



CERTIFICATE NUMBER
15-LD1426870-1-PDA

DATE
22 Apr 2016

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

AUTRONICA FIRE AND SECURITY 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: **Alarm System, High Level and Overfill**

Model: **OAS-5.5**

This Product Design Assessment (PDA) Certificate 15-LD1426870-1-PDA, dated 22/Apr/2016 remains valid until 21/Oct/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/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: 3 - Type Approved, unit certification not required

Product: Alarm System, High Level and Overfill

Model: OAS-5.5

Intended Service:

ABS Classed Vessels and Offshore Facilities in accordance with the listed Rules.

Description:

The OAS-5.5 high level and overfill alarm system comprises a centralised OAS-5 cabinet housing the main processor CU2, an Alarm module OAU-01A/Ex with triple Ex-1-W00 diode intrinsically safety barriers and level sensors. Sensor types are single high-level HL-8903/8903A, Dual high-level HHL-8903/8903A and H-HHL-89-LNG level switches based on one or two float switches principle and the signals are connects to the main alarm module containing the safety barriers for processing within the central cabinet. The high level and overfill alarm functions are electrically independent with its own sensors and signal processing.

Rating:

Dual power supplies: 115/230 V AC and 24 V DC;

Detector enclosure protection: IP68/1 Bar;

Safe barrier category: [EEx ia] II C, Nemko certificate No. Ex 95D072

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.

Comments:

Tests and approval are for hardware only. Each vessel configuration and external connection is to be specifically approved.

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Installation must be performed in accordance with ABS Steel Vessels Rules (2016) 4-8-4/2, 5C-1-7/31; 5C-8-10.

Notes/Drawing/Documentation:

Drawing No. OAS 5 datasheet, High level overfill flyer final

Terms of Validity:

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STANDARDS

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Tier: 3 - Type Approved, unit certification not required

ABS Rules:

Steel Vessel Rules (2016): 1-1-4/7.7, 1-1-A3&A4, 5C-1-7/21.13, 5C-1-7/21.15.1, 5C-1-7/21.15.2, 5C-1-7/21.15.3, 5C-8-13/3.1, 5C-8-13/3.6, 4-9-8/3, 4-9-8/7, 4-9-8/13, 4-9-8/Table 1 and Table 2

Steel Vessels Under 90 Meters (295 Feet) in Length (2016): 1-1-4/7.7, 1-1-A3&A4, 4-1-1/3.3, 4-7-1/5.39, 4-7-2/15.1, 4-7-2/15.3, 4-7-2/17.3

Facilities on Offshore Installations (2016): 1-1-4/9.7, 1-1-A2&A3

Offshore Support Vessels (2016): 1-1-4/9.7, 1-1-A2&A3, 1-1-A3&A4, 4-9-8/3, 4-9-8/7, 4-9-8/13, 4-9-8/Table 1 and Table 2

Mobile Offshore Drilling Units Rules (2016): 1-1-4/9.7, 1-1-A2&A3, 6-1-1/9, 6-1-1/13

Steel Vessels for Service on Rivers and Intracoastal Waterways (2016): 1-1-4/7.7, 1-1-A3&A4

Bulk Carriers for Service on the Great Lakes (1978, Up-dated April 2008): 1-1-4/7.7, 1-1-A3&A4

High-Speed Craft (2016): 1-1-4/11.9, 1-1-A2&A3

Steel Barge Rules (2016): 1-1-4/7.7, 1-1-A3&A4

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA