



Survitec Life rafts

Dear Captain

Please note that most of our vessels now have Survitec life rafts which are exchanged **every 30 months**. Vessels are also provided with starter kit which includes a plug in tester and CD with the software.

These life rafts are approved by MPA. Refer attached certificate.

Kindly note that 30 months is the Cut Off date and the life raft has to be exchanged before 30 months. MPA is very strict and does not grant extension beyond 30 months.

All vessels shall ensure that the complete kit is on board and kept in LSA/FFA locker. Third officer shall maintain proper inventory of the kit.

Starter Kit



Action required by ship staff:

1. **Chief Officer and third officer** shall undergo **ONLINE or OFFLINE** training so that they can carry out the inspection of the life raft. The Survitec ESR Starter Kit contains the training DVD. Official training certificate to be maintained by the Chief Officer and third officer. Refer attached training instructions on how to obtain official training certificate.
2. These rafts are to be inspected on board once a year (Annually) using the instrument in the Survitec starter kit. Inspection results are to be kept with the life raft certificates as they will be checked by PSC inspectors. Refer attached on board inspection instructions.
3. After completing the inspection, the inspection log form has to be completed and filed. A copy of the annual inspection log form is to be sent to the service station (operations.liferafthire@survitecgroup.com) at the time of service. Original to be retained on board.
4. After inspection, the plug on the life raft has to be properly sealed to prevent water ingress.



Grindrod Ship Management, a division of Grindrod Shipping Pte. Ltd.

5. Ensure life raft launching procedures are posted below emergency light.
6. Ensure all the SOLAS training manuals are updated with Survitec life raft instructions. Obsolete instructions to be removed from SOLAS training manual

We request ship staff to check the last annual service date of each life raft and conduct annual service with in the due date (within 12 months from last service).

Also send copy of the training certificates and completed annual inspection report to the ship manager.

Attachments:

1. ESR starter kit contents
2. Singapore flag state approval letter
3. Inspection log form
4. On board inspection
5. Sample training certificate
6. Training instructions

Regards

Captain Rajaraman

DPA

DISTRIBUTION

All Masters

Crewing Managers

Superintendents Marine

Manager HSEQ Manager

Training Manager

SURVITEC ESR STARTER KIT - CONTENTS LIST

This following information outlines the documents and equipment contained in the Survitec ESR Starter Kit. If, for any reason there is a document or piece of equipment missing, please contact us via email at operations.liferafthire@survitecgroup.com

CONTENTS LIST

Documents

- 1 x Introductory Letter
- 1 x Contents List document
- 1 x Instructions set for training crew members on the annual inspection process
- 1 x Set of instructions outlining the annual inspection registration process
- 1 x IMO MSC.1/Circ.1328 document
- 1 x Set of Lloyds Register approval documents for ESR liferafts
- 1 x ESR liferafts data sheet
- 1 x Driver Installation instruction document
- 1 x Note on *Safe Working Loads For Davits* (for davit launch liferafts)
- 10 x Inspection Log Forms
- 10 x Registration Forms for Annual Inspections

Equipment

- 1 x ESR Handheld Device (Survitec part code 52280001)
- 1 x USB Cable (Survitec part code 08994009)
- 1 x Plug Removal Tool (Survitec part code 11795009)
- 1 x Spare Plug (Survitec part code 11776009)
- 1 x Survitec ESR Training DVD (Survitec part code 52384001)



Maritime and Port Authority of Singapore
Shipping Division
460 Alexandra Road
#21-00 PSA Building
Singapore 119963
PSA Building Post Office P O Box 313 Singapore 911141
Tel: (65) 6375 6251 Fax: (65) 6375 6231
Email: shipping@mpa.gov.sg
<http://www.mpa.gov.sg>

Our Ref: FSC 2.6.07

06 12 2013

To: SURVITEC GROUP LTD., UNITED KINGDOM
Attention: Mr. Tommy Scott
email : tommy.scott@survitecgroup.com

Dear Sir,

APPROVAL TO EXTENDING SERVICING INTERVAL OF UPTO 30 MONTHS FOR SURVITEC EPS (EXTENDED PACKING SERVICE) LIFERAFTS

We are pleased to inform you that the Director of Marine has given his approval in principle for extending the servicing of SURVITEC EPS (Extended Packing Service) inflatable liferafts (as listed in the Appendix No.2) manufactured by SURVITEC GROUP Ltd., United Kingdom, upto a maximum period of 30 months subject to the conditions pursuant to SOLAS Regulation III/20.8.3 and attached in Appendix No.1.

2 Please take note that any shipowner or operator wishing to use SURVITEC EPS liferafts on their ships and would like to have the extended servicing intervals of 30-month schedule shall be advised to write to us for a letter of equivalent arrangement for the extended servicing interval.

Continued on Page 2 (Appendix No.1) and Page 3 (Appendix No.2)

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'Ang Mui Teck', is written over a circular blue stamp. The stamp contains the text 'DIRECTOR OF MARINE', 'MPA', and 'SINGAPORE' around a central logo.

ANG MUI TECK
SENIOR MARINE SURVEYOR
for DIRECTOR OF MARINE
MARITIME AND PORT AUTHORITY OF SINGAPORE

Copy to: MPA recognised Classification Societies

Appendix No.2

LIST OF SURVITEC EPS (EXTENDED PACKING SERVICE) LIFERAFTS

NAMES of RAFTS	DESCRIPTION	CERTIFIED BY
<p>“RFD Endura R” also known as — “Survitec ESR” — “DSB LR07E” — “Survitec Zodiac ESP” — “Crewsaver ESR” — “Elliot ESR”</p>	<p>Surviva MkIV, canopied davit launched, packaged for extended service intervals Capacity (persons): 12, 16, 20, 25</p>	<p>Lloyd’s Register EC Notified Body No.0038, United Kingdom and, DGUV Test, EC Notified Body No.0736, Germany</p>
<p>“RFD Endura R” also known as — “Survitec ESR” — “DSB LR07E” — “Survitec Zodiac ESP” — “Crewsaver ESR” — “Elliot ESR”</p>	<p>Surviva MkIV, canopied throw-over or roll-over, packaged for extended service intervals Capacity (persons): 6, 8, 10, 12, 16, 20, 25</p>	<p>Lloyd’s Register EC Notified Body No.0038, United Kingdom and, DGUV Test, EC Notified Body No.0736, Germany</p>
<p>“RFD Endura R 35 SR DL” also known as — “DSB LR97 E 35LSR” — “SURVITEC ESR35DL” — “SURVITEC ZODIAC EPS 35DL” — “CREWSAVER ESR” — “ELLIOT ESR”</p>	<p>Surviva MkIV, canopied, automatically self-righting, davit launched, packaged for extended service intervals Capacity (persons): 35</p>	<p>Lloyd’s Register EC Notified Body No.0038, United Kingdom and, DGUV Test, EC Notified Body No.0736, Germany</p>
<p>“RFD Endura R 35 SR TO” also known as — “Survitec ESR” — “DSB LR97E” — “Survitec Zodiac ESP” — “Crewsaver ESR” — “Elliot ESR”</p>	<p>Surviva MkIV, canopied, automatically self-righting, throw-over or roll-over, packaged for extended service intervals Capacity (persons): 35</p>	<p>Lloyd’s Register EC Notified Body No.0038, United Kingdom and, DGUV Test, EC Notified Body No.0736, Germany</p>



Appendix No.1

CONDITIONS UNDER WHICH EXTENDED SERVICING INTERVALS ARE ACCEPTED ON SINGAPORE REGISTERED SHIPS FOR EPS (EXTENDED PACKING SERVICE) INFLATABLE LIFERAFTS MANUFACTURED BY SURVITEC GROUP LTD. (UNITED KINGDOM)

- 1 Servicing shall be carried out at an approved servicing station which has been specially appointed by SURVITEC GROUP Ltd. to service EPS (Extended Packing Service) liferafts, as listed in the Appendix No.2.
- 2 Servicing shall be carried at intervals not exceeding 30 months.
- 3 EPS liferafts shall be repacked at each servicing using new packaging materials within the liferaft's outer container (valise).
- 4 Any damage to polyurethane membrane, or pressure within gas inflation cylinder falling below a limit defined by the manufacturer, the liferaft shall be serviced and repacked within 3 months, but in no case beyond the 30-month interval stipulated in paragraph 2.
- 5 On deployment of the liferaft, servicing shall be carried out immediately before the liferaft can be put into operational use.
- 6 All servicing tests prescribed in IMO Resolution A.761(18) as amended by MSC.55(66) shall be followed as closely as practicable.
- 7 Monitoring and checking of the liferaft on board the ship shall be carried out annually by qualified personnel certified by SURVITEC GROUP Ltd. in accordance with manufacturer's instructions. Documentary evidence of such monitoring and checking shall be provided to the ship for their record.
- 8 Passenger ships equipped with any of the EPS liferafts listed in Appendix No.2 shall comply with SOLAS Reg III/19.4.3 ("*On-board training in the use of davit-launched liferafts*"), 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.
- 9 In addition to other required marks, the outer containers of EPS liferafts which are serviced at extended intervals shall be marked:
 - a. with the words "**EPS liferaft 30 months servicing**" within a disc bearing year and month numerals, and
 - b. with the words "**EPS liferaft 12 months control on board**" within a second disc bearing year and month numerals.





The Survitec Extended Service Liferaft

- SOLAS / CE approved to IMO recommendations.
- Compatible with multiple cradles
- Exchanged every 2.5 years (30 months)
- Quick and simple, annual on-board inspection by the crew. Full training provided at no extra charge as per IMO MSC.1/Circ. 1328 6.2.2

Carry out the on-board inspection in 4 easy steps.

This is done by using either a **special handheld device**, or a **standard laptop**. Survitec will provide, at no extra charge, the handheld device, the cable, and the software to be installed on your laptop.

Step 1



Step 2



Step 3



Step 4 - Complete!



In the unlikely event that the outcome of an annual on board inspection of the Hire Liferaft is negative, then the crew shall inform Survitec immediately. Survitec will decide and organise appropriate measures as per the IMO and flag state requirements. The cost of these measures will be at the expense of Survitec, unless the cause of the inspection failure is due to misuse of the liferaft.

Survitec Group
Dunmurry, Belfast
BT17 9AF
t: +44 (0)28 9030 1531
f: +44 (0)28 9062 1765



INSPECTION LOG FORM
(see reverse for instructions)

PN 52153001

<p>12 MTH INSPECTION CERTIFICATE No & DATE 591580 7/6/18</p> <p>LIFERAFT SN: 4305700100351 SENSOR SN: 25523</p> <p>24 MTH INSPECTION CERTIFICATE No & DATE 19/7/18 085165</p>	<p>12 MTH INSPECTION CERTIFICATE No & DATE</p> <p>LIFERAFT SN: SENSOR SN:</p> <p>24 MTH INSPECTION CERTIFICATE No & DATE</p>	<p>12 MTH INSPECTION CERTIFICATE No & DATE</p> <p>LIFERAFT SN: SENSOR SN:</p> <p>24 MTH INSPECTION CERTIFICATE No & DATE</p>
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ANNUAL ONBOARD INSPECTION (Months 12 & 24)

Each liferaft shall be inspected on an annual basis by a person certificated under MSC.1/Circ.1328 by the Survitec Group.

- Open the plastic Identity Card / Service Record tube on the liferaft and remove the card.
- Identify the 'Inspection Log Form' (PN 52153001) for that liferaft. Ensure it has been completed correctly on a 12 month basis. Inspection Log Form will be held by the SSO (Ships Safety Officer).
- Visit the website, www.survitecgroup.com for training and downloading the most recent version of software.
- Follow the Humidity & Cylinder procedure as detailed (#)
- Examine the HRU and Painter/weak link attachment. Ensure the HRU is 'in date' and that the painter and weak links are correctly connected.
- Examine the external condition of the liferaft container and stowage. Ensure that the outside surface of the GRP container has no cracks or holes which could result in the liferaft inside not being properly protected.
- Check that the lashing system is taut and shows no signs of damage or excessive wear.
- Complete the following on this form:
 - Fill in the liferaft Serial number (liferaft SN) & Sensor SN in the appropriate space
 - Cross out the appropriate month & year, and enter your training certificate number (received on completion of training) in corresponding inspection complete box.
- Enter your name & training certificate number on the Identity Card / Service Record Card, date it, sign it, and replace in the plastic holder:

LIFERAFT SERVICING RECORD					
Liferaft Manufacturer:		Type:	Capacity:	Serial No:	
Name of Servicing Station	Servicing Station No.	Gas inflation test (yes/no)	Overload test davit launched raft (yes/no)	Date of inspection	Signature (certified technician)
NAME	CERTIFICATE #	N/A	N/A	DATE	SIGNATURE

- Scratch out the year & month on the inspection service record label, found on the container.
- Indelibly mark the 'box' on the container label indicating the next annual inspection date or next service date.

INSP. DATE	INSP. STAMP	SERVICE BEFORE
MANUFACTURER'S INSPECTION DATE (12 - 2012)	MANUFACTURER'S STAMP (S01)	DATE OF FIRST 30 MONTH SERVICE (06 - 2015)
DATE OF 12 MONTH ONBOARD INSPECTION (12-2013)	NAME CERTIFICATE #	DATE OF 24 MONTH ONBOARD INSPECTION (12-2014)
DATE OF 24 MONTH ONBOARD INSPECTION (12-2014)	NAME CERTIFICATE #	DATE OF FIRST 30 MONTH SERVICE (06-2015)

NOTE TO SHIPS SAFETY OFFICER (SSO):

A COPY OF THIS INSPECTION LOG FORM IS TO BE SENT TO THE SERVICE STATION AT TIME OF SERVICE, ORIGINAL TO BE RETAINED.

HUMIDITY & CYLINDER PROCEDURE (#), as shown in the online training (#)

- Unscrew the protective plug on the container and insert the black end of the USB cable into the USB valve.
- Start program 'Survitec Group' on the laptop/PDA **OR** if using the Survitec Handheld please turn on the device and proceed to step 4.
- When prompted on screen to "Connect USB Now" insert the clear end of the USB into the USB port on the laptop/PDA and select OK.
- The program will now run, after approximately 10seconds you will see the results:

Result		Action
Laptop/PDA with Software	Survitec Handheld Reader	
Two Green ✓'s	Two Green LED's & Two PASS's (on LCD screen)	Proceed with Annual Inspection
Red ✗ CO ₂ /Cylinder & Green ✓ Relative Humidity (RH)	Red LED & FAIL (on LCD screen) CO ₂ /Cylinder & Green LED & PASS (on LCD screen) Relative Humidity (RH)	Return the liferaft for Immediate Servicing
Green ✓ CO ₂ /Cylinder & Red ✗ Relative Humidity	Green LED & PASS (on LCD screen) CO ₂ /Cylinder & Red LED & FAIL (on LCD screen) Relative Humidity (RH)	If the liferaft affected has been serviced less than 12 months ago then this liferaft is required to be serviced on or before month 12. Or If it has been 12 months or more since the liferaft's last service then it must be serviced within 3 months. In the case of either scenario, 'extended service interval' label, PN 45420004/-005, should be blanked out and Survitec Group contacted: operations.liferaft@survitecgroup.com
Two Red ✗'s	Two Red LED's & Two FAIL's (on LCD screen)	Return the liferaft for Immediate Servicing



survitecgroup

Certificate of Approval

CERTIFICATE NUMBER: c9974c

This is to certify that the named individual has successfully completed the Survitec training course, and is competent to complete the annual on-board inspections of the Extended Service Liferaft (ESR) as per IMO MSC.1/Circ.1328. This certificate is valid for a period of 3 years and may be withdrawn at the discretion of the awarding manufacturer or local authorities.

