested at regular intervals, e.g. prior to	o sailir	ng, we	ekly o	or mo	nthly.			
11.2	Has the vessel had a recent Class radio survey, or radio verification report (eg. Mecal), or annual UK Code survey which physically tested the equipment?	Yes	<u>No</u>	NA	NS	ð			
	Note: Not all eMISW vessels are required to carry a radio logbook, ho testing radio equipment, vessels are recommended to follow standard S for daily, weekly and monthly checks of battery voltage, back-up supply test etc. Operators who have their own customised deck logbooks may ha into the logbook daily pages, so they have a record.	weve SOLAS , DSC ave in	r a sta GMD self-to corpo	andar SS re est, D rated	d exis quire SC ex these	sts for ments ternal e tests			
11.3	Is the crew familiar with the correct operation of the radio equipment?	Yes	<u>No</u>						
11.4	Is an emergency position indicating radio beacon (EPIRB) fitted? Is the hydrostatic release unit (HRU) fitted correctly?	Yes	<u>No</u>	NA	NS	Ō			
	Comment on if the EPIRB battery and HRU are within valid dates								
	Note: A 406 MHz EPIRB. Vessels trading exclusively in sea area A1 may fit a VHF DSC EPIRB in lieu of a 406 MHz EPIRB.								
11.5	Is a search and rescue transponder (SART) fitted?	Yes	<u>No</u>	NA	NS	D			
	Note: The fitting of a SART may be a recommendation or a requirement depending upon the local maritime administration.								
11.6	Is a Navtex receiver fitted?	Yes	<u>No</u>	NA	NS				
	Note: NAVTEX is a system used for the broadcast of localised marine safet TELEX. Comment on how the crew monitor, utilise and keep control of the NAVT	y info FEX m	ormati essag	on (M es.	ISI) by	radio			
11.7	Are the required crew members with an approved certificate for operation of the radio equipment onboard?	Yes	<u>No</u>	NA	NS				
11.8	Are cards available giving a clear summary of the radio telephone distress, urgency and safety procedures?	<u>Yes</u>	<u>No</u>	NA	NS	Ō			
	Comment on whether these are available in languages appropriate to the	natior	nal cor	tent	of the	crew.			
11.9	Are there clear instructions for the operation of the hand-held VHF radios?	Yes	<u>No</u>	NA	NS	Ì			
11.10	Are the batteries for the radio station in good working condition and securely stowed?	Yes	<u>No</u>		NS				
11.11	Are sealed spare batteries for the hand-held VHF radio(s) available and charged?	<u>Yes</u>	<u>No</u>	NA	NS	0			
	Comment on the number of spare batteries and the routine for checking	batte	ery life						
11.12	Is the vessel's call sign and Maritime Mobile Service Identity (MMSI) clearly displayed?	Yes	No	NA	NS	Ō			
			•		•				
-									

11.13	Additional Section 11 comments?	Yes	No		Ō

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12 Navigation equipment

-									
12.1	Are navigation lights in good working order?	Yes	<u>No</u>	NA	NS	$\overline{\bigcirc}$			
	Note: Including secondary system if fitted.								
12.2	Is there a means of making an efficient sound signal?	Yes	<u>No</u>			$\overline{\bigcirc}$			
12.3	Are navigational day shapes available?	Yes	<u>No</u>	NA		0			
12.4	Is the magnetic compass in working order?	Yes	<u>No</u>	NA	NS	0			
	Comment on: Does the light work on the magnetic compass? Does the magnetic compass have a valid deviation card? Confirm that the recorded deviation corresponds with the actual deviation. If no deviation record is maintained, comment if the last adjustment was within the last two years. A fluxgate compass is an acceptable alternative only if provided with an independent back up power supply.								
12.5	Is a global navigation satellite system or a terrestrial radio navigation system available?	Yes	No	NA	NS	Ō			
	'No' does not generate a finding.								
12.6	Is there means of measuring the speed through the water and/or distance covered?	Yes	<u>No</u>	NA	NS				
12.7	If an echo sounder is fitted is it in working order?	Yes	<u>No</u>	NA	NS				
	Note: Other means to measure the depth of water may be used.								
12.8	Are approved, current, corrected charts available?	Yes	<u>No</u>	NA	NS	0			
	Note: An electronic chart plotting system complying with appropria requirements may be fitted in place of a chart outfit.	te ma	aritim	e adr	ninist	ration			
12.9	Are relevant publications onboard? Are current tide tables available?	Yes	<u>No</u>	NA	NS	0			
	Note: Are current tide tables available? Is there a tidal stream atlas available is there a copy of the list of radio signals available for the area of conternational Code of Signals available?	ole for operat	the a tion?	rea of Is a c	opera opy o	ation? of the			
12.10	Is an efficient waterproof signalling lamp suitable for Morse signalling provided?	Yes	<u>No</u>	NA	NS	0			
						 1			
12.11	Is an efficient radar reflector fitted?	Yes	<u>No</u>	NA	NS	0			
		1				,			
12.12	Is there a working fixed or portable searchlight for a vessel that may operate in darkness?	Yes	<u>No</u>			Ō			
		1		1	1				
12.13	Does the vessel have an anchor as required by relevant regulations sufficient anchor cable for the proposed area of operation?	Yes	<u>No</u>	NA	NS	Ō			
12.14	Additional Section 12 comments?	Yes	No						

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13 Navigation

13.2	Is a comprehensive passage plan available for the current voyage and	Yes	<u>No</u>	NA	NS	
	does it cover the full voyage from berth to berth?					

Passage plan should be prepared by an appropriate officer and verified by master;

Passage plan information should be readily available for watchkeepers' use.

Note the system of passage planning in use and how the passage plan is produced, whether this is manually or by computer.

Note: IMO A.893 states, '1.2 The need for voyage and passage planning applies to all vessels.' *SOLAS Chapter V, Regulation 34 applies to all vessels.*

13.3	Does the vessel have written procedures for entry into a 500-metre	Yes	<u>No</u>	NA	NS	
	zone?					

13.4	Are up-to-date navigation warnings and weather forecasts available?	Yes	<u>No</u>	NA	NS	
	Comment on the routine for how these are provided to the vessel					

13.5	Additional Section 13 comments?	Yes	No		O

REALEM

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14 Accommodation

1.1.1	Is all have agging and in the accommodation secured?	Yes	No	NΔ	NS	
14.1	is an neavy equipment in the accommodation secured:	105			113	
			1	1	1	1
14.2	Is there an efficient working ventilation system for confined spaces that may be entered by personnel?	Yes	<u>No</u>	NA	NS	Ō
	(Ref IMCA SEL 034 – Working in confined spaces)					
14.3	Are there adequate stowage facilities for personal effects/luggage for the passengers when embarked?	Yes	<u>No</u>	NA	NS	0
14.4	If a pantry or tea and coffee making facilities are provided, is/are the area(s) clean and appropriate for safe use?	Yes	<u>No</u>	NA	NS	Í
14.5	Are there adequate toilet facilities for the proposed passengers?	Yes	<u>No</u>	NA	NS	Ō
14.6	Is the vessel to be at sea for more than 24 hours? If yes, questions 14.7 to 14.13 should be answered.	Yes	No			
	'No' does not generate a finding.					
14.7	Is there a galley/pantry/cooking area with adequate means for preparing food, a stove for cooking and a sink?	Yes	<u>No</u>	NA	NS	
14.8	Are there adequate means for the safe storage and handling of food supplies, including frozen and chilled where required?	Yes	<u>No</u>	NA	NS	
14.9			NIE		NIC	
	conditioning and/or sufficient means of heating if appropriate?	Yes	<u>INO</u>	NA	NS	
	conditioning and/or sufficient means of heating if appropriate?	Yes	<u>INO</u>	NA	NS	
14.10	Is there adequate ventilation to all accommodation spaces including air conditioning and/or sufficient means of heating if appropriate?	Yes	No	NA	NS	
14.10	Is there adequate ventilation to all accommodation spaces including air conditioning and/or sufficient means of heating if appropriate?	Yes	NO NO	NA	NS	
14.10	Is there adequate ventilation to all accommodation spaces including air conditioning and/or sufficient means of heating if appropriate? Is there adequate electric lighting?	Yes Yes Yes	NO NO	NA	NS	
14.10	Is there adequate ventilation to all accommodation spaces including air conditioning and/or sufficient means of heating if appropriate? Is there adequate electric lighting?	Yes Yes Yes	NO NO	NA	NS	
14.10 14.11 14.12	Is there adequate ventilation to all accommodation spaces including air conditioning and/or sufficient means of heating if appropriate? Is there adequate electric lighting? Is there an adequate supply of fresh drinking water? Are there potable water testing routines that include legionella testing?	Yes Yes Yes	NO NO	NA	NS NS NS	
14.10 14.11 14.12	Is there adequate ventilation to all accommodation spaces including air conditioning and/or sufficient means of heating if appropriate? Is there adequate electric lighting? Is there an adequate supply of fresh drinking water? Are there potable water testing routines that include legionella testing?	Yes Yes Yes	<u>No</u> <u>No</u>	NA	NS NS	
14.10 14.11 14.12 14.13	Is there adequate ventilation to all accommodation spaces including air conditioning and/or sufficient means of heating if appropriate? Is there adequate electric lighting? Is there an adequate supply of fresh drinking water? Are there potable water testing routines that include legionella testing? Is there a bunk or cot for all those that will be onboard?	Yes Yes Yes Yes		NA NA NA	NS NS NS	
14.10 14.11 14.12 14.13	Is there adequate ventilation to all accommodation spaces including air conditioning and/or sufficient means of heating if appropriate? Is there adequate electric lighting? Is there an adequate supply of fresh drinking water? Are there potable water testing routines that include legionella testing? Is there a bunk or cot for all those that will be onboard?	Yes Yes Yes Yes		NA NA NA	NS NS NS	

