



CERTIFICATE NUMBER  
17-LD1600462-PDA

DATE  
27 Feb 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: **Public Address and General Alarm**

Model: **Vingtor SPA-V2 Public Address and General Alarm System**

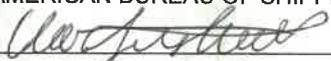
This Product Design Assessment (PDA) Certificate 17-LD1600462-PDA, dated 27/Feb/2017 remains valid until 26/Feb/2022 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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 Chatzigiakidas  
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).

**ZENITEL NORWAY AS**  
P.O. BOX 4498 NYDALEN  
Sandakerveien 24C.  
OSLO  
Norway N-0403  
Telephone: + 47 40002727  
Fax: +47 67 14 69 36  
Email: bjorn.grading@zenitel.com  
Web: www.zenitel.com

**Tier: 2 - PDA Issued**

---

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

**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

TC

**ZENITEL NORWAY AS**  
P.O. BOX 4498 NYDALEN  
Sandakerveien 24C.  
OSLO  
Norway N-0403  
Telephone: + 47 40002727  
Fax: +47 67 14 69 36  
Email: bjorn.grading@zenitel.com  
Web: www.zenitel.com

Tier: 2 - PDA Issued

TC

**Product:** Public Address and General Alarm  
**Model:** Vingtor SPA-V2 Public Address and General Alarm System  
**Intended Service:**

Public Address and General Alarm functions for installation on-board ABS Class Vessels, Passenger Vessels and Mobile Offshore Drilling Units

**Description:**

Modular rack based Public Address system with General Alarm and interfaces to PABX and Fire Alarm systems. Refer to supplementary information for full equipment details.

**Rating:**

115/230V AC 50/60Hz with emergency 24V DC

**Service Restriction:**

Unit Certification is required for this product. Fault simulation and factory acceptance tests, as detailed in 4-9-3/Table 2, 3.6 and 3.7 of the ABS Rules for Building and Classing Steel Vessels (2017), are to be witnessed by an ABS Surveyor. On-board complete system and integration testing as detailed in 4-9-3/Table 2, 4.1 and 4.2 of the ABS Rules for Building and Classing Steel Vessels (2017), are to be witnessed by an ABS Surveyor.

**Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

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.

**Notes/Drawing/Documentation:**

Drawing No. ABS Type Approval Form, ABS Type Approval form, Revision: -, Pages: -

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 17-LD1600462-PDA, dated 27/Feb/2017 remains valid until 26/Feb/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.