



NIPPON KAIJI KYOKAI

Certificate No. 15 -034

**Statement  
of  
Product Quality**

**THIS IS TO CERTIFY that the below-mentioned simulator is found  
to comply with the NK Standard for Certification of Maritime Education & Training  
Simulator Systems and the following applicable standards:**

**Product description:  
Engine Room Simulator**

**Type designation:  
ERS 5000 TechSim**

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

**Applicable Standards:**

- |                                       |  |
|---------------------------------------|--|
| <b>1) STCW 2010 Manila amendments</b> | <b>Regulation I/12</b>                           |
| <b>2) STCW 2010 Manila amendments</b> | <b>Code A / Table A- III</b>                     |
| <b>3) IMO model course 2.07</b>       | <b>Engine Room Simulator</b>                     |
| <b>4) IMO model course 7.02</b>       | <b>Chief Engineer Officer and</b>                |
|                                       | <b>Second Engineer Officer</b>                   |
| <b>5) IMO model course 7.04</b>       | <b>Officer in Charge of an Engineering Watch</b> |

Date of Initial Registration : 3 June, 2015  
Validity : 2 June, 2018  
Issued at Tokyo on 3 June, 2015

NIPPON KAIJI KYOKAI

  
( K. Fujiwara )  
Executive Vice President

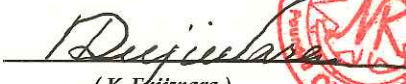


## APPENDIX-A Simulator System

### Simulator system specification

Documentation (identity)	<p>General Product Guidelines:</p> <ul style="list-style-type: none"> <li>■ TechSim 5000 Installation and Configuration Guide For version 8.5</li> <li>■ TechSim 5000 version 8.5 Instructor Manual</li> <li>■ e-Tutor 5000 Transas Evaluation and Assessment System</li> <li>■ TechSim 5000 version 8.5 General Trainee Manual</li> <li>■ Standard Hardware Recommendations Specification for Transas simulators for version 1.101</li> <li>■ TechSim 5000 version 8.5 Visual Tuning User Guide</li> </ul> <p>Ship Model Product Guidelines:</p> <ul style="list-style-type: none"> <li>■ MAN B&amp;W 6S50MC-C Diesel Engine - Product Tanker</li> <li>■ MAN B&amp;W 6S60MC-C Diesel Engine - Tanker LCC (Aframax)</li> <li>■ MAN Diesel 32/40 Twin Medium Speed Engine + CPP - Ro-Pax Ferry</li> <li>■ AZIPOD Diesel-Electric Cruise Ship</li> <li>■ Steam Turbine LNG Carrier</li> <li>■ Dual Fuel Diesel-Electric LNG Carrier</li> <li>■ ANZAC Ship Model</li> </ul>
Documentation reviewed (date)	15 May, 2015
Tests and physical inspection performed (date)	21 and 22 May, 2015 (at Portsmouth in UK)

NIPPON KAIJI KYOKAI

  
 (K. Fujiwara)  
 Executive Vice President



## APPENDIX-B

### Application/Limitation (1/2)

#### Application/Limitation

The simulator system, as described above, gives the capability to simulate a realistic environment for all of the following competencies:

STCW-2010 Manila amendments	Competence
Table A-III/1.1	Maintain a safe engineering watch
Table A-III/1.3	Use internal communication systems
Table A-III/1.4	Operate main and auxiliary machinery and associated control systems
Table A-III/1.5	Operate fuel, lubrication, ballast and other pumping systems and associated control systems
Table A-III/1.6	Operate electrical, electronic and control systems
Table A-III/1.11	Maintain seaworthiness of the ship
Table A-III/2.1	Manage the operation of propulsion plant machinery
Table A-III/2.2	Plan and schedule operations
Table A-III/2.3	Operation, surveillance, performance assessment and maintaining safety of propulsion plant and auxiliary machinery
Table A-III/2.4	Manage fuel, lubrication and ballast operations
Table A-III/2.5	Manage operation of electrical and electronic control equipment
Table A-III/2.8	Detect and identify the cause of machinery malfunctions and correct faults
Table A-III/2.10	Control trim, stability and stress
Table A-III/2.11	Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea and protection of the marine environment
Table A-III/2.14	Use leadership and managerial skills
Table A-III/4.2	For keeping a boiler watch: Maintain the correct water levels and steam pressures
Table A-III/6.1	Monitor the operation of electrical, electronic and control systems
Table A-III/6.2	Monitor the operation of automatic control systems of propulsion and auxiliary machinery
Table A-III/6.3	Operate generators and distribution systems
Table A-III/6.4	Operate and maintain power systems in excess of 1,000 Volts
Table A-III/6.5	Operate computers and computer networks on ships
Table A-III/6.6	Use internal communication systems



**APPENDIX-B**  
**Application/Limitation (2/2)**

Transas Engine Room Simulator (ERS 5000 TechSim) contains the following ship models:

- MAN B&W 6S50MC-C Diesel Engine - Product Tanker
- MAN B&W 6S60MC-C Diesel Engine - Tanker LCC (Aframax)
- MAN Diesel 32/40 Twin Medium Speed Engine+ CPP - Ro-Pax Ferry
- AZIPOD Diesel-Electric Cruise Ship
- Steam Turbine LNG Carrier
- Dual Fuel Diesel-Electric LNG Carrier
- ANZAC Ship Model

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