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15 Safety of personnel

15.1	Does the crew have access to and use appropriate personal protective safety equipment?	Yes	<u>No</u>							
	Comment on the availability of safety equipment and how this is determ	ined.								
15.2	Is there a safe means of access to and from the vessel?	<u>Yes</u>	<u>No</u>	NA	NS	$\overline{\bigcirc}$				
	Comment on the procedures in place for the briefing of passengers on the safe methods of transferring to and from the vessel when in port.									
	Is the vessel's gangway certified?									
	Does the vessel have a certificate for the for the pilot ladder(s)?									
	Are gangways marked with maximum POB/SWL?									
	Comment on maintenance and inspection routines for the gangway.				_					
15.3	Is there a procedure for the transfer of personnel to and from an offshore structure and other vessels?	Yes	<u>No</u>	NA	NS	0				
	A procedure for transfer of passengers to and from the vessel to an offsho must be available onboard and should be in accordance with the Charter	ore st ers' p	ructu	re or o lures.	other	vessel				
	Comment on the procedures in place for the briefing of passenger transferring to and from the vessel when at sea.	s on	the s	safe r	netho	ds of				
	(Ref IMCA SEL 025/IMCA M 202 – Guidance on the transfer of personnel and structures)	to and	d fron	n offsl	nore v	essels				
15.4	Is there evidence of full compliance with the company's HSE management system?	<u>Yes</u>	<u>No</u>	NA	NS	0				
	Comment on whether key personnel have knowledge of the safety mana to their duties. Note: All loose gear on and below deck should be safely secured away. Smoking regulations should be in place and complied with. Safety signs and relevant safety information should be prominently displ	geme	ent sys	stem a	appro	priate				
15.5	Are risk assessments conducted onboard where necessary?	Yes	<u>No</u>	NA	NS					
	Note if training in the conduct of risk assessments is provided to personr	el.								
15.6	Does the safety management system address regulatory requirements and industry guidance?	Yes	<u>No</u>	NA	NS					
	Note if risk assessments are conducted for substances hazardous to health radiation, noise, manual handling, lifting equipment management system Note if there is a system in place to provide crew with industry guidance e.g. Certificate of employer's liability available for third parties working o	n, disp ns, SIN notes n the	olay so MOPS s	as ap	equip plicab	ment, le.				
15.7	Is there a formal management of change policy/procedure in place?	Yes	No	NA	NS					
	Comment on the process if one exists, including the apparent level of use If 'No' is selected then please provide details in the comments box of wha	e. t arra	ngem	ents a	are in	olace.				

'No' does not generate a finding.

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15.8	Is a permit to work (PTW) system in use onboard?	<u>Yes</u>	<u>No</u>	NA	NS	0		
	Comment on the types of tasks covered by permits and whether there is effectively applied.	evide	ence t	hat th	ie syst	tem is		
	For example, working at height, diving (including underwater sh radiation/electrical hazards, fuelling/bunkering, enclosed space ac pressurised systems, tensioned lifting systems. Note:	ip hı cess,	usban store	dry), ed ei	hot nergy,	work, e.g.		
	 How isolations are identified and managed Use of a 'tag out' system 							
	Training in the PTW system	.			.	1		
15.9	Are enclosed spaces and controls for entry identified onboard?	Yes	<u>No</u>	NA	NS	0		
	 Note: Entry permit system should be in use (to include testing of atmosphere for oxygen and toxic gases) with records available for inspection. This atmosphere test should be conducted both before and during the enclosed space entry to ensure acceptable limits are maintained throughout the operation. Atmosphere measuring instrumentation should be calibrated; a process should be in place to ensure staff are trained and aware of limitations of gas meters. Records should be fully completed and signed off when work is completed. Enclosed spaces should be adequately ventilated before and during entry. Vent fans should be available and be operated in extraction mode when in use. Appropriate breathing apparatus available; if there are limitations on its use, is there a process for ensuring users are aware of these limitations? 							
15.10	Are procedures used for carrying out hot work on the vessel?	Yes	<u>No</u>	NA	NS	0		
	 Note: Requirements for PPE and confirm available for use. Records fully completed including signatures. Welding equipment should be routinely inspected, inspection record Flashback arrestors fitted to gas and oxygen bottles. Fire sentry system used to monitor adjacent spaces and compartme Spare gas and oxygen bottles stored apart in dedicated stowages, accommodation and machinery spaces. Cylinders colour coded. 	led. nts. clearl	y mai	rked a	ind oi	utside		
15.11	Are there adequate guardrails around the deck?	Yes	<u>No</u>	NA	NS	$\overline{\bigcirc}$		
	Are the guardrails in accordance with the International Convention on Lo Regulations 25 or national regulations as applicable? Note: The use of temporary guardrail arrangements may be in place suitable provisions and additional safety measures should be complen arrangements.	ad Lin and v ventar	where	966, a e thes these	s ame e are temp	nded, used oorary		
15.12	Are there at least two safety harnesses onboard and additional harnesses for all those required to work on deck?	<u>Yes</u>	<u>No</u>	NA	NS	Ō		
	Comment on the routine in use for maintenance and the replacement of	harne	esses.	1	n			
15.13	Is the surface of the working deck non-slip?	Yes	<u>No</u>	NA	NS	Ō		

15.14	Are personnel provided with protective clothing appropriate to the	Yes	<u>No</u>	NA	NS	Ō	
	prevailing air and sea temperatures?						

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15.15	If the mean seawater temperature is 15°C or less, is there an approved survival suit for each person onboard?	Yes	<u>No</u>	NA	NS	0
	Note: Survival suit may include an approved immersion suit, dry suit, trar ISO 15027-1.	nsfer s	uit or	floata	ation s	suit to
	Immersion suits can be supplied by the passengers themselves.			-		
15.16	Have measures been taken to prevent personnel being exposed to noise levels that exceed 80dB (A)?	<u>Yes</u>	<u>No</u>	NA	NS	0
	Are noise-warning signs posted as appropriate? Comment on the provision of ear defenders and the appropriate signage (A). (Ref IMO Resolution A.468(XII) (1981) – Code on noise levels on-bo mandatory for new ships on 1 July 2014)	e to ar ard s	eas g hips -	reater – <i>whi</i>	r than ich be	80dB ecame
15.17	Is a safety briefing/induction given to all personnel who embark for a voyage covering such items as the use of life jackets and procedures to be followed in the case of an emergency?	Yes	<u>No</u>	NA		
	 Note: Evidence of crew and contractor inductions. Induction appropriate to the vessel, operation and structure. Includes a safety tour process for new personnel. 					
15.18	Are personnel visiting the vessel given an appropriate safety briefing?	Yes	<u>No</u>			
	Note arrangements in place for briefing/managing the safety of visitors.		•	•	•	
15.19	Is there a bridging document or equivalent between vessel owners and external companies for contractors' employees working onboard to ensure responsibilities for health and safety are clearly defined and safety management systems aligned?	Yes	<u>No</u>	NA	NS	
	Note arrangements in place for briefing/managing the safety of contract	ors.				
15.20	Are formal written emergency procedures provided for man- overboard, collision, emergency towing, grounding, fire, explosion, gas or toxic vapour release?	<u>Yes</u>	<u>No</u>	NA	NS	
	Comment on the suitability and crew awareness of the procedures availa	able.				
15.21	Is a record of emergency training drills and exercises maintained?	Yes	<u>No</u>	NA	NS	
	Note: Some national authorities require that emergency exercises and who participated and when the exercise or drill took place. Inspectors sh requirements applicable to the vessel.	drills nould	are re have l	ecordo knowl	ed sh edge	owing of the
15.22	Is there an up to-date onshore/offshore emergency response plan/manual?	Yes	<u>No</u>	NA	NS	
	Note: A plan for the response by onshore personnel to an emergency of should be in place as part of the company's safety management system.	currii	ng on	the v	essel	at sea
15.23	Are adequate and valid medical stores provided?	Yes	<u>No</u>	NA	NS	0
	Note: Consider using company standards or the information given in lo	cal m	aritim	e adr	ninist	ration

Note: Consider using company standards or the information given in local maritime administration guidance or regulation e.g. MSN 1768 (UK), Maritime Rules Part 50 (New Zealand).

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15.24	Are procedures for control, stowage and handling of chemicals and flammable/combustible materials in place and being consistently applied?	Yes	<u>No</u>	NA	NS	
	Note:					
	• Evidence of appropriate Control of Substances Hazardous to Heaprocedures.	alth (COSHI	H) or	equiv	valent

- Copies of material safety data sheets should be available.
- Specialist advice available.
- Chemicals should be stowed away from ropes or other materials that might be contaminated in the event of spillage.
- For example, for procedures for the management of chemicals/oils brought onboard by third parties material safety data sheets etc.

	parties – material safety data sheets etc.						
15.25	Is there an asbestos management system?	Yes	<u>No</u>	NA	NS		
	Note if there is a requirement for an asbestos management plan If yes, comment on the basic details and availability of general arrangement plans. Are warning signs displayed and an asbestos log maintained? If there is no plan where one is applicable an 'asbestos free' certification should be available.						
15.26	Does the safety management system address hazards associated with slips, trips and falls as well as other risks?	Yes	<u>No</u>	NA	NS		
	Is there evidence that the crew have a proactive approach to safety is scheduled safety inspections.	sues?	For e	examp	ole, ro	outine	

15.27	Additional Section 15 comments?	Yes	No			0
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REALEM

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16 Crane

16.1	Is there a valid test certificate for the crane if fitted?	Yes	<u>No</u>	NA	NS	
	(Ref IMCA LR 006/M 187 – Guidelines for lifting operations)					
16.2	Is the crane wire appropriately rated for the crane's safe working load (SWL) rating plate?	Yes	<u>No</u>	NA	NS	
16.3	Is there a competent crane operator onboard?	<u>Yes</u>	<u>No</u>	NA	NS	
	Comment on whether the crew responsible for handling loads hold a slinger & signaller qualif Are the crew associated with handling loads competent in slinger & signaller techniques? (Ref IMCA LR 006/ M 187 – Guidelines for lifting operations)					

16.4 Additional Section 16 comments?	Yes	No			0
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RENTEN

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17 Manning

17.1	Does the crew have valid certificates of competency as required, including flag state endorsements if applicable?	Yes	<u>No</u>	NA	NS	
	Note: For example, certificate issued by the flag or coastal state, a cooffshore (motor) or a boatman's licence for the appropriate area. (Ref IMCA C 017 – Guidance on competence assurance and assessment: Note:	ertific <i>Iarine</i>	cate a roles	is ay forsn	achtm nall ve	naster ssels)
17.2	Is the manning in compliance with vessel's Minimum Safe Manning Certificate, or as otherwise required as per flag state requirements?	Yes	<u>No</u>	NA	NS	9
	If operating exclusively within the territorial waters of another coastal s the crew manning complement and the crew's certificates of competence coastal state authorities?	state, y have	is the beer	ere ev nacce	idence pted k	e that by the
17.3	Is there a person onboard familiar with the operation and maintenance of the main propulsion machinery?	Yes	<u>No</u>	NA	NS	
17.4	Is there at least one person onboard who holds an approved medical first aid certificate?	Yes	<u>No</u>	NA	NS	
17.5	Has the person in command and any member of the crew who is liable to use the radar/electronic navigations systems/electronic chart plotters undertaken appropriate training in its use?	Yes	<u>No</u>	NA	NS	
	Note: This may not be a requirement of flag or coastal state authorities.	•	•	•	•	
17.6	Are the crew members able to satisfactorily demonstrate operation of life-saving appliances and firefighting equipment?	Yes	<u>No</u>	NA	NS	
17.7	Do critical personnel (e.g. captain, chief officer & chief engineer) complete a handover period including familiarisation appropriate to their position?	Yes	<u>No</u>			
17.8	Are periods of crew hours of work and rest recorded?	Yes	<u>No</u>	NA	NS	0
	Note: Under MLC and STCW requirements ship-owners are required to in of work and rest. (MLC Regulation 2.3 and STCW A viii/1 refer)	dividu	ually r	ecord	crew	hours
17.9	Is there a maximum contract duration for officers/crew?	Yes	<u>No</u>		NS	
	State the maximum duration.					
17.10	Additional Section 17 comments?	Yes	No			

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18 Reporting

18.1	Are accidents and incidents investigated and reported in accordance	Yes	<u>No</u>	NA	NS	
	with relevant flag state and/or coastal state and operator's					
	requirements:					

18.2 Is there evidence of near misses being reported, investigated and followed up?	Yes	<u>No</u>	NA	NS	
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18.3	Additional Section 18 comments?	Yes	No		

RENTEN

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19 Clean seas

19.1	Are adequate arrangements in place to prevent the discharge of sewage in prohibited areas?	Yes	<u>No</u>	NA	NS	
	Are prohibited areas for sewage discharge identified?					
	Note - MARPOL IV only applies to ships engaged in international voyages	of 40	0GT a	nd ab	ove.	
19.2	Are arrangements in place for the retention of garbage onboard?	Yes	<u>No</u>	NA	NS	Ō

19.3	Is a garbage management plan in place and is an associated garbage record book maintained?	Yes	<u>No</u>	NA	NS		
	Note: MARPOL requirement for vessels >100 GT or certified to carry 15 persons or more.						
19.4	Are arrangements in place for the handling of oily wastes?	Yes	<u>No</u>	NA	NS	$\boxed{\bigcirc}$	

19.5	Are arrangements in place for the prevention of discharge of oil/oil-	Yes	<u>No</u>	NA	NS	
	contaminated water overboard?					

Comment on the suitability and effectiveness of arrangements.

Note: Vessels may be fitted with automatic bilge pump arrangements and procedures should be in place to prevent the accidental discharge of oil via such systems.

Note: Add MARPOL Annex I Reg. 15 < 400GT C6

19.6	Additional Section 19 comments?	Yes	No		0

REVIEN

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20 Life-saving appliances

20.1	Is/are there a life raft(s) onboard sufficient for the proposed maximum POB?	Yes	<u>No</u>	NA	NS	
	If no life raft is fitted, comment on the intended method to abandon the do so.	e vess	el at s	sea if	requir	ed to
20.2	Are the number and type of life buoys as required and are they in satisfactory condition?	Yes	<u>No</u>	NA	NS	
	Note: Refer to the vessel's fire and safety plan.					
20.3	Is there an approved life jacket for every person carried on the vessel?	<u>Yes</u>	<u>No</u>	NA	NS	
20.4	Are there the required number and type of pyrotechnic distress signals onboard the vessel?	Yes	<u>No</u>	NA	NS	O
			ſ	1		
20.5	Is effective emergency lighting provided to illuminate survival craft launching and embarkation areas?	Yes	<u>No</u>	NA	NS	٥
20.6	Is effective emergency lighting provided to illuminate man-overboard (MOB) rescue equipment and recovery area?	<u>Yes</u>	<u>No</u>	NA	NS	O
	Comment on the condition, effectiveness and ease of operation.					
	Note any provision of emergency lighting for man-overboard rescue.	1	1	1		1
20.7	Is there a thermal protective aid for every person carried on the vessel?	Yes	<u>No</u>	NA	NS	Ō
			-	-		
20.8	Are there effective means to recover a person from the water?	<u>Yes</u>	<u>No</u>	NA	NS	$\boxed{\bigcirc}$
20.9	Are life-saving signal tables available?	Yes	<u>No</u>	NA	NS	
	Note: Requirement for SOLAS No.1 poster and/or No.2 card or similar.					
20.10	Is there a means of sounding a general alarm in the event of an emergency?	<u>Yes</u>	<u>No</u>	NA	NS	
	Comment on the suitability and effectiveness of the alarm if fitted. Notes:					
	 Alarm should be audible in all spaces personnel may be located. Some national authorities require an alarm to be fitted – inspector current applicable regulations. 	rs sho	uld ha	ave kn	owled	dge of
20.11	Is there a training manual for use of life-saving appliances (LSA)?	<u>Yes</u>	<u>No</u>		NS	
L	Comment on whether the training manual includes ship-specific equipme language.	ent ar	nd is ir	n the a	appro	priate
20.12	Are there instructions for onboard maintenance of the LSA?	Yes	<u>No</u>	NA	NS	0
	Note: These may be contained in a dedicated manual or the builders manual.	sup	plied	vesse	l opei	ration

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21 Mooring and berthing

21.1	Are there adequate mooring points on the vessel?	Yes	<u>No</u>	NA	NS	0
21.2	Is there a sufficient number of mooring lines in good condition?	Yes	<u>No</u>	NA	NS	0
21.3	Are mooring winches and fairleads in good condition?	Yes	<u>No</u>	NA	NS	0
	Note: The condition of winches and fairleads and evidence of maintenan	ce sho	ould b	e che	cked.	
21.4	Is adequate fendering available?	Yes	<u>No</u>	NA	NS	0
	Note: The provision of suitable and sufficient fenders is often overlooked	l on sr	mall v	essels		
21.5	Additional Section 21 comments?	Yes	No			0

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22 Vessel and cyber security

22.1	Is the vessel required to have an approved ship security plan that meets (ISPS) code requirements?	Yes	No	NA	NS	
	Note: Not mandatory for vessels under 500GT					
22.2	If the vessel is not required to have an approved ship security plan because of tonnage or trading area, are there any security procedures in place?	Yes	<u>No</u>	NA	NS	

If a vessel is not required to have a ship security plan, verify that security procedures are in place onboard covering:

- company security obligations
- company security officer or representative
- vessel security obligations
- vessel security officer
- responding to a security incident
- reporting and follow up of security incidents
- port and vessel operations
- visitor management
- restricted or controlled areas
- training, drills and exercises.

(Ref MSC/Circ.1097, MSC/Circ. 1111, ISPS Code Part B – Chapter 3, Chapter 4 Para 4.20, SOLAS XI-2 Reg 11)

22.3	Does the vessel have specific port security procedures covering visitors,	Yes	<u>No</u>	NA	NS	0
	storing and vessel gangway watchkeeping requirements?					

Is a visitors' log maintained and comment on where this is located when the vessel is in port?

Confirm that security badges are issued to all visitors while the vessel is in port.

Confirm that a gangway watch is maintained.

Confirm that random searches of visitors' baggage are conducted.

Is there signage at the gangway?

(Ref ISPS Code Part A Chapter 7)

22.4	Does the vessel have a cyber security management system and/or a	Yes	<u>No</u>	NS	
1	cyber security plan?				

If none record as 'No' to include as a finding and comment on any other arrangements with respect to cyber security.

Describe the cyber security management system / plan. How often is the plan reviewed? Whilst the ISPS Code only requires the SSP to be reviewed every five years, given the rapid evolution of cyber security threats it is good practice to review the plan more frequently.

Note any associated procedures in the SMS.

Are cyber security issues included as part of internal audits?

Note: If there is a designated cyber security officer or if this is combined with the CSO duties. Has the CySO undertaken specific training on CyS.

(Ref IMO MSC-FAL.1/Circ 3 5th July 2017, IET Code of Practice – Cyber Security for Ships Chapter 6, 7)

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22.5	Is connection of personal IT devices such as phones, tablets and laptops to the ships network controlled?	Yes	<u>No</u>	NA	NS	
	The measures should be more than just a password entry. Is there a requirement to sign on a portal, sign up process? Are these devices covered by the company firewall/ protective software? Are there download restrictions? Type of files, running applications, etc. Is the information on number, type and application owners information of Is the information on internet access logged, including browsing history? Does the system prevent web browsers and email clients from executing (Ref IET Code of Practice – Other Security for Shins Ann E)	? readil [,] malic	y avai cious s	lable?	5.	
22.6	Are there formal interfacing procedures and protocols in place for visitors, technicians, port officials, etc. to use their equipment onboard?	Yes	<u>No</u>		NS	
	Access to certain networks for maintenance reasons should be approved appropriate procedures as outlined by the company/ship operator. Procedures should require a clean anti-malware scan of all equipment bef system or network. If a visitor requires computer and printer access, an independent compute all controlled networks, should be used. (<i>Ref IET Code of Practice – Cyber Security for Ships</i>)	d and ore co er, wł	coord onnec nich is	dinate tion to air-ga	d follo o any v appec	owing vessel I from
22.7	Are there formal controls and procedures in place for handling data using portable media devices such as USB memory sticks, CD/DVDs, and portable computers?	Yes	<u>No</u>		NS	
	Transferring data from uncontrolled systems to controlled systems introducing malware. Removable media or computers can be used to by can be used to attack systems that are otherwise not connected to the in use of such media devices is essential; it must ensure that media device transfer information between un-controlled and controlled systems. Policies and procedures relating to the use of removable media should in any removable media device prior to connecting to any vessel network o /scanning station that is not connected to the ship's controlled networks (<i>Ref IET Code of Practice – Cyber Security for Ships App F</i>)	repres vpass terne es are clude r syst	sents layers t. A cl e not a req ems, i	a ma of de ear po norma uirem using a	ajor r efence blicy fo ally us ent to a com	isk of es and or the sed to o scan
22.8	Are there measures to ensure the integrity of electronic chart display systems if fitted?	Yes	<u>No</u>	NA		
L	The measures should be more than just password entry. Are there de updates. Administrative privileges controlled/ differing levels of access. Periodic Service by service engineer. OS updates. Record of software issues and events investigated. Measures in place to protect the data integrity of the system.	dicate	ed po	rtable	devi	ce for
22.9	Additional Section 22 comments?	Yes	No			O

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S1.1	Is the vessel's DP class notation free from any class-imposed restrictions?	<u>Yes</u>	<u>No</u>	<u>NA</u>	NS					
	Comment on the vessel's DP class notation. DP class restrictions, if any,	shoul	d be s	tated						
	Note: If the vessel does not have a DP notation, select NA and add a con	nmen	t acco	rding	ly.					
S1.2	Does the vessel have onboard a copy of the most recent DP trials report?	Yes	No		NS					
	Note: The inspector should review the previous report and verify that appropriate corrective action has been taken on any findings. Actions not closed-out are to be carried forward to this report under the original date. Note where not available and state reasons why.									
	'No' does not generate a finding.									
S1.3	Does the vessel have onboard a copy of the most recent vessel DP failure modes and effects analysis (FMEA) or failure modes, effects and criticality analysis (FMECA)?	Yes	No	NA	NS					
	Note: The inspector should review the previous report and verify that a has been taken on any findings. Actions not closed-out are to be carried the original date.	pprop forwa	riate rd to	corre this re	ctive a eport	action under				
	Note: where not available and state reasons why.									
	Note: FMEA only required for DP 2 and DP3 vessels									
64.4	No does not generate a finding.	Voc	No	NA	NC					
51.4	Does the vessel have appropriate DP checklists?	105		NA	113					
r	Note: Field arrival checklist, DP watch handover checklist, ER DP checklis	ts.		1	1					
S1.5	Does the vessel have onboard a DP operations manual?	Yes	<u>No</u>	NA	NS					
	Note: The DP operations manual is specific to the vessel. State if the DPC with the DP operations manual. The DP operations manual contents ar A guide to DP-related documentation for DP vessels. Note where not available.)s and e out lable	engii lined and st	neers in IM ate re	are fa CA M eason	miliar 109 — s why.				
S1.6	Do the DP operators have access to the DP capability plots?	Yes	<u>No</u>		NS					
	Note: The inspector should check that the DP capability plots show the w and practical footprints using IMCA M 140 – <i>Specification for DP capab</i> available and state reasons why.	orst c ility p	ase fa <i>lots</i>).	ilure Note	(theoi whe	retical re not				
S1.7	Do the DP operators carry the appropriate DP qualification?	<u>Yes</u>	<u>No</u>	NA	NS					
	Comment on the number of qualified DP operators. Comment, where appropriate, on whether the DP operators signed a stat read and understood the vessel's FMEA. Note: Details of onboard training should be noted.	emer	it to s	ay tha	t they	/ have				
S1.8	Does the vessel maintain a DP incident log?	Yes	<mark>No</mark>	NA	NS					
	Note: The inspector should check for recorded incidents, subsequent recorded out actions.	equire	ed act	ions a	and n	ote of				
S1.9	Is the DP equipment maintenance log up to date?	Yes	<u>No</u>	NA	NS					
	Note: The inspector should comment if any DP related equipment is not	funct	ional.							
S1.10	Does the vessel operator contribute to the IMCA DP station keeping reporting scheme?	Yes	No		NS					
	Note: A 'No' does not generate a finding.									
S1.11	Additional Supplement comments?	Yes	No			$\overline{\bigcirc}$				

