

LR Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.

This certificate is issued to:

PRODUCER	POLE STAR SPACE APPLICATIONS LTD 2nd floor, Astly House, 33 Notting Hill Gate, London, W11 3JQ United Kingdom (UK)
PLACE OF PRODUCTION	Exegon Limited, 1-3 Poulsons Yard, Strattons Walk, Melksham Wiltshire, SN12 6JL United Kingdom (UK)
DESCRIPTION	Ship Alert System
TYPE	Purple Finder DSAS
APPLICATION	Marine and land based applications in environmental categories ENV1, ENV2, ENV3 and ENV5 as detailed in LR Test Specification No. 1: 1996.
SPECIFIED STANDARD	IEC 60945 Complies with IMO Resolution MSC. 136(76)
OTHER CONDITIONS	The LR Rules and Regulations for the Classification of Ships must be complied with when installed on LR Classed Ships.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify LR of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 03/00065 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	03/00065
Issue Date	09 June 2003
Expiry Date	08 June 2008
Sheet	1 of 1

Lloyd's Register of Shipping
71 Fenchurch Street, London EC3M 4BS

M. A. Rufaie
M.H.A. Rufaie
Marine Support Group
London

DESIGN APPRAISAL DOCUMENT

Date 09 June 2003	Quote this reference on all future communications DAPP/MSG/ECE/TA/W00217963/MHR/O- 34629
----------------------	---

LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 1996.

Issued to: **POLE STAR SPACE APPLICATIONS LTD**

for: **SHIP ALERT SYSTEM**

Type: **PURPLE FINDER DSAS**

TYPE APPROVAL CERTIFICATE No. 03/00065

The undernoted documents have been reviewed for compliance with the requirements of Lloyd's Register's Type Approval System, 1996 and this Design Appraisal Document is a supplement to the Certificate.

APPROVAL DOCUMENTATION

Request form	27.01.2003
Mariner letter	27.01.2003
Pole Star letter	27.01.2003
LR Newcastle email	18.03.2003
Mariner letter	20.03.2003
Mariner email	06.06.2003
LR Newcastle memo	24.03.2003

Data Sheets

Equipment photographs (3 pages)	Undated
Installation Instructions - Purple Finder DSAS	12.2002
Retelite (Total Equipment Solutions)	Undated
Purplefinder.com (Pole Star) brochures	Undated

Drawings

Assembly Drawing E158 Signal Conditioner PCB	Undated
--	---------

Parts Lists

E158 TMC MAIN PCB	30.08.2001
-------------------	------------

TEST REPORTS

LR Southampton email	10.04.2003
LR Southampton email	23.05.2003
Exegon Quality Control Manual	21.02.2003
TMC Innovations Ltd.	21.02.2003
Mariner Environmental Test Timetable (File No. TL 703)	Undated
Mariner Test Report No. TL 703	13.02.2003
Mariner Test Report No. TL 703A	17.03.2003
LR Southampton inspection report (SOU0300215)	07.04.2003
LR Southampton inspection report (SOU0300405)	22.05.2003

Page	2 of 2
Document number	03/00065
Issue number	1

DESIGN APPRAISAL DOCUMENT

Date 09 June 2003	Quote this reference on all future communications DAPP/MSG/ECE/TA/W00217963/MHR/O- 34629
----------------------	---

Supplementary Type Approval Terms and Conditions

LR Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

LR Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules of Lloyd's Register of Shipping are complied with.

This LR Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations of Lloyd's Register of Shipping.

Lloyd's Register of Shipping reserves the right to cancel or withdraw this LR Type Approval Certificate in accordance with the LR Type Approval System Procedure.

M. A. Rufaie

M.H.A. RUFAIE
Electrical and Control Engineering / Type Approval
Tel. +44 (0) 20 7423 1849 Direct line

Lloyd's Register of Shipping, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'LR Group'. The LR Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant LR Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

M.A. MURPHY

M.A. MURPHY
Head of Control Engineering Type Approval
Tel: +44 (0) 20 7553 1869 Direct line