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PROCEDURES FOR APPROVAL OF LIFE-SAVING APPLIANCES AND FIRE SAFETY SYSTEMS, EQUIPMENT AND PRODUCTS

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GENERAL

1.1 Introduction

- 1.1.1 The approval procedures for life-saving appliances and fire safety systems, equipment and products may be conducted by Recognized Organizations or Product Certification Bodies under specific Canadian requirements.
- 1.1.2 Transport Canada recognizes approvals of life-saving appliances and fire safety systems, equipment and products for which the Recognized Organization has been granted approval authority¹.
- 1.1.3 Transport Canada recognizes approvals of life-saving appliances and fire safety systems, equipment and products when listed by Product Certification Bodies as meeting the appropriate standards stated in Regulations.
- 1.1.4 Transport Canada, the Administration, may consider issuing certificates of approval directly for life-saving appliances and fire safety systems, equipment and products on a case-by-case basis if there is sufficient justification in a request from the manufacturer.
- 1.1.5 Although the intent is to eventually allow products approved by other bodies to be accepted for use in the Canadian fleet, there is not yet agreement for all products with other organizations or direct acceptance by Regulations to realize the goal of full delegation of product approval.
- 1.1.6 Appliances, systems, equipment and products requiring Ministerial approval are specifically stated in Canadian Regulations and Standards as “approved by the Board” or “approved by the Minister”. In incorporated IMO documents the appliances, systems, equipment and products are stated as “approved by the Administration”.
- 1.1.7 Certain appliances, systems, equipment and products for installation in Canadian registered vessels are accepted as specified in the Regulations and make no reference to “approved by the Minister”. These appliances, systems, equipment and products are not subject to the procedures in the current document but only need to meet the applicable standards stated in the Regulations and be tested, approved or certified by a third party when stated in the Regulations.
- 1.1.8 All existing life-saving appliances and fire safety systems, equipment and products approved under previous Transport Canada procedures do not

¹ Refer to the Authorization and Agreement Governing the Delegation of Statutory Functions for Vessels Registered in Canada.

need to meet the details in this publication until such time that the certificate of approval needs to be renewed. Existing appliances that are installed onboard and in serviceable condition are to meet the requirements of the procedures to which they were approved.

- 1.1.9 In advance of the coming into force of the proposed *Vessel Fire Safety Regulations*, all structural fire protection products required to be approved under the *Hull Construction Regulations* according to the standard TP 439, *Structural Fire Protection Standards: Testing and Approval Procedures* are now approved according to the latest version of the *International Code for Application of Fire Test Procedures*, published by IMO.
- 1.1.10 Under the current *Fire Detection and Extinguishing Equipment Regulations (FDEER)* fire safety systems and equipment requiring approval by the Minister must meet the requirements set out in the schedule to the Regulations and be approved accordingly. In the proposed *Vessel Fire Safety Regulations*, these systems and equipment will have to meet the requirements of the *Fire Safety Systems Code* published by IMO.
- 1.1.11 In general, until the coming into force of the proposed *Vessel Fire Safety Regulations* only the systems and equipment approved to the requirements of the FDEER may be used on Canadian vessels subject to the Regulations. The use of alternate systems and equipment approved to the FSS Code will be considered on a case by case basis.

1.2 Purpose

- 1.2.1 The purpose of this Transport Canada Publication is to summarize approval procedures of life-saving appliances and fire safety systems, equipment and products in Canada.

1.3 Scope

- 1.3.1 The appliances, systems, equipment and products requiring Ministerial approval under current *Life Saving Equipment Regulations*, *Small Vessels Regulations*, *Small Fishing Vessel Regulations*, *Large Fishing Vessel Regulations* and *Fire Detection and Extinguishing Equipment Regulations* and when they come into force the proposed *Life Saving Appliances Regulations*, *Fishing Vessel Safety Regulations* and *Vessel Fire Safety Regulations* as amended from time to time.

1.4 Definitions

Approval Authority means the Minister of Transport Canada.

FSS Code means the *International Code for Fire Safety Systems*, published by the IMO.

Fire Safety Equipment means equipment that requires Ministerial approval under the *Fire Detection and Extinguishing Equipment Regulations* and proposed *Vessel Fire Safety Regulations* and the FSS Code.

