

MARITIME AND PORT AUTHORITY OF SINGAPORE SHIPPING CIRCULAR NO. 04 OF 2020

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28 Feb 2020

Applicable to: Ship owners, managers, operators, masters of Singapore registered ships, recognised organisations, agents and the general shipping community

LONG RANGE IDENTIFICATION AND TRACKING (LRIT) CONFORMANCE TESTING AND CERTIFICATION

This Shipping Circular serves to update the shipping community on the new appointment of **Pole Star Space Applications Limited ("Pole Star")** as Singapore Registry of Ships' recognised Application Service Providers (ASP) and operator of the Singapore LRIT National Data Centre with effect from 1 March 2020.

- 2. MPA has also appointed Fulcrum Maritime Systems Ltd (Fulcrum), part of CLS Group, Kemilinks International Pte. Ltd. and Pole Star Space Applications Limited (Pole Star), as authorised testing ASPs to conduct conformance testing for Singapore ships, in accordance with procedures and provisions set out in MSC.1/Circ.1307 (Annex A).
- 3. SOLAS regulation V/19-1 which entered into force on 1 January 2008, applies to ships engaged on international voyages, comprising of passenger ships (including high-speed passenger craft), cargo ships (including high-speed craft) of 300 GT and above, and mobile offshore drilling units. Ship owners or managers of applicable ships are to ensure that their shipborne equipment is LRIT compliant and capable of transmitting LRIT information.

Exemptions

4. Regardless of the date of construction, ships fitted with an automatic identification system (AIS), and operated exclusively within the sea area A1, are not required to comply with the provisions of SOLAS Regulation V/19-1 (LRIT Equipment).

Application for Conformance Testing

5. As part of the formal process for LRIT conformance test, all ship owners or managers are to complete the form which is downloadable from the following link:

Fulcrum (part of CLS Group): www.fulcrum-maritime.com/CLSGroup

Kemilinks International Pte. Ltd.: www.kemilinks.net

Pole Star: http://www.polestarglobal.com/services/lrit-conformance/

Please ensure that the vessel's details declared in the LRIT conformance test application from correspond to the other existing statutory certificates of the vessel, for example Certificate of Singapore Registry and Cargo Ship Safety Radio Certificate.

6. Shipowners/ managers are to contact the respective authorised testing ASPs to have the LRIT conformance test conducted. The contact details are:

Name: CLS Group - Fulcrum Maritime Systems Ltd (Fulcrum)

Email Address: <u>Irit.admin@fulcrum-maritime.com</u>

Telephone: +44 (0) 1708 788400 Fax: +44 (0) 1708 788402

Website: www.fulcrum-maritime.com/CLSGroup

Name: Kemilinks International Pte Ltd

Email Address: edneo@kemilinks.net

Telephone: +65-67481619/+65-96652423

Fax: +65-67489335 Website: <u>www.kemilinks.net</u>

Name: Pole Star Space Applications Limited (Pole Star)

Email Address: <u>Irittesting@polestarglobal.com</u>

Telephone: +44 (0) 20 7313 7400 Fax: +44 (0) 20 7313 7401

Website: http://www.polestarglobal.com/

Application for LRIT Conformance Test Report

7. Once the conformance test is successful, the ASP will issue a "**Test Result**" (sample attached as **Annex B**), and shipowners/managers shall submit this "Test Result", together with the completed "**LRIT Equipment Questionnaire**" (**Annex C**) to MPA immediately via the email Irit crpt@mpa.gov.sg. MPA will issue the required "**LRIT Conformance Test Report**" (**Annex D**) to the vessel after verification of the above documents, in accordance with MSC.1/Circ.1307. Please note that the original "LRIT Conformance Test Report' issued by MPA must be retained onboard the vessel for survey or inspection purposes.

Fee Payable

8. Shipowner/manager shall bear the costs of the conformance test conducted by the authorised testing ASP and the "LRIT Conformance Test Report" issued by MPA. The conformance testing fee will be payable directly to the respective testing ASPs. For any queries relating to cost of conformance testing, please contact the respective testing ASPs. The fee for the issuance of the "LRIT Conformance Test Report" amounting to S\$100 will be paid directly to MPA.

Failure in Conformance Testing

9. Shipowners/managers are to liaise directly with the respective testing ASPs for additional testing due to failure of the first conformance testing. Please note that any additional charges to conduct this additional testing would be payable directly to the relevant testing ASP.

Application and Fees of LRIT Conformance Test Report for Transfer of Flag with No Change in ASP

- 10. In accordance with MSC.1/Circ.1307, when a ship undergoes a transfer of flag, the Test Result is considered as remaining valid if the testing ASP which conducted the conformance test under the previous flag is also recognised by the Singapore Registry of Ships (SRS).
- 11. Please also submit the "**Test Result**" issued by the individual testing ASP, and complete the "**LRIT Equipment Questionnaire**" (**Annex C**) to MPA immediately via the email lrit.crpt@mpa.gov.sg. MPA will issue the required "**LRIT Conformance Test Report**" (**Annex D**) to the vessel after verification of the above documents.

Amendment to Incorrect Vessel Details on the Test Result Issued by the testing ASP

- 12. In the event an incorrect vessel detail (eg. vessel name, IMO number, GT etc.) was indicated in the Test Result issued by the testing ASP, please contact the relevant testing ASP for the necessary amendments.
- 13. The shipborne equipment is required to undergo a conformance test and a new Conformance Test Report is to be issued by Administration on the following cases:
 - a) There are changes to the LRIT shipborne equipment;
 - b) The MPA has withdrawn authorisation to the Testing ASP that conducted the conformance test:
 - c) The MPA has been notified by the ASPs that the shipborne equipment is not operating within parameters of the Conformance Test Report and/or in accordance with the LRIT performance standards;

- d) The affected ship has transferred to the Singapore flag and its Conformance Test Report has been issued by an ASP that is neither a Singapore Recognised ASP or a Testing ASP (as per paragraph 6 of this circular);
- e) The ship is intended to operate outside the sea area indicated on the Conformance Test Report
- 14. Also, where there are changes to the following information on the report, Conformance Test Report is to be re-issued:
 - a) Ship details
 - b) Change in ship owner
- 15. This circular supersedes Shipping Circular No. 7 of 2017 and Shipping Circular No. 23 of 2011. Any reference to the above-mentioned circular should be read as reference to the present circular.
- 16. Any queries relating to this circular should be directed to the SRS at Tel: 1800 272 7777 (select option 1), or the LRIT's dedicated email account at lrit_crpt@mpa.gov.sg.

