

# APPROVAL OF SERVICE SUPPLIERS

Certificate No:  
**AOSS0000D9R**  
Revision No:  
**4**

This is to certify that

**Astro Fire & Safety Pte Ltd**  
**SINGAPORE, Singapore**

is granted acceptance for  
**Maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear , in accordance with Class Programme DNV-CP-0484 and IACS UR Z17 Annex 1 [13].**

This service supplier certificate will be accepted for use with all rule sets published by DNV.  
**See the following page(s) for details regarding application.**

This Certificate is valid from **2024-02-11** to (inclusive) **2027-02-10**.

This Certificate is issued on **2024-05-10**.



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signatures

**Ng, Ken Tong Ken**  
**Surveyor**

This Certificate may be withdrawn if:

1. The service provided has been improperly carried out or the results improperly reported.
2. The surveyor has found any deficiencies in the accepted operating systems of the service supplier.
3. The firm has failed to inform of any major changes having effect on the quality of the service rendered.
4. The conditions listed in the certificate are changed and/or are not fulfilled.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



**Application:**

This Service Supplier is approved for maintenance, thorough examination, operation testing, overhaul and repair of the following equipment:

Following are makers authorisation of the service supplier.

Certified in accordance with manufacturer's established certification programme:

**Lifeboats (incl.freefall lifeboats)**

Make	Type / Model
Zhejiang Hengxin Ship Equipments Co.,Ltd	BCFC/FF, BCF/C
CSSC Luzhou Zhenjiang Marine Auxiliary Machinery Co.,Ltd.	YH5.0QFP/YH5.0QFN/YH6.5QFP/YH6.5QFN/ YH8.5QFP/YH8.5QFN/YH 8.5QFP-A/YH8.5QFN- A/YH10.3QFP/YH10.3QFN/YH9.5QFP/YH9.5QFN/ YH12.0QFP/YH12.0QFN/YH9.9BFP/YH12.5BFP/ ZZHG-BF-12.5  YH5.9F-P/YH5.9FN/YH6.7FP/YH6.7FN/YH7.5FP/ YH7.5FN/YH8.5FP/YH8.5FN
Jiangsu Jiaoyan Marine Equipment Co.,Ltd	JY-FN-4.9, JY-FF-4.9, JY-FN-5.8, JY-FF-5.8, JYM-FN-6.65, JYM-FF-6.65, JY-FN-6.8, JY-FF-6.8, JY-FN-7.5, JY-FF-7.5, JY-FN-8.5, JY- FF-8.5, JY-QFP/N-5.0, JY-QFP/N-5.25/, GTR57JYC/F, JY-QFP/N-6.0A, JY-QFP/N-.50, JY- QFP/N-7.0, JY-QFP/N-7.5, JY-QFP/N-7.50A, JY-QFP/N-8.00, JY-QFP/N-8.50, JY-QFP/N- 8.50X, JY-QFP/ N-9.35, JY-QFP/N-10.90A
Qingdao Beihai Boatbuilding Co. Ltd	BH-5,5A,5S,5SA,E500,E585,6,6A,6S,E670,7A,7B,8 BHF6.0,F7.0A,F7.8,F8.1,F5.8,F6.8,F660,F670,F750, F900/A

**Rescue boat (incl.fast rescue boats)**

Make	Type / Model
Zhejiang Hengxin Ship Equipments Co.,Ltd	GJ, FRH, RH,
CSSC Luzhou Zhenjiang Marine Auxiliary Machinery Co.,Ltd.	YH4.5R/YH4.5DR/YH7.5 YH6.0FRA/YH6.0FRB/YH6.5FRA/YH6.5FRB
Jiangsu Jiaoyan Marine Equipment Co.,Ltd	GJ4.2, GJ4.25, GJ4.5, GJ5.0, GJ5.25, GJ6.0B-1, GJ6.10, GJ7.50, GJ8.0Q-2, GJ8.5Q-2
Qingdao Beihai Boatbuilding Co. Ltd	BH-R4, R4S, R4SA, R5S

