



Maritime and Coastguard Agency

MGN 362 (M+F)

Servicing of Inflatable Liferafts, Inflatable Boats, Rescue Boats, Fast Rescue Boats, Inflatable Lifejackets and Hydrostatic Release Units.

Notice to all Owners, Operators and Masters of Merchant Ships, Owners and Skippers of Fishing Vessels, Code Vessels, Yachtsmen, Manufacturers and Service Station Personnel.

This notice replaces MGN 339 (M+F)

Summary

Life-saving appliances should be regularly serviced at an approved service station.

Key Points:

All above life-saving appliances carried on UK ships, Code Vessels and fishing vessels are normally required to be serviced annually, although if compliance is impracticable servicing may be deferred for a period not exceeding 5 months.

Listed as Appendices are the names and addresses of the manufacturers of the life-saving appliances and their currently appointed service station located in the UK.

The Maritime and Coastguard Agency (MCA) operates an exception scheme for extended servicing of open reversible liferafts (ORLs) fitted to Class III to VI(A) passenger vessels. These do not apply to ORLs fitted on high-speed craft or canopy liferafts fitted to the above classes of vessels.

Another exception accepted by the MCA which allows servicing intervals of up to 30 months for particular equipment when it is specially packed.

1. Introduction

1.1 Under the provisions of the following Regulations, all inflatable liferafts, boats, rescue boats, fast rescue boats, inflatable lifejackets and hydrostatic release units carried on United Kingdom ships and fishing vessels are required to be regularly serviced at an approved service station:

- Regulation 11(7) of the Merchant Shipping (Life-Saving Appliances for Passenger Ships of Classes III to VI (A)) Regulations 1999.

- Regulation 84 (7) of the Merchant Shipping (Life Saving Appliances for Ships Other Than Ships of Classes III to VI(A)) Regulations 1999 as amended by Merchant Shipping (Life-Saving Appliances for Ships Other Than Ships of Classes III to VI(A)) (Amendment) Regulations 2000.
- Rule 85(2) of the Fishing Vessel (Safety Provisions) Rules 1975.
- Regulation 5 of the Fishing Vessels (Life Saving Appliances) Regulations 1988.
- Sections 12.14 and 12.26.3 of the Survey of Fishing Vessels (Instructions for the Guidance of Surveyors).

2. Approved Service Stations

- 2.1 Equipment listed in paragraph 1 should normally be serviced annually, and every effort should be made to ensure that it is carried out, (however see Section 3 for exemptions). When it is clearly impracticable to comply with this annual servicing requirement, the servicing may be deferred for a period not exceeding 5 months. In such cases, masters or owners should apply to the Maritime and Coastguard Agency's (MCA) Shipping Safety Branch, explaining their reason in writing for seeking deferment.
- 2.2 The International Sailing Federation (ISAF) Offshore Special Regulations (OSR Appendix A Part 2) canister rafts, must be serviced according to the manufacturer's instructions at a manufacturer's approved service station. These rafts are acceptable on some vessels certified under the MCA's Codes of Practice for vessels under 24m (Code Vessels).
- 2.3 Inflatable lifejackets on Code Vessels should be serviced at a service station approved by the manufacturer within one month either side of the Compliance, Renewal and Intermediate examinations of the vessel. In the intervening years they are to be examined annually to the manufacturer's recommendation. Further information on inflatable liferaft and lifejacket servicing can be found in the Codes of Practice.
- 2.4 Appendix 1 lists the manufacturers and up-to-date online details of their currently appointed service stations in the United Kingdom. Manufacturers must notify the MCA with details of any changes to the UK approved service stations. Manufacturers of approved liferafts are required to have a service network of at least six in the UK. Information about location of overseas service stations is available direct from the individual manufacturers or UK representatives. Contact details of manufacturers and UK representatives are listed in Appendix 2.
- 2.5 Where a vessel is carrying a liferaft which needs servicing, but is not manufactured by one of the companies with a UK service station network, the Owner, Master or Agent should contact the manufacturer to establish the location of their approved service stations.
- 2.6 Before putting equipment in a service station, masters or owners should check the continued acceptance of the station direct from the individual manufacturer (See Appendix 1).
- 2.7 An 'approved service station' has been formally appointed by the manufacturer of an approved type of liferaft, boat or inflatable lifejacket and has been accepted by the Secretary of State. It has certificated personnel who have been trained to undertake servicing and repairs, and also to repack inflatable liferafts ready for operational use; it carries genuine spares and is kept fully informed of the current servicing procedures by the approved manufacturer. For information, an extract of IMO Resolution A.761(18) - Recommendations On Conditions For The Approval Of Servicing Stations For Inflatable Liferrafts"- is shown at Appendix 3. This extract outlines the frequency of the various tests carried out.

2.8 At every biennial servicing or servicing referred to in paragraph 3.2, of a davit launched inflatable liferaft, inflatable boat or inflatable rescue boat, a 10% overload static load test is to be carried out with the liferaft or boat suspended from its lifting hook or bridle, in accordance with the manufacturer's approved servicing instructions.

3. Exceptions

3.1 An exception to the annual servicing of liferafts is that for open reversible liferafts (ORLs) fitted to Class III to VI(A) passenger vessels. The MCA introduced a scheme for extended servicing i.e. to omit the 2nd year, 4th year, 6th year and 8th year annual servicing interval. This extended servicing procedure will not apply to ORLs fitted to high-speed craft or to canopy "SOLAS" type liferafts fitted to the above Classes of vessels. Attached as Appendix 4 is a copy of the general exemption from the requirements of Regulation 11(7) of the Merchant Shipping (Life-Saving Appliances for Passenger Ships of Classes III to VI(A)) Regulations 1999. The schedule to this general exemption, attached as Appendix 5, specifically indicates the particular servicing intervals and test methods applicable to ORLs fitted on the above passenger ships.

3.2 A further exception accepted by the MCA allows servicing intervals of up to 30 months for particular equipment when it is specially packed. Special packing systems have been designed and developed by the relevant manufacturers, and these ensure that the liferafts can (i) be operated using the normal control lines, and (ii) remain protected throughout the extended servicing interval within a hermetically sealed membrane which resists water vapour transmission. Under the provisions of SOLAS 1974 Chapter III, regulations 20.8.3 and 20.8.5, the MCA has notified IMO of the arrangements accepted on United Kingdom ships. Extracts from these IMO notifications are attached at Appendices 6, 7 and 8 describe the equipment and the conditions attached to its use. These specially packed liferafts may only be serviced at suitably equipped, approved service stations.

4. Hydrostatic release units (HRUs)

4.1 There are HRUs approved by the MCA which have an operational life of two years without an intermediate service being required. In this case, when the operational life of these particular HRUs has expired, they are to be returned to an authorised service station for a function test to be carried out.

4.2 There have been incidences of incorrectly installed HRUs resulting in a compromise of the float-free arrangements of the liferaft. After servicing of the liferaft and HRUs, where applicable, the liferaft and HRUs when returned on board should be installed strictly in accordance with the approved manufacturer's instructions. Details of the correct installation of the HRU to the liferaft should be provided with each unit supplied. Requirements for onboard stowage of inflatable liferafts together with hydrostatic release units are contained in Marine Guidance Note MGN 343 (M+F).

5. Other Information

5.1 United Kingdom ships are required to carry Wheelmarked liferafts equipped to UK standards under the requirements of the Marine Equipment Directive.

5.2 Internationally, through the provisions of SOLAS 1974, National Administrations are responsible for the approval of servicing stations within their jurisdiction irrespective of whether or not that particular administration has approved the subject product.

5.3 It is an offence to carry an inflatable liferaft, inflatable boat, rescue boat, fast rescue boat, inflatable lifejacket or hydrostatic release unit which is known to be defective, or which has not been serviced at the intervals prescribed by the Regulations.

5.4 This MGN can be found on the MCA website at www.mcga.gov.uk. Although this MGN is issued each year, the service station and manufacturer address lists will be regularly updated on the website. Please notify us at the address below of any changes or additions.

More Information

Shipping Safety Branch
Maritime and Coastguard Agency
Bay 2/11
Spring Place
105 Commercial Road
Southampton
SO15 1EG

Tel : +44 (0) 23 8032 9120
Fax : +44 (0) 23 8032 9251
e-mail: ShippingSafety@mcga.gov.uk

General Inquiries: 24 Hour Infoline
infoline@mcga.gov.uk
0870 600 6505

MCA Website Address: www.mcga.gov.uk

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Appendix 1

Online contact information for current UK approved service stations

Avon

http://catalogue.avoninflatables.co.uk/s-2_f-fc-0-408_ma-54.html

Baltic

<http://www.baltic.se/service.asp?lang=eng>

Crewsaver

http://www.crewsaver.co.uk/Industrial_and_Commercial/Lifejacket_Service_Stations/index.html

CSM (Liferafts)

UK Representative – Nautic Service Sauvetage

http://www.mcga.gov.uk/c4mca/mcga-safety_information/ssb_lif_sav_appliance_serv_stations.htm

Deutsche Schlauchboot GmbH & Co KG (DSB)

<http://www.deutsche-schlauchboot.de/en/downloads/Europe.doc>

Eurovinil

<http://www.eurovinil.it/en/Service/>

Fr Fassmer GmbH & Co. KG

<http://www.fassmer.de/english/service/servicenet.html>

Liferaft Systems Australia

<http://www.liferaftsystems.com.au/service.cgi>

Mullion

http://www.mcga.gov.uk/c4mca/mcga-safety_information/ssb_lif_sav_appliance_serv_stations.htm

Remploy (Ocean Safety)

www.oceansafety.com

RFD / Beaufort

<http://www.survitecgroup.com/en/rfdSite/serviceNetwork/ssByCountry.asp>

Umoe Schat Harding Limited

www.schat-harding.com

Viking

<http://www.viking-life.com/viking.nsf/public/servicing-listofstations.html>

Zodiac/ Bombard

<http://www.zodiacsolas.com/saleservice/index.html>

APPENDIX 2

MANUFACTURERS & THEIR UK REPRESENTATIVES

<p>Avon Inflatables Limited www.avoninflatables.co.uk</p>	<p>Dafan, Llanelli, Carmarthenshire SA14 8NA Tel: 01554 882 000 Fax: 01554 882 039 E-mail: info@avon-inflatable.com</p>
<p>Baltic Safety Products UK www.baltic.se</p> <p>Crewsaver Ltd www.crewsaver.co.uk</p> <p>DSB Deutsche Schlauchboot GmbH & Co KG www.deutsche-schlauchboot.de/en</p>	<p>UK Representative: Unit 4, Mitchell Point, Ensign Way, Hamble, Southampton, SO31 4RF Tel: 023 8045 7272 Fax: 023 8045 4747 E-mail: sales@baltic-uk.com Mumby Road, Gosport, Hampshire, PO12 1AQ Tel: 023 9252 8621 Fax: 023 9251 0905 E-mail: sales@crewsaver.co.uk Angerweg 5, D-37632 Eschershausen, Germany Tel: 0049 5534 3010 Fax: 0049 5534 3012 E-mail: info@deutsche-schlauchboot.de</p>
<p>UK Representative: I C Brindle & Co www.icbrindle.com</p>	<p>34 Lytchett Drive, Broadstone, Dorset, BH18 9LB Tel: 01202 657814 Fax: 01202 693005 E-mail: info@icbrindle.com</p>
<p>Delta www.deltapower.co.uk/support/home.html</p>	<p>Newby Road Industrial Estate, Hazel Grove, Stockport, Cheshire, SK7 5DR Tel: 0161 456 6588 Fax: 0161 456 6686 E-mail: sales@deltapower.co.uk</p>
<p>Eurovinil SpA http://www.eurovinil.it/en</p>	<p>Via Genova 5, 58100 Grosseto, P.IVA 01117410538, Italy Tel: +39 0564 487452 Fax: +39 0564 487222 E-mail: info@eurovinil.it</p>
<p>Fr Fassmer GmbH & Co. KG http://www.fassmer.de/english/service/servicenet.html</p>	<p>Industriestrasse 2 D-27804 Berne/Motzen (Weser) Tel.: +49 4406 942-0 Fax: +49 4406 942-100 E-mail: info@fassmer.de</p>
<p>Liferaft Systems Australia (LSA) Pty Ltd www.liferaftsystems.com.au/</p>	<p>European Manager: PO Box 306, Bangor, Co. Down, BT20 9BF Tel: 028 9127 4424 Fax: 028 9124 0138 E-mail: info@LSAMES.com</p>
<p>Maritime Partner As www.maritime-partner.com</p>	<p>Notenesgata 1, PO Box 776 Sentrum, N 6001 Aalesund, Norway Tel: +47 70 11 65 65 Fax: +47 70 11 65 55 E-mail: office@maritime-partner.com</p>
<p>Mullion Manufacturing Ltd</p>	<p>44 North Farm Road, South Park Industrial Estate, Scunthorpe, North Lincolnshire, DN17 2AY Tel: 01724 280077 Fax: 01724 280146 E-mail: jane.goodwin@uk.sioen.com</p>