Fire Safety System means a system that requires Ministerial approval under the *Fire Detection and Extinguishing Equipment Regulations* and proposed *Vessel Fire Safety Regulations* and the FSS Code.

FTP Code means the *International Code for Application of Fire Test Procedures, 2010*, published by the IMO.

IMO means International Maritime Organization.

IMO Resolution MSC.81(70) means the annex to International Maritime Organization Resolution MSC.81(70), *Revised Recommendation on Testing of Life-Saving Appliances*.

LSA Code means the annex to International Maritime Organization Resolution MSC.48(66), *International Life-Saving Appliance (LSA) Code*.

Product Certification Body means a body that is accredited by the Standards Council of Canada, or by any other national accreditation organisation that is a member of the International Accreditation Forum Multilateral Recognition Arrangement (MLA), to give third party written assurance that a product conforms to the specified requirements for the product, including granting of initial certification and maintenance of the certification.

Recognized Organization for the purpose of this document means an organization authorized to perform specific functions on behalf of the Minister of Transport.

SOLAS means the latest edition of the International Convention for the Safety of Life at Sea, 1974, and its Protocol of 1988: articles, annexes and certificates, as amended.

Standard TP 14475 means the *Canadian Life Saving Appliance Standard*, published by the Department of Transport.

Structural Fire Protection Products means a structural fire protection product that requires Ministerial approval under the *Hull Construction Regulations* and proposed *Vessel Fire Safety Regulations* and the FTP Code.

Testing Laboratory means a laboratory that is accredited by the Standards Council of Canada, or by any other national accreditation organization that is a member of the International Laboratory Accreditation Cooperation, to produce accurate results for the specific tests or calibrations that are listed on its scope of accreditation.

Type Approval has the meaning commonly ascribed to it in IMO documents.

PROCEDURES FOR APPROVAL

2 APPROVAL BY RECOGNIZED ORGANIZATIONS

2.1 General

- 2.1.1 Transport Canada recognizes approvals of life-saving appliances and fire safety systems, equipment and products for which the Recognized Organization has been granted approval authority².
- 2.1.2 The following Classification Societies are Recognized Organizations (RO):
- a) American Bureau of Shipping
 - b) Bureau Veritas
 - c) Det Norske Veritas
 - d) Germanischer Lloyd
 - e) Lloyd's Register
- 2.1.3 In granting approvals for life-saving appliances and fire safety systems, equipment and products, the RO shall ensure that the following requirements are met:
- 2.1.3.1 The required tests are conducted at a Testing Laboratory³ acceptable to the RO, and:
- 2.1.3.2 The RO may utilize other persons or organizations if they are service providers (a person, classification society or other organization) approved or recognized by the RO to perform the particular function or approval being carried out. In these situations, the RO remains responsible for subsequent verification and certification services.
- 2.1.3.3 All tests shall be carried out taking into account the latest version of regulations, incorporated standards, IMO Codes, recommendations, guidelines and interpretations.

² Refer to the Authorization and Agreement Governing the Delegation of Statutory Functions for Vessels Registered in Canada.

³ A list of testing laboratories recognised by the Administrations is issued by IMO and updated in a series of FP circulars. Other testing laboratories meeting the definition in section 1.4 are also acceptable.

- 2.1.3.4 The RO is satisfied that the manufacturer has in place a certified Quality Assurance System equivalent to the most recent ISO 9000 standard.
- 2.1.3.5 The RO has procedures in place to audit and monitor the manufacturer's Quality Assurance System.
- 2.1.3.6 The RO has procedures in place to carry out follow up inspections of the type approved products.
- 2.1.4 Where the tests of products meet the requirements of 2.1.3 and the applicable regulations and standards incorporating specific Canadian requirements or modifications:
 - 2.1.4.1 The RO shall inform the administration that the approval is in conformity with Transport Canada requirements; and
 - 2.1.4.2 The RO shall ensure that the appliance or product is listed as conforming to Canadian requirements on the RO's website.
- 2.1.5 For all products provisions are to be made, such as on the RO's website, to detail the conditions of the issuance of approval certificates.

