



CERTIFICATE NUMBER

04-LD421828/1-DUP

DATE

07 December 2005

ABS TECHNICAL OFFICE

London Ship Engineering

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
Vartech Systems Inc.

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. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Monitor, computer

MODEL: 21.3" TFT LCD Marine Colour Monitor, No.: VT213WP and No.:VT213WP2

ABS RULE: 2005 Steel Vessel Rules 1-1-4/7.7, 4-9-7/13.1 and 4-9-7/ Tables 9 and 10

OTHER STANDARD: IEC 60945 (relevant sections), and IACS E10;

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont

Engineering Type Approval Co-ordinator

Vartech Systems Inc.
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LA 70809
United States
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Northeast Office: 1957 Pioneer Road Bldg F,
Huntingdon Valley, Pennsylvania 19006, USA

Product: Monitor, computer

Model: 21.3" TFT LCD Marine Colour Monitor, No.: VT213WP and No.:VT213WP2

Intended Service:

General purpose computer monitor for use in the marine environment

Description:

The TFT monitor panel is housed in an aluminium casing, with black and grey finish

Ratings:

Power supply: 90-265V AC, 50/60 Hz, 65 W (Max)

Service Restrictions:

Unit certification of the monitor is required if used in propulsion monitoring, safety and control to verify the tests in 4-9-7/Table 10 of the Rules. Tests may be done after assembly into a system or subassembly unit.

Comments:

Not Applicable

Notes/Documentation:

Approval documentation:

Data Sheet ref.29LM213 Series and User Manual,

TUV certificate Nos.:BO611425/1, SX611425/01/02/03/04/05/06/07

Environmental Test Report No.SX611425/01 Issue 1

EMC Test Report No.BO611425/1

TUV Report No.SX614501/01 (issue 1) and No.00614501/01 (issue 2)

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 04-LD421828/1-DUP, dated 07/Dec/2005. This PDA Certificate expires Dec of 2010. It will remain valid for the 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

STANDARDS

ABS Rules:

2005 Steel Vessel Rules 1-1-4/7.7 , 4-9-7/13.1 and 4-9-7/ Tables 9 and 10

International:

IEC 60945 (relevant sections), and IACS E10