Ocean Safety www.oceansafety.com	UK Representative: Ocean Safety Ltd, Saxon Wharf, Lower York Street, Southampton, SO14 5QF Tel: 023 8072 0800 Fax: 023 8072 0801 E-mail: mail@oceansafety.com
RFD Beaufort Limited http://www.rfdbeaufort.com/rfd_Commercial	Commercial Division, Kingsway, Dunmurry, Belfast, BT17 9AF Tel: 44 (0) 2890 301 531 Fax 44 (0) 2890 621 765 E-mail: information@rfdbeaufort.com (Also Lifeguard liferafts) (Beaufort Air-Sea Equipment Ltd) (Dunlop Marine Safety)
Shanghai Star Rubber Products Co. Ltd. http://en.csmliferaft.com/	No.4968 Sichen Highway (Sheshan Industrial Zone), Songjiang District Shanghai, P.R.China Tel: 00 8621 5779 7018 Fax: 00 8621 5779 7008 csmliferaft.com
Nautic Service Sauvetage www.nautic-service-sauvetage.com	Parc de L'Estuaire, Avenue du Cantipou, 76700 Harfleur, France Tel: 33 02 3551 7530 Fax: 33 02 3545 7085 E-mail: servicecommercialnss@orange.fr
Umoe Schat Harding Limited www.schat-harding.com	Mumby Road, Gosport, Hampshire PO12 1AE Tel: 023 9260 3893 Fax: 023 9258 2565 General E-mail: service@schat-harding.co.uk
Viking Life Saving Equipment A/S www.viking-life.com	PO Box 3060, DK-6710 Esbjerg V, Denmark Tel: 00 4576 118 100 Fax: 00 4576 118 101 E-mail: viking@viking-life.com
UK Representative Viking Life Saving Equipment Ltd	Ferry House, South Denes Road, Great Yarmouth, Norfolk, NR30 3PJ Tel: 01493 850250 Fax: 01493 851222 E-mail: vikingldn@viking-life.com
Zodiac and Bombard Liferafts (ZODIAC INTERNATIONAL) www.zodiacsolas.com	Division Marine, 2 rue Maurice Mallet, 92130 Issy Les Moulineaux, France Tel: 00 33 1 41 23 23 23 Fax: 00 33 1 41 23 23 98 E-mail: solassales@zodiac.com
UK Representative International Safety Group Limited www.ispl.co.uk	Orrell Mount, 159 Hawthorne Road, Bootle, Merseyside, L20 6JU Tel: 0151 922 2202 Fax: 0151 922 5874 E-mail: sales@ispl.co.uk

APPENDIX 3

FREQUENCY OF NAP TESTS, WORKING PRESSURE TESTS, GAS INFLATION TESTS AND FLOOR SEAM STRENGTH TESTS.

- extract from IMO Resolution A.761 (18)

Servicing intervals	Test method
End of first year	WP test
End of second year	WP test
End of third year	WP test
End of fourth year	WP test
End of fifth year	GI test
End of sixth year	WP test
End of seventh year	WP test
End of eighth year	WP test
End of ninth year	WP test
End of tenth year	GI test + FS
Eleventh to fourteenth year	NAP test + FS
Fifteenth year	GI test + NAP + FS
Sixteenth to nineteenth year	NAP test + FS
Twentieth year	GI test + NAP + FS
Twenty-first to twenty-fourth year	NAP test + FS
Twenty-fifth year	GI test + NAP + FS
Etc.	