GOH CHUNG HUN DIRECTOR OF MARINE MARITIME AND PORT AUTHORITY OF SINGAPORE

Annex A - MSC .1/Circ.1307

Annex B – Sample of LRIT Conformance Test Result

Annex C – MPA LRIT Application Form

Annex D – Sample of LRIT Conformance Test Report

Annex A

INTERNATIONAL MARITIME ORGANIZATION 4 ALBERT EMBANKMENT

LONDON SE1 7SR

Telephone: 020 7735 7611 Fax: 020 7587 3210



Ref. T2-OSS/1.4 MSC.1/Circ.1307 9 June 2009

GUIDANCE ON THE SURVEY AND CERTIFICATION OF COMPLIANCE OF SHIPS WITH THE REQUIREMENT TO TRANSMIT LRIT INFORMATION

- The Maritime Safety Committee (the Committee), at its eighty-sixth session (27 May to 5 June 2009), considered a number of issues which have arisen in relation to the survey and certification of ships following the issue of MSC.1/Circ.1296 on Guidance on the survey and certification of compliance of ships with the requirement to transmit LRIT information, and approved the Guidance on the survey and certification of compliance of ships with the requirement to transmit LRIT information (the Guidance) as set out in the annex.
- The Guidance outlines a number of alternative options for documenting compliance of the shipborne equipment with the requirements of SOLAS regulations V/19-1.6 and V/19-1.7 and the related provisions of the Revised performance standards and functional requirements for the long-range identification and tracking of ships (Revised performance standards) adopted by resolution MSC.263(84) and sets out the approach to be taken when surveying and certifying the compliance of ships which are required to transmit LRIT information with the aforesaid obligation. The Guidance should be read together with SOLAS regulation V/19-1 and the Revised performance standards.
- 3 The Committee also agreed to keep the Guidance under review and amend it as and when the circumstances so warrant.
- The Committee also decided that Conformance test reports issued prior to 15 December 2008 pursuant to the provisions of MSC.1/Circ.1257 and Conformance test reports issued prior to 1 July 2009 pursuant to the provisions of MSC.1/Circ.1296 should be accepted, subject to the conditions specified in paragraphs 7.2 and 7.3 of the annex to this circular in relation to the validity of Conformance test reports, as providing evidence of compliance equal to those specified in the annex to this circular until they are replaced. The Committee further agreed that such Conformance test reports should be replaced by Conformance test reports issued pursuant to the provisions of this circular when they are re-issued or updated on or after 1 July 2009.
- SOLAS Contracting Governments are invited to bring the present circular and its annex to the attention of recognized organizations which they have authorized to act on their behalf and to provide to such recognized organizations any necessary further guidance and instruction so as to ensure that the objectives of this circular are achieved.
- 6 SOLAS Contracting Governments are also invited to bring the present circular and the salient parts of its annex to the attention of companies operating ships entitled to fly their flag which are required to transmit LRIT information and to provide to such companies any necessary further guidance and instruction so as to ensure that the objectives of this circular are achieved.

- SOLAS Contracting Governments should communicate to the Organization as soon as possible the names and contact details of the Application Service Providers they have either recognized within the framework of the Revised performance standards or they have authorized to conduct conformance testing as set out in the attached Guidance, together with any conditions attached to such recognitions or authorizations and update the information as and when changes occur.
- 8 SOLAS Contracting Governments, international organizations and non-governmental organizations with consultative status are also invited to bring to the attention of the Committee, at the earliest opportunity, the results of the experience gained from the use of the Guidance for consideration of action to be taken.
- 9 This circular revokes MSC.1/Circ.1296 and any reference to MSC.1/Circ.1296 should be read as reference to the present circular.

ANNEX

GUIDANCE ON THE SURVEY AND CERTIFICATION OF COMPLIANCE OF SHIPS WITH THE REQUIREMENT TO TRANSMIT LRIT INFORMATION

1 Introduction

- 1.1 This note provides guidance to Contracting Governments in relation to the survey and certification of the compliance of ships, high-speed craft and mobile offshore drilling units entitled to fly their flag with the obligation to transmit LRIT information.
- 1.2 In addition, this note provides salient information which would enable companies operating ships, owners and operators of high-speed craft and owners and operators of mobile offshore drilling units which are required to comply with the obligation to transmit LRIT information to ensure the survey and certification of their compliance in a timely manner.
- 1.3 In relation to mobile offshore drilling units, the provisions of this note apply subject to the modifications set out in section 11.

2 Related documents

- 2.1 The provisions relating to the survey and certification of compliance of ships with the obligation to transmit LRIT information are set out in or governed by:
 - .1 Regulation V/19-1 on long-range identification and tracking of ships;
 - .2 Revised performance standards and functional requirements for the long-range identification and tracking of ships adopted by resolution MSC.263(84) (the Revised performance standards);
 - .3 Resolution A.694(17) on Recommendations on general requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids;
 - .4 Resolution A.813(19) on General requirements for electromagnetic compatibility of all electrical and electronic ship's equipment;
 - .5 Resolution MSC.216(82) on Adoption of amendments to the International Convention for the Safety of Life at Sea, 1974, as amended, which sets out in annex 1 amendments (amendments 50 to 52) inserting in the Record of Equipment for the Passenger Ship Safety Certificate (Form P), the Record of Equipment for the Cargo Ship Safety Equipment Certificate (Form E) and the Record of Equipment for the Cargo Ship Safety Certificate (Form C) an entry to indicate compliance with Long-range identification and tracking systems;
 - .6 Resolution MSC.221(82) on Adoption of amendments to the International Code of Safety for High-Speed Craft (1994 HSC Code) which sets out in the annex an amendment (amendment 9) inserting in the Record of Equipment for High-Speed Craft Safety Certificate an entry to indicate compliance with Long-range identification and tracking systems;

- .7 Resolution MSC.222(82) on Adoption of amendments to the International Code of Safety for High-Speed Craft, 2000, which sets out in the annex an amendment (amendment 148) inserting in the Record of Equipment for High-Speed Craft Safety Certificate an entry to indicate compliance with Long-range identification and tracking systems; and
- .8 Resolution MSC.227(82) on Adoption of amendments to the Protocol of 1988 relating to the International Convention for the Safety of Life at Sea, 1974, which sets out in the annex amendments (amendments 1 to 3) inserting in the Record of Equipment for the Passenger Ship Safety Certificate (Form P), the Record of Equipment for the Cargo Ship Safety Equipment Certificate (Form E) and the Record of Equipment for the Cargo Ship Safety Certificate (Form C) an entry to indicate compliance with Long-range identification and tracking systems.

3 Definitions

- 3.1 Unless indicated otherwise for the purposes of this note:
 - .1 Authorized testing ASP means an Application Service Provider, other than a Recognized ASP, which has been authorized by the Administration to conduct conformance tests in accordance with this note and for which related information has been communicated to the Organization in accordance with the provisions of paragraph 6.2;
 - .2 Certificate means the Passenger Ship Safety Certificate, Cargo Ship Safety Equipment Certificate and Cargo Ship Safety Certificate issued under the provisions of the Convention or the Protocol and High-Speed Craft Safety Certificate issued under the provisions of the International Code of Safety for High-Speed Craft or the International Code of Safety for High-Speed Craft, 2000;
 - .3 *Chapter* means a chapter of the Convention;
 - .4 Contracting Government means a Contracting Government to the Convention;
 - .5 *Convention* means the International Convention for the Safety of Life at Sea, 1974, as amended;
 - .6 *Protocol* means the Protocol of 1988 relating to the International Convention for the Safety of Life at Sea, 1974, as amended;
 - .7 Radio related certificate means the Passenger Ship Safety Certificate, Cargo Ship Safety Radio Certificate and Cargo Ship Safety Certificate issued under the provisions of the Convention or the Protocol and High-Speed Craft Safety Certificate issued under the provisions of the International Code of Safety for High-Speed Craft or the International Code of Safety for High-Speed Craft, 2000;
 - .8 Record of Equipment means the Record of Equipment for the Passenger Ship Safety Certificate (Form P), the Record of Equipment for the Cargo Ship Safety Equipment Certificate (Form E) and the Record of Equipment for the Cargo Ship Safety Certificate (Form C) issued under the provisions of the Convention or the

Protocol and the Record of Equipment for High-Speed Craft Safety Certificate issued under the provisions of the International Code of Safety for High-Speed Craft or the International Code of Safety for High-Speed Craft, 2000;

- .9 Recognized ASP means an Application Service Provider which has been recognized by the Contracting Government concerned pursuant to the provisions of paragraphs 5.1.1 and 5.1.2 of the Revised performance standards and for which related information has been communicated to the Organization in accordance with the provisions of paragraph 5.2 of the Revised performance standards;
- .10 Regulation means a regulation of the Convention (or of the Convention as modified by the Protocol, as in force between Contracting Governments which are also parties to the Protocol); and
- .11 *Ship* refers to ships, high-speed craft and mobile offshore drilling units which are required to comply with the provisions of regulation V/19-1.
- 3.2 Terms used in this note not otherwise defined have the meaning assigned to them in chapters I, IV and V or in the Revised performance standards.

4 Shipborne equipment to be of a type approved by the Administration

- 4.1 Regulation V/19-1.6 specifies that the shipboard equipment to be used to transmit LRIT information (shipborne equipment) shall be of a type approved by the Administration.
- 4.2 Compliance of the shipborne equipment with the requirements of regulations V/19-1.6 and V/19-1.7 and of section 4 of the Revised performance standards should be demonstrated by the equipment being:
 - .1 of a type approved by the Administration in accordance with the provisions of regulation V/19-1; or
 - of a type approved by the Administration in accordance with the provisions of regulation IV/14 and satisfactorily completing a conformance test in accordance with the procedures and provisions set out in appendix 1; or
 - .3 certified by the Administration as meeting the requirements of IEC 60945 (2002-08) and IEC 60945 Corr.1 (2008-04) on Maritime navigation and radiocommunication equipment and systems General requirements Methods of testing and required test results and satisfactorily completing a conformance test in accordance with the procedures and provisions set out in appendix 1; or
 - .4 certified by the Administration as meeting the requirements of the provisions of regulation XI-2/6; and the provisions of either resolution MSC.136(76) on Performance standards for a ship security alert system or of resolution MSC.147(77) on Adoption of the Revised performance standards for a ship security alert system; and the provisions of section 4 of the Revised performance standards; and satisfactorily completing a conformance test in accordance with the procedures and provisions set out in appendix 1.

5 Conformance test

- 5.1 The conformance test should be conducted either by a recognized ASP or by an authorized testing ASP.
- 5.2 Subject to the provisions of paragraphs 5.2.1 and 5.2.2, the conformance test should be conducted using a communication system which provides coverage in all sea areas for which the ship is certified to operate.
- 5.2.1 Subject to the provisions of paragraphs 5.2 and 5.2.2, the results of the conformance test are not in any way prejudiced by the location or whereabouts of the ship when the conformance test is conducted.
- 5.2.2 Notwithstanding the provisions of paragraph 5.2, for ships constructed before 31 December 2008 and certified to operate in sea areas A1, A2, A3 and A4, the conformance test for sea area A4 may be conducted separately taking into account the provisions of regulation V/19-1.4.1.3.
- 5.3 For ships constructed on or after 31 December 2008, the conformance test should be:
 - .1 conducted after the completion of the initial survey of the radio installation, provided such survey has indicated that, as far as the radio installation is concerned, the ship meets the related requirements for the issue of a radio related certificate; and
 - .2 satisfactorily completed prior to the issue of a certificate as a result of satisfactory completion of the related initial survey.
- 5.4 For ships constructed before 31 December 2008, the conformance test should be:
 - .1 conducted prior to the date on which a ship would need to demonstrate compliance with the requirements of regulation V/19-1; and
 - .2 satisfactorily completed prior to the amendment of the record of equipment to document compliance with the requirements relating to Long-range identification and tracking system or prior to the issue of a certificate, in case the ship in question is undergoing a related renewal survey.
- Administrations should establish, for ships constructed before 31 December 2008, dates, ahead of the dates stipulated in regulation V/19-1.4.1 for the phased in implementation of the requirement to transmit LRIT information, by which the conformance testing should be carried out with a view to ensuring the timely compliance of the ships entitled to fly their flag with the requirements of regulation V/19-1.
- 5.6 Notwithstanding the provisions of regulation V/19-1.4.1, ships the construction of which has commenced before 31 December 2008 but has been, or is to be, completed on or after 31 December 2008 should comply with the obligation to transmit LRIT information before they are put into service. For such ships the conformance test should be conducted and satisfactorily completed as specified in paragraph 5.3.

6 Communication of information in relation to Application Service Providers

- 6.1 Unless the Administration concerned informs the Organization otherwise, recognized ASPs should be automatically considered as being authorized by the Administration concerned to conduct conformance tests in accordance with the provisions of this note.
- 6.2 Administrations should provide to the Organization a list with the names and contact details of the authorized testing ASPs¹ together with any associated conditions of authorization and thereafter should, without undue delay, update the Organization as changes occur.
- 6.3 The Organization should communicate the information it receives pursuant to the provisions of paragraph 5.2 of the Revised performance standards and the information it receives pursuant to paragraphs 6.1 and 6.2 to all Contracting Governments, international organizations and non-governmental organizations with consultative status.

7 Conformance test report

- 7.1 A Conformance test report should be issued, on satisfactory completion of a conformance test, by the Administration or the ASP who conducted the test acting on behalf of the Administration and should be in accordance with the model set out in appendix 2.
- 7.2 The Conformance test report should be considered as no longer remaining valid if:
 - .1 there is a change in the shipborne equipment used to transmit LRIT information;
 - .2 the ship is transferred to the flag of another Contracting Government, subject to the provisions of paragraph 10.1;
 - .3 the ASP which has issued the Conformance test report has notified the Administration or the Recognized Organization which, acting on behalf of the Administration, has issued the certificate is no longer in a position to attest the validity of the report; and
 - .4 the Administration has withdrawn the recognition or authorization of the ASP which conducted the conformance test. However, in such cases the Administration concerned may decide that the Conformance test report, issued either prior to the date of withdrawal of such recognition or authorization or prior to a date determined by the Administration, remain valid subject to these being considered as being the responsibility of Administration.
- 7.3 Notwithstanding the provisions of regulations I/11 and V/16, the Conformance test report should also be considered as no longer remaining valid when the shipborne equipment used to transmit LRIT information becomes unserviceable.
- 7.4 Administrations choosing to use the services of authorized testing ASPs should ensure that the recognized ASP(s) are able to integrate into the LRIT system the ships to which an authorized testing ASP has issued Conformance test reports.

A model letter for communicating the relevant information to the Organization is provided in MSC.1/Circ.1298 on Guidance on the implementation of the LRIT system.

8 Initial certification of compliance on or after 31 December 2008

- 8.1 The conformance test has been designed also to demonstrate compliance of the shipborne equipment with the functional requirements of V/19-1.5 and section 4 of the Revised performance standards.
- 8.2 For ships constructed on or after 31 December 2008, prior to the issue of a certificate, the shipborne equipment should satisfactorily complete a conformance test in accordance with the procedures and provisions set out in appendix 1 within the periods specified in paragraph 5.3.
- 8.3 Subject to the provisions of paragraph 5.6, for ships constructed before 31 December 2008, prior to the amendment of the record of equipment associated with a valid certificate or the renewal of a certificate in case it is also due, the shipborne equipment should satisfactorily complete a conformance test in accordance with the procedures and provisions set out in appendix 1 within the period specified in paragraph 5.4 and the survey of the radio installation has indicated that, as far as the radio installation is concerned, the ship meets the related requirements for the renewal or endorsement of the radio related certificate.
- 8.4 Notwithstanding paragraphs 8.2 and 8.3, shipborne equipment which has already satisfactorily completed a conformance test for the purposes of demonstrating compliance with the requirement to be of a type approved by the Administration (refer to paragraphs 4.2.2 to 4.2.4) are not required to undergo any further conformance test (i.e. the conformance test is required to be carried out only once), provided such tests have been conducted within the periods specified in paragraphs 5.3 or 5.4, as the case may be, taking into account the provisions of paragraph 5.6.
- 8.5 Notwithstanding paragraphs 8.2 and 8.3, shipborne equipment of a type approved by the Administration (refer to paragraph 4.2.1) should undergo conformance test within the periods specified in paragraphs 5.3 or 5.4, as the case may be, taking into account the provisions of paragraph 5.6 (i.e. shipborne equipment of a type approved by the Administration are required to undergo conformance testing).
- 8.6 In relation to cargo ships, the provision of the Convention and of the Protocol stipulated as a results of the amendments adopted by resolutions MSC.216(82) and MSC.227(82) that compliance with the obligation to transmit LRIT information should be attested by completing the entry provided in section 3 of the Record of Equipment for the Cargo Ship Safety Equipment Certificate (Form E) or section 5 of the Record of Equipment for the Cargo Ship Safety Certificate (Form C) and thus the relevant certificates are the Cargo Ship Safety Equipment Certificate and Cargo Ship Safety Certificate.
- 8.6.1 As a result, any amendment of the Cargo Ship Safety Radio Certificate or of the Record of Equipment for the Cargo Ship Safety Radio Certificate (Form R) or any amendment of the Cargo Ship Safety Certificate or of the Record of Equipment for the Cargo Ship Safety Certificate (Form C), other than the one specified in paragraph 8.6 in relation to Long-range identification and tracking systems, does not attest compliance of the ship concerned with the obligation to transmit LRIT information.

9 Renewal and annual survey after the initial certification of compliance

9.1 During any renewal or annual survey following the initial certification of compliance of a ship with the requirements of regulation V/19-1, the related certificate should be issued or endorsed, as the case may be, provided the Conformance test report is still valid taking into account the provisions of paragraphs 7.2 and 7.3.

10 Transfer of flag

- 10.1 When a ship is transferred to the flag of another Contracting Government, the Conformance test report should be considered as remaining valid if the ASP which conducted the conformance test is also either a recognized ASP or an authorized testing ASP by the Contracting Government to whose flag the ship is transferred.
- 10.1.1 In such cases the ASP concerned should reissue the Conformance test report on behalf of the Administration concerned henceforth indicating the new particulars of the ship but without altering the date of completion of the conformance test.
- 10.2 In cases where the Conformance test report is deemed to be no longer valid, due to the transfer of the flag to another Contracting Government, a new conformance test should be conducted, prior to the issue of a certificate, by either a recognized ASP or an authorized testing ASP acting on behalf of the Administration concerned.

11 Specific provisions in relation to mobile offshore drilling units

- 11.1 Mobile offshore drilling units may be required by the Contracting Government whose flag they may be entitled to fly to comply with the provisions of the:
 - .1 national codes or requirements for the construction and equipment of mobile offshore drilling units, in case they were constructed prior 31 December 1981; or
 - .2 Code for the construction and equipment of mobile offshore drilling units adopted by resolution A.414(XI) (the 1979 MODU Code); or
 - .3 Code for the construction and equipment of mobile offshore drilling units, 1989 adopted by resolution A.649(16) (the 1989 MODU Code) in case their keel was laid or was at a similar state of construction on or after 1 May 1991.
- 11.2 The provisions of this note should apply *mutatis mutandis* to mobile offshore drilling units subject to any reference to certificate and radio related certificate in this note being read as referring:
 - .1 for mobile offshore drilling units constructed on or after 31 December 2008, to the Mobile Offshore Drilling Unit Safety Certificate, 1989 issued pursuant to the provisions of the 1989 MODU Code; and
 - .2 for mobile offshore drilling units constructed before 31 December 2008, to either the Mobile Offshore Drilling Unit Safety Certificate issued pursuant to the provisions of the 1979 MODU Code or the Mobile Offshore Drilling Unit Safety Certificate, 1989, issued pursuant to the provisions of the 1989 MODU Code or a certificate or document issued under a national code or requirements in case of units constructed prior to 31 December 1981, as the case may be.

- 11.3 As the Mobile Offshore Drilling Unit Safety Certificate and the Mobile Offshore Drilling Unit Safety Certificate, 1989 are not accompanied by a record of equipment, mobile offshore drilling units should be considered as meeting the requirements when:
 - .1 the provisions of sections 4, 5 and 8 are met;
 - .2 there is on board a valid certificate or document issued under a national code or requirements in case of units constructed prior to 31 December 1981, or a valid Mobile Offshore Drilling Unit Safety Certificate or a valid Mobile Offshore Drilling Unit Safety Certificate, 1989; and
 - .3 there is on board a valid Conformance test report.

12 Cargo ships of gross tonnage of 300 and above but of less than 500

- 12.1 Cargo ships whose gross tonnage is 300 and above but of less than 500 are not required to hold a valid Cargo Ship Safety Equipment Certificate and thus there is no Record of Equipment for the Cargo Ship Safety Equipment Certificate (Form E) which could be endorsed so as to attest their compliance with the obligation to transmit LRIT information.
- 12.2 The compliance of the aforesaid cargo ships with the obligation to transmit LRIT information should be documented:
 - .1 in case they are issued with a Cargo Ship Safety Certificate, by completing the relevant entry in section 5 of the Record of Equipment for the Cargo Ship Safety Certificate (Form C) and having on board a valid Conformance test report; or
 - .2 in case they are not issued with a Cargo Ship Safety Certificate, by having on board a valid Conformance test report.
- 12.3 Neither the Cargo Ship Safety Radio Certificate nor the Record of Equipment for the Cargo Ship Safety Radio Certificate (Form R) should be amended in any way to document their compliance with the obligation to transmit LRIT information as any such amendment does not attest compliance of the ship concerned with the obligation to transmit LRIT information.

