

## Circular 2023-04: Qingdao & Shanghai PSC focus on Ships with Mechanical and Electrical Failures

### Overview

Local authorities in Qingdao and Shanghai ports have recently announced tighter control on ships with mechanical and electrical failures, resulting in some ships being detained consecutively following PSC inspections.

### Qingdao Port

Qingdao Port local authorities issued a notice to ships via local agents informing ships to focus more on safety management, particularly on main engine, steering engine and boiler etc., which need to be properly tested and checked before entering or leaving the port, to avoid delay to ships' schedule due to PSC inspection resulting from mechanical and electrical failures. A **"Self-checklist for Ships Intending to Enter Qingdao Port"** (Appendix A) suggests 9 items- falling into three categories: M/E & A/E, Main and Emergency Power and Steering Gear - to be checked in advance.

It is noted that Qingdao MSA plans to establish a **"list"** of ships which are continuously found with mechanical and electrical failure or main engine failure. Enhanced supervision may apply to ships owners or managers on the "list". Meanwhile, they may also strengthen on-site supervision and inspection to ships' mechanical and electrical equipment in the future.

### Shanghai Port

Ships will be detained by PSCOs if found with mechanical and electrical failures or main engine malfunction, and will not be permitted to depart until rectification is made. Wusong MSA also issued a similar notice announcing enhanced safety inspection to ships entering Shanghai section of Yangtze River. Ships are required to test main engine, steering system and emergency equipment etc. to ensure they are in good working condition.

Starting from 01 April, 2023, the following procedures need to be followed:

- Ships with mechanical and electrical failures or accident records within one year in Shanghai port are requested to conduct testing and inspection of critical equipment such as main engine, steering system and emergency equipment, strictly in accordance with the requirement, 4 hours in advance before entering Yangtze River Shanghai section on each voyage.
- Documentation of self-testing and inspection such as forms, logs, pictures or video records (pictures and videos must be with marks of date & time) should be well kept, and failure in providing such supporting evidence during Wusong VTS' random check may lead to delay in entering into the port.
- A **"Self-checklist for Ships Intending to Enter the Yangtze River Shanghai Section"** is also attached to the notice, listing 10 items ( almost identical with Qingdao port's list) to be checked in advance.

New regulations on prevention and control of ship pollution in Shanghai and ports on Yangtze River came into force on 01 March, 2023, which leads to strengthened supervision on ships' discharge of domestic sewage, domestic waste and oily sewage, etc..

### Actions required

Ship managers should thoroughly prepare their managed fleet prior entering areas of Qingdao port and Shanghai port authorities responsibility.

### How we may help

**RISK4SEA** platform can be used for PSC preparation for all ports world wide

### Appendices

- A- Qingdao Port Self Checklist
- B- Shanghai and ports on Yangtze River Self Checklist

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### Appendix A -Qingdao Port Self checklist

附件一：

### 船舶进入青岛港前安全自查表

### Self-checklist for Ships Intending to Enter Qingdao Port

备注：船舶进入青岛港前安全自查不限于本表所列项目，不解除船舶及其公司所应承担的安全管理责任。

The safety self-inspection before entering Qingdao Port is not limited to the items in this list, and does not relieve the safety management responsibility of the ship and its company.

船名 ship name:

IMO No.:

上一港 last port of call:

下一港 next port of call:

序号 NO.	检查项目及要求 Checking items	检查结果 results		
	<b>主辅机及其附属系统工作状况是否良好 M/E &amp; A/E</b>			
1	主副机的起动系统，如压缩空气、空压机等状况是否正常 The starting systems of the main engine and generator, such as compressed air, air compressors, etc., are in good condition.	Y	N	N/A
2	主副机的燃油系统，如高压油管、高压油泵、燃油滤器、喷嘴 等状况是否正常 The fuel system of the main engine and generator, such as high-pressure pipes, high-pressure fuel pumps, fuel filters, nozzles, etc., are in good condition.	Y	N	N/A
3	主副机的冷却系统，如海底阀、海底滤器、冷却管路等是否良好 The cooling system of the main engine and generator, such as sea inlets, cooling pipelines, etc., are in good condition	Y	N	N/A
4	主副机的本体部件，如排气阀、水套、调速器、活塞环、密封 环等是否正常 The body parts of the main engine and generator, such as exhaust valves, water jackets, governors, piston rings, seal rings, etc. are in good condition.	Y	N	N/A
5	集控室主副机的报警系统，如高压燃油泄漏、滑油故障、冷却 水高温等是否正常 The alarm system of the main engine and generator in the engine control room for high-pressure fuel leakage, lubricating oil failure, and high temperature of cooling water is working properly.	Y	N	N/A
6	主副机的冷却、燃油、滑油等各管系是否存在明显滴漏 There is obvious leakage in the cooling, fuel, lubricating oil pipes or other piping systems of the main engine and generators.	Y	N	N/A
7	主副机近期的整体运行状况是否存在异常，如异常报警，异常 降速、排温过高、冒黑烟 等 There are abnormal alarms, abnormal speed reduction, abnormal high temperature or black smoke happened to the main engine and generator.	Y	N	N/A
8	责任船员是否按照体系文件有效落实主副机的保养维护 The crew has maintained the main engine and generators in the light of the SMS document.	Y	N	N/A
	<b>主电源和应急电源是否正常 MAIN AND EMERGENCY POWER</b>			
1	主发电机是否能够达到额定转速并稳定 The main generator can reach the rated speed and keep stable.	Y	N	N/A
2	多台主发电机是否能够实现正常并车稳定运行 Multiple main generators can run in parallel and keep stable.	Y	N	N/A

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3	应急发电机是否能够正常起动并合闸供电 The emergency generator can power the emergency switch board properly.	Y	N	N/A
4	应急发电机是否能够利用第 2 能源或人工起动 The emergency generator can be started by a second means of starting set or manually.	Y	N	N/A
5	应急发电机能否在主电失去后于 45 秒内自动启动 The emergency generator can be automatically started within 45 seconds after the loss of main power.	Y	N	N/A
<b>操舵装置工作状态是否良好 STEERING GEAR</b>				
1	舵机管系各接头、阀门及油缸填料处是否渗、漏油 There is obvious leakage at the joints, valves or oil cylinder packing in the steering gear piping system.	Y	N	N/A
2	液压舵机再充液系统是否正常 The refilling system of the hydraulic steering gear is in good condition.	Y	N	N/A
3	液压舵机储存柜备用液压油是否足够 There is enough spare hydraulic oil in the hydraulic steering gear storage cabinet.	Y	N	N/A
4	驾驶台舵机失电报警是否正常 In the event of a power failure to any one of the steering gear power units, an audible and visual alarm can be given on the navigation bridge.	Y	N	N/A
5	驾驶台舵机缺相声光报警是否正常 If any power supply line of the three-phase motor is disconnected, the main engine control room and engine room can send out audible and visual alarms	Y	N	N/A
6	转舵机构是否发出明显噪音和震动 There is obvious noise and vibration of the rudder steering gear.	Y	N	N/A
7	舵角限位器是否有效 The rudder angle limiter is working properly.	Y	N	N/A
8	不存在不能转舵、只能单侧转舵、转舵时好时坏、滞舵等不正常现象 The steering gear is working properly.	Y	N	N/A
9	责任船员是否按每三个月进行应急操舵演练 The crew conducts emergency steering drills every three months.	Y	N	N/A

本人承诺以上项目安全自查的真实性，并承担相应的责任。

I promise the authenticity of the above safety self-inspection items and undertake the corresponding responsibilities.

船长签名盖章：

日期： Signature and stamp:

Date:

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### Appendix B - Shanghai and ports on Yangtze River Self checklist

## 船舶进入长江上海段前安全自查表 Self-checklist for Ships Intending to Enter the Yangtze River in Shanghai Section

备注：船舶进入长江上海段前安全自查不限于自查表中所列项目，不解除船舶及其公司所应承担的安全管理责任  
The safety self-inspection before entering the Yangtze River in Shanghai section is not limited to the items in this list, and does not relieve the safety management responsibility of the ship and its company.

船名 ship name:

IMO No.:

上一港 last port of call:

下一港 next port of call:

序号 NO.	检查项目及要求 Checking items	检查结果 results		
<b>主辅机及其附属系统工作状况是否良好 M/E &amp; A/E</b>				
1	主副机的起动系统，如压缩空气、空压机等状况是否正常 The starting systems of the main engine and generator, such as compressed air, air compressors, etc., are in good condition.	Y	N	N/A
2	主副机的燃油系统，如高压油管、高压油泵、燃油滤器、喷嘴等状况是否正常 The fuel system of the main engine and generator, such as high-pressure pipes, high-pressure fuel pumps, fuel filters, nozzles, etc., are in good condition.	Y	N	N/A
3	主副机的冷却系统，如海底阀、海底滤器、冷却管路等是否良好 The cooling system of the main engine and generator, such as sea inlets, cooling pipelines, etc., are in good condition	Y	N	N/A
4	主副机的本体部件，如排气阀、水套、调速器、活塞环、密封环等是否正常 The body parts of the main engine and generator, such as exhaust valves, water jackets, governors, piston rings, seal rings, etc. are in good condition.	Y	N	N/A
5	集控室主副机的报警系统，如高压燃油泄漏、滑油故障、冷却水高温等是否正常 The alarm system of the main engine and generator in the engine control room for high-pressure fuel leakage, lubricating oil failure, and high temperature of cooling water is working properly.	Y	N	N/A
6	主副机的冷却、燃油、滑油等各管系是否存在明显滴漏 There is obvious leakage in the cooling, fuel, lubricating oil pipes or other piping systems of the main engine and generators.	Y	N	N/A
7	主副机近期的整体运行状况是否存在异常，如异常报警，异常降速、排温过高、冒黑烟等 There are abnormal alarms, abnormal speed reduction, abnormal high temperature or black smoke happened to the main engine and generator.	Y	N	N/A
8	责任船员是否按照体系文件有效落实主副机的保养维护 The crew has maintained the main engine and generators in the light of the SMS document.	Y	N	N/A
<b>主电源和应急电源是否正常 MAIN AND EMERGENCY POWER</b>				
1	主发电机是否能够达到额定转速并稳定 The main generator can reach the rated speed and keep stable.	Y	N	N/A
2	多台主发电机是否能够实现正常并车稳定运行	Y	N	N/A

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	Multiple main generators can run in parallel and keep stable.			
3	应急发电机是否能够正常启动并合闸供电 The emergency generator can power the emergency switch board properly.	Y	N	N/A
4	应急发电机是否能够利用第 2 能源或人工启动 The emergency generator can be started by a second means of starting set or manually.	Y	N	N/A
5	应急发电机能否在主电失去后于 45 秒内自动启动 The emergency generator can be automatically started within 45 seconds after the loss of main power.	Y	N	N/A
<b>操舵装置工作状态是否良好 STEERING GEAR</b>				
1	舵机管系各接头、阀门及油缸填料处是否渗、漏油 There is obvious leakage at the joints, valves or oil cylinder packing in the steering gear piping system.	Y	N	N/A
2	液压舵机再充液系统是否正常 The refilling system of the hydraulic steering gear is in good condition.	Y	N	N/A
3	液压舵机储存柜备用液压油是否足够 There is enough spare hydraulic oil in the hydraulic steering gear storage cabinet.	Y	N	N/A
4	驾驶台舵机失电报警是否正常 In the event of a power failure to any one of the steering gear power units, an audible and visual alarm can be given on the navigation bridge.	Y	N	N/A
5	驾驶台舵机缺相声光报警是否正常 If any power supply line of the three-phase motor is disconnected, the main engine control room and engine room can send out audible and visual alarms.	Y	N	N/A
6	转舵机构是否发出明显噪音和震动 There is obvious noise and vibration of the rudder steering gear	Y	N	N/A
7	舵角限位器是否有效 The rudder angle limiter is working properly.	Y	N	N/A
8	不存在不能转舵、只能单侧转舵、转舵时好时坏、滞舵等不正常现象 The steering gear is working properly.	Y	N	N/A
9	责任船员是否按每三个月进行应急操舵演练 The crew conducts emergency steering drills every threemonths.	Y	N	N/A
10	进入高密度水域, 是否为驾驶员配备了合格舵工, 并转换为人工操舵 In the areas of high traffic density, establish manual control of the ship' s steering ,and qualified helms person available on bridge.	Y	N	N/A

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