

# CCS 通 函

## Circular

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To relevant departments of CCS Headquarters, Shanghai Rules and Research Institute, plan approval centers, branches/offices, related shipyards, product manufacturers, testing organizations, design units, ship management companies and shipowners

### **Notice on Implementation of Resolution MSC.313(88) Relating to the Amendments to the Guidelines for the Application of Plastic Pipes on Ships (Resolution A.753(18))**

#### **1 Background**

The Maritime Safety Committee of the International Maritime Organization, at its eighty-eighth session on 16 November 2010, adopted resolution No.313 relating to the Amendments to the Guidelines for the Application of Plastic Pipes on Ships (resolution A.753(18)).

This Circular covers the instructions on implementation of the annex of resolution MSC.313(88) relating to the amendments to the Guidelines for the Application of Plastic Pipes on Ships (Resolution A.753(18)), which will be effective on 1 January 2012.

For Chinese translation of the annex of resolution MSC.313(88), see Attachment to this Circular.

#### **2 Instructions on implementation**

2.1 Major amendments and new additions of MSC.313(88) to the Guidelines for the Application of Plastic Pipes on Ships (Resolution A.753(18)) are as follows:

(1) The application is extended. The existing Guidelines only applies to the rigid pipes, the amended Guidelines applies to piping systems made predominantly of other material than metal, however, the material is only restricted as synthetic rubber.

(2) The definition of “plastic” is amended that plastic includes synthetic rubber and materials of similar thermo/mechanical properties.

(3) New fire test levels 1W and 2W are added, clarifying that the flow loss in the system is 5%.

2.2 The Guidelines covers the recommended test procedures and methods, which applies to plastic pipes including synthetic rubber used onboard ships.

(1) Attention is to be paid to the test procedures and methods recommended by resolution A.753(18) as amended during the survey of product of plastic pipes or synthetic rubber pipes and the type approval and certification of the product may be carried out on the basis of these

procedures and methods.

(2) Attention is to be paid during the plan approval and construction survey that product certificates complying with the requirements of resolution A.753(18) as amended by resolution MSC.313(88) are to be provided where plastic pipes or synthetic rubber pipes are used onboard ships. The surveyors are to carry out the checking according to the requirements of the resolution.

**Attachment:**

Resolution MSC.313(88): “Amendments to the Guidelines for the Application of Plastic Pipes on Ships (resolution A.753(18))” and the Annex

Please feel free to contact Technical Management Department of the Headquarters for any inquiry in the implementation by e-mail to: [rt@ccs.org.cn](mailto:rt@ccs.org.cn). The Circular is made public on CCS website ([www.ccs.org.cn](http://www.ccs.org.cn)), and be transmitted to the relevant shipyards, shipowners, testing organizations, design units and product manufacturers by the branches within their responsible area.

**Attachment:**

**RESOLUTION MSC.313(88)**  
**(adopted on 26 November 2010)**

**AMENDMENTS TO THE GUIDELINES FOR THE APPLICATION OF PLASTIC PIPES  
ON SHIPS (RESOLUTION A.753(18))**

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the functions of the Committee,

RECALLING ALSO resolution MSC.61(67), by which it adopted the International Code for Application of Fire Test Procedures (FTP Code) for the testing of new marine materials which are increasingly being introduced into the design and construction of ships and craft engaged in international maritime transport,

RECALLING FURTHER resolution A.753(18), by which the Assembly, at its eighteenth session, adopted Guidelines for the application of plastic pipes on ships, to assist maritime Administrations to determine, in a rational and uniform manner, the permitted applications of such materials,

NOTING that part 2 of the FTP Code makes reference to resolution A.753(18) for the testing of materials for smoke and toxic hazards,

RECOGNIZING that the continual development of plastic materials for use on ships and improvement of marine safety standards since the adoption of resolution A.753(18) necessitated the revision of the provisions of the Guidelines for the application of plastic pipes on ships in order to take into account technological developments and maintain the highest practical level of safety,

NOTING FURTHER that the Assembly requested the Committee to keep the Guidelines under review and amend them as necessary,

HAVING CONSIDERED, at its eighty-eighth session, amendments to the Guidelines for the application of plastic pipes on ships, proposed by the Sub-Committee on Fire Protection at its fifty-fourth session,

1. ADOPTS amendments to the Guidelines for the application of plastic pipes on ships (resolution A.753(18)), the text of which is set out in the Annex to the present resolution;
2. INVITES Governments to apply the annexed amendments when considering the use of plastic piping on board ships flying the flag of their State.

ANNEX

**AMENDMENTS TO THE GUIDELINES FOR THE APPLICATION OF PLASTIC PIPES  
ON SHIPS (RESOLUTION A.753(18))**

- 1 The existing paragraph 1.2.3 is replaced by the following:  

"These Guidelines are applicable to piping systems made predominantly of other material than metal. The use of mechanical and flexible couplings which are accepted for use in metallic piping systems is not addressed."
- 2 In paragraph 1.4.1, the following sentence is added at the end:  

"Plastic includes synthetic rubber and materials of similar thermo/mechanical properties."
- 3 In paragraph 2.2.1.2.1, the following text is added at the end:  

"Level 1W – Piping systems similar to level 1 systems except these systems do not carry flammable fluid or any gas and a maximum 5% flow loss in the system after exposure is acceptable\*."
- 4 In paragraph 2.2.1.2.2, the following text is added at the end:  

"Level 2W – Piping systems similar to level 2 systems except a maximum 5% flow loss in the system after exposure is acceptable\*."
- 5 In paragraph 4.1.1 after the words "pipe dimension" add the words ", length of the piping".
- 6 In appendix 1, note 2 to paragraph 1, the words "as set out in paragraph 3.1.3 of the annex to Assembly resolution A.517(13)" are replaced by the words "as set out in paragraphs 7.1, 7.2 and 7.3 of the annex to Assembly resolution A.754(18)".
- 7 In appendix 1, paragraph 6, the words "without leakage" at the end of the second sentence are deleted and the following new text is inserted after the second sentence:  

"Pipes without leakage qualify as level 1 or 2 depending on the test duration. Pipes with negligible leakage, i.e. not exceeding 5% flow loss, qualify as level 1W or level 2W depending on the test duration."
- 8 In appendix 4, in the Fire Endurance Requirements Matrix, "L1" is replaced by "L1W" in rows 14, 15 and 23 and "L2" is replaced by "L2W" in rows 16, 17 and 31.

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\* The flow loss must be taken into account when dimensioning the system.