NAP - Necessary additional pressure test

WP - Working pressure (compressed air)

GI - Gas Inflation

FS - Floor seam test

APPENDIX 4

GENERAL EXEMPTION

THE MERCHANT SHIPPING (LIFE-SAVING APPLIANCES FOR PASSENGER SHIPS OF CLASSES III TO VI(A) REGULATIONS 1999

The Secretary of State in exercise of his power under regulation 23 of the Merchant Shipping (Life-Saving Appliances for Passenger Ships of Classes III to VI(A) Regulations 1999¹; hereby exempts ships to which the Regulations apply from the requirement of regulation 11(7) that open reversible liferafts, complying with the requirements of Schedule 4, Part II of the said Regulations, shall be serviced at a service station approved by the Secretary of State at intervals not exceeding 12 months, subject to the following conditions that:

1. such open reversible liferafts shall be serviced;
 - (a) at intervals not exceeding two years; and
 - (b) within the periods stated in the attached Schedule, such periods being measured from the date of manufacture; and
2. the servicing includes the test methods stated in the attached Schedule according to the age of the open reversible liferaft.

This exemption shall not apply to open reversible liferafts carried on High Speed Craft.

This exemption, which may be cancelled or modified at any time, shall remain in force until 31 May 2010.

Dated this 20th day of May 2005

A Fairney
For the Secretary of State

¹ SI 1999/2723

APPENDIX 5

SCHEDULE

SERVICING INTERVALS AND TEST METHODS FOR OPEN REVERSIBLE LIFERAFTS CARRIED ON PASSENGER SHIPS OF CLASSES III TO VI(A)

Servicing intervals	Test method
End of first year	WP test
End of third year	WP test
End of fifth year	GI test
End of seventh year	WP test
End of ninth year	WP test
End of tenth year	GI test + FS
Eleventh to fourteenth year	NAP test + FS
Fifteenth year	GI test + NAP + FS
Sixteenth to nineteenth year	NAP test + FS
Twentieth year	GI test + NAP + FS
Twenty-first to twenty-fourth year	NAP test + FS
Twenty-fifth year	GI test + NAP + FS
Etc.	GI test + NAP + FS

NAP - Necessary additional pressure test

WP - Working pressure (compressed air)

GI - Gas Inflation

FS - Floor seam test

APPENDIX 6

EQUIVALENT ARRANGEMENT FOR EXTENDED SERVICING INTERVALS OF INFLATABLE LIFERAFTS.

Equipment Type

RFD Endura inflatable liferafts packed for extended service intervals. Packing consists of hermetically sealed and dessicated, reinforced and metallised foil bag within a GRP outer container.

These liferafts are type approved as indicated on Lloyds Register/ MCA type approval certificates below in accordance with SOLAS 74, Chapter III regulations 4, 20.8.3 and 34 and Chapter X regulation 3, and manufactured at the places of production as listed on the certificates listed below.

<u>Certificate Number</u>	<u>Liferaft Description</u>
MED 0250139	RFD Endura 25DL
MED 0550071	RFD Endura 6 Mk3
MED 0550072	RFD Endura 8 Mk3
MED 0550073	RFD Endura 10 Mk3
MED 0550074	RFD Endura 12 Mk3
MED 0550083	RFD Endura 12DL Mk3
MED 0550075	RFD Endura 16 Mk3
MED 0550084	RFD Endura 16DL Mk3
MED 0550076	RFD Endura 20 Mk3
MED 0550023	RFD Endura 20DL Mk3
MED 0550085	RFD Endura 20DL Mk3
MED 0550024	RFD Endura 25DL Mk3
MED 0550077	RFD Endura 25 Mk3

Conditions under which extended servicing intervals have been accepted

1. Servicing will be carried out at 30 month maximum intervals, only at approved servicing stations which have additionally been appointed for this purpose by Survitec Group Ltd.
2. As long as the hermetic seal has not been compromised, the 30 month service intervals will apply over the life of the product. Hermetic seal verification must be performed at maximum intervals of 12 months from the date of last service. This is done on board the ship, by measuring humidity inside the pack by means of a coloured indicator
3. Liferafts which are specially packed shall be repacked at each service using new packaging materials within the GRP outer container.
4. On loss of hermetic seal for any reason a raft will be serviced and repacked within 3 months, or 30 months from previous repacking if sooner.
5. All servicing tests prescribed in A761(18) which would have been carried out during the period of the extended service interval will be carried out by the service station at the next service after the nominal "due date" of that test.
6. Monitoring on board consists of regularly checking for moisture ingress by means of a special indicator, and completion of an inspection log which remains aboard the ship; as indicated in the equipment type approval certificate.

7. Passenger ships equipped with liferafts specially packed as above will comply with SOLAS regulation III 19.4.3 by carrying aboard, or having ready access to, a conventionally packed training raft of similar type and means of operation, or by carrying a visual training aid which can simulate inflation and davit launching of such liferafts.

8. In addition to other required marks, the outer containers of specially packed Endura liferafts within the extended servicing scheme carry the following label:

This RFD 'Endura' Liferaft has been designed and manufactured in accordance with the SOLAS 1996 Amendments, regulation 20 paragraph 8.3 and the IMO '2000 HSC Code', chapter 8 paragraph 8.9.9, which permit Extended Service Intervals of 30 months.

To comply with this, the liferaft must be inspected on board by a person certified for such purpose by Survitec Group Ltd at intervals not exceeding 12 months. The record of such inspection must be entered on an Inspection Log Card.

The liferaft must be serviced at intervals of 30 months at a Survitec Group Ltd approved liferaft service station in accordance with regulation 20, paragraph 8.1.2.

APPENDIX 7

EQUIVALENT ARRANGEMENT FOR EXTENDED SERVICING INTERVALS OF INFLATABLE LIFERAFTS

Equipment Type

Zodiac (or Bombard) inflatable liferafts with SOLAS 'A' and 'B' packs of the following models:

Throw over – 6, 8, 10, 12, 16, 20, 25 and 50 persons;

Throw over self righting – 6, 25, 37 and 50 persons;

Davit launched – 12, 16 and 20 persons;

Davit launched - 25 and 37 persons;

Davit launched self righting - 25 and 37 persons.

The liferafts are packed for extended service intervals by enclosure within a sealed polyurethane membrane, located within the GRP outer container (the Extended Packing Service, EPS system). The inflation gas cylinders are fitted with accurate temperature and pressure transducers connected to a port which can be accessed without disturbing the sealed polyurethane membrane.

The liferafts are manufactured by ZODIAC INTERNATIONAL, Issy-les-Moulineaux, France; type approved by Bureau Veritas in accordance with SOLAS 74, Chapter III, regulations 4, 20.8.3 and 34 and Chapter X regulation 3; as evidenced by certificates Nos.

15641/A0 EC	15641/A0 MMF	15561/A0 EC	15561/A0 MMF
15666/A0 EC	15666/A0 MMF	15667/A0 EC	15667/A0 MMF
13298/A1 EC	13300/A0 EC	13301/A0 EC	13302/A1 EC
13305/A1 EC	13303/A1 EC	12930/A0 EC	13297/A0 EC
13304/A0 EC	13299/A0 EC	13148/A0 EC	16045/A1 EC
16046/A1 EC			

Conditions under which extended servicing intervals have been accepted on United Kingdom ships.

1. Servicing will be carried out at 30 month maximum intervals, only at approved servicing stations which have additionally been appointed for this purpose by Zodiac International.
2. Zodiac International will provide the MCA with the results of comparative study on the ageing of liferaft fabric and pressure seams, using material samples variously exposed, and tested at 2 ½, 5, 7 ½ and 10 years of age.
3. EPS liferafts shall be repacked at each service using new packaging materials within the GRP outer container.
4. On deployment, or damage to membrane, or pressure within gas inflation cylinder falling below a limit defined by the manufacturer, a raft will be serviced and repacked within 3 months, or 30 months from a previous repacking, if sooner.
5. All servicing tests prescribed in A761(18) to be carried out, according to the age of the liferaft, during the period of the elapsed extended service interval will be carried out by the service station prior to repacking.
6. Monitoring on board by certified personnel consists of annually checking inflation gas pressure and temperature by means of a special indicator, and completion of an inspection card which travels with the liferaft.

7. Passenger ships equipped with any of the above EPS liferafts will comply with SOLAS regulation III/ 19.4.3 by carrying aboard, or having ready access to, a conventionally packed training raft of similar type and means of operation, or by carrying a visual training aid which can simulate inflation and davit launching of such liferafts.

8. In addition to other required marks, the outer containers of EPS liferafts which are serviced at extended intervals will be marked:

(i) with the words '*EPS liferaft 30 months servicing*' within a disc bearing year and month numerals, and

(ii) with the words '*EPS liferaft 12 months control on board*' within a second disc bearing year and month numerals.

APPENDIX 8

EQUIVALENT ARRANGEMENT FOR EXTENDED SERVICING INTERVALS OF INFLATABLE LIFERAFTS

Equipment Type

Viking S30 inflatable liferafts packed for extended service intervals. Packing consists of hermetically sealed and desiccated, hermetically sealed pouch within a GRP outer container.

These liferafts are type approved as indicated on Det Norske Veritas/ Norwegian Maritime Directorate type approval certificates below in accordance with SOLAS 74 as amended, Chapter III regulations 4, 21.1, 31.1, 34 and Chapter X regulation 3, the resolution MSC.81(70), IMO MSC/Circ.811 and HSC Code 8.1, 8.5, 8.6. 8.7 & 8.10., and manufactured at the places of production as listed on the certificates listed below.

<u>Certificate Number</u>	<u>Liferaft Description</u>
MED-B-3336	6 DK+S30
MED-B-3337	8 DK+S30
MED-B-3338	10 DK+S30
MED-B-3339	12 DK+S30
MED-B-3340	16 DK+S30
MED-B-3341	20 DK+S30
MED-B-3335	25 DK+S30
MED-B-3334	35 DK+S30
MED-B-3342	12 DKF+S30
MED-B-3344	16 DKF+S30
MED-B-3443	20 DKF+S30
MED-B-3403	25 DKF+S30
MED-B-3404	35 DKF+S30

Conditions under which extended servicing intervals have been accepted

1. Servicing will be carried out at 30 month maximum intervals, only at approved servicing stations which have additionally been appointed for this purpose by Viking Life-Saving Equipment A/S
2. As long as the hermetic seal has not been compromised, the 30 month service intervals will apply over the life of the product. Hermetic seal verification must be performed at maximum intervals of 12 months from the date of last service. This is done on board the ship by certified personnel.
3. Liferafts which are specially packed shall be repacked at each service using new packaging materials within the GRP outer container.
4. On loss of hermetic seal for any reason within the first 12 months then a raft will be serviced and repacked within on or before month 12 or 30 months from previous repacking if sooner.' On loss of hermetic seal for any reason after month 12 a raft will be serviced and repacked within 3 months, or 30 months from previous repacking if sooner.
5. All servicing tests prescribed in A761(18) which would have been carried out during the period of the extended service interval will be carried out by the service station at the next service after the nominal "due date" of that test.

6. Monitoring on board is to be done by certified personnel and they will check the humidity based on a computer program that checks the humidity levels and any CO2 leakages. All readings are recorded on the computer. A label, with the date and the liferaft serial number, is then printed and placed on the individual liferaft certificate onboard the ship, as documented evidence for record and inspection purposes.

7. Passenger ships equipped with liferafts specially packed as above will comply with SOLAS regulation III 19.4.3 by carrying aboard, or having ready access to, a conventionally packed training raft of similar type and means of operation, or by carrying a visual training aid which can simulate inflation and davit launching of such liferafts.

8. In addition to other required marks, the outer containers of specially packed S30 liferafts within the extended servicing scheme carry the following label:

1. This liferaft is permitted for extended service intervals of 30 months at an approved service station.

2. The liferaft must be inspected on board by a person certified for such purpose by Viking Life-saving Equipment A/S at intervals not exceeding 12 months.