

MARINE DIVISION

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Certificate number: 13948/C0 BV

File number : MMS 56346/1

Product code : 0001

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

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

SpecTec Group Holdings Ltd

La Spezia - ITALY

for the type of product

MAINTENANCE MANAGEMENT SOFTWARE

AMOS Business Suite module : AMOS Maintenance & Purchase

Version 6.x

(see limitations in clause 4)

Regulations and standards :

Bureau Veritas Rules for the Classification of Steel Ships, NR 496 DTM R00 E/F.
Approval of Computerized Maintenance Management System used on board 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 of the Regulations and standards mentioned above.

This certificate is valid until : 14 Oct 2010

At Paris la Défense, on : 10 Sep 2007

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV GENOA

Surveyor : C. Bozzetti

L. COURREGELONGUE



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. 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 (software):

AMOS Maintenance & Purchase is the Maintenance, Stock, Purchase and Budget module of AMOS Business Suite. AMOS Business Suite is a Windows based Ship management System, including other modules such as Quality and Safety, Voyage and Crew control.

Development tools: Sybase PowerBuilder

Database Manager:

- Sybase Adaptive Server Anywhere 8.0.2
- MS-SQL Server 2000
- Oracle Enterprise Server 8.1.7, 9.1 and 9.2

Production site: SpecTec PD Ltd - Anaxagorou Street 16 - 3031 Agia Zoni - Limassol, Cyprus

2. DOCUMENTS AND DRAWINGS :

- AMOS Maintenance Product Description
 - AMOS Maintenance Detailed product description
 - AMOS Business Suite Version 8.5 Installation guide (rev.1, December 2006)
 - AMOS Business Suite Version 8.5 Reference Manual (rev.1, December 2006)
 - AMOS Maintenance&Purchase Version 6.0 User guide (7 June 2005)
 - AMOS Business Suite Version 8.5 Release Notes (rev.1, November 2006)
 - Bureau Veritas Audit Trail Reports (installation and configuration) (30/07/2007)
- Demo version: Maintenance & Purchase module Version 6.9.12 (part of AMOS Business Suite Version 8.5.12), with Sybase Adaptive Server Anywhere 8.0.

3. TEST REPORTS :

Demo version Maintenance & Purchase Version 6.9.12, with Sybase Adaptive Server Anywhere 8.0, tested as per report VSM/07/00038.

4. APPLICATION / LIMITATION :

The approved Computerized Maintenance Management System is acceptable for use onboard BV classed vessels surveyed under Planned Maintenance System (PMS), or granted with STAR-MACH additional class notation.

This certificate is valid for tested version 6.9.12 and later releases of version 6, provided that alterations of functionality remain in line with the Rules in force.

Onboard installation and maintenance requirements:

The system is to be installed and used according to the manufacturer's recommendations.

The system is to store history of reported jobs, equipment breakdowns and damages for at least 5 years.

Software configuration:

Following parameters should be set as:

Parameter	Software Localisation	Value
Maintenance Log Modification Warning	Tools / Configuration / Parameters / Options / Maintenance	TRUE
Hours	File / Open Register / General / Counter Types	24 max. per day
Allow Negative value of Counters	Tools / Configuration / Parameters / Options / Maintenance	FALSE
Require Reason for Job Rescheduling	Tools / Configuration / Parameters / Options / Maintenance	TRUE
Automatically Reschedule Work Orders	Tools / Configuration / Parameters / Options / Maintenance	TRUE
Log Job Rescheduling	Tools / Configuration / Parameters / Options / Maintenance	TRUE
Report work, require reason for overdue work	Tools / Configuration / Parameters / Options / Maintenance	TRUE

Bureau Veritas Audit Trail reports should be configured with following Tables and Columns to be audited on update, creation and deletion of CompJob, CompJobCounter, Workorder, Component unit and Function:

Table	Column
<i>CompJob</i>	Frequency
	FrequencyPeriod
	LastDone
	DueDate
<i>CompJobCounter</i>	Frequency
	LastDoneCount
<i>Work order</i>	DueDate
<i>Component unit</i>	Class code
<i>Function</i>	Criticality

Access rights are to be set in order to avoid unexpected or spiteful editing or deleting of maintenance histories and maintenance logs.

5. PRODUCTION SURVEY REQUIREMENTS :

Nil.

6. MARKING OF PRODUCT :

Identification is:

- Maker's name or trade mark: SpecTec Group Holdings Ltd,
- Software name and version: AMOS Maintenance & Purchase Version 6.x.

Identification is displayed in menu "Help / About ..." of the software and is to be available in software manual.

7. OTHERS :

7.1 - The approval only concerns the functionality and does not certify that the software is free from anomalies.

SpecTec Group Holdings Ltd, La Spezia - ITALY should notify BUREAU VERITAS of any modification or changes to the software in order to maintain the validity of the Type Approval Certificate or to renew it, as relevant.

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the installed softwares at any time and that **SpecTec Group Holdings Ltd, La Spezia - ITALY**, will accept full responsibility for informing shipbuilders, ship owners or their sub-contractors of the proper methods of use and general maintenance of the software and the conditions of this approval.

7.2 - This Certificate supersedes Type Approval Certificate N°13948/B0 BV issued on 01/02/2007 by the Society.

7.3 - SpecTec Group Holdings Ltd web site address is www.spectec.net.

***** END OF CERTIFICATE *****