



CERTIFICATE NUMBER
17-LD1638193-PDA

DATE
16 Jun 2017

ABS TECHNICAL OFFICE
London Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of

ZENITEL NORWAY AS

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Sound Reception System**

Model: **Vingtor ACM Communication System**


This Product Design Assessment (PDA) Certificate 17-LD1638193-PDA, dated 16/Jun/2017 remains valid until 15/Jun/2022 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING



Theodoros Chatzidakas
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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Tier: 2 - PDA Issued

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Product: Sound Reception System
Model: Vingtor ACM Communication System
Intended Service:

ABS Classed Vessels and Offshore Installations in accordance with the listed ABS Rules and International Standards.

Description:

An integrated communication solution based upon central rack and field station architecture incorporating traditional analogue and IP based communication protocols. Refer to supplementary information for full equipment details. The system can be used as public address and general alarm system in combination with Vingtor SPA-V2 system, Product Design Assessment Certificate 17-LD1600462-PDA.

Rating:

90-230V AC Main Power
90-230V AC UPS input
24V DC emergency supply

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. Where equipment is to be installed in a Hazardous Area it is to be certified accordingly.

When the equipment is to be used as a PAGA System the following restrictions apply:

- i) Each vessel installation is to be specifically approved in accordance with the applicable Rules. Where a single system serves for both public address and general alarm emergency functions, the major system components are to be duplicated as required by 4-8-2/11.5.4.(v) of the ABS Rules for Building and Classing Steel Vessel Rules 2017. The system may be used on passenger vessels provided that the requirements under 5C-7-5/13.13 and 5C-7-5/13.15 of the ABS Rules for Building and Classing Steel Vessel Rules (2017) are met.
- ii) Where the installation forms a combined PAGA System it is a Computer Based Category II System as detailed in 4-9-3/7.1 and 4-9-3/Table 1 of the Steel Vessel Rules (2017) and IACS Unified Requirement E22 Rev1: Sep 2010. The documentation detailed in 4-9-3/Table 2 of the Steel Vessel Rules (2017) for System Category II is to be maintained and made available to ABS upon request.
- iii) Electrical equipment intended for installation in hazardous areas is to be of a certified safe type based on the class of the hazardous area at its location of installation as detailed in 4-8-3/13.1 of the ABS Rules for Building and Classing Steel Vessels (2017). Certificates in this regard are to be presented to the ABS Surveyor for verification on a case by case basis.

Comments:

Each vessel installation is to be specifically approved in accordance with the applicable rules. Where a single system serves for both public address and general alarm emergency functions together with Vingtor SPA-V2, two independent loops are to be provided. The ACM intercom units can provide PA/GA coverage for one of the loops and the SPA-V2 will provide PA/GA coverage for the second loop fulfilling the requirements of 4-8-2/11.5.4.v of the Steel Vessel Rules 2012. The system may be used on passenger vessels provided provided that the Vingtor SPA-V2 system is duplicated as required by 5/13.15.ii. of the Passenger Vessel Guide 2001 upd 2010.

Notes/Drawing/Documentation:

Drawing No. Microsoft Outlook - Memo Style, Declaration of No Changes, Revision: -, Pages: -
Drawing No. SKM_C55817051615260, Application for Revalidation of PDA, Revision: -, Pages: -
Zenitel Technical Report ACM System - IEC 60945 Compliance, 15-11-2009;
Nemko Test Reports 106916/04, E06067.00, 23-06-2008;

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Tier: 2 - PDA Issued

DNV Technical Report No. 2010-3593

Terms of Validity:

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STANDARDS

ABS Rules:

Steel Vessel Rules (2017): 1-1-4/7.7, 1-1-A3 & A4, 4-8-2/11.5.4, 4-8-2/11.7.1, 4-9-3/11.9, 4-9-8/13, 4-9-8/13 Table 1 & Table 2, 5C-7-5/13.13, 5C-7-5/13.15

Steel Vessels Under 90 Meters (295 Feet) in Length (2017): 1-1-4/7.7, 1-1-A3 & A4, 4-6-2/15.9, 4-6-2/17.1, 4-7-4/3.9;

Facilities on Offshore Installations (2017): 1-1-4/9.7, 1-1-A2 & A3, 1-1, 3-8/7.11;

Offshore Support Vessels (2017): 1-1-4/7.7, 1-1-A3 & A4, 4-6-2/15.9, 4-6-2/17.1, 4-9-8/7, 4-9-8/13, 4-9-8/13 Table 1 & Table 2;

Mobile Offshore Drilling Units Rules (2017): 1-1-4/9.7, 1-1-A2 & A3, 4-3-2/15.9, 4-3-2/17.1, 6-6-1/9, 6-1-1/13;

Steel Vessels for Service on Rivers and Intracoastal Waterways (2017): 1-1-4/7.7, 1-1-A3 & A4;

Bulk Carriers for Service on the Great Lakes (2017): 1-1-4/7.7, 1-1-A3 & A4;

High-Speed Craft (2017) 1-1-4/11.9, 1-1-A2 & A3;

Steel Barge Rules (2017) 1-1-4/7.7, 1-1-A3 & A4;

National:

NA

International:

IACS UR E10, Rev.6:2014, IMO A.1021(26) Code on alerts and indicators (2009), Life Saving Appliances (LSA) Code (2010) VII 7.2, IMO MSC Circ. 808:1997, IMO Res. A.813(19):1995

Government:

NA

EUMED:

NA

OTHERS:

NA

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