



CERTIFICATE NUMBER

01-LD230782-3-PDA

DATE

16 January 2014

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
DEIF A/S - SKIVE

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: **Multi-function System For Control and Protection of Generator Plants**

MODEL: **PPU, GPU**

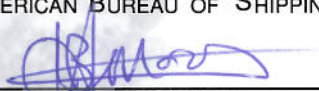
This Product Design Assessment (PDA) Certificate 01-LD230782-3-PDA, dated 16/Jan/2014 remains valid until 15/Mar/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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



Barry H Moss
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 application/certificate is governed by the "Terms and Conditions of the Request for Product Type Approval and Agreement" as contained in the ABS Rules.

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**Tier: 3**

Product: Multi-function System For Control and Protection of Generator Plants**Model: PPU, GPU****Intended Service:**

Generator machinery monitoring systems used on board ABCU, ACC and ACCU class vessels., offshore and industrial applications

Description:

Main Functions:

PPU - Generator paralleling and protection

GPU - Generator protection

Ratings:

Power: Supply 24 VDC;

Enclosure Protection: IP 5X (front face of unit)

Service Restrictions:

Unit Certification is not required for this product.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Individual application is subject to a separate plan review as per the applicable Rules

Notes / Drawings / Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

Term of Validity:

This Product Design Assessment (PDA) Certificate 01-LD230782-3-PDA, dated 16/Jan/2014 remains valid until 15/Mar/2019 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.

STANDARDS**ABS Rules:**

The Rules applicable to this assessment are: 2014 Steel Vessel Rules 1-1-4/7.7, 4-8-2/9.11, 4-9-8/13.5 and 4-9-8/Table 1 and Table 2.

National:

EN 50081-1/2, EN 50082-1/2 - EMC, EN 60529

International:

NA

Government Authority:

As of 16/Jan/2014

Design Assessment