



NIPPON KAIJI KYOKAI

Certificate

Certificate No. W-30

of

APPROVAL FOR WATER LEVEL DETECTION AND ALARM SYSTEMS

MANUFACTURER: PSM Instrumentation Ltd, UK
ARTICLE: Bulk Carrier Water Level Detection System
TYPE NO.: PSM BULKSAFE
TYPE TEST NO.: 04W417
PARTICULARS:
Construction Intrinsicly Safe Type (Ex ia IIC T6)
Power Supply AC 110/220V, DC 24V
Components Sensor: types 200/260/360
I.S. Barrier: types 7787S+, 7087+, 7187+, or 787S
Alarm Monitor Panel: type IWT4000
DOCUMENTATION: SPR-088-WD-008, P12021-168-CD, S-001192-IWT-SYS,
SPR088-033-GO, Environmental Test File No.TL720,
EMC Test Report No.03012608, Research Report No.TEL4268
TEST ITEMS: Shown on the attached sheet

THIS IS TO CERTIFY that the above mentioned type of article has been approved by the NIPPON KAIJI KYOKAI in accordance with the regulation XII/12 of 2002 Amendments to SOLAS and the relevant requirements.

This certificate will remain in force until the 15th day of July 2009.

Issued at Tokyo on the 16th day of July 2004.


S.Ogawa
General Manager,
Machinery Department



Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

Attached sheet - 1/1

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Test items: Applied test items are marked with X.

| ENVIRONMENTAL TESTS | Mark |
|--|------|
| External examination | X |
| Operation test and performance test | X |
| Electric power supply failure test | X |
| Electric power supply fluctuation test | X |
| Power supply fluctuation test | -- |
| Insulation resistance test | X |
| High voltage test | X |
| Dry heat test | X |
| Damp heat test | X |
| Vibration test | X |
| Inclination test | X |
| Cold test | X |
| Salt mist test | X* |
| Electrostatic discharge immunity test | X |
| Radiated radio frequency immunity test | X |
| Conducted low frequency immunity test | -- |
| Conducted high frequency immunity test | X |
| Burst / Fast transient immunity test | X |
| Surge immunity test | X |
| Radiated emission test | X |
| Conducted emission test | X |
| Pressure test for enclosure | X |
| Cargo / Water mixture test | X |
| Test for intrinsically safe type | X |

*Sensors only