

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Ship Security Alert System (SSAS)**with type designation(s)  
**DSAS Mk2**

Issued to

**Pole Star Space Applications Ltd**  
**London, United Kingdom**

is found to comply with

**DNV GL rules for classification – Ships, offshore units, and high speed and light craft**  
**ISPS Code - SOLAS Chapter XI-2 Regulation 6 Ship Security Alert System**  
**IMO Resolution MSC.147(77) Revised Performance Standards for a Ship Security Alert System**  
**IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the**  
**global maritime distress and safety system (GMDSS) and for electronic navigational aids****Application :****See page 2**Issued at **Høvik** on **2017-07-12**for **DNV GL**This Certificate is valid until **2022-07-11**.DNV GL local station: **London**Approval Engineer: **Steinar Kristensen****Jan Tore Grimsrud**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



## Product description

DSAS Mk2 Security Alert System, consisting of :

Component	Article no	Software
• DSAS Mk2 box, comprising <ul style="list-style-type: none"><li>○ Skywave Inmarsat Mobile User Equipment</li><li>○ Pole Star Circuit - / Charger Board</li><li>○ Power pack, 18Ah</li></ul>	IDP-690 PCB-E184	V184A
• 2x Alert Activation points (Normally Closed, N/C)		

The DSAS Mk2 is configured via the Pole Star PurpleFinder® Application web interface

## Application/Limitation

The SSAS is to be used according to the manufacturer's guidelines and is not to be used in areas requiring intrinsically safe equipment.

### Coverage area:

The DSAS ship security alert system uses an Inmarsat Type Approved IDP-690 IsatData Pro M2M transceiver.

Coverage area will be as defined by Inmarsat IsatData Pro service coverage area, approximately corresponding to between 70° North and 70° South.

## Type Approval documentation

DNV GL No	Doc. Id.	Rev.	Description
17	Alert Advanced User Guide	Issue 3.0	MANUAL: Pole Star, DSAS Range Alert Advanced User Guide
16	ELS 163378/1/R/ID/12	1	REPORT: SGS, Ingress Protection (IP) test report
15	PS-TN-DSAS-MK2-SIG V1.0	Ver. 1.0, March 2012	MANUAL: Pole Star, DSAS Mk2 Manual
11	2012-11-08	2012-11-08	REPORT: Pole Star, DSAS MKII Performance Test Report
8	TL1587-ENV Pole Star	2012-01-27	REPORT: Mariner Systems, Environmental Test report
7	TL1587 EMC Pole Star	2012-01-27	REPORT: Mariner Systems, EMC Test report

## Tests carried out

- Environmental testing: IEC 60945 (2002)
- Performance testing: DNV GL Type Approval Programme No 849.01 for SSAS

## Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

## Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.