**Release gear (for lifeboats (incl.freefall), rescue boats, fast rescue boats and davit launched liferafts)**

Make	Type / Model
Zhejiang Hengxin Ship Equipments Co.,Ltd	HK
CSSC Luzhou Zhenjiang Marine Auxiliary Machinery Co.,Ltd	HK25/HK25B/HK40/HK40C/HK65/SH55/SH70/SH85 Handle release hook 15KN, Automatic release hook 21KN/23KN/25KN/35KN
Jiangsu Jiaoyan Marine Equipment Co.,Ltd	JX, JXN SERIES
Qingdao Beihai Boatbuilding Co. Ltd	BG-3,3L,BG-7;BH-HOOK3,HOOK5,FS5,FS7 BG-3F,3.5F,4F,4.5F,4.5FL,5F,6F BG-2R,WUXI XS15,21,23,35KN HOOK

**Launching appliances (for lifeboats (incl.freefall), rescue boats, fast rescue boats and davit launched liferafts).**

Make	Type / Model
Zhejiang Hengxin Ship Equipments Co.,Ltd	FH, SA, HDC, LFR, LR, HE, PD, SRH, LB, KN

Make	Type / Model
CSSC Luzhou Zhenjiang Marine Auxiliary Machinery Co.,Ltd	LF45- I/LE55 - I/LE65- I/LE85- I/LE100- I/ LE I 38- I/LE170-I/HE65/HE85/HEI00/HEI38 H170/RE50/RE60/RE80/RE1 00/SRH65/SRH85/ SRH100/SRH120/SRH150/SRH170/SRH200/SR H230/GL65/GL85/GLI10/GL13/GL138/GL165/ TG65/TG85/TG110/TG150/TGI70/TG200/TG230/ HT80/HT100/HT150/HT2 I0/LC400/RC60-EB  FH55/FH70/FH75/FH85/FH100  SAFI4/SAF2I/SAFC2I/SAFC25/SA2I/SA32/HDCL2- 6.5/HDCL3-6/HDCL3-I0/LA25/LA35/SH-21/DH30  PL65/PL85/PL100/PL110/PL120/PL138/PL150/PL 180/PL200/PL230  LFR30/LFR35/LFR55/LFRH30/LEFR50/LFRH60/ DH30/SAWH30/SAWH45/SAWH60  D2IKN/D25KN/D32KN/D35KN/D48KN/D63KN/ D65KN/D80KN/D100KN/D120KN/DP65KN/ DP85KN/DP100KN/DP110KN/DP120KN/DP138KN/ DP150/DP180KN
Jiangsu Jiaoyan Marine Equipment Co.,Ltd	JYF55, JYF75, JYF75-B, JYF90, JYP65, JYP85, JYP105, JYP135, JYR21, JYR21S-A, JYRC21, JYR23, JYR14, JYRH14, JYRH21, JYL52, JYL55, JYL68, JYL85, JYL105, JYL135, FW45, JYW42, JYW50, JYW70, JYW100, JYWP70, JYWP100, JYWP135, JYW35, JYRZ21
Oriental Inspection & Service Co.,Ltd	HGD, HGK, SHS, RTD, DHA, DMA- SERIES BWE, SWE, WL-SERIES FD, WL-SERIES RD, RDW-SERIES
Qingdao Beihai Boatbuilding Co. Ltd	BD-PV50,PV60,PV60S,PV85,PV125 BD-FF55,55A,55R,FF80,80A,80R,80B,FF65/66/67, FF85 BD-SA14,14A,14B,SA21,21A,SA23,SA30,30A,SA33, SH23 BW-H(L/R)31S,50,63,75;L(L/R)75,125;SC14;21, YSB20-120

**Remarks:**

Approved according to MSC.402(96)/Corr.1 and IACS UR Z17, rev.18.

Periodical audit:

The Society may, at its own discretion, require periodical audits in the validity period of the certificate.

Renewal audit:

Renewal of the certificate shall be made at intervals not exceeding three (3) years by verification through audits that approval conditions are maintained.