Supplement 1 Dynamic Positioning

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Supplen	nent 2 Towing					
S2.1	Is there a suitable towage point arrangement on the vessel, allowing it carry out towing operations safely?	Yes	<u>No</u>		NS	Ō
S2.2	Is the towing equipment certified?	Yes	<u>No</u>	NA	NS	
S2.3	Are there protected areas provided for crew working on the stern during a towing operation?	Yes	<u>No</u>	NA	NS	Í
S2.4	Has a risk assessment for towing operations been made?	Yes	<u>No</u>	NA	NS	
S2.5	Is there a safe method to release the towing rope?	Yes	<u>No</u>		NS	0
	Comment on the suitability and adequacy of the safety of the proced understood by the crew members and is subject to adequate testing pro	lure, i cedur	nclud e.	ing w	hethe	r it is
S2.6	Is there a towing operations manual and does it reference vessel stability?	Yes	stood <u>No</u>	NA	NS	
			•			
S2.7	Does the master have a tug CoC or a towage endorsement?	Yes	<u>No</u>		NS	
		•	•		•	
S2.8	Are the crew familiar with the vessel's towing procedures?	Yes	<u>No</u>	NA	NS	
				•	•	
S2.9	Does the vessel have emergency towing procedures?	Yes	<u>No</u>	NA	NS	
					•	
S2.10	Does the vessel have a valid bollard pull test certificate?	Yes	<u>No</u>	NA	NS	Ō
	Note: Comment only required if local regulations require specific condi- age of the certificate, e.g. some authorities require re-testing after a spe Select NA if not required.	itions cific p	to be eriod	met :	such a	as the
S2.11	Is there a system to prevent girding/girting?	Yes	<u>No</u>	NA	NS	
	Note: Towing from amidships on conventionally propelled vessels should such as gob wire should be in place.	be av	oided	– use	e of sy	stems
S2.12	Additional Supplement comments?	Yes	No			0

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Supplement 3 Diving

\$3.1	Does the vessel have a procedure for the secure mooring and recovery of moorings?	Yes	<u>No</u>	NA	NS	
				-	-	-

S3.2	Does the vessel have procedures for the safe use of engines and DP (if fitted)?	Yes	<u>No</u>	NA	NS	

S3.3 Does the vessel have a planned procedure for the recovery of a diver?	Yes	<u>No</u>		NS	0
--	-----	-----------	--	----	---

Note: Arrangements should also be in place to recover an injured or unconscious diver from the water to the deck.

If the inspector is not familiar with diving procedures they should only consider the observable feasibility of the recovery procedure and avoid any subjective assessment.

S3.4	Do the crew have an understanding of the stability implications when	Yes	<u>No</u>	NA	NS	
	carrying a dive spread?					

S3.5	Does the vessel carry the international signal(s) that diving is underway?	Yes	<u>No</u>		NS					
	Note: This will typically be the signal flag alpha or 'diver down' flag, suitable lights (if relevant), etc.									
S3.6	Has a Diving Equipment System Inspection Guidance Note (DESIGN) document been completed within the last 12 months?	Yes	No	NA	NS					
	Note: The inspector is not being asked to confirm the adequacy of the document, merely that it is present. 'No' does not generate a finding. If a mothercraft is present there should be a DESIGN document for the dive system on the small vessel and a separate DESIGN document for the elements of the dive system on the mothercraft, e.g. decompression chamber.									

53.7 Does the vessel have emergency procedures for diver decompression	103	INA	113	$\underline{\bigcirc}$
illness?				

Note: Twin-lock air recompression chamber complying with the requirements of IMCA D 023 – *DESIGN for surface orientated (air) diving systems* – should be readily available on the vessel or mothercraft in a short time period.

If the inspector is not familiar with diving procedures they should only consider the observable feasibility of these procedures and avoid making any subjective assessment.

S3.8	Does the vessel carry a first aid kit and an oxygen administration set?	Yes	<u>No</u>	NA	NS	0

S3.9	Additional Supplement comments?	Yes	No		0

Important references relating to this supplement as follows:

 ${\it IMCA D 015-Mobile/portable/daughtercraft surface supplied systems}$

IMCA D 023 - DESIGN for surface orientated (air) diving systems

IMCA D 040 – DESIGN for mobile/portable surface supplied systems.

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S4.1	Is the anchor handling winch appropriately certified?	Yes	<u>No</u>	NA	NS	0
	Note: Check correct machinery guards and emergency stops are fitted.					
S4.2	Are the anchor handling equipment maintenance records up to date?	Yes	<u>No</u>	NA	NS	0
	Comment on the completeness of the maintenance records relating to all including wires.	anch	or har	ndling	equip	ment
	Note if any equipment maintenance is out of date.					
S4.3	Is the anchor handling deck area clearly visible from the bridge or covered by CCTV?	Yes	<u>No</u>	NA	NS	
	Comment on the lighting to cover the work areas.					
S4.4	Is the deck area sheathing free from any significant damage?	Yes	<u>No</u>	NA	NS	0
	Note: The inspector should check sheathing for potential trip hazards.					
S4.5	Are there protected areas provided for crew working on the stern?	Yes	<u>No</u>	NA	NS	0
	Comment if there is provision for deck crew safety lines.					
S4.6	Is there a safe method to release the anchor handling winch?	Yes	<u>No</u>	NA	NS	0
	Note: The inspector should confirm that the procedure is understood by the procedure is the subject of a testing schedule.	the o	perati	ng cre	ew an	d that
S4.7	Additional Supplement comments?	Yes	No			

Supplement 4 Anchor Handling

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Supplement 5 Barges (Non-self-propelled)

S5.1	Is the main towing bridle including chains/wires/shackles/Smit brackets and recovery winch certificated and in satisfactory condition?	Yes	<u>No</u>		NS	O
S5.2	Is emergency towing apparatus and equipment certificated and in a satisfactory condition?	Yes	<u>No</u>	NA	NS	
	Note: The inspector should make an objective assessment of the condition	on of	the ec	quipm	ent.	
S5.3	Is there an emergency recovery system available for the tow?	Yes	<u>No</u>	NA	NS	0
			•	•	•	•
S5.4	Is the towing gear included in a planned maintenance system?	<u>Yes</u>	<u>No</u>	NA	NS	
	Comment on the provision of spares available.		•	•	•	•
S5.5	Is adequate fendering available and in a satisfactory condition?	Yes	<u>No</u>	NA	NS	Ō
.						
S5.6	Do the navigation lights and shapes meet local and COLREG requirements?	<u>Yes</u>	<u>No</u>	NA		
	Comment on the provision of adequate electrical power arrangements.					
S5.7	Is the deck equipment/machinery (if fitted) in a satisfactory condition?	<u>Yes</u>	<u>No</u>	NA		
	Note: When deck equipment such as fairleads, bollards, mooring fittings, etc. is fitted, the inspector should make an objective assessment of the the fitted equipment/machinery.	, gene e adec	rators	s, crar and c	nes, p ondit	umps, ion of
S5.8	Are the vessel's handrails adequate to prevent personnel falling overboard?	Yes	<u>No</u>	NA		Ō
S5.9	Is there a safety induction procedure for workers who board the barge?	Yes	<u>No</u>	NA		
S5.10	Is there a suitable arrangement for anchoring the vessel if needed?	Yes	<u>No</u>	NA	NS	
	Note: Inspector should describe the arrangements for deploying and rec	overir	ng the	anch	or(s).	•
S5.11	Is there a suitable arrangement for boarding the vessel at sea?	Yes	<u>No</u>	NA	NS	O
	Note: Inspector should note the permanent and temporary provisions for (e.g. pilot ladders, fixed ladders).	or boa	rding	the v	essel	at sea
S5.12	Additional Supplement comments?	Yes	No			0

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Supplement 6 High Speed Craft Code Compliance

This supplement contains a question set primarily based on International Code of Safety for High-Speed Craft (2000), 2008 Edition, with the exception of those questions specifically referencing the Code for High Speed Offshore Service Craft (HS-OSC Ver.24th April 2017). HS-OSC Section 1- The standard for High Speed Offshore Service Craft of up to 500GT shall follow the framework of the HSC Code for Cargo Craft unless expressly stated otherwise.

S6.1	Does the vessel hold a valid safety certificate for the HS-OSC code? Yes No NA								
	A High-Speed Craft safety certificate is issued after completion of an initial or renewal survey to craft which complies with the requirements of the Code. The Certificate shall be issued or endorsed either by the Administration or by any person or organization recognised by it. On all craft, a certificates issued under this chapter, or certified copies thereof, shall be carried on the craft. Excep where the flag state is a party to the 1988 SOLAS protocol, a copy of each of these certificates shall be posted up in a prominent and accessible place in the craft. (<i>Ref. HSC Code section 1.8</i>)								
S6.2	If the craft is certificated to operate as either a small commercial Yes No NA workboat or HS-OSC, is the changeover procedure detailed in the SMS?								
	Operational procedures shall be developed which cover the operation of the craft and changes to th mode of operation (e.g. relocation voyages). (Ref. HS-OSC Section 1.2.1.2 (b))								
S6.3	If the vessel is currently in HS-OSC operation, does the vessel hold a valid permit to operate for the applicable project/ sea area?								
	out the safety limitations and conditions imposed on their operation. This is drawn up on the basis of the information contained in the route operational manual and the type rating certificates for the operating crew. The management and reduction of risk is complemented by detailed operating and maintenance manuals, which must be carried onboard and agreed as part of the POHSC process. (<i>Ref. HSC Code section 1.9</i>)								
S6.4	If the craft is currently operating as HSC-OSC is the route operations MA manual for current charter identified in the POHSC and available?								
	 A previous copy of the manual could be reviewed should the vessel not be in HS-OSC use. The route operational manual shall include at least the following information: evacuation procedures; operating limitations, including the worst intended conditions; procedures for operation of the craft within the limitations of .2; the elements of applicable contingency plans for primary and secondary rescue assistance in 								
	 the case of foreseeable incidents, including land-based arrangements and activities for each incident; arrangements for obtaining weather information; identification of the "base port(s)"; 								
	 .7 Identification of the person responsible for decisions to cancel or delay voyages; .8 identification of crew complement, functions and qualifications; .9 restrictions on working hours of crew; 10 for the person responsible for decisions to cancel or delay voyages; 								
	 .11 traffic control arrangements and limitations, as appropriate; .12 specific route conditions or requirements relating to position fixing, operations by night and in restricted visibility, including the use of radar or other electronic aids to navigation; and 								
	.13 communication arrangements between craft, coast radio stations, base ports radio stations,								

(Ref. HSC Code section 18.2.2)

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S6.5	Are the crew members qualified in accordance with the STCW Convention?		<u>Yes</u>	<u>No</u>	NA					
	Crew members are to be qualified in accordance with the STCW in crowd control when carrying more than 12 persons other that	V Convent an crew m	ion ar iembe	nd tw ers.	o shal	l be tr	ained			
	(Ref. HSC Section 18.3.1 (HS-OSC Version 24 April 2017))									
S6.6	Are at least two crew members trained in crowd control?		<u>Yes</u>	<u>No</u>	NA		0			
	Crew members are to be qualified in accordance with the STCW in crowd control when carrying more than 12 persons other tha (Ref. HSC Section 18.3.1 (HS-OSC Version 24 April 2017))	V Convent an crew m	ion ar iembe	nd two ers.	o shal	l be tr	ained			
S6.7	Does the vessel have an ECDIS and are crew trained in its use?		<u>Yes</u>	<u>No</u>	NA		Ō			
	Craft shall be provided with nautical charts and nautical publications to plan and display the ship's route for the intended voyage and to plot and monitor positions throughout the voyage; an electronic chart display and information system (ECDIS) may be accepted as meeting the chart carriage requirements of this paragraph. High-speed craft shall be fitted with an ECDIS as follows:									
	.1 craft constructed on or after 1 July 2008;									
	.2 craft constructed before 1 July 2008, not later than 1 July 202	10.								
	(Ref. HSC Section 13.8.1/13.8.2)	2								
S6.8	Do the officers having an operational role onboard hold a 'type certificate' issued by the administration as per the HSC code see 18.3.3	rating ction	<u>Yes</u>	<u>No</u>	NA		٥			
	conclusion of an examination including practical test commensurate with the operational tasks onboard the particular type and model of craft concerned and the route followed. The type rating training shall cover at least the following items:									
	 .1 knowledge of all on-board propulsion and control sys navigational equipment, steering, electrical, hydraulic and pr pumping; .2 the failure mode of the control, steering and propulsion 	stems, inc neumatic systems a	system system and pr	g con ms ar oper	nmun nd bil respo	icatio ge an nse to	n and d fire o such			
	failures;									
	.3 handling characteristics of the craft and the limiting oper	rational co	onditio	ons;						
	 .4 bridge communication and navigation procedures; .4 intact and damage stability and supvivability of the craft 	in damage		lition						
	6 location and use of the craft's life-saving appliances incl	in uaniage	vival c	raft e	, auinn	nent:				
	.7 location and use of escapes in the craft and the evacuati	on of pass	senge	rare e	quipi	i circ)				
	.8 location and use of fire protection and fire-extinguishing of fire onboard;	g applianc	es an	d syst	ems i	n the	event			
	.9 location and use of damage control appliances and syste doors and bilge pumps;	ems, inclue	ding o	perat	ion of	f wate	rtight			
	.10 cargo and vehicle stowage and securing systems;									
	.11 methods for control of and communication with passeng	gers in an	emer	gency	; and					
	.12 location and use of all other items listed in the training n	nanual.								
	(Ref. HSC Code Sections 18.3.3-18.3.5)		1		1	1	1			
S6.9	Is the vessel's operations manual available and valid?		Yes	<u>No</u>	NA	NS	$\overline{\bigcirc}$			
	Note that this requirement is in addition to the permit to opera	ate.								
S6.10	Can the control station be securely separated from passenger interactions?		Yes	<u>No</u>			D			

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Public spaces shall not contain operating controls unless the operating controls are so protected and located that their operation by a crew member shall not be impeded by passengers during normal and emergency conditions.

(Ref. HSC Section 4.1.3 and 1.4.16)

S6.11	Do the fire alarm system call points look in good condition, armed and	Yes	<u>No</u>	NA	0
	ready for immediate operation?				

Any required fixed fire-detection and fire alarm system with manually operated call points shall be capable of immediate operation at all times.

(Ref. HSC Section 7.7.1.1.1.1)

S6.12	Do areas accessible to passengers contain controls, electrical	Yes	<u>No</u>	NA	0
	equipment, high-temperature parts and pipelines, rotating				
	assemblies or other items, from which injury to passengers could				
	result, excluding such items are adequately shielded, isolated, or				
	otherwise protected?				

Spaces accessible to passengers shall not contain controls, electrical equipment, high-temperature parts and pipelines, rotating assemblies or other items, from which injury to passengers could result, unless such items are adequately shielded, isolated, or otherwise protected.

(Ref. HSC 4.1.2)

S6.13	Are the crew able to show the evacuation procedure and competently	Yes	<mark>No</mark>	NA	Ō
	walk-through a mass evacuation drill?				

HS-OSC Section 1.2.1.2 (b) Operational procedures shall be developed which cover the operation of the craft and changes to the mode of operation (e.g. relocation voyages). Such procedures should also reflect the evacuation procedures for the number of persons carried. These procedures should form part of training drills.

(Ref. HSC Section 4.8.2)

S6.14	Are seats and safety belts fitted for all passengers and crew as per the	Yes	No	NA	NS	
	vessel's High Speed Safety Certificate?					

A seat shall be provided for each passenger and crew member for which the craft is certified to carry. Such seats shall be arranged in enclosed spaces.

Safety belts shall be provided on passenger seats and crew seats, if necessary, to obtain the protective performance measures described in annex 10.

