



TYPE APPROVAL CERTIFICATE

형식승인증서

Certificate No. : FRA17934-AC001 **Date of Approval** : 22nd September, 2004.
Product : Ship Security Alert System
Manufacturer : CLS(Collecte Localisation Satellites)
8-10, ure Hermes Parc Technologique du Canal 31526 Ramonvile Cedex,
France
Product Description : Type : ShipLoc IV
- Power Supply : DC 24 V
" See Appendix 1 "

Approval Condition : " See Appendix 1 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipments".
IMO Res. MSC 147(77) and IEC 60945 of International Standard.

This Certificate is valid until 21st day of September, 2009.
Issued at Daejeon, Korea on 22nd September, 2004.

한국선급
KOREAN REGISTER OF SHIPPING

Mann-Eung Kim)
General Manager of
Materials and Equipment Team

Note : 1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or is not under attendance for completion of the renewal survey.
2 : Any significant changes of products and/or manufacturing process render this certificate invalid.

Appendix 1

Product Description and/or Approval Condition

Certificate No : FRA17934-AC001

Date of Approval : 22nd September, 2004.

1. Product Descriptions :

A. System Comprising :

- 1) Units integrated in a single casing ;
 - ARGOS transmitter
 - Integrated GPS receiver
 - Flat antenna
 - Internal NI rechargeable batteries (18 Vdc to 32 Vdc)
 - Intelligent batteries charger
 - Protective mounting brackets
- 2) Two activation points(fixed buttons)
- 3) One junction box (below deck equipment) consists of ;
 - Data link interface for connecting the keypad terminal
 - Power supply and Argos transmission LEDs
 - 24-Volt DC power input
 - Seven-wire cable output (to transmitter)
 - Alarm button signal input
 - One ON/OFF signal input (optional)

B. Document stamped with KR endorsement :

- N° S41 03 301 F, N° S41 02 201 J, N° S45 22 303 A, N° S45 22 203 B,
- N° S41 04 203 B, N° S41 04 303 B, N° S41 04 401 A, N° S41 05 802 A,
- N° S41 03 201 F, N° S41 03 301 F, N° S41 03 404 C, N° S41 03 407 B,
- N° S41 02 301 J, N° S41 05 802 A, N° S41 02 801 C, N° S41 05 801 A,
- N° S41 04 203 B, N° S41 03 804 C

2. Approval Conditions :

- 1) This approval is granted on the basis of the approved documents, test report no. 60015871-508801 of LCIE and Survey Report no. RTDAP-0001-04.
- 2) The performance of product should be confirmed by the attending surveyor after installation on board ship.
- 3) This type approval is not to be construed as a substitute for Korean Government's approval.
- 4) No product certificate required.

< The End >