



MARINE DIVISION

Certificate number: 23664/A0 BV

File number: AP4194

Product code: 4482H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

MARINER SYSTEMS (UK) Ltd

Wokingham - UNITED KINGDOM

for the type of product

MARITIME PERSONAL COMPUTERS

HP Z400 Workstation

complete with

Mariner Systems Mounting Kits MS3010, MS3020

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 21 Apr 2016

For BUREAU VERITAS,

At BV LONDON, on 21 Apr 2011,

Spencer Yule



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

HP Z400 Workstation

The HP Z400 Workstation must be used in conjunction with the appropriate Mariner Systems Kits MS3010 or MS3020.

2. DOCUMENTS AND DRAWINGS :

Mariner Systems (UK) Ltd drawing - MS3010_A Issue 1 dated 23rd June 2009.
 Mariner Systems (UK) Ltd drawing - MS3020_A Issue 1 dated 5th June 2009.
 HP Z400 Workstation Datasheet - DA13276 Version 1 dated 30th March 2009.
 Mariner Systems Component Options sheet - HP Z400 Workstation dated 7th April 2009.

3. TEST REPORTS :

Mariner Systems (UK) Ltd environmental reports TL1313 Issue 1 dated 18th June 2009.

4. APPLICATION / LIMITATION :

- 4.1 - Each Workstation must be used in conjunction with the appropriate Mariner Systems Kits MS3010 or MS3020.
- 4.2 - According to BUREAU VERITAS Rules for the Classification of Steel Ships.
- 4.3 - Approval valid for ships intended to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.4 - BUREAU VERITAS Environmental Category: **31C**
- 4.5 - The equipment fulfils the EMC requirements for installation on the Bridge and weather-protected Deck zones.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The HP Z400 Workstation is to be manufactured, examined and tested by **HEWLETT PACKARD** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.
- 5.2 - The supporting Mounting Kits are to be manufactured, examined and tested by **MARINER SYSTEMS (UK) LTD** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.
- 5.3 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **MARINER SYSTEMS (UK) LTD** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.
- 5.4 - **MARINER SYSTEMS (UK) LTD** has declared to Bureau Veritas that the type of product described in this certificate is manufactured at the following production site:

Mounting Kits:
MARINER SYSTEMS (UK) LTD
Oaklands Park
Wokingham
Berkshire
UNITED KINGDOM

Workstation:
HEWLETT PACKARD
PO Box 692000
Houston
Texas
77269-2000
UNITED STATES OF AMERICA

- 5.5 - Each equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT :

- Maker's name or trade mark.
- Serial number of the unit.
- Equipment type or model identification under which it was type-tested.

7. OTHERS :

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the Personal Computers at any time, and that **MARINER SYSTEMS (UK) LTD, Wokingham - United Kingdom**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

*** END OF CERTIFICATE ***