



CERTIFICATE NUMBER
15-LD1353476-PDA

DATE
07 Jul 2015

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: **Vintgor Exigo Public Address and General Alarm system.**

This Product Design Assessment (PDA) Certificate 15-LD1353476-PDA, dated 07/Jul/2015 remains valid until 06/Jul/2020 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

Roberto Alvarez
Engineer

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-A/35 9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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Tier: 2 - PDA Issued

Product: Public Address and General Alarm

Model: Vintgor Exigo Public Address and General Alarm system.

Intended Service:

ABS classed Vessels and Offshore Facilities, in accordance with the listed Rules and International Standards.

Description:

The Vintgor Exigo Public Address and General Alarm system can be provided as either:

- PA system only
- GA system only
- Integrated PA and GA system

When used for PA on passenger vessel or integrated PA and GA on any vessel, the system shall be duplicated (A+B system). When used for passenger vessels the A and B systems are to be installed in separate fire zones.

Rating:

115/230VAC, 50/60Hz, with emergency 24/48 VDC

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 (2015), 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 (2015), 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 2015. The system may be used on passenger vessels provided that two segregated amplifiers and independent loudspeaker circuits are installed as required by 5/13.15.ii. of the ABS Guide for Building and Classing Passenger Vessels 2001; update 2010.

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 2015 and IACS Unified Requirement E22 Rev1:Sep 2010. The documentation detailed in 4-9-3/Table 2 of the Steel Vessel Rules (2015) for System Category II is to be maintained and made available to ABS on 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 (2015). Certificates in this regard are to be presented to the ABS Surveyor for verification on a case by case basis.

iv) Equipment to be installed in an exterior location on an Offshore Installation, Floating Production Installation, Mobile Offshore Drilling Unit or similar that is capable of operation after an Emergency Shut-down is to be suitable for installation in a Hazardous Area Zone 2 location as detailed in 3-8-5/13.vi) of the Rules for Building and Classing Facilities on Offshore Installations 2015, 7-2-4/7.15 of the Rules for Building and Classing Floating Production Installations 2015 and 4-3-5/7.1.2 of the Rules for Building and Classing Mobile Offshore Drilling Units 2015.

Notes/Drawing/Documentation:

Drawing No. 20046, Aplica, EMC test report for Exigo Line End Transponder, Revision: 1, Pages: 1

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**Tier: 2 - PDA Issued**

Drawing No. 20146, Aplica, EMC and environmental test report for Exigo PA/GA system, Revision: 0, Pages: 1
Drawing No. A100K11460, Exigo Technical Manual Oil&Gas, Offshore and Marine Applications, Revision: 1.0, Pages: 1
Drawing No. A100K11471, Exigo User Public Address and General Alarm System Guide for Access Panels, Revision: 1.0, Pages: 1
Drawing No. E13192, Nemko, EMC test report for Flowire Ethernet Converter (FCDC1), Revision: 0, Pages: 1
Drawing No. E14083, Nemko, Environmental and EMC test report for IP based intercom and PA panels, Revision: 0, Pages: 1
Drawing No. E14084, Nemko, EMC and environmental test report for EX intercoms (TFIX-x) and EX PA panels (EAPFX-X), Revision: 0, Pages: 1
Drawing No. E14145, Nemko, Environmental test report for Flowire Ethernet Converter (FCDC1), Revision: 0, Pages: 1
Drawing No. E14147, Nemko, Environmental test report for Exigo Line End Transponder, Revision: 0, Pages: 1
Drawing No. SD-11:001, System Description, Exigo Public Address and General Alarm System, Revision: 2.0, Pages: 1

Terms of Validity:

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STANDARDS**ABS Rules:**

Steel Vessel Rules (2015) 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 Table1 & Table 2

Steel Vessels Under 90 Meters (295 Feet) in Length (2015) 1-14/7.7, 1-1-A3&A4, 4-6-2/15.9, 4-6-2/17.1, 4-7-4/3.9; Facilities on Offshore Installations (2015) 1-1, 3-8/7.11;

Offshore Support Vessels (2015) 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 Table1 & Table2;

Mobile Offshore Drilling Units Rules (2015) 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 (2015) 1-1-4/7.7, 1-1-A3&A4;

Bulk Carriers for Service on the Great Lakes (1978) 1-1-4/7.7, 1-1-A3&A4;

High-Speed Craft (2015) 1-1-A2&A3;

Steel Barge Rules (2015) 1-1-A3&A4;

National:

NA

International:

IACS UR E10, Rev.5:2006, IMO A.1021(26) Code on alerts and indicators (2009), Life Saving Appliances (LSA)

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Tier: 2 - PDA Issued

Code VII 7.2, IMO MSC Circ 808, IMO Res. A.813(19)

Government:
NA

EUMED:
NA

OTHERS:
NA