(Ref. HSC Section 4.5.1/HSC Section 4.6.2)

S6.15	Additional Supplement comments?	Yes	No			0
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Supplement 7 Walk to work

The offshore industry is increasingly using walk to work (W2W) as a means of access to offshore assets in both the oil & gas and renewable energy sectors. An actively motion compensated gangway (or motion compensated access device) autonomously compensates for the vessel motions of which it is attached to, by actively altering either its base, telescoping, luffing and slewing angles in order to provide a steady and controlled transitional link between its mother vessel and its target (either another vessel or fixed structure), enabling safe transfer of personnel and, when appropriate, the safe transfer of equipment. This supplement has been prepared by industry with the intent of providing a standardised approach to W2W system inspections. Note that this supplement should not be used for the selection, or as a commissioning checklist for installation of walk to work systems. The basis for this supplement is IMCA M 254, *Guidelines for Walk to Work Operations*.

S7.1	Does the walk to work system have an FMEA?	<u>Yes</u>	<u>No</u>					
	The gangway active systems should be designed with the same redunda DP system and therefore subject to failure modes and effects analysis (F Add date and revision details of analysis within comments	ncy pl MEA)	hiloso	phy a	s the v	vessel		
	(Ref. IMCA M 254 Section 3.10)							
S7.2	Has regular testing of the FMEA been undertaken and all findings closed out?	<u>Yes</u>	<u>No</u>					
	Due to the safety critical nature of gangway operations regular testing of the FMEA is required. N systems should be tested every time the system is mobilised onto a vessel. Permanent installa should be tested annually or whenever there is significant modification to the system.							
	Add date and revision details of test record within comments (<i>Ref. IMCA M 254 Section 3.10</i>)							
S7.3	Is there a dedicated and backup system for communication between the gangway and key areas, for example, bridge and engine room?	<u>Yes</u>	<u>No</u>					
	A dedicated system for communication between all relevant operating vessel should be provided. There should be a backup communication backup communications should be checked as part of the pre-operation (<i>Ref. IMCA M 254 Section 3.10</i>)	and c syste check	ontro em, b dists.	l locat oth p	tions (rimar	of the y and		
S7.4	For permanent installations, are the walk to work systems integrated into the vessel's planned maintenance system?	<u>Yes</u>	<u>No</u>	NA				
	Planned maintenance system should be reviewed to ensure maintenanc (Ref. IMCA M 254 Section 6)	e rout	ines a	ire up	to da	te.		
S7.5	For mobile systems, are there critical maintenance routines in place?	<u>Yes</u>	<u>No</u>	NA				
	Maintenance routine records should be sighted. (Ref. IMCA M 254 Section 6)					<u>.</u>		
S7.6	Are there critical spares held onboard for the walk to work system?	<u>Yes</u>	<u>No</u>					
	Appropriate spare parts for the gangway system are required to be carri (<i>Ref. IMCA M 254 Section 4.1.11 and Section 6</i>)	ed on	board	l.				
S7.7	Is there a walk to work operations manual in place?	<u>Yes</u>	<u>No</u>					
	The W2W operations manual ideally only contains information specific to W2W system during W2W operations. The manual should contain inform	o oper natior	ating 1 on tl	the ve he foll	essel a owing	ind its g:		
	 The organisation and responsibilities (on the vessel and between th Vessel specification W2W philosophy Checklists (anisotic series and between this is a series of the series o	e vess	el and	d asse	t)			

• Checklists (prior to commencing W2W operations and during W2W operations)

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- W2W trials procedure
- W2W operations procedure.

(Ref. IMCA M 254 Section 4.3)

S7.8 Are there logs maintained during W2W operations to record events?	Yes	<u>No</u>			
--	-----	-----------	--	--	--

Logs should be maintained during W2W operations including (but not limited to):

- Transfer log
- Bridge log
- Gangway log

(Ref. IMCA M 254 Section 4.4)

S7.9	Is the W2W system included in the vessel operator's safety	Yes	<u>No</u>		
	management system (SMS) from an emergency preparedness				
	perspective?				

The SMS should establish procedures on how to respond to, for example:

- Field operator emergency response plan
- Response to evacuation requests

(Ref. IMCA M 254 Section 8 and ISM Code chapter 8)

S7.10	Does the gangway have an independent alert system for gangway	Yes	<u>No</u>		
	crossing?				

An independent alert system should be fitted for the gangway crossing. The gangway operation manual should provide advice covering the action to be taken on the specific gangway, but in general:

- Green status lights each end of the gangway to indicate 'safe to cross'
- Red lights each end of the gangway and an audible alarm to indicate 'unsafe to cross', persons on the gangway should act as required by the gangway specific emergency procedures

(Ref. IMCA M 254 Section 8.3)

S7.11	Is there evidence of the conduct of W2W system emergency	Yes	<u>No</u>		
	response drills covering different possible scenarios?				

The following scenarios are suggested for emergency response drills.

- Emergency evacuation from the asset using the gangway
- Equipment specific drills
 - a) Emergency lowering elevator
 - b) Automatic retract
- Fire drill with gangway in use
- MOB drill with gangway in use
- Oil leakage drill with gangway in use

(Ref. IMCA M 254 Section 8.5)

S7.12	Is there evidence of specific crew training and competence on the	Yes	<u>No</u>		
	normal and emergency use of the W2W system?				

It is the vessel operator's responsibility to ensure all the onboard key personnel involved with gangway system operations are competent to carry out their duties.

(Ref. IMCA M 254 Section 5)

S7.13	Is there a proactive system in place to report, record and learn from	Yes	No	NA	NS	Ō
	W2W related incidents/events?					

The vessel operator should proactively encourage the reporting of incidents, accidents and near misses as required in the vessel operator's safety management system (SMS) and in chapter 9 of the ISM Code.

(Ref. IMCA M 254 Section 5)

S7.14 Additional Supplement comments? Yes No

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Supplement 8 Hybrid battery systems for DP vessels

The offshore industry is increasingly upgrading to hybrid battery systems or building new tonnage with hybrid battery systems, in the offshore energy sectors. Battery systems are being fitted to the power grids of vessels and integrated within their power management systems in order to enable more efficient running of internal combustion engines used for power generation. This supplement has been prepared with the intent of providing a standardised approach to hybrid system inspections. Note that this supplement should not be used for the selection, or as a commissioning checklist for installation of hybrid battery systems. The basis for this supplement is IMCA M 250, *Introduction to Hybrid Battery Systems for DP Vessels*.

S8.1	Does the DP system FMEA include analysis of the hybrid battery system?	Yes	<u>No</u>						
	If the battery system connects to or has any ability to influence the DP system and its redundancy concept, then the DP failure modes and effects analysis (FMEA) must be updated to include the new installation and those failure modes and effects that are either affected, or created, by the new installation. Batteries may also be fitted to mission equipment and still influence DP Systems.								
	Add date and revision details of analysis within comments.								
		r –	r						
S8.2	Are state of charge (SOC) and state of health (SOH) clearly displayed to the operator?	Yes	<u>No</u>						
	The operator needs to know the SOC and SOH.								
S8.3	Are alarms available at the control position for all relevant situations?	Yes	<u>No</u>	NA					
	 These alarms may include: loss of communication between the battery management system and energy management system or power management system battery failure of the management system failure or fault in the cooling system (if installed) the battery management system has disconnected a battery pack(s) low remaining battery charge ambient temperature in the battery box or battery room above a specified level detection of a build-up of explosive gas These alarms maybe local or presented on the VMS, some may not be applicable. 								
S8.4	Does the DP annual trials programme consider/include testing the detection and protection devices and performance of the hybrid battery system and are all associated findings closed out?	Yes	<u>No</u>	<u>NA</u>					
	Battery installations connecting to, or having the ability to influence, the of the DP annual trials programme. Annual trials need to demonstrat remain in suitable condition, and, for example, that batteries retain ad and that the mode functionality remains intact as installed. Where NA has been selected, provide an explanation with details Include date and revision details of test records within comments. <i>(Ref. IMCA M 250 Section 6.5)</i>	e DP s e that equat	ysten t the e cha	n mus hybri ırge a	t forn d eler nd caj	n part nents pacity			

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S8.5	Has all associated DP documentation onboard been updated to include	Yes	<u>No</u>	NS	
	the hybrid battery system?				

Depending on the design and intended use of the hybrid battery installation, documentation may need to be updated to include specific details. For example, DP operations manuals, ASOG and field arrival trials, may require updating.

(Ref. IMCA M 250 Section 6.6)

S8.6	Have the crew attended a type-specific course for the operation and	Yes	<u>No</u>		
	maintenance of the hybrid system fitted?				

