Autorità di Sistema Portuale
del Mare Adriatico Meridionale
Bari, Brindisi, Manfredonia, Barletta, Monopoli

# PORTO DI BARI

Variante localizzata del Piano Regolatore Portuale, ai sensi dell'art. 22, comma 6 del D.lgs. 169/2016 e ss. mm. ii., finalizzata alla riqualificazione del Molo S. Cataldo e al potenziamento delle infrastrutture asservite alla sede logistica del Corpo delle Capitanerie di Porto.



| titolo | elaborato |
|---|---|
| studio idraulico-marittimo<br>prove con simulatore di manovra<br>certificazioni software di simulazione | RI 4.2 |

| data e aggiornamenti | | |
|---|---|---|
| 02 | | |
| 01 | aprile 2021 | Delibera del Comitato di Gestione n. 4 del 29.04.2021 |
| 00 | novembre 2019 | emissione |


| progetto del dipartimento tecnico | | |
|---|---|---|
| *progettisti* | ing. Paolo Iusco | AdSP MAM |
| | ing. Annunziata Attolico | AdSP MAM |
| | ing. Eugenio Pagnotta | AdSP MAM |
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| *coordinatore della progettazione* | ing. Francesco Di Leverano | AdSP MAM |
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Firmato digitalmente da
**PAOLO IUSCO**
T = Ingegnere
C = IT

NIPPON KAIJI KYOKAI

Certificate No. 15-034-4

# Statement of Product Quality

**This Certificate of Design Approval is found that the product type design below complies with the NK Standard for Certification of Maritime Education & Training Simulator Systems and the following applicable standards when manufactured and operated within the conditions and limitations specified as attached:**

Product description:
**Survival Craft Simulator**

Type Design:
**Navi Trainer Professional 5000**

Designed by:
**Transas Marine Limited**
**10 Eastgate Avenue, Eastgate Business park, Little Island, Cork, Ireland**

Applicable Standards:

| | |
|---|---|
| **1) STCW 2010 Manila amendments** | **Regulation I/12** |
| **2) STCW 2010 Manila amendments** | **Part A of the STCW Code / Table A-VI/2-1** |
| **3) IMO model course 1.23** | **Proficiency in survival craft and rescue boats other than fast rescue boats** |

Date of Issue : 13 March, 2018
Validity : 12 March, 2021
Issued at Tokyo on 13 March, 2018

NIPPON KAIJI KYOKAI

*( T. Koiwa )*
*Director of Assurance Operations Division*

# APPENDIX I
## Simulator Data Sheet

The simulator system is suitable for substitution of lifeboat and lifeboat davit hardware functions for taking charge of a survival craft before, during and after launch:

1. Perform lifeboat pre-checks using enclosed lifeboat with inboard engine
2. Prepare, give correct commands for launching, and safely launch survival craft with painter attached
3. Operate off-load and on-load release devices
4. Clear the ship's side quickly, steer the lifeboat boat by compass, and use radio equipment and pyrotechnics for survival craft
5. Maneuver the lifeboat under the falls for recovery
6. Safely recover survival craft, including the proper resetting of both off-load and on-load release devices

# APPENDIX II
## Simulator System Specification

| | |
|---|---|
| Documentation (identity) | General<br>■ Davit (gravity type)<br>■ Lifeboat (fully enclosed, self-propelled and self-righting with hook release gear mechanism)<br>Functional model<br>■ Hook-Release gear<br>■ Wire lashings and gripes<br>■ Davit horn<br>■ Winch falls<br>Hook-Release General model<br>■ Release handle<br>■ Stern/Bow hooks<br>■ Hydrostatic interlock<br>■ Release handle<br>■ Safety pin<br>■ Lever of hydrostatic interlock<br>Radar reflection model<br>■ Radar reflector<br>Motion model<br>■ Hydrodynamics<br>■ Propulsion<br>■ Big heel/trim angles<br>■ Dynamic change of draft<br>■ Boat over keel and self-righting<br>■ Launch boat into water<br>■ Realistic wave motion and rolling on bow waves |
| Documentation reviewed (date) | 15 February, 2018 |