2.2 Life-saving Appliances

- 2.2.1 In granting approvals for life-saving appliances, the Recognized Organization (RO) shall ensure that the following requirements are met:
 - 2.2.1.1 The life-saving appliances meet the relevant standards as set out in the Standard TP 14475, the LSA Code with the Canadian modifications contained in the Standard TP 14475 and as appropriate the *Small Vessel Regulations*, the *Life Saving Equipment Regulations* or when they come into force the proposed *Life Saving Appliance Regulations*.
 - 2.2.1.2 The tests and follow up procedures are carried out to the relevant test standards as outlined in the Standard TP 14475, the Resolution MSC.81(70) with the Canadian modifications set out in the Standard TP 14475 and as appropriate the *Small Vessel Regulations*, the *Life Saving Equipment Regulations* or when they come into force the proposed *Life Saving Appliance Regulations*.
 - 2.2.1.3 All instructions or markings that accompany life-saving appliances or are printed directly on the appliances must be in both English and French, as per Canadian Regulations.
 - 2.2.1.4 Independent signage can be accepted in lieu of the instructions or marking required in 2.2.1.3 if it is in both English and French, highly visible (size, colour, posting location), water and weather proof and posted at each muster station and where the appliance is stored.

- 2.2.1.5 It is the responsibility of the RO to ensure that service providers who test and maintain life-saving appliances approved according to these procedures are doing so in accordance with the relevant international standards and additional RO requirements as appropriate.

2.3 Structural Fire Protection Products

- 2.3.1 In granting approvals for structural fire protection products, the RO shall ensure that the following are met:
- 2.3.1.1 The product meets all the applicable requirements of the FTP Code and when they come into force the proposed *Vessel Fire Safety Regulations*.
- 2.3.1.2 Tests are carried out in accordance with the FTP Code and when they come into force the proposed *Vessel Fire Safety Regulations*.

2.4 Fire Safety Systems and Equipment

- 2.4.1 Reserved⁴

2.5 Websites of Recognized Organizations

- 2.5.1 American Bureau of Shipping:
http://www.eagle.org/eagleExternalPortalWEB/appmanager/absEagle/absEagleDesktop?_nfpb=true&_pageLabel=abs_eagle_portal_svcs_type_app_r_welcome_page
- 2.5.2 Bureau Veritas:
http://www.veristar.com/wps/portal!/ut/p/_s.7_0_A/7_0_TH5
- 2.5.3 Det Norske Veritas:
<https://exchange.dnv.com/DNVX/ApprovedPublic/ApprovedProductsAndManufacturers.html>
- 2.5.4 Germanischer Lloyd: http://www.gl-group.com/en/gltools/approval_finder.php
- 2.5.5 Lloyd's Register: <http://www.cdlive.lr.org/mainmenu.asp>

⁴ The existing Authorization and Agreement with Recognized Organisation does not cover the approval of Fire Safety Systems and Equipment.

3 APPROVAL BY PRODUCT CERTIFICATION BODIES

3.1 General

- 3.1.1 Transport Canada recognizes approvals of life-saving appliances and fire safety systems, equipment and products issued by the following Product Certification Bodies:
- a) Underwriters Laboratories of Canada (ULC)
 - b) Underwriters Laboratories Inc.
- 3.1.2 Appliances, systems, equipment and products requiring Ministerial approval which are listed by a recognized Product Certification Body as having met the appropriate standards are approved for the purposes of the Regulations.
- 3.1.3 All tests shall be carried out taking into account the latest version of Regulations, incorporated standards, IMO Codes, recommendations, guidelines and interpretations.

3.2 Life-saving Appliances

- 3.2.1 In granting approvals for life-saving appliances, the Product Certification Body shall ensure that the following requirements are met:
- 3.2.1.1 The life-saving appliances meet the most recent and relevant standards as set out in the Standard TP 14475, the LSA Code with the Canadian modifications contained in the Standard TP 14475 and as appropriate the *Small Vessel Regulations*, the *Life Saving Equipment Regulations* or when they come into force the proposed *Life Saving Appliance Regulations*.
 - 3.2.1.2 The tests and follow up procedures are carried out to the latest relevant test standards as outlined in the Standard TP 14475 and Resolution MSC.81(70) with the Canadian modifications set out in the Standard TP 14475 and as appropriate the *Small Vessel Regulations*, the *Life Saving Equipment Regulations* or when they come into force the proposed *Life Saving Appliance Regulations*.
 - 3.2.1.3 All instructions or markings that accompany life-saving appliances or are printed directly on the appliances must be in both English and French, as per Canadian Regulations.
 - 3.2.1.4 Independent signage can be accepted in lieu of the instructions or marking required in 3.2.1.3 if it is in both English and French, highly visible (size, colour, posting location), water and weather proof and posted at each muster station and where the appliance is stored.

3.3 Structural Fire Protection Products

- 3.3.1 In granting approvals for structural fire protection products, the Product Certification Body shall ensure that the following are met:
- 3.3.1.1 The product meets all the applicable requirements of the FTP Code and when they come into force the proposed *Vessel Fire Safety Regulations*.
 - 3.3.1.2 Tests are carried out in accordance with the FTP Code and when they come into force the proposed *Vessel Fire Safety Regulations*.

3.4 Fire Safety Systems and Equipment

- 3.4.1 In granting approvals for fire safety systems and equipment, the Product Certification Body shall ensure that the following are met:
- 3.4.1.1 The system or equipment meets all the applicable requirements of the *Small Vessel Regulations*, the *Fire Detection and Extinguishing Equipment Regulations* or when they come into force the proposed *Vessel Fire Safety Regulations* and the FSS Code.
 - 3.4.1.2 Tests are carried out as appropriate in accordance the *Small Vessel Regulations*, the *Fire Detection and Extinguishing Equipment Regulations* or when they come into force the proposed *Vessel Fire Safety Regulations* and the FSS Code.

3.5 Contact Information for Product Certification Bodies

- 3.5.1 Manufacturers seeking UL or ULC listing are to contact ULC (website: www.ul.com/pfdquote):
- a) by mail at Underwriters Laboratories of Canada, Marine Equipment, 7 Underwriters Road, Toronto, ON, M1R 3B4, or
 - b) by email to pfddquote@us.ul.com.
 - c) Listed products website: <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

4 APPROVAL BY TRANSPORT CANADA

4.1 General

- 4.1.1 Transport Canada will issue certificates of approval for life-saving appliances and fire safety systems, equipment and products that are not, under the agreement, approved by one of the Recognized Organization or listed by one of the accepted Product Certification Bodies.
- 4.1.2 In case of life-saving appliances and fire safety systems, equipment and products covered by an agreement with a Recognized Organization or listed by a recognized Product Certification Body, when there is sufficient justification in a request from the manufacturer, Transport Canada will consider granting approvals on a case-by-case basis for appliances and products that have not been approved as per the procedures in sections 2 and 3.
- 4.1.3 Transport Canada must be satisfied that provisions have been made for the inspection, testing and servicing of the production line, including inspection of the manufacturer's quality control procedures.
- 4.1.4 If the manufacturer is ISO compliant, the ISO certificate is to be submitted with the request for approval.
- 4.1.5 A submission for approval is to be sent to the Manager, Safety Equipment (AMSRE), Transport Canada Marine Safety, Tower C, Place de Ville, 330 Sparks Street, 11th Floor, Ottawa, Ontario, K1A 0N8. The submission can be sent:
- a) By mail to the address above; or
 - b) By email to shipshape@tc.gc.ca; or
 - c) By fax at the following fax number 613-991-4818.
- Note:** It is not recommended to send a submission by fax, as the quality of the drawing received is generally poor. A submission sent by mail with a printout of all relevant drawings speeds up the process.
- 4.1.6 The submission must include:
- a) One (1) copy of the test reports;
 - b) One (1) copy of all relevant plans, drawings, and specifications of the product for which approval is sought;
 - c) List of components, including components to be used in the construction and repair of the product;
 - d) Certificates of Approval issued by other Administrations or Classification Societies (if available);

- e) Any specification or information pertinent to help with the acceptance of the product, and;
 - f) A detailed description of the quality control procedures used in the production of the product.
- 4.1.7 In the case of approvals for life-saving appliances, if SOLAS approval is required, a copy of all Standardized Life-Saving Appliance Evaluation and Tests Report Forms as per MSC/Circ.908 must also be completed and submitted.
- 4.1.8 All tests shall be carried out taking into account the latest version of regulations, incorporated standards, IMO recommendations, guidelines and interpretations.
- 4.1.9 Transport Canada will review the submission and, provided the information is complete and compliant with the requirements of the applicable standards and regulations for life-saving appliances and fire safety systems and products and of this publication, approval will be granted.
- 4.1.10 Once approval is granted, a certificate of approval valid for five (5) years will be issued and the product will be listed on the Approved Product Catalogue Index (APCI) that can be found on Transport Canada's website http://www.tc.gc.ca/Marine_Safety/APCI-ICPA/default.asp.
- 4.1.11 Manufacturers who wish to renew certificates upon expiration for an additional five year period must make application to the Transport Canada Marine Safety Branch at the address specified in 4.1.5 not more than three months before the expiry date shown on the certificate. This application includes a statement that the product is identical in all respects to that originally tested and approved. If the original submission for approval included an approval granted by another administration, evidence of the continuing validity of that approval should be forwarded with the application for renewal.
- 4.1.12 The approval is granted only for the product identified therein, and only when such product is manufactured in accordance with the relevant requirements of this standard and every production line manufactures the product to the same standard as the approved prototype.
- 4.1.13 Manufacturers are required to maintain records relating to the quality control and production tests carried out in accordance with the most recent and relevant standards listed in paragraph 4.2, 4.3 and 4.4.
- 4.1.14 These records are to be available for revision by or submission to Transport Canada and are to include:
 - a) Details of material purchased and used in the fabrication of the product;

- b) Date when production commenced and terminated, if production was not continuous;
- c) Test records of all components used in the production process
- d) Records of all prototype tests; and detailed description of any failures.
- e) Detailed description of any failure.

4.2 Life-saving Appliances

- 4.2.1 In the case of life-saving appliances, a Testing Laboratory must have subjected a prototype of the appliance to all applicable tests.
- 4.2.2 The manufacturer and the Testing Laboratory shall ensure that the following requirements are met:
 - 4.2.2.1 Verifications are carried out to ensure that the life-saving appliances meet the most recent and relevant standards as set out in the Standard TP 14475, the LSA Code with the Canadian modifications contained in the Standard TP 14475 and as appropriate the *Small Vessel Regulations*, the *Life Saving Equipment Regulations* or when they come into force the proposed *Life Saving Appliance Regulations*.
 - 4.2.2.2 The tests and follow up procedures are carried out to the latest relevant test standards as outlined in the Standard TP 14475 and Resolution MSC.81(70), the Canadian modifications to Resolution MSC.81 (70) set out in the Standard TP 14475 and as appropriate the *Small Vessel Regulations*, the *Life Saving Equipment Regulations* or when they come into force the proposed *Life Saving Appliance Regulations*.
 - 4.2.2.3 All instructions or markings that accompany life-saving appliances or are printed directly on the appliances must be in both English and French, as per Canadian Regulations.
 - 4.2.2.4 Independent signage can be accepted in lieu of the instructions or marking required in 4.2.2.3 if it is in both English and French, highly visible (size, colour, posting location), water and weather proof and posted at each muster station and where the appliance is stored.

4.3 Structural Fire Protection Products

- 4.3.1 In the case of structural fire protection products, a Testing Laboratory must have subjected a prototype of the product to all applicable tests.
- 4.3.2 The manufacturer and the testing laboratory shall ensure that the following are met:

- 4.3.2.1 The structural fire protection product meets as appropriate all the applicable requirements of the FTP Code and when they come into force the proposed *Vessel Fire Safety Regulations*.
- 4.3.2.2 Tests are carried out in accordance with the FTP Code and when they come into force the proposed *Vessel Fire Safety Regulations*.

4.4 Fire Safety Systems and Equipment

- 4.4.1 In the case of fire safety systems or equipment, a Testing Laboratory must have subjected a prototype of the system or equipment to all applicable tests.
- 4.4.2 The manufacturer and the testing laboratory shall ensure that the following are met:
 - 4.4.2.1 The system or equipment meet as appropriate all the applicable requirements of the *Small Vessel Regulations*, the *Fire Detection and Extinguishing Equipment Regulations* or when they come into force the proposed *Vessel Fire Safety Regulations* and the FSS Code.
 - 4.4.2.2 Tests are carried out as appropriate in accordance the *Small Vessel Regulations*, the *Fire Detection and Extinguishing Equipment Regulations* or when they come into force the proposed *Vessel Fire Safety Regulations* and the FSS Code.