Trained Employee: Malcolm Barratt

Ship IMO Number: 5967

Trainee DoB: 05-09-1967

Date of Issue: 23-11-2013

Registered Number: c9974c

Date of Expiry: 23-11-2016

CERTIFIED PRODUCTS

Annual on-board inspections of the Extended Service Liferaft (ESR)



Paul Clarke
Training Manager

David Montgomery
Group Head of Sales (Commercial Liferrafts)

TRAINING INSTRUCTIONS

As per the IMO MSC.1/Circ.1328, Extended Service Liferafts require an annual, on-board inspection whereby the inspections shall be performed by the crew of the vessel. In order to carry out the inspection of a liferaft, the crew member must have been trained by the manufacturer and hold a valid Official Training Certificate, issued by the manufacturer.

Survitec Group provides two possible ways to be trained and certified: OFFLINE and ONLINE. The offline procedure uses the DVD supplied in this **Survitec ESR Starter Kit**. The online procedure requires internet connectivity. It is recommended to use the online procedure, if possible, as this will immediately provide you with your personal Official Training Certificate.

THE ONLINE TRAINING PROCEDURE

1. Visit the Global Liferaft Hire page on the Survitec Group website using the following link:
<http://www.survitecgroup.com/esr>
2. Click on "Watch & Accept Training Video"
3. You will be asked to enter the following:
 - YOUR NAME
 - YOUR DATE OF BIRTH
 - VESSEL IMO NUMBER
 - LIFERAFT SERIAL NUMBER (of one of the ESR liferafts on-board your vessel)
4. Upon the completion of this information, the training video will automatically commence.
5. The training video consists of a number of sections, which demonstrate in detail, the annual inspection process for the ESR liferafts. At the end of each section, you will be requested to confirm you have viewed and comprehended all actions that have taken place in that particular section.
6. At the end of training video, you will be asked to confirm that you fully understand the inspection procedure and are prepared to perform all of the actions as outlined in the video.
7. Upon confirmation, your Official Training Certificate will be issued, containing the unique Certificate Serial Number. At this point, you will be able to download the Official Training Certificate as a PDF document to your computer. Please print the certificate and keep it in a safe location as you may need to produce it in the future. It is also recommended to store the PDF document at a safe location on your computer.

THE OFFLINE TRAINING PROCEDURE

1. Insert the DVD into your PC, and start the installation process by double-clicking the "Survitec Group ESR Training" icon, which will begin the installation process.
2. Please note: your PC will need to have Adobe Flash Player installed in order to view the videos. This is a very common PC plugin, but in the unlikely event that your PC does not have this plugin installed, you can install this by double-clicking the "Install Flash Player 11 Plugin" icon, which will begin the installation process of the plugin.
3. Once installed, you will see a new icon on your desktop, entitled "Survitec Group ESR Training." Double click this to open the Offline Training software.
4. You will be asked to enter the following:
 - YOUR NAME
 - YOUR DATE OF BIRTH
 - VESSEL IMO NUMBER
 - LIFERAFT SERIAL NUMBER (of one of the ESR liferafts on-board your vessel)
5. Upon completion of this information, you will be able to view the training video.
6. The training video consists of a number of sections, which demonstrate in detail, the annual inspection process for the ESR liferafts. At the end of each section, you will be requested to confirm you have viewed and comprehended all actions that have taken place in that particular section.
7. At the end of the training video, you will be asked to confirm that you fully understand the inspection procedure and are prepared to perform all of the actions as outlined in the video.
8. Upon your confirmation, a Temporary Training Certificate will be issued, containing a unique reference number. This Temporary Training Certificate will not be valid for completing the annual inspections. You will need to print the Temporary Training Certificate on your local printer and sign the document.
9. Send a copy of the signed, Temporary Training Certificate to Survitec Group, by either:
 - Email: operations.liferafthire@survitecgroup.com
 - Fax: +44 151 650 5619
10. Please ensure to supply a return fax number if using the fax method.
11. Upon receipt, Survitec Group will validate the certificate and return your Official Training Certificate, containing your unique Certificate Serial Number. Please print this certificate and keep it in a safe location as you may need to produce it in the future.