NIPPON KAIJI KYOKAI

( T. Koiwa )
*Director of Assurance Operations Division*

DNV·GL

# STATEMENT OF COMPLIANCE

Statement No:
**002/180504**
DNV GL Id No:
**1214371**

## Particulars of Product

| | |
|---|---|
| Function Area: | **Bridge Operation Simulator** |
| Class Notation | **INTEGRATED SIMULATOR SYSTEM, NAUT AW (SIM), DYNPOS - AUT (SIM), HSC, TUG, ICE, AHTS** |
| Name and type designation: | **NAVI-TRAINER PROFESSIONAL 5000 NAVIGATIONAL BRIDGE** |

## Particulars of Manufacturer

| | |
|---|---|
| Manufacturer: | **Transas Marine Limited** |
| Manufacturer address: | **Little Island, Cork, Ireland** |

## This is to confirm:

That the above product is found to comply with Class A- Standard for Certification of Maritime Simulators No. DNVGL-ST-0033 April 2018.

## Application

The above Standard is based on requirements in the STCW Convention, Regulation I/12 and corresponding industry standard and guidelines.

This Statement is valid until **2023-05-04**, provided the requirements for the retention of the Statement will be complied with.

Issued at **Sandefjord** on **2018-05-04**

for **DNV GL**

**Nils Gunnar Bøe**
**Head of Section**

**Capt. Aksel David Nordholm**
**Auditor**

This Statement is subject to terms and conditions overleaf. Any significant change in simulation performance may render this Statement invalid.



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## Application/Limitation

**Table 3-2 Competencies addressed by bridge operation simulator class**

| *STCW reference* | *Competence* | *Class A (NAV)* | *Class B (NAV)* | *Class C (NAV)* | *Class S (NAV)* |
|---|---|---|---|---|---|
| Table A-II/1.1 | Plan and conduct a passage and determine position | A | B | | (S) |
| Table A-II/1.2 | Maintain a safe navigational watch | A | B | | (S) |
| Table A-II/1.3 | Use of radar and ARPA to maintain safety of navigation | A | B | C | (S) |
| Table A-II/1.4 | Use of ECDIS to maintain the safety of navigation | A | B | C | (S) |
| Table A-II/1.5 | Respond to emergencies | A | B | C | (S) |
| Table A-II/1.6 | Respond to a distress signal at sea | A | B | C | (S) |
| Table A-II/1.8 | Transmit and receive information by visual signalling | A | B | C | (S) |
| Table A-II/1.9 | Manoeuvre the ship | A | B | C | (S) |
| Table A-II/2.1 | Plan a voyage and conduct navigation | A | B | | (S) |
| Table A-II/2.2 | Determine position and the accuracy of resultant position fix by any means | A | B | | (S) |
| Table A-II/2.3 | Determine and allow for compass errors | A | B | | (S) |
| Table A-II/2.4 | Co-ordinate search and rescue operations | A | B | | (S) |
| Table A-II/2.5 | Establish watchkeeping arrangements and procedures | A | B | | (S) |
| Table A-II/2.6 | Maintain safe navigation through the use of information from navigation equipment and systems to assist command decision-making | A | B | C | (S) |
| Table A-II/2.7 | Maintain the safety of navigation through the use of ECDIS and associated navigation systems to assist command decision making | A | B | C | (S) |
| Table A-II/2.10 | Manoeuvre and handle a ship in all conditions | A | | | (S) |
| Table A-II/2.11 | Operate remote controls of propulsion plant and engineering systems and services | A | | | (S) |
| Table A-II/3.1 | Plan and conduct a coastal passage and determine position | A | B | | (S) |
| Table A-II/3.2 | Maintain a safe navigational watch | A | B | | (S) |
| Table A-II/3.3 | Respond to emergencies | A | B | C | (S) |
| Table A-II/3.4 | Respond to a distress signal at sea | A | B | C | (S) |
| Table A-II/3.5 | Manoeuvre the ship and operate small ship power plants | A | | | |
| Table A-II/5.2 | Contribute to berthing, anchoring and other mooring operations | A | B | C | (S) |

This Statement of Compliance is for the manufacturer offering the simulator for examination or mandatory simulator training and complies with the requirements of DNVGL-ST-0033 Maritime Simulator Systems.

Based on this statement of compliance, maritime training providers in possession of simulators that comply with the requirements of the standard can apply for a product certificate for "Maritime simulator". The simulator's function area and the simulator class according to the standard will be stated on the certificate.