

## EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life Saving Appliance requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC and 2002/84/EC subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer	Electric Fuel Limited
Address	Western Industrial Park P.O. Box 641 Bet Shemesh, 99000 Israel
Annex A1 Item	A.1/1.2
Product Type	PERSONAL LIFE-SAVING APPLIANCE LIGHT
Product Description	Lifejacket automatically operated fixed light - Type: "WAB-MX8"
Specified Standard	SOLAS 74, as amended, Regulations III/4, 34, 35 and 36. The LSA Code, Regulations I/1.2 and II/2.2. IMO Resolution MSC.81(70) Part 1.

The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue 9 February 2004

Expiry date 8 February 2009



Certificate No. MED 0450068

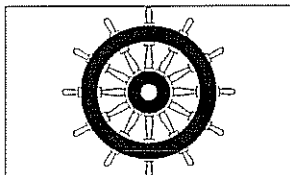
Signed

Sheet No 1 of 3

Name Capt. J. D. Burr  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038

Note:

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

yy Last two digits of year mark affixed.

This certificate is issued under the authority of the MCA.

"Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of the Lloyd's Register Group.

Registration number 4929226.

Registered office 71 Fenchurch Street, London EC3M 4BS, England

0038/yy



# Lloyd's Register Verification Limited

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## DESIGN APPRAISAL DOCUMENT

Date 9 February 2004	Quote this reference on all future communications MSG/STAT/TA/LSA/PDJ
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### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 0450068

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

### APPROVAL DOCUMENTATION

<u>Drawing No.</u>	<u>Rev.</u>	<u>Dated</u>	<u>Title</u>	<u>Approved</u>	
				<u>Status</u>	<u>Date</u>
PL 100350	0	17.03.99	Lifejacket Light	A	13 Jun 2000
DW 100350	0	17.03.99	Assembly drawing	A	13 Jun 2000
DW 100351	A	17.07.03	Cathode C.C.	N	5 Feb 2004
DW 100352	F	21.09.03	Electrodes Housing Printed	A	5 Feb 2004
DW 100353	A	14.02.99	Electrodes Housing	N	12 Jun 2000
DW 100354	A	17.03.99	Lens Assembly	N	12 Jun 2000
DW 100355	B	01.05.01	Base Assembly	N	5 Feb 2004
DW 100356	A	23.03.99	Marine Lamp + Wire Assembly	N	12 Jun 2000
DW 100357	B	18.05.03	Wire (marine)	N	5 Feb 2004
DW 100359	C	20.05.01	Marine Lens Base	N	5 Feb 2004
DW 100360	0	14.02.99	Bottom Cover	N	12 Jun 2000
DW 100361	A	04.02.99	Marine Lens	N	12 Jun 2000
DW 100362	A	17.03.99	Marine Anodes Assembly	N	12 Jun 2000
DW 100363	0	04.02.99	Marine Anode	N	12 Jun 2000
DW 100364	0	14.02.99	Brass Connector	N	12 Jun 2000
DW 100365	0	17.03.99	Marine Cathode Assembly	N	12 Jun 2000
DW 100366	A	14.02.99	Marine Handle	N	12 Jun 2000
DW 100367	0	14.02.99	Case Cover	N	12 Jun 2000
DW 100369	0	14.11.98	Base	N	12 Jun 2000
DW 100370	0	14.02.99	Short Wire	N	12 Jun 2000
PL 100372	0	17.03.99	Electric Wires + Electrodes Ass.	N	12 Jun 2000
DW 100372	0	17.03.99	Assembly Drawing	N	12 Jun 2000
SP 100373	0	11.02.99	Lightbulb, MX8	N	12 Jun 2000
SP 100374	2	16.11.03	WAB-MX8 Instruction Manual (pg4 added)	A	5 Feb 2004
SL 100376	0	23.02.99	Splitter	N	12 Jun 2000
SL 100377	0	23.02.99	Marine Lens Base - Salvage	N	12 Jun 2000
DW 100360	1	20.05.01	Bottom Cover Salvage	N	5 Feb 2004
DW 100398	0	15.05.01	Lifejacket light - general drawing	N	5 Feb 2004*
DW 100213	1	27.03.00	Clip base	N	5 Feb 2004*
DW 100214	3	02.05.00	Clip bracket	N	5 Feb 2004*

\* Details of 100372



**Lloyd's Register Verification Limited**

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**DESIGN APPRAISAL DOCUMENT**

COPY

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TEST REPORTS

Intermodal Material and Nautical/Nuclear Analysis (IMANNA) Laboratory Inc, Florida, USA, Test Report No. 14494-1 dated 10 December 1998 and 14647-1 dated 14 May 1999.  
Intermodal Material and Nautical

CONDITIONS OF CERTIFICATION

1. Light assembly is to be attached to lifejackets either by sewing or tie straps.
2. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
3. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
4. Production items of the subject equipment are to be manufactured in accordance with an approved Production Quality Assurance system (Module D) of the Marine Equipment Directive. However, Module G may also be used but not in conjunction with this Certificate.
5. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81(70), Part 2 and be recorded by the manufacturer in accordance with the approved Production Quality Assurance system (Module D) of the Marine Equipment Directive, however, Module G may also be used but not in conjunction with this Certificate. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration.



Capt. J. D. Burr  
Principal Surveyor  
Dry Cargo Ship Section  
Marine Support Group  
For and on behalf of Lloyd's Register Verification