13 Units and ships addressed by MSC.1/Circ.1295

- 13.1 The provisions of this note should apply *mutatis mutandis* to floating production, storage and offloading units (FPSOs) and floating storage units (FSUs) propelled by mechanical means; offshore supply vessels; special purposes ships and A.494(XII)-ships (collectively referred to henceforth as "1295 units and ships") referred to in MSC.1/Circ.1295 on Guidance in relation to certain types of ships which are required to transmit LRIT information, on exemptions and equivalents and certain operational matters (the Guidance).
- 13.2 In the cases where the Guidance states that the 1295 units and ships transmit LRIT information in accordance with the provisions of regulation V/19-1 as from 31 December 2009, the conformance test should be satisfactorily completed and a Conformance test report should be issued no later than 31 December 2009.

14 First survey of the radio installation

- 14.1 Regulations V/19-1.4.1.2 and V/19-1.4.1.3 refers to the first survey of the radio installation after 31 December 2008 and after 1 July 2009, respectively.
- 14.2 Unless the Administration concerned has, taking into account the provisions of MSC.1/Circ.1290 on Unified interpretation of the term "first survey" referred to in SOLAS regulations, specifies otherwise, the first survey of the radio installation is for ships entitled to fly the flag of:
 - .1 Contracting Governments, is the first periodical survey of the radio installation in accordance with the provisions of regulation I/9 of the Convention; and
 - .2 Contracting Governments which are also State Parties to the Protocol, is the first renewal survey or the first periodical survey of the radio installation, which ever of the two becomes due first, in accordance with the provision of regulation I/9 of the Convention as modified by the Protocol (i.e. in accordance with regulations I/9(a)(ii) and I/9(a)(iii) respectively).
- 14.3 For the purposes of implementation of the provisions of regulations V/19-1.4.1.2 and V/19-1.4.1.3, the date of the "first survey" specified under paragraph 14.2 is not altered as a result of either surveys conducted in relation to the transfer of the flag of the ships or as a consequence of any scheduled or unscheduled inspections or surveys or any additional or occasional surveys required by the Administration.

15 Difficulties in conducting conformance testing

- 15.1 Those who have engaged in conformance testing have advised that they have encountered difficulties when attempting to conduct conformance testing in certain parts of the world or in certain situations.
- 15.2 Administrations are advised that in such circumstances the inability to complete the conformance testing should not be considered as making the ship unseaworthy or as a reason for delaying the ship in port until the conformance testing is satisfactorily completed, provided suitable arrangements are made, to the satisfaction of the Administration concerned as soon as is practically possible.
- 15.3 Administrations are urged to report to the Organization the areas where, and/or the circumstances under which, conformance testing cannot be conducted as these have an impact on the functioning of the LRIT system.

Appendix 1

Conformance Test

1 Shipborne equipment requirements testing matrix

1.1 The table set out below has been derived from an analysis of the salient provisions of regulation V/19-1, the Revised Performance standards and the Technical specifications for communications within the LRIT system and specifies for each regulatory requirement the conformance test to be conducted.

Table 1
Shipborne equipment regulatory requirements testing matrix

Column heading	Explanation	
Ref.	Regulatory reference	
Regulatory text	The text of the related provision with minor paraphrasing and <i>emphasis</i> (showing in italics)	
CTN	Conformance test number	

Symbols	Explanation	
R	Paragraph of the related provisions of regulation V/19-1	
PS	Paragraph of the related provision of the Revised Performance standards	
TS	Paragraph of the related provision of the Technical specifications for communications within the LRIT system (refer to MSC.1/Circ.1259 on Revised interim technical specifications for the LRIT system)	
EL	Shipborne equipment lifecycle, i.e. requirements not explicitly defined in the regulatory text but critical to the successful operation of the LRIT system	

Ref.	Regulatory text	CTN		
R:4.1.1 to R:4.1.3	Ships shall be fitted with a system to automatically transmit the information specified in regulation V/19-1.5 as follows: ships constructed before 31 December 2008 and <i>certified for operations</i> in sea areas A1 to A4			
PS:4.3	The equipment should transmit the LRIT information using a communication system which <i>provides coverage</i> where the ship operates			
R:5	Ships shall <u>automatically</u> transmit the following long-range identification and tracking information			
R:5.1	The <u>identity</u> of the ship			
PS:4.2 (Table 1)	The equipment should transmit the shipborne equipment <u>identifier</u>	3		

Ref.	Regulatory text	
R:5.2	The <i>position</i> of the ship (latitude and longitude)	
PS:4.2 (Table 1)	Position – the equipment should be capable of transmitting the GNSS position (latitude and longitude), based upon <u>WGS84</u> datum, without human interaction on board the ship	
R:5.3	The <u>date and time of the position</u> provided	5a
PS:4.2(Table 1)	Date and time – the equipment should be capable of transmitting the date and time associated with the GNSS position with each transmission of LRIT information, and the time should be in <u>UTC</u>	5b
TS:2.2.2.6	The parameters provided by the equipment include: the latitude; longitude; <i>Time Stamp when the position was generated</i>	5c
TS: Table 2	The parameters provided by the equipment include: the latitude; longitude; <u>Time Stamp when the position was generated</u>	5c
R:6	Systems and equipment used to meet the requirements of regulation V/19-1 shall conform to the performance standards and functional requirements not inferior to those adopted by the Organization. Any shipboard equipment should be of a <i>type approved</i> by the Administration	
R:7	Systems and equipments used to meet the requirements of this regulation shall be capable of being <u>switched off on board or be capable of ceasing the distribution</u>	
PS:4.1	In addition to the general requirements contained in resolution A.694(17) on Recommendations on general requirements for shipborne radio equipment for part of the global maritime distress and safety system (GMDSS)	
PS:4.1.5	Be tested for electromagnetic compatibility taking into account the recommendations developed by the Organization (refer to Assembly resolution A.813(19) on General requirements for electromagnetic compatibility of all electrical and electronic ship's equipment)	
PS:4.2 (Table 1)		
PS:4.1.2	Be capable of <u>being configured remotely</u> to transmit LRIT information at variable intervals	
TS:2.2.3.12	The "Request Type" parameter indicates whether the request is for either a one-time poll, <u>polls at a specified rate</u>	
PS:4.1.1	Be capable of automatically and without human intervention on board the ship transmit the ship's LRIT information at <u>6-hour</u> <u>intervals</u> to an LRIT Data Centre	

Ref.	Regulatory text	CTN
PS:4.4.1	When a ship is undergoing repairs in dry-dock or in port or is laid up for a long period, the master or the Administration may reduce the frequency of the transmission of LRIT information to <u>one report</u> <u>every 24-hour period</u>	
PS:13.1	LRIT information should be available to an LRIT Data User within 15 min of the time it is transmitted by the ship. In lieu for the purposes of testing to an ASP	
PS:4.1.3	Be capable of <u>transmitting LRIT information following receipt of polling commands</u>	10
PS:4.2 (Table 1)	On-demand position reports – the equipment should be capable of <u>responding to a request to transmit LRIT information</u> on demand without human interaction on board the ship, irrespective of where the ship is located	
PS:13.2	On-demand LRIT information reports should be provided to an LRIT Data User within 30 min of the time the LRIT Data User requested the information. In lieu for the purposes of testing to an ASP	
PS:4.1.4	Interface <u>directly</u> to the shipborne global navigation satellite system equipment, or have <u>internal</u> positioning capability	
PS:4.1.5	Be <u>supplied</u> with energy from the main and emergency source of <u>electrical power</u>	
PS:4.4	The equipment should be set to automatically transmit the ship's LRIT information at 6-hour intervals to the LRIT Data Centre identified by the Administration	
PS:5.3.1	An ASP function should, <i>inter alia</i> , provide a communication protocol interface between the <u>Communication Service Providers</u> and the <u>LRIT Data Centre</u>	
PS:5.3.1	An ASP function should, <i>inter alia</i> , ensure that LRIT information is <i>collected</i> , <i>stored and routed in a reliable and secure manner</i>	13

2 Shipborne equipment test requirements, procedures and acceptance criteria matrix

2.1 The table set out below specifies the shipborne equipment test requirements, the related procedures and the corresponding acceptance criteria for each conformance test and provides a brief citation of the related regulatory provisions.

Table 2
Shipborne equipment test requirements, procedures and acceptance criteria

	Test requirement		
CTN	Procedure	Acceptance criteria	
EL1	The equipment is activated into the ASP system ASP issuance of an activation command (Note: this function is critical during the transfer of flag process)	CSP acknowledgement received	
1	Establish the sea areas the ship is certified to operate from the Cargo Ship Safety Radio Certificate, Cargo Ship Safety Certificate, Passenger Ship Safety Certificate or equivalent Administrative	Confirmed by shipowner declaration on testing registration form prior to testing including certificate type and reference number	
2	The equipment automatically transmits an LRIT information Evaluative	Validated in conjunction with CTN 9	
3	The equipment identity is present in the received LRIT information Evaluative	Validated in conjunction with CTN 9	
4a	The latitude and longitude is present in the received LRIT information Evaluative	Validated in conjunction with CTN 9	
4b	The equipment GNSS position information is based upon the WGS84 datum Evaluative	Assumed compliant in accordance with standard IMO guidelines and regulations	
5a	The date and time is present in the received LRIT information Evaluative	Validated in conjunction with CTN 9	
5b	The equipment date and time information is in UTC Evaluative	Confirmed by the ASP recognized by the Administration or approved to conduct conformance testing based upon the confirmed inclusion of MEM code 11 (in the case of Inmarsat-C) and in the case of alternate hardware the compliance of the received message structure with the equipment manufacturers published standard for a message containing the generated Date and Time stamp	

	Test requirement		
CTN	Procedure	Acceptance criteria	
5c	The equipment transmits a Time Stamp relative to when the position was generated (not the CSP receipt time) Evaluative	Confirmed by the ASP recognized by the Administration or approved to conduct conformance testing based upon the confirmed inclusion of MEM code 11 (in the case of Inmarsat-C) and in the case of alternate hardware the compliance of the received message structure with the equipment manufacturers published standard for a message containing the generated Date and Time stamp	
6	The equipment is of a type approved by the Administration Administrative	Forms the subject of this test specification which will be if the results are satisfactory and a Statement of conformity is issued by the ASP conducting the test (and the subsequent issuance of a Certificate of compliance by the Administration) CSP acknowledgement received and nil LRIT information are transmitted within 90 min	
7	The equipment is switched off on board or ceases the distribution of LRIT information ASP outbound Program-Stop command		
8	The equipment is compliant with provisions of resolution A.694(17) The equipment has been tested for electromagnetic compatibility (refer to resolution A.813(19)) Administrative	Confirmed by manufacturer or validation of technical specification	
9a	The equipment is re-configured to automatically transmit LRIT information at 15-min intervals ASP issuance of Start-15 min reporting command		
9b	The equipment is re-configured to automatically transmit LRIT information at 60-min intervals demonstrating that a change in transmitting interval has been successfully achieved ASP issuance of Start-60 min reporting command	Confirmed subsequent to receipt of 12 consecutive 60-min automatic transmissions of LRIT information. Refer to paragraph 3.2 for information on acceptable tolerances.	
9с	The equipment automatically transmits a LRIT information at 6-h intervals Administrative	Confirmed by ASP or manufacturer or validation of the technical specification	
9d	The equipment is re-configured to automatically transmit LRIT information at 24 h intervals Administrative	Confirmed by ASP or manufacturer or validation of technical specification	

	Test requirement		
CTN	Procedure	Acceptance criteria	
9e	LRIT information is available within 15 min of the time it is transmitted by the ship Comparison of the UTC time stamp when the LRIT information was generated against the UTC time stamp when the information was received by the ASP	Validated in conjunction with CTN 9a and 9b	
10	The equipment transmits LRIT information (subsequent to the ASP issuing a poll command) and the LRIT information is available within 30 min of the time the ASP has requested the information ASP issuance of a Send-Request for Position command	a poll transmission of LRIT information within 30 min	
11	The equipment interfaces directly to the shipborne global navigation satellite system equipment, or has internal positioning capability Administrative	e validation of technical specification if	
12	The equipment is supplied with energy from the main and emergency source of electrical power (this provision does not apply to Inmarsat-C) Administrative	Confirmed by shipowner declaration on testing registration form prior to testing	
13	The equipment automatically transmits LRIT information via the CSP to the ASP in a reliable and secure manner Administrative		
EL2	The equipment is de-activated and released from the LRIT system ASP issuance of deactivation command or Administrative (Note: this function is critical during the transfer of flag process)	CSP acknowledgement or CSP declaration received	

3 Shipborne equipment performance acceptance criteria and tolerances

- 3.1 When considering the performance of the LRIT system and the implications of the performance shipborne equipment the following issues need to be taken into account:
 - .1 The overall LRIT system utilizes a sophisticated array of hardware components, software systems and satellite/terrestrial communications networks, which include without limitation:
 - .1 Shipborne equipment;
 - .2 Communications satellites;
 - .3 Land Earth Stations;
 - .4 Terrestrial communication networks;
 - .5 CSP routing/switching systems; and
 - .6 ASP systems;
 - .2 In common with all real world systems the overall LRIT system may suffer from data losses and data latency, i.e. non-delivery/late-delivery of messages;
 - .3 Data losses in the system as a whole are the result of a complex interaction of each of its components. The cause of losses can be as technical as a packet collision in the space segment or as practical as an equipment blockage caused by a ship funnel or crane, in port, etc.;
 - .4 In order to specify the conditions of the conformance testing scheme it should be assumed that the average loss rate of messages sent to and from the existing potential equipment is 4% in each direction. Thus, the loss on a command and response pair such as Data Network Identifier (DNID) download and its acknowledgement is 8%, and the loss on an automatic LRIT information transmission is 4%;
 - .5 Data latency in the system arises from the store-and-forward nature of the communication networks used. Each part of the communication chain, first stores a message and then forwards it to the next link which produces a robust system but one which has intrinsically variable latency;
 - .6 In order to specify the conditions of conformance testing scheme it should be assumed that 1 h latency is within the normal operation of the system;
 - .7 The design of a test for the conformance testing scheme allows for the real world performance of the overall LRIT system. Hence, it should be a design objective of the test that terminals are not incorrectly failed and thus cause shipowners to needlessly replace equipment;
 - .8 Consider a poll request, it should be assumed that 8% of poll request/responses are lost, therefore, a fair test requires that the poll request is repeated in a sequence of attempts;

Table 3
Poll attempts and expectations

	Attempt	P(Success)	P(Failure)	Expectation	Cumulative P(Success)	Cumulative Expectation
	1	0.92000	0.08000	0.92000	0.92000	0.92000
	2	0.07360	0.00640	0.14720	0.99360	1.06720
ĺ	3	0.00589	0.00051	0.01766	0.99949	1.08486

Notes:

Column heading Explanation

Attempt Number of attempts

P(Success) Probability of success on that attempt P(Failure) Probability of failure on that attempt

Expectation Contribution to the expected number of attempts

Cumulative P Cumulative probability of success

Cumulative Expectation Cumulative expectation of number of attempts required for a successful download

- .9 Table 3 demonstrates that if the system retries the poll three times there is a 1 in 1,000 chance of wrongly failing the equipment due to statistical variation. The cumulative expectation shows that the cost of testing apparent non-compliant terminals is only increased by 8% compared to a regime which had only a single attempt;
- .10 Consequently, it is recommended that each command is retried a maximum of three times, unless statistical variation can be excluded because of a network response, e.g., if the ship is in port and the equipment confirmed by the communication system as logged-out;
- .11 The ASP recognized by the Administration or approved to conduct conformance testing should properly account for different network regions. For example, the Inmarsat-C network has four ocean regions and the test provider must ensure that they have addressed the region containing the equipment;
- .12 This calculation assumes uncorrelated failures within the network which it is assumed to be true where there is a reasonable interval between attempts. To increase the likelihood that this assumption is correct it is recommended that the system retries are separated by at least 15 min; and
- A similar analysis may be performed for receipt of automatic transmission of LRIT information. The more transmissions of LRIT information that are received the greater confidence there may be that the equipment is conformant while not wrongly failing units. To achieve a 1 in 1,000 confidence of wrongly failing units, it is recommended that 40 out of 48 transmissions of LRIT information are received with a transmitting interval of 15 min, and 10 out of 12 transmission of LRIT information with a transmission interval of 1 h.
- 3.2 The table set out below specifies for each conformance test the related acceptance criteria and the tolerances or limits within which the functional performance of existing equipment should be before it is considered as being acceptable.

Table 4
Shipborne equipment performance acceptance criteria and tolerances

CTN	Acceptance criteria	Tolerances
EL1	CSP acknowledgement received	Maximum of 3 attempts separated by a minimum of 15 min
1	Confirmed by shipowner declaration on testing registration form prior to testing including certificate type and reference number	None
2	Validated in conjunction with CTN 9	None
3	Validated in conjunction with CTN 9	None
4a	Validated in conjunction with CTN 9	None
4b	Assumed compliant in accordance with standard IMO guidelines and regulations	None
5a	Validated in conjunction with CTN 9	None
5b	Confirmed by ASP recognized by the Administration or approved to conduct conformance testing based upon the confirmed inclusion of MEM code 11 (in the case of Inmarsat-C) and in the case of alternate hardware the compliance of the received message structure with the equipment manufacturers published standard for a message containing the generated Date and Time stamp	None
5c	Confirmed by ASP recognized by the Administration or approved to conduct conformance testing based upon the confirmed inclusion of MEM code 11 (in the case of Inmarsat-C) and in the case of alternate hardware the compliance of the received message structure with the equipment manufacturers published standard for a message containing the generated Date and Time stamp	None
6	Forms the subject of this test specification which will be if the results are satisfactory and a Statement of conformity is issued by the ASP conducting the test (and the subsequent issuance of a Certificate of compliance by the Administration)	None
7	CSP acknowledgement received and nil position reports received within 15 min	Maximum of 3 attempts separated by a minimum of 15 min
8	Confirmed by manufacturer or by validation of technical specification	None

CTN	Acceptance criteria	Tolerances
9a	Confirmed subsequent to receipt of 48 consecutive transmissions of LRIT information transmitted at 15-min intervals	3 attempts separated by a minimum of 15 min Acceptable results: a minimum of 40 out of 48 transmissions are received (>82% success rate)
9b	Confirmed subsequent to receipt of 12 consecutive transmissions of LRIT information transmitted at 60-min intervals	3 attempts separated by a minimum of 15 min Acceptable results: a minimum of 10 out of the 12 transmissions are received (>82% success rate)
9c	Confirmed by ASP or manufacturer or by validation of technical specification	None
9d	Confirmed by ASP or manufacturer of by validation of technical specification	None
9e	Validated in conjunction with CTN 9a and 9b	Satisfactory: a minimum of 50 out of 60 transmissions are received (>82% success rate)
10	Confirmed subsequent to receipt of 1 polled transmission of LRIT information within 30 min	3 attempts separated by a minimum of 15 min Satisfactory: a minimum 1 out of 1 transmissions are received (100% success rate)
11	Confirmed by ASP or manufacturer of by validation of technical specification if internal GPS, or if external GPS confirmed by shipowner declaration on testing registration form prior to testing	None
12	Confirmed by shipowner declaration on testing registration form prior to testing	None
13	Confirmed by the ASP recognized by the Administration or approved to conduct conformance testing based upon confirmation that all communication links from the equipment – satellite – CSP – ASP are direct and secure with no third party ASP involvement	None
EL2	CSP acknowledgement or CSP declaration received	3 attempts separated by a minimum of 15 min

4 Estimated duration of conformance testing

4.1 Based upon the equipment requirements testing matrix, the test requirements, the procedures, the acceptance criteria and the acceptable tolerances detailed in this annex, the table set out below provides information on the estimated duration of the conformance testing:

Table 5
Estimated duration of conformance testing

CTN	Tolerances	Maximum Duration
EL1	3 attempts separated by a minimum of 15 min	45 min
9a	3 attempts separated by a minimum of 15 min Acceptable results: a minimum of 40 out 48	45 min 720 min (12 h)
9b	3 attempts separated by a minimum of 15 min Acceptable results: a minimum of 10 out of 12	45 min 720 min (12 h)
10	3 attempts separated by a minimum of 15 min	45 min
7	3 attempts separated by a minimum of 15 min	45 min + wait 90 min
EL2	3 attempts separated by a minimum of 15 min	45 min
	Total	30 h

Appendix 2

Model of Conformance test report

Conformance test report

issued under the provisions of MSC.1/Circ.1307 on Guidance on the survey and certification of compliance of ships with the requirements to transmit LRIT information				
issued by				
on behalf of the Governm	ent of			
Name of ship	y:			
Port of registry	:			
Distinctive number or letters	:			
IMO Numbe	:			
Maritime Mobile Service Identity	7:			
Gross tonnage	× .			
Sea areas in which the ship is certified to operate	:			
Sea areas for which this report is valid	2.			
Application Service Provider conducting the tes	:			
LRIT information and specified below: .1 has been found to meet the require and V/19-1.7 and of the H	shipborne equipment designated to transmit uirement of the provision of regulations V/19-1.6 Revised performance standards and functional e identification and tracking of ships adopted by			
71 11	ed by the Administration in \square Yes \square No visions of regulation V/19-1;			
71 11	ed by the Administration in \square Yes \square No visions of regulation IV/14;			
requirements of IEC 60 Corr.1 (2008-04) or radiocommunication eq	e Administration as meeting the 9945 (2002-08) and IEC 60945 Maritime navigation and aipment and systems – General description of testing and required test			

results;