In addition to maintenance crew training, operator training related to specific functionality may also be required to ensure operators fully understand the functionality and operation in both intact DP status and in the event of a DP event.

Onboard training may have been given specific to the installed system by the OEM, this should be considered

(Ref. IMCA M 250 Section 6.6)

S8.7	Have the crew undertaken an approved course in battery and stored	Yes	<u>No</u>	NA	
	energy maintenance and does the vessel carry the correct tools to				
	undertake tasks associated with proactive and reactive maintenance?				

In addition to maintenance crew training, operator training related to specific functionality may also be required to ensure operators fully understand the functionality and operation in both intact DP status and in the event of a DP event.

This should include auxiliary systems – cooling, ventilation, firefighting etc

(Ref. IMCA M 250 Section 6.6)

S8.8	Are maintenance routines in place for hybrid battery systems?	Yes	<u>No</u>		

Hybrid battery systems, when installed, need to form part of the vessel's maintenance regime. No battery system is completely maintenance free.

(Ref. IMCA M 250 Section 6.5)

S8.9	Are spares held onboard for the hybrid battery system?	Yes	<u>No</u>		
	Appropriate spare parts for the hybrid system carried onboard.				

This should include auxiliary systems - cooling, ventilation, firefighting etc

S8.10 Is a hybrid battery system operations manual in place? Yes №

What is the purpose of the hybrid battery system installed on the vessel? The operations manual should be able to explain the purpose of the system.

S8.11	Are records of battery history maintained?	Yes	<u>No</u>		
	Logbooks should be kept for battery time in service, SOH, replacement st	atus.			
58.12	Is adequate signage on display?	Yes	No		

Examples include:

- Appropriate precautions are to be taken when opening or entering this space
- Naked lights, smoking and sources of ignition are not permitted within or outside the entrance of a battery box or battery room or ventilation discharge points
- No unauthorised personnel are permitted to enter or open battery boxes or battery rooms

	S8.13	Do the ASOG, CAM and TAM modes address hybrid DP operations?	Yes	<u>No</u>			
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Is the ASOG sufficiently populated to include the hybrid system?

Are CAM and TAM modes clearly defined with regards the hybrid configuration?

(Ref. IMCA M 220 Section 3)

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S8.14	Are regular hybrid battery system endurance tests carried out and documented?	Yes	<u>No</u>	NA		
	In line with annual DP trials performance tests.					
S8.15	Are battery spaces/boxes adequately ventilated and away from heat source?	Yes	<u>No</u>			
	Air ducts should not be obstructed.					
S8.16	Is there evidence of hybrid battery system emergency response drills covering different possible scenarios being conducted?	Yes	<u>No</u>			
	 The following scenarios are suggested for emergency response drills. Emergency stop/shutdown Fire drill within the battery storage area and/ converter area Response to a single cell or module, fault or failure Response to thermal runaway Emergency contact for OEM support 					
S8.17	Is there a system in place to report, record and learn from hybrid battery system related incidents/events?	Yes	<u>No</u>	NA	NS	
	The vessel operator should proactively encourage the reporting on near misses as required in the vessel operator's safety management of the ISM Code.	f incio nent s	dents systei	s, acci m (SN	dent /IS) a	s and nd in
S8.18	Are fire detection and fighting systems in place and functional?	Yes	<u>No</u>			0
	 Gas, smoke and heat detectors in battery areas Fire extinguishing medium(s) shall be able to penetrate the casing potential fire Power and control for a fixed fire suppression system shall be locate or battery room Portable extinguishers 	of ba	tterie side o	s to e f the l	xting oatter	uish a ry box
S8.19	Additional Supplement comments?	Yes	No			0

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Supplement 9 Battery propulsion systems for non-DP vessels

The offshore industry is increasingly upgrading to hybrid battery systems or building new tonnage with hybrid battery systems, in the offshore energy sectors. Battery systems are being fitted to the propulsion systems of vessels as the main propulsion. This supplement has been prepared with the intent of providing a standardised approach to hybrid system inspections on non-DP vessels. Note that this supplement should not be used for the selection, or as a commissioning checklist for, installation of battery systems.

S9.1	Are state of charge (SOC) and state of health (SOH) clearly displayed to the operator?	Yes	<u>No</u>					
	The operator needs to know the SOC and SOH.							
S9.2	Are alarms available at the control position for all relevant situations?	Yes	<u>No</u>					
	 These alarms may include: loss of communication between the battery management system and energy management system or power management system battery failure of the management system battery failure or fault in the cooling system (if installed) the battery management system has disconnected a battery pack(s) low remaining battery charge ambient temperature in the battery box or battery room above a specified level detection of a build-up of explosive gas 							
S9.3	Does the vessel documentation account for the battery system?	Yes	<u>No</u>					
	Inspector to comment on what documentation is available. (Ref. ISM Code Chapters 7 and 11)							
S9.4	Have the crew attended a type-specific course for the operation and maintenance of the hybrid propulsion system fitted?	Yes	<u>No</u>					
	In addition to maintenance crew training, operator training related to specific functionality may also be required to ensure operators fully understand the functionality and operation in both intact DP status and in the event of a DP event. (<i>Ref. ISM Code Chapter 6</i>)							
S9.5	Have the crew undertaken approved training in battery and stored energy maintenance?	Yes	<u>No</u>					
	Onboard training may have been given specific to the installed system by the OEM, this should be considered							
S9.6	Are maintenance routines in place for the battery systems?	Yes	<u>No</u>		NS			
	Battery systems, when installed, need to form part of the vessel's maintenance regime. No battery system is completely maintenance free. This should include auxiliary systems – cooling, ventilation, firefighting etc.							
\$9.7	Does the vessel carry the correct tools to undertake tasks associated with proactive and reactive maintenance?	Yes	<u>No</u>	NS				
	Specialist tools maybe required to complete maintenance tasks.							
S9.8	Are records of battery history maintained	Yes	<u>No</u>					

Logbooks should be kept for battery time in service, SOH, replacement status.

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S9.9	Are critical spares held onboard for the battery system?	Yes	<u>No</u>	NA				
	Appropriate spare parts for the hybrid system carried onboard. This should include auxiliary systems – cooling, ventilation, firefighting et	c.						
S9.10	Is a battery system operations manual in place?	Yes	<u>No</u>					
	What is the purpose of the hybrid battery system installed on the vessel	?				1		
S9.11	Are battery spaces/boxes adequately ventilated and away from heat sources?	Yes	<u>No</u>					
	Air ducts should not be obstructed.							
S9.12	Are regular hybrid battery system endurance tests carried out and documented	Yes	<u>No</u>					
	In line with annual system performance tests.							
S9.13	Is there evidence of hybrid battery system emergency response drills covering different possible scenarios being conducted?	Yes	<u>No</u>					
	 Emergency stop/shutdown Fire drill within the battery storage area and converter area Response to a single cell or module fault or failure Response to thermal runaway Emergency contact for OEM support (<i>Ref. ISM Code Chapter 8</i>) 	Unse	unns.					
59.14	Are the charging points and cable in good order?	Yes	No	NA		$\overline{\bigcirc}$		
\$9.15	Condition of plugs, sockets and cable to be noted. Are charging points located above deck sufficient to prevent inadvertent down-flooding if the vessel is heeled? Sealed and watertight cap Constructed with non-sparking material							
55.15	system related incidents/events?							
	The vessel operator should proactively encourage the reporting of inc misses as required in the vessel operator's safety management system (S ISM Code.	idents SMS) a	s, acc and in	idents chap	and ter 9	near- of the		
S9.16	Is appropriate signage on display?	Yes	<u>No</u>			0		
	 Examples include: Appropriate precautions are to be taken when opening or entering t Naked lights, smoking and sources of ignition are not permitted wite of a battery box or battery room or ventilation discharge points No unauthorised personnel are permitted to enter or open battery batter	his sp hin o boxes	ace r outs or bat	ide th	ne ent	rance		
S9.17	Are fire detection and fighting systems in place and functional?	Yes	<u>No</u>			Ō		
	 Gas, smoke and heat detectors in battery areas Fire extinguishing medium(s) shall be able to penetrate the casing potential fire Power and control for a fixed fire suppression system shall be locate or battery room Portable extinguishers 	of ba d out:	tterie side o	s to e f the	exting batter	uish a Ƴ box		
S9.18	Additional Supplement comments?	Yes	No			$\overline{\bigcirc}$		