MARINE DIVISION The British Committee

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Certificate number: 07662/C0 MCA

File number: NAV 36/6196/01

Product code: E0100

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

CERTIFICATE OF TYPE APPROVAL

This is to attest that:

The British Committee of BUREAU VERITAS, specified as a "person" under the terms of the Merchant Shipping (Delegation of Type Approval), Regulations 1996, did undertake the relevant type approval procedures of the product identified below which was found to be in compliance with the essential safety requirements subject to any conditions in the attached schedule.

This certificate is issued to

FRANCIS SEARCHLIGHTS LTD

BOLTON - UNITED KINGDOM

for the type of product

DAYLIGHT SIGNALING LAMPS

The Francis FSP 127 (MKV)

Regulations and standards:

The International Convention for the Safety of Life at Sea SOLAS 74, as amended, Reg. V/19.2.2.2.

IMO MSC.95(72) & Res. A694(17).

MCA Rules: Regulation 19; 2.2.2 and Annex 9.

This certificate is valid until: 30 Jan 2013

At Paris La Défense, on : 30 Jan 2008

For the British Committee of BUREAU VERITAS,

By order of the Secretary

Approval office



Local office : BV LONDON Surveyor : S. Yule





L.COURREGELONGUE

The MCA is an Executive Agency of the Department of the Environment, Transport and the Regions. This certificate is issued under the authority given in Merchant Shipping Notice No. MSN 1735(M+F) Amendment 2.

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 lt/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.

mca

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THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The Francis FSP 127 (MKV) (commercial version) daylight signalling lamp is all aluminium constructed and fitted with an aluminium parabolic reflector. It is provided with a handle mounted switch to operate the lantern. It is capable of maximum daylight signalling range of 8 miles, with a transmission rate of 12 words per minute.

Depth:

240 mm (including eyepiece)

Width: Height: 159 mm 265 mm 2.2 kg

Weight: Enclosure:

IP 56

Bulb:

12V or 24V/60W

2. DOCUMENTS AND DRAWINGS:

- 2.1 Manufacturer drawings:
- X0820 rev. 1 dated 25.02.77; MKV 5" hand sig lantern sectional elevation.
- X1151 rev. 0 dated 23.12.77: MKV 3 pin plug.
- 007539757 issue 1, 007539755 issue 1, 007539699 issue 1, 00753969 issue 1, 007539754 issue 1. Dwgs dated 29.08.95.
- C15197-A2 first used on A4023
- C10548-A2
- A4023-A1

2.2 - Specification:

- Data sheet Issue 1 FSP 127 mm.
- Production test specification for light signal 5.0 inch NSN 5850 99 527 7235, dated 08.96.
- User information for FSP 127 mm Signalling lantern.

3. TEST REPORTS:

- 3.1 Performance test has been carried out under the supervision of a BV Surveyor, and as per stamped Inspection report 9830LDR030-1 dated 30.03.98. Functional test also carried out as per electrical test report dated 26.06.97, N° F04561.
- 3.2 Quinetiq test report ref.: Quinetiq/S & E/SPS/MATS/R/TT 15/02-1. O'-issue 1 dated August-2002.

4. APPLICATION / LIMITATION :

As per requirements of Regulations stated on front page of this certificate.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 The Francis FSP 127 (MKV) is to be manufactured, examined and tested by **FRANCIS SEARCHLIGHTS LTD.** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.
- 5.2 Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end FRANCIS SEARCHLIGHTS LTD. has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.
- 5.3 FRANCIS SEARCHLIGHTS LTD. has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production site:

FRANCIS SEARCHLIGHTS LTD.
UNION ROAD
BOLTON
UNITED KINGDOM

Certificate number: 07662/C0 MCA

6. MARKING OF PRODUCT:

- 6.1 The searchlight shall be marked as follows:
- 6.1.1 Trade name.
- 6.1.2 Type and model number.
- 6.1.3 Date of Manufacture.
- 6.1.4 DOT(UK) approved.
- 6.2 On the illuminant, the manufacturer's label and the voltage and power consumption shall be marked clearly and durably.
- 6.3 Daylight signalling lamps shall further be marked to meet the requirements of resolution A.694(17) and IEC 60945.

7. OTHERS:

- 7.1 This approval is given with the understanding that the Society reserves the right to require check tests to be carried out at any time, and that FRANCIS SEARCHLIGHTS LTD., Bolton UNITED KINGDOM will accept full responsibility for informing shipowners of proper methods of use, storing and maintenance of the searchlight, and the conditions of this approval.
- 7.2 This certificate supersedes the Type Approval Certificate nº 07662/B0 MCA issued on 28/02/2003 by the Society.

*** END OF CERTIFICATE ***