MSC.1/Circ.1307 ANNEX Page 22

requirements of of resolution MS a ship security a	ed by the Administration as meeting the the provisions of regulation XI-2/6; and SC.136(76) on Performance standards for alert system ⁴ /resolution MSC.147(77) on the Revised performance standards for a performance standards f
provisions set out in MS	mance testing in accordance with the procedures and SC.1/Circ.1307, and has shown that it can operate within eptance criteria stated in the aforesaid circular.
The conformance test wa	as satisfactorily completed on
e shipborne equipment use shipborne equipment ident	ed to transmit LRIT information (e.g., maker model, serial ifier):
(place of issue)	on(date of issue)
	requirements of of resolution MS a ship security a Adoption of the ship security aler has undergone confort provisions set out in MI the tolerances of the acc. The conformance test we shipborne equipment use shipborne equipment ident

Insert the sea areas specified in Radio related certificate (refer to paragraph 3.1.6 and to section 11 of this circular).

Refer to paragraphs 5.2 to 5.2.2. Insert the sea areas for which the conformance testing is valid. For example, if the sea areas indicated on the Radio related certificate are A1, A2, A3 and A4 and the conformance test has been conducted using a communication system which provides coverage only for sea areas A1, A2 and A3, insert A1, A2 and A3.

Indicate "Yes" against the option(s) which is/are applicable and "No" against the rest of the option(s).

Delete as appropriate.

⁵ Delete as appropriate.

Test results Side 1 av 2

Annex B

LRIT Conformance Test

Test results



Home Help Home Registrations

Registrations Manage Tests

Your Account

Tools

End user : westronic : UTC

Transceiver test results

This conformance test relates to ships certified for operations in sea areas A1 and A2, as defined in regulations IV/2.1.12 and IV/2.1.13 or in sea areas Al, A2 and A3, as defined in regulations IV/2.1.12, IV/2.1.13 and IV/2.1.14.

Ships certified for operations in sea areas A1, A2, A3 and A4 must comply with the provisions of above whilst they operate within sea areas A1, A2 and A3.

Click the DOWNLOAD button to see details in a spreadsheet.

DOWNLOAD

		Vessel det	ails	
		Vessel name		?
		IMO number		2
		Call sign		?
		MMSI		?
		Port of registry	Singapore	2
		Flag	Singapore	?
		Flag identifier		?
		Gross tonnage		?
	Last ra	adio survey date	2009-20-08	?
		Your reference	LRIT	?
		Transceiver (details	
	Pole S	tar test number	121530	?
		Test status	Test passed	?
	Pole Star te	st error number		2
	Test star	ted date & time	2010-10-18 10:29:06	?
	Test finis	hed date & time	2010-10-19 16:56:08	2
	Inmarsat C	mobile number		2
		ISN		2
	Transceive	er manufacturer	Sailor	2
	Tra	ansceiver model	TT-3000LRIT	2
		Serial number		?
LRIT test details				
Test stage number	Test stage description	Test started date & time	Test finished date & time	Pole Star test error number

Test results Side 2 av 2

?	?	?	3)	?	
1	Activate transceiver	2010-10-18 10:29:06		10-10-18 :34:07		
2	Poll for position report	2010-10-18 12:34:07		10-10-18 :35:52		
3	Report every 60 minutes	2010-10-18 14:35:52		10-10-19 :02:26		
4	Report every 15 minutes	2010-10-19 00:02:26		10-10-19 :49:18		
5	Stop reporting	2010-10-19 09:49:18		10-10-19 :51:16		
6	Deactivate transceiver	2010-10-19 11:51:16		10-10-19 :56:08		
	Self	certification re	quirer	nents		
		Sea a	areas	A1 + A2 + A3		?
	Sea	a area certificate	type	cargo ship saf	ety radio certificate	?
	Sea area	a certificate refe	rence	SH115950		7
is co	ipment is an Inmarsat C to mpliant with provisions of equipment has been teste compatibility (refer to	resolution A.694 d for electromag	1(17) netic	4		?
This ed	quipment is supplied with and an emergency sour			4		?
TI	nis equipment has an inter	nal GPS or conne externa		4		?
	quipment is an Inmarsat C quirement for it to be spec under the		oved	4		?
т	his is a GMDSS terminal a approved under the			*		
	ipment is an Inmarsat C to ant with the requirements 8) and 1		2002-	4		7
	nis is the Ship Security Ale e complies with provisions and rese		[-2/6	×		
	I confirm the above	information is co	rrect	4		?

Where would you like to go now?

Start test

Test results

▶ Home

Questionnaire on LRIT

Please indicate the type of transceiver or shipborne equipment used onboard the vessel to transmit LRIT information. Kindly return the duly completed questionnaire to us together with the test result from the ASP.

	Please sele
Equipment make and model:	
MO number:	
Ship name:	
Company:	

Type of equipment	Please select only <u>ONE</u>
1) Standalone LRIT equipment;	
2) Existing GMDSS equipment used for LRIT transmission;	
3) Navigational equipment used for LRIT transmission;	
4) SSA equipment used for LRIT transmission	

Annex D



Name of authorized person:

LONG-RANGE IDENTIFICATION AND TRACKING OF SHIPS CONFORMANCE TEST REPORT

Issued under the provisions of MSC.1/Circ. 1307 on Guidance on the survey and certification of compliance of ships with the requirements to transmit LRIT information by the Government of the Republic of Singapore

Test Report No: LRITC-00XXX-17 Name of ship **SINGAPORE** Port of Registry Distinctive number or letters **IMO Number Maritime Mobile Service Identity Gross tonnage** Sea areas in which the ship is certified to operate Sea areas for which this report is valid Application Service Provider conducting the test THIS IS TO CERTIFY that the shipborne equipment designated to transmit LRIT information and specified below: has been found to meet the requirement of the provision of regulations V/19-1.6 and V/19-1.7 and of the Revised performance standards and functional requirements for the long-range identification and tracking of ships adopted by resolution MSC.263(84) and: is of a type approved by the Administration in accordance with the provisions of □ No 1 ☐ Yes regulation V/19-1; 2 is of a type approved by the Administration in accordance with the provisions of ☐ Yes □ No regulation IV/14; 3 has been certified by the Administration as meeting the requirements of IEC 60945 ☐ Yes □ No (2002-08) and IEC 60945 Corr.1 (2008-04) on Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results; has been certified by the Administration as meeting the requirements of the provisions ☐ Yes □ No of regulation XI-2/6; has undergone conformance testing in accordance with the procedures and provisions set out in MSC.1/Circ.1307, and has shown that it can operate within the tolerances of the acceptance criteria stated in the aforesaid circular. The conformance test was satisfactorily completed on Details of the shipborne equipment used to transmit LRIT information: Serial No Make Model Shipborne Equipment Identifier Issued at Singapore on Signature of authorized person: