

Date: _____	
APPLICATION FOR APPROVAL OF USE OF AUTONOMOUS NAVIGATION SYSTEMS (<input type="checkbox"/> New <input type="checkbox"/> Change <input type="checkbox"/> Renewal)	
To: Messrs. NIPPON KAIJI KYOKAI	
Name of Applicant:	
Address:	
(Signature) _____	
<p>We hereby request issuance of a certificate on the following autonomous navigation systems in accordance with the “Rules for the Survey and Construction of Steel Ships” and “Guidelines for Automated/Autonomous Operation on ships” on satisfactory completion of tests and inspection. This request is made on the basis that we accept the provisions of “Conditions of Service for Classification of Ships and Registration of Installations” of NIPPON KAIJI KYOKAI.</p> <p>We agree to pay all survey fees and expenses incurred as a result of the above-mentioned services regardless of whether the results of the services are acceptable or not.</p>	
Name of article	
Type (Those of similar type, if any, to be described separate)	
Name of manufacturer for System (including factory)	
Address Tel. No.	
Provided function and Software version	<div style="display: flex; justify-content: space-between;"> (Provided functions) (Software version) </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Situational awareness : </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Collision and grounding avoidance : </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Route execution and monitoring : </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Data recording : </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Alert management : </div>
Level of autonomy	<input type="checkbox"/> 1 (Support) <input type="checkbox"/> 2 (Conditional autonomous) <input type="checkbox"/> 3 (Advanced autonomous)
Phase of navigation	Level of autonomy 1: <input type="checkbox"/> Berth/unberth <input type="checkbox"/> Harbor <input type="checkbox"/> Coastal <input type="checkbox"/> Open sea Level of autonomy 2: <input type="checkbox"/> Berth/unberth <input type="checkbox"/> Harbor <input type="checkbox"/> Coastal <input type="checkbox"/> Open sea Level of autonomy 3: <input type="checkbox"/> Berth/unberth <input type="checkbox"/> Harbor <input type="checkbox"/> Coastal <input type="checkbox"/> Open sea
Apply to “Automatic Devices and Equipment (Environmental Test)”	<input type="checkbox"/> Yes <input type="checkbox"/> No
Apply to “Approval of Use of Computer Based System”	<input type="checkbox"/> Yes <input type="checkbox"/> No
Apply to “Approval of Use of Systems and Equipment with Improved Cyber Resilience”	<input type="checkbox"/> Yes <input type="checkbox"/> No
Apply to additional security capabilities ^{4,5}	<input type="checkbox"/> Yes <input type="checkbox"/> No

Drawings	Fill out the following attached sheets that applies: Attached sheet 1: A. Autonomous Navigation Systems Attached sheet 2: B. Automatic Devices and Equipment (Environmental Test) ⁶ Attached sheet 3: C. Computer Based Systems ⁷ Attached sheet 4: D. Systems and Equipment with Improved Cyber Resilience ⁴
Where to Contact	Address: E-mail: Name of Sec. Dept: Name of person in Charge:
Remarks	

Notes:

1. In case space is in short, use separate sheets.
2. Cross out with a straight line on unnecessary letter.
3. The applicant is to be identical to the section of the manufacturer in charge of the equipment concerned.
4. In case apply to "Approval of Use of Systems and Equipment with Improved Cyber Resilience" simultaneously.
5. Check "Yes" in case that computer-based systems with network communication to untrusted networks (4.4.3, Part X of the Rules for the Survey and Construction of Steel Ships).
6. In case apply to "Automatic Devices and Equipment (Environmental Test)" simultaneously.
7. In case apply to "Approval of Use of Computer Based Systems" simultaneously.

(Attached sheet 1)

A. Autonomous Navigation Systems ⁸ (Annex I-1.4.3 of Guidelines for Automated/Autonomous Operation on ships)		
Documents need to be submitted	Document title	Document No.
-1(2) ConOps for the ship installed with ANS		
-1(3) Functional requirement specifications and designs for ANS		
-1(4) Manual for ANS (including outline, operating procedures, maintenance procedures and contact information in case of malfunction)		
-1(5) Results of risk assessment		
-1(6) Documents related to the design and development system (quality plan and quality manual)		
-1(7) Documents related to the design and development process		
-1(8) Result of function confirmation test		
-1(9) FAT plans		
-1(10) Change management procedure		
-2(1) Environmental compliance		
-2(2) Software test report		
-2(3) System test report		
-2(4) FAT report		
-2(5) Additional FAT documentation (e.g. user manuals)		

Notes:

8. Refer to Annex I of Guidelines for Automated/Autonomous Operation on ships regarding rules and required documents.

(Attached sheet 2)

B. Automatic Devices and Equipment ^{9,10} (1.2.1, Part 7 of Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use)		
Documents need to be submitted	Document title	Document No.
(1) Specifications (description of the product name, type, principal particulars, use, construction, performance, etc.)		
(2) List of equipment including the similar type		
(3) System diagram (when systems are composed of plural units)		
(4) Construction drawings (general dimensions and sectional assembly plan, etc.)		
(5) Wiring diagram (electrical systems), piping diagram (pneumatic or hydraulic systems)		
(6) List of major parts (this may be included in the above (2) or (4)) (a) Product name, principal particulars, material, quantity, applicable rules and standards are to be specified. (b) Bought-in parts are to be included.		
(7) Instruction manual (including operating procedure)		
(8) Inspection and test specification for quality control (including test data)		
(9) Past records of products (if any)		
(10) Environmental test procedures prepared according to 1.3.		
(11) Certificate and test result certificate issued by bodies recognized by the Society (if any)		

Notes:

9. In case apply to “Approval of Use of Automatic Devices and Equipment (Environmental Test)” simultaneously.
10. Refer to the Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” regarding rules and required documents for “Approval of Use of Automatic Devices and Equipment (Environmental Test)”.

(Attached sheet 3)

C. Computer Based Systems ^{11,12} (8.2.2, Part 7 of Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use)		
Documents need to be submitted	Document title	Document No.
(1)(a) Quality plan (and quality manual)		
(1)(b) System description (System specification and design)		
(1)(c) FAT program		
(1)(d) Change management procedure		
(1)(e) Other drawings and data deemed necessary by the Society		
(2)(a) A certificate issued in accordance with Chapter 1, Part 7 of Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use or documents proving satisfaction with environmental tests specified in Table 7.1-1 of the Guidance.		
(2)(b) Software test report		
(2)(c) System test report		
(2)(d) FAT report		
(2)(e) Additional FAT documentation (e.g. user manuals)		
(2)(f) Other drawings and data deemed necessary by the Society (e.g. FMEA)		

Notes:

11. In case apply to “Approval of Use of Computer Based Systems” simultaneously.
12. Refer to the Chapter 8, Part 7 of Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use regarding rules and required documents for “Approval of Use of Computer Based Systems”.

(Attached sheet 4)

D. Systems and Equipment with Improved Cyber Resilience ^{13,14} (10.2.2, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use”)		
Documents need to be submitted	Document title	Document No.
(1)(a) Computer-based system asset inventory		
(1)(b) Topology diagrams		
(1)(c) Description of security Capabilities		
(1)(d) Test procedure for security Capabilities		
(1)(e) Secure development lifecycle		
(1)(f) Other drawings and data deemed necessary by the Society		
(2)(a) Security configuration Guidelines		
(2)(b) Plans for maintenance and Verification		
(2)(c) Information supporting incident response and recovery plans		
(2)(d) Management of change plan		
(2)(e) Other drawings and data deemed necessary by the Society		

Notes:

13. In case apply to “Approval of Use of Systems and Equipment with Improved Cyber Resilience” simultaneously.
14. Refer to the Chapter 8, Part 7 of Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use regarding rules and required documents for “Approval of Use of Systems and Equipment with Improved Cyber Resilience”.