FOUNDED 1862

CERTIFICATE NUMBER
12-LD966579D-PDA

DATE
12 December 2012

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

ABB OY, MEDIUM VOLTAGE PRODUCTS - VAASA

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: **Protection Relay**

MODEL: **REU615 Type A, REU615 Type B**

This Product Design Assessment (PDA) Certificate 12-LD966579D-PDA, dated 12/Dec/2012 remains valid until 11/Dec/2017 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

Jean-Claude G. Dennemont
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-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

ABB OY, MEDIUM VOLTAGE PRODUCTS
MUOTTITIE 2 A
VAASA
FIN 65320
Finland

Product: **Protection Relay**

Model: **REU615 Type A, REU615 Type B**

Intended Service:
Voltage and frequency based protection applications in power and distribution systems Type A, automatic voltage regulator functions for power transformers Type B

Description:
Voltage protection and control IED intended for voltage and frequency based protection Type A and automatic voltage regulator functions Type B

Ratings:
Power Supply U(aux) 100/110/120/220/240V AC & 48/60/110/220/250V DC or U(aux)24/30/48/60V DC

Service Restrictions:
Unit Certification is required for this product when it is intended for use in control, monitoring or safety systems as specified in 4-9-6/1 of the Steel Vessel Rules 2012. Testing is to be carried out and evidence is to be submitted for checking by ABS or kept by the manufacturer and made available for checking upon request by ABS as required by 4-9-6/9 of the Steel Vessel Rules 2012 dependent upon the System Category assigned in accordance with 4-9-6/Table 1. Requirements for Tests and Evidence of Quality Assurance are given in 4-9-6/Table 2.

Comments:
Not Applicable

Notes / Drawings / Documentation:
ABB Type Test Report 1MRS081892 Rev C, Nemko Test Reports 194620A and 204526A, VTT Test Report VTT-S-02673-11

Term of Validity:
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STANDARDS

ABS Rules:
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are: 2012 Steel Vessel Rules 1-1-4/7.7, 4-8-3/1.3, 4-8-3/1.7, 4-8-3/5.3.3.a), 4-9-7/13

National:
NA

International:
IEC 60255-1 Ed1.0:2009

Government Authority: