Directive 2003/25/EC of the European Parliament and of the Council of 14 April 2003 on specific stability requirements for ro-ro passenger ships (Text with EEA relevance)

DIRECTIVE 2003/25/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 14 April 2003

on specific stability requirements for ro-ro passenger ships

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article 80(2) thereof,

Having regard to the proposal from the Commission⁽¹⁾,

Having regard to the Opinion of the European Economic and Social Committee⁽²⁾,

Having consulted the Committee of the Regions,

Acting in accordance with the procedure laid down in Article 251 of the Treaty⁽³⁾,

Whereas:

- (1) Within the framework of the common transport policy further measures should be taken to improve safety in maritime transport of passengers.
- (2) The Community wishes to avoid by all appropriate means shipping accidents involving ro-ro passenger ships and resulting in loss of life.
- (3) The survivability of ro-ro passenger ships following collision damage, as determined by their damage stability standard, is an essential factor for the safety of passengers and crew and is particularly relevant for search and rescue operations; the most dangerous problem for the stability of a ro-ro passenger ship with an enclosed ro-ro deck, following collision damage, is the one posed by the effect of a build up of significant amounts of water on that deck.
- (4) Persons using ro-ro passenger ships and crew employed on board such vessels throughout the Community should have the right to demand the same high level of safety regardless of the area in which ships operate.
- (5) In view of the internal market dimension of maritime transport of passengers, action at Community level is the most effective way of establishing a common minimum level of safety for ships throughout the Community.
- (6) Action at Community level is the best way to ensure the harmonised enforcement of principles agreed on within the International Maritime Organisation (IMO), thus avoiding distortions of competition between the operators of ro-ro passenger ships operating in the Community.

- (7) General stability requirements for ro-ro passenger ships in damaged condition were established at international level by the 1990 Safety of Life at Sea (SOLAS 90) Conference and were included in Regulation II-1/B/8 of the SOLAS Convention (SOLAS 90 standard). These requirements are applicable in the entire Community owing to the direct application to international voyages of the SOLAS Convention and the application to domestic voyages of Council Directive 98/18/EC of 17 March 1998 on safety rules and standards for passenger ships⁽⁴⁾.
- (8) The SOLAS 90 damage stability standard implicitly includes the effect of water entering the ro-ro deck in a sea state of the order of 1,5 m significant wave height.
- (9) IMO Resolution 14 of the 1995 SOLAS Conference, allowed IMO members to conclude regional agreements if they consider that prevailing sea conditions and other local conditions require specific stability requirements in a designated area.
- (10) Eight northern European countries, including seven Member States, agreed in Stockholm on 28 February 1996 to introduce a higher stability standard for ro-ro passenger ships in damaged condition in order to take into account the effect of water accumulation on the ro-ro deck and to enable the ship to survive in more severe states than the SOLAS 90 standard, up to 4 m significant wave heights.
- (11) Under this agreement, known as the Stockholm Agreement, the specific stability standard is directly related to the sea area in which the vessel operates and more particularly to the significant wave height recorded in the area of operation; the significant wave height of the area where the ship operates determines the height of water on the car deck that would arise following the occurrence of accidental damage.
- (12) At the conclusion of the Conference at which the Stockholm Agreement was adopted, the Commission noted that the Agreement was not applicable in other parts of the Community and announced its intention to examine the prevailing local conditions under which ro-ro passenger ships sail in all European waters and to take appropriate initiatives.
- (13) The Council entered a statement in the minutes of the 2 074th Council meeting of 17 March 1998 stressing the need to ensure the same level of safety for all passenger ferries operating in similar conditions, whether on international or on domestic voyages.
- (14) In its Resolution of 5 October 2000 on the sinking of the Greek ferry 'Samina'⁽⁵⁾, the European Parliament expressly stated that it awaited the evaluation by the Commission of the effectiveness of the Stockholm Agreement and other measures for improving the stability and safety of passenger ships.
- (15) Following an expert study by the Commission, the wave height conditions in south European waters were found to be similar to those in the north. While meteorological conditions may be generally more favourable in the south, the stability standard determined in the context of the Stockholm Agreement is based solely on the significant wave height parameter and the way this influences the accumulation of water on the ro-ro deck.

- (16) The application of Community safety standards regarding the stability requirements for ro-ro passenger ships is essential for the safety of these vessels and has to be part of the common maritime safety framework.
- (17) In the interests of improving safety and avoiding distortion of competition, the common safety standards regarding stability should apply to all ro-ro passenger ships, regardless of the flag that they fly, providing regular services to or from a port in the Member States on international voyages.
- (18) The safety of ships is primarily the responsibility of flag States and therefore each Member State should ensure compliance with the safety requirements applicable to the ro-ro passenger ships flying the flag of that Member State.
- (19) Member States should also be addressed in their capacity as host States. The responsibilities exercised in that capacity are based on specific port State responsibilities that are fully in line with the 1982 United Nations Convention on the Law of the Sea (Unclos).
- (20) The specific stability requirements introduced by this Directive should be based on a method, as set out in the Annexes to the Stockholm Agreement, which calculates the height of water on the ro-ro deck following collision damage in relation to two basic parameters: the ship's residual freeboard and the significant wave height in the sea area where the ship operates.
- (21) Member States should determine and publicise the significant wave heights in the sea areas crossed by ro-ro passenger ships on regular service to or from their ports. For international routes the significant wave heights should, wherever applicable and possible, be established in agreement between the States at both ends of the route. Significant wave heights for seasonal operation in the same sea areas may also be determined.
- (22) Every ro-ro passenger ship engaged in voyages within the scope of this Directive should fulfil the stability requirements in relation to the significant wave heights determined for its area of operation. It should carry a certificate of compliance issued by the Administration of the flag State, which should be accepted by all other Member States.
- (23) The SOLAS 90 Standard provides a level of safety equivalent to the specific stability requirements established by this Directive for ships operating in sea areas where the significant wave height is equal to or less than 1,5 m.
- In view of the structural modifications that the existing ro-ro passenger ships may need to undergo in order to comply with the specific stability requirements, those requirements should be introduced over a period of years in order to allow to the part of the industry affected sufficient time to comply: to that end, a phasing-in timetable for existing ships should be provided. This phasing-in timetable should not affect the enforcement of the specific stability requirements in the sea areas covered by the Annexes to the Stockholm Agreement.
- (25) Article 4(1)(e) of Council Directive 1999/35/EC of 29 April 1999 on a system of mandatory surveys for the safe operation of regular ro-ro ferry and high-speed passenger

- craft services⁽⁶⁾ provides that host States are to check that ro-ro passenger ferries and high-speed passenger craft comply with specific stability requirements adopted at regional level and transposed into their national legislation, when these ships operate a service covered by that national legislation in the region concerned.
- (26) High-speed passenger craft as defined in Regulation 1 of Chapter X of the SOLAS Convention, as amended, should not be required to comply with the provisions of this Directive, provided that they comply entirely with the provisions of the IMO 'International code for safety of high-speed craft', as amended.
- (27) The measures necessary for the implementation of this Directive should be adopted in accordance with Council Decision 1999/468/EC of 28 June 1999 laying down the procedures for the exercise of implementing powers conferred on the Commission⁽⁷⁾.
- (28) Since the objective of the proposed action, namely to safeguard human life at sea by improving the survivability of ro-ro passenger ships in the event of damage, cannot be sufficiently achieved by the Member States and can therefore, by reason of the scale and effects of the action, be better achieved at Community level, the Community may adopt measures, in accordance with the principle of subsidiarity as set out in Article 5 of the Treaty. In accordance with the principle of proportionality, as set out in that Article, this Directive does not go beyond what is necessary in order to achieve that objective,

HAVE ADOPTED THIS DIRECTIVE:

Article 1

Purpose

The purpose of this Directive is to lay down a uniform level of specific stability requirements for ro-ro passenger ships, which will improve the survivability of this type of vessel in case of collision damage and provide a high level of safety for the passengers and the crew.

Article 2

Definitions

For the purpose of this Directive, the following definitions shall apply:

- (a) 'ro-ro passenger ship' means a ship carrying more than 12 passengers, having ro-ro cargo spaces or special category spaces, as defined in Regulation II-2/3 of the SOLAS Convention, as amended;
- (b) 'new ship' means a ship the keel of which is laid or which is at a similar stage of construction on or after 1 October 2004: a similar stage of construction means the stage at which:
 - (i) construction identifiable with a specific ship begins; and
 - (ii) assembly of that ship has commenced comprising at least 50 tonnes or 1 % of the estimated mass of structural material, whichever is less;

- (c) 'an existing ship' means a ship which is not a new ship;
- (d) 'a passenger' is every person other than the master and the members of the crew or other persons employed or engaged in any capacity on board a ship on the business of that ship and other than a child under one year of age;
- (e) 'international Conventions' means the 1974 International Convention for the Safety of Life at Sea (the SOLAS Convention), and the 1966 International Convention on Load Lines, together with Protocols and amendments thereto in force;
- (f) 'regular service' means a series of ro-ro passenger ship crossings serving traffic between the same two or more ports, which is operated either:
 - (i) according to a published timetable; or
 - (ii) with crossings so regular or frequent that they constitute a recognisable systematic series;
- (g) 'Stockholm Agreement' means the Agreement concluded at Stockholm on 28 February 1996 in pursuance of SOLAS 95 Conference Resolution 14 'Regional agreements on specific stability requirements for ro-ro passenger ships', adopted on 29 November 1995;
- (h) 'administration of flag State' means the competent authorities of the State whose flag the ro-ro passenger ship is entitled to fly;
- (i) 'host State' means a Member State to or from whose ports a ro-ro passenger ship is engaged on a regular service;
- (j) 'international voyage' means a sea voyage from a port of a Member State to a port outside that Member State, or vice versa;
- (k) 'specific stability requirements' means the stability requirements set out in Annex I;
- (l) 'significant wave height' (' h_s ') is the average height of the highest third of wave heights observed over a given period;
- (m) 'residual freeboard' ('f_r') is the minimum distance between the damaged ro-ro deck and the final waterline at the location of the damage, without taking into account the additional effect of the sea water accumulated on the damaged ro-ro deck.

Article 3

Scope

- This Directive shall apply to all ro-ro passenger ships operating to or from a port of a Member State on a regular service, regardless of their flag, when engaged on international voyages.
- 2 Each Member State, in its capacity as host State, shall ensure that ro-ro passenger ships, flying the flag of a State which is not a Member State, comply fully with the requirements of this Directive before they may be engaged on voyages from or to ports of that Member State in accordance with Article 4 of Directive 1999/35/EC.

Article 4

Significant wave heights

The significant wave heights (h_S) shall be used for determining the height of water on the car deck when applying the specific stability requirements contained in Annex I. The figures of significant wave heights shall be those which are not exceeded by a probability of more than 10 % on a yearly basis.

Article 5

Sea areas

- 1 Host States shall establish, not later than 17 May 2004, a list of sea areas crossed by roro passenger ships operating on regular service to or from their ports as well as the corresponding values of significant wave heights in these areas.
- The sea areas and the applicable values of the significant wave height in these areas shall be defined by agreement between the Member States or, wherever applicable and possible, between Member States and third countries at both ends of the route. Where the ship's route crosses more than one sea area, the ship shall satisfy the specific stability requirements for the highest value of significant wave height identified for these areas.
- 3 The list shall be notified to the Commission and published in a public database available in the internet site of the competent maritime authority. The location of such information as well as any updates to the list and the reasons for such updates shall also be notified to the Commission.

Article 6

Specific stability requirements

- 1 Without prejudice to the requirements of Regulation II-I/B/8 of the SOLAS Convention (SOLAS 90 standard) relating to watertight subdivision and stability in damaged condition, all ro-ro passenger ships referred to in Article 3(1) shall comply with the specific stability requirements set out in Annex I to this Directive.
- 2 For ro-ro passenger ships operating exclusively in sea areas where the significant wave height is equal to or lower than 1,5 metres, compliance with the requirements of the regulation referred to in paragraph 1 shall be considered equivalent to compliance with the specific stability requirements set out in Annex I.
- In applying the requirements set out in Annex I, Member States shall use the guidelines set out in Annex II, in so far this is practicable and compatible with the design of the ship in question.

Article 7

Introduction of the specific stability requirements

- 1 New ro-ro passenger ships shall comply with the specific stability requirements as set out in Annex I.
- 2 Existing ro-ro passenger ships, with the exception of those ships to which Article 6(2) applies, shall comply with the specific stability requirements as set out in Annex I not later than 1 October 2010.

Existing ro-ro passenger ships which on 17 May 2003 are in compliance with the requirements of the regulation referred to in Article 6(1) shall comply with the specific stability requirements as set out in Annex I not later than 1 October 2015.

This Article shall be without prejudice to Article 4(1)(e) of Directive 1999/35/EC.

Article 8

Certificates

All new and existing ro-ro passenger ships flying the flag of a Member State shall carry a certificate confirming compliance with the specific stability requirements established in Article 6 and Annex I.

This certificate, which shall be issued by the administration of the flag State and may be combined with other related certificates, will indicate the significant wave height up to which the ship can satisfy the specific stability requirements.

The certificate shall remain valid as long as the ship operates in an area with the same or a lower value of significant wave height.

- 2 Each Member State acting in its capacity as host State shall recognise certificates issued by another Member State in pursuance of this Directive.
- 3 Each Member State acting in its capacity as host State shall accept certificates issued by a third country certifying that a ship complies with the specific stability requirements established.

Article 9

Seasonal and short-time period operations

- If a shipping company operating a regular service on a year-round basis wishes to introduce additional ro-ro passenger ships to operate for a shorter period on that service, it shall notify the competent authority of the host State or States not later than one month before the said ships are operated on that service. However, in cases where, following unforeseen circumstances, a replacement ro-ro passenger ship must be introduced rapidly to ensure continuity of service, Directive 1999/35/EC shall apply.
- If a shipping company wishes to operate seasonally a regular service for a shorter time period not exceeding six months a year, it shall notify the competent authority of the host State or States not later than three months before such operation takes place.

- Where such operations take place under conditions of lower significant wave height than those established for the same sea area for all-year-round operation, the significant wave height value applicable for this shorter time period may be used by the competent authority for determining the height of water on the deck when applying the specific stability requirements contained in Annex I. The value of the significant wave height applicable for this shorter time period shall be agreed between the Member States or, wherever applicable and possible, between Member States and third countries at both ends of the route.
- Following agreement of the competent authority of the host State or States for operations within the meaning of paragraphs 1 and 2, the ro-ro passenger ship which undertakes such operations shall be required to carry a certificate confirming compliance with the provisions of this Directive, as provided for in Article 8(1).

I^{F1}Article 10

Amendment of Annexes

The Commission is empowered to adopt delegated acts in accordance with Article 10a amending the Annexes in order to take account of developments at international level, in particular in the IMO, and to improve the effectiveness of this Directive in the light of experience and technical progress.]

Textual Amendments

F1 Substituted by Regulation (EU) 2019/1243 of the European Parliament and of the Council of 20 June 2019 adapting a number of legal acts providing for the use of the regulatory procedure with scrutiny to Articles 290 and 291 of the Treaty on the Functioning of the European Union (Text with EEA relevance).

I^{F2}Article 10a

Exercise of the delegation

- 1 The power to adopt delegated acts is conferred on the Commission subject to the conditions laid down in this Article.
- The power to adopt delegated acts referred to in Article 10 shall be conferred on the Commission for a period of five years from 26 July 2019. The Commission shall draw up a report in respect of the delegation of power not later than nine months before the end of the five-year period. The delegation of power shall be tacitly extended for periods of an identical duration, unless the European Parliament or the Council opposes such extension not later than three months before the end of each period.
- The delegation of power referred to in Article 10 may be revoked at any time by the European Parliament or by the Council. A decision to revoke shall put an end to the delegation of the power specified in that decision. It shall take effect the day following the publication of the decision in the *Official Journal of the European Union* or at a later date specified therein. It shall not affect the validity of any delegated acts already in force.
- Before adopting a delegated act, the Commission shall consult experts designated by each Member State in accordance with the principles laid down in the Interinstitutional Agreement of 13 April 2016 on Better Law-Making⁽⁸⁾.

- 5 As soon as it adopts a delegated act, the Commission shall notify it simultaneously to the European Parliament and to the Council.
- A delegated act adopted pursuant to Article 10 shall enter into force only if no objection has been expressed either by the European Parliament or by the Council within a period of two months of notification of that act to the European Parliament and the Council or if, before the expiry of that period, the European Parliament and the Council have both informed the Commission that they will not object. That period shall be extended by two months at the initiative of the European Parliament or of the Council.]

Textual Amendments

F2 Inserted by Regulation (EU) 2019/1243 of the European Parliament and of the Council of 20 June 2019 adapting a number of legal acts providing for the use of the regulatory procedure with scrutiny to Articles 290 and 291 of the Treaty on the Functioning of the European Union (Text with EEA relevance).

F3Article 11

[F3[F4Committee procedure]]

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Textual Amendments

- **F3** Deleted by Regulation (EU) 2019/1243 of the European Parliament and of the Council of 20 June 2019 adapting a number of legal acts providing for the use of the regulatory procedure with scrutiny to Articles 290 and 291 of the Treaty on the Functioning of the European Union (Text with EEA relevance)
- **F4** Substituted by Regulation (EC) No 1137/2008 of the European Parliament and of the Council of 22 October 2008 adapting a number of instruments subject to the procedure laid down in Article 251 of the Treaty to Council Decision 1999/468/EC, with regard to the regulatory procedure with scrutiny Adaptation to the regulatory procedure with scrutiny Part One.

Article 12

Penalties

Member States shall lay down the rules on penalties applicable to infringements of the national provisions adopted pursuant to this Directive and shall take all the measures necessary to ensure that they are implemented. The penalties provided for shall be effective, proportionate and dissuasive.

Article 13

Implementation

Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive before 17 November 2004. They shall forthwith inform the Commission thereof.

When Member States adopt these measures, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. The methods of making such reference shall be laid down by the Member States

Article 14

Entry into force

This Directive shall enter into force on the day of its publication in the *Official Journal* of the European Union.

Article 15

Addressees

This Directive is addressed to the Member States.

ANNEX I

SPECIFIC STABILITY REQUIREMENTS FOR RO-RO PASSENGER SHIPS as referred to in Article 6

- 1. In addition to the requirements of Regulation II-1/B/8 of the SOLAS Convention relating to watertight subdivision and stability in damaged condition, all ro-ro passenger ships referred to in Article 3(1) shall comply with the requirements of this Annex.
- 1.1. The provisions of Regulation II-1/B/8.2.3 shall be complied with when taking into account the effect of a hypothetical amount of sea water which is assumed to have accumulated on the first deck above the design waterline of the ro-ro cargo space or the special cargo space as defined in Regulation II-2/3 assumed to be damaged (hereinafter referred to as 'the damaged ro-ro deck'). The other requirements of Regulation II-1/B/8 need not be complied with in the application of the stability standard contained in this Annex. The amount of assumed accumulated sea water shall be calculated on the basis of a water surface having a fixed height above:
- (a) the lowest point of the deck edge of the damaged compartment of the ro-ro deck; or
- (b) when the deck edge of the damaged compartment is submerged then the calculation is based on a fixed height above the still water surface at all heel and trim angles;

as follows:

0.5 m if the residual freeboard (f_r) is 0.3 m or less,

0.0 m if the residual freeboard (f_r) is 2.0 m or more, and

intermediate values to be determined by linear interpolation, if the residual freeboard (f_r) is 0,3 m or more but less than 2,0 m,

where the residual freeboard (f_r) is the minimum distance between the damaged ro-ro deck and the final waterline at the location of the damage in the damage case being considered without taking into account the effect of the volume of assumed accumulated water on the damaged ro-ro deck,

- 1.2. When a high-efficiency drainage system is installed, the administration of the flag State may allow a reduction in the height of the water surface.
- 1.3. For ships in geographically defined restricted areas of operation, the administration of the flag State may reduce the height of the water surface prescribed in accordance with point 1.1 by substituting such height of the water surface by the following:
- 1.3.1. 0,0 m if the significant wave height (h_s) defining the area concerned is 1,5 m or less;
- 1.3.2. the value determined in accordance with paragraph 1.1 if the significant wave height (h_s) defining the area concerned is 4,0 m or above;
- 1.3.3. intermediate values to be determined by linear interpolation if the significant wave height (h_s) defining the area concerned is 1,5 m or more but less than 4,0 m,
 - provided that the following conditions are fulfilled:
- 1.3.4. the flag State administration is satisfied that the defined area is represented by the significant wave height (hs) which is not exceeded with a probability of more than 10 %; and

- 1.3.5. the area of operation and, if applicable, the part of the year for which a certain value of the significant wave height (h_s) has been established are entered on the certificates.
- 1.4. As an alternative to the requirements of paragraph 1.1 or 1.3, the flag State administration may exempt application of the requirements of paragraph 1.1 or 1.3 and accept proof, established by model tests carried out for an individual ship in accordance with the model test method, which appears in the Appendix, justifying that the ship will not capsize with the assumed extent of damage as provided in Regulation II-1/B/8.4 in the worst location being considered under paragraph 1.1, in an irregular seaway, and
- 1.5. reference to acceptance of the results of the model test as an equivalence to compliance with paragraph 1.1 or 1.3 and the value of the significant wave height (hs) used in the model tests shall be entered on the ship's certificates.
- 1.6. the information supplied to the master in accordance with Regulations II-1/B/8.7.1 and II-1/B/8.7.2, as developed for compliance with Regulations II-1/B/8.2.3 to II-1/B/8.2.3.4, shall apply unchanged for ro-ro passenger ships approved according to these requirements.
- 2. For assessing the effect of the volume of the assumed accumulated sea water on the damaged ro-ro deck in paragraph 1, the following provisions shall prevail:
- 2.1. a transverse or longitudinal bulkhead shall be considered intact if all parts of it lie inboard of vertical surfaces on both sides of the ship, which are situated at a distance from the shell plating equal to one-fifth of the breadth of the ship, as defined in Regulation II-1/2, and measured at right angles to the centreline at the level of the deepest subdivision load line;
- 2.2. in cases where the ship's hull is structurally partly widened for compliance with the provisions of this Annex, the resulting increase of the value of one fifth of the breadth of it is to be used throughout, but shall not govern the location of existing bulkhead penetrations, piping systems, etc., which were acceptable prior to the widening;
- [F52.3. the tightness of transverse or longitudinal bulkheads which are taken into account as effective to confine the assumed accumulated sea water in the compartment concerned in the damaged ro-ro deck shall be commensurate with the drainage system, and shall withstand hydrostatic pressure in accordance with the results of the damage calculation. Such bulkheads shall be at least 4 m in height unless the height of water is less than 0,5 m. In such cases the height of the bulkhead may be calculated in accordance with the following:

Bh = 8hw

where:

Bh is the bulkhead height; and hw is the height of water.

In any event, the minimum height of the bulkhead should be not less than 2,2 m. However, in case of a ship with hanging car decks, the minimum height of the bulkhead shall be not less than the height to the underside of the hanging deck when in its lowered position;]

Textual Amendments

- **F5** Substituted by Commission Directive 2005/12/EC of 18 February 2005 amending Annexes I and II to Directive 2003/25/EC of the European Parliament and of the Council on specific stability requirements for ro-ro passenger ships (Text with EEA relevance).
- 2.4. for special arrangements such as, e.g., full-width hanging decks and wide side casings, other bulkhead heights may be accepted on the basis of detailed model tests;
- 2.5. the effect of the volume of the assumed accumulated sea water need not be taken into account for any compartment of the damaged ro-ro deck, provided that such a compartment has on each side of the deck freeing ports evenly distributed along the sides of the compartment complying with the following:
- 2.5.1. $A \ge 0.31$
 - where A is the total area of freeing ports on each side of the deck in m²; and l is the length of the compartment in m;
- 2.5.2. the ship shall maintain a residual freeboard of at least 1,0 m in the worst damage condition without taking into account the effect of the assumed volume of water on the damaged ro-ro deck; and
- 2.5.3. such freeing ports shall be located within the height of 0,6 m above the damaged roro deck, and the lower edge of the ports shall be within 2 cm above the damaged roro deck; and
- 2.5.4. such freeing ports shall be fitted with closing devices or flaps to prevent water entering the ro-ro deck whilst allowing water which may accumulate on the ro-ro deck to drain.
- 2.6. When a bulkhead above the ro-ro deck is assumed damaged, both compartments bordering the bulkhead shall be assumed flooded to the same height of water surface as calculated in paragraph 1.1 or 1.3.
- 3. When determining significant wave height, the wave heights given on the maps or list of sea areas established by Member States in line with Article 5 of this Directive shall be used.
- 3.1. For ships which are to be operated only for a shorter season, the host State administration shall determine in agreement with the other country whose port is included in the ships route, the significant wave height to be used.
- 4. Model tests shall be conducted in accordance with the Appendix.

[F5Appendix

Model test method

1. Objectives

This revised model test method is a revision of the method contained in the Appendix to the Annex to resolution 14 of the 1995 SOLAS Conference. Since the entry into force of the Stockholm Agreement a number of model tests has been carried out in accordance with the test method previously in force. During these tests a number of refinements in the procedures have been identified. This new model test method aims to include these refinements and, together with the appended Guidance Notes, provide a more robust procedure for the assessment of survivability of a damaged ro-ro passenger ship in a seaway. In the tests provided for in paragraph 1.4 of the stability requirements included in Annex I, the ship should be capable of withstanding a seaway as defined in paragraph 4 hereunder in the worst-damage-case scenario.

2. Definitions

L_{BP}	is the length between perpendiculars
$\overline{\mathrm{H_{S}}}$	is the significant wave height
В	is the moulded breadth of the ship
T_{P}	is the peak period
$T_{\rm Z}$	is the zero crossing period

3. Ship model

- 3.1. The model should copy the actual ship for both outer configuration and internal arrangement, in particular all damaged spaces having an effect on the process of flooding and shipping of water. Intact draught, trim, heel and limiting operational KG corresponding to the worst damage case should be used. Furthermore, the test case(s) to be considered should represent the worst damage case(s) defined in accordance with SOLAS regulation II-1/8.2.3.2 (SOLAS 90) with regard to the total area under the positive GZ curve and the centreline of the damage opening should be located within the following range:
- 3.1.1. \pm 35 % L_{BP} from midship;
- 3.1.2. an additional test will be required for the worst damage within \pm 10 % L_{BP} from midship if the damage case referred to in .1 is outside of \pm 10 % L_{BP} from midship.
- 3.2. The model should comply with the following:
- 3.2.1. length between perpendiculars (L_{BP}) is to be at least 3 m or a length corresponding to a model scale of 1:40, whichever is greater, and the vertical extent up to at least three superstructure standard heights above the bulkhead (freeboard) deck;
- 3.2.2. hull thickness of flooded spaces should not exceed 4 mm;
- 3.2.3. in both intact and damaged conditions, the model should satisfy the correct displacement and draught marks (T_A, T_M, T_F, port and starboard) with a maximum tolerance in any one draught mark of + 2 mm. Draught marks forward and aft should be located as near FP and AP as practicable;

- 3.2.4. all damaged compartments and ro-ro spaces should be modelled with the correct surface and volume permeabilities (actual values and distributions) ensuring that floodwater mass and mass distribution are correctly represented;
- 3.2.5. the characteristics of motion of the actual ship should be modelled properly, paying particular attention to the intact GM tolerance and radii of gyration in roll and pitch motion. Both radii should be measured in air and be in the range of 0,35B to 0,4B for roll motion, and 0,2LOA to 0,25LOA for pitch motion;
- 3.2.6. main design features such as watertight bulkheads, air escapes, etc., above and below the bulkhead deck that can result in asymmetric flooding should be modelled properly as far as practicable to represent the real situation; Ventilating and cross-flooding arrangements should be constructed to a minimum cross section of 500 mm²;
- 3.2.7. the shape of the damage opening should be as follows:
- 1. trapezoidal profile with side at 15*o* slope to the vertical and the width at the design waterline defined according to SOLAS regulation II-1/8.4.1;
- 2. isosceles triangular profile in the horizontal plane with the height equal to B/5 according to SOLAS regulation II-1/8.4.2. If side casings are fitted within B/5, the damaged length in way of the side casings should not be less than 25 mm;
- 3. notwithstanding the provisions of subparagraphs 3.2.7.1 and 3.2.7.2 above, all compartments taken as damaged in calculating the worst damage case(s) referred to in paragraph 3.1 should be flooded in the model tests;
- 3.3. The model in the flooded equilibrium condition should be heeled by an additional angle corresponding to that induced by the heeling moment $M_h = \max{(M_{pass}, M_{launch})}$ - M_{wind} , but in no case should the final heel be less than 1o towards damage. M_{pass} , M_{launch} and M_{wind} are as specified in SOLAS regulation II-1/8.2.3.4. For existing ships this angle may be taken as 1o.
- 4. Procedure for experiments
- 4.1. The model should be tested in a long-crested irregular seaway defined by the JONSWAP spectrum with significant wave height HS, a peak enhancement factor $\gamma = 3.3$ and a peak period

$$T_P = 4\sqrt{H_S (T_Z = T_P / 1,285)}$$

. H_S is the significant wave height for the area of operation, which is not exceeded by a probability of more than 10 % on a yearly basis, but limited to a maximum of 4 m.

Furthermore,

- 4.1.1. the basin width should be sufficient to avoid contact or other interaction with the sides of the basin and is recommended not to be less than $L_{BP} + 2$ m;
- 4.1.2. the basin depth should be sufficient for proper wave modelling but should not be less than 1 m;
- 4.1.3. for a representative wave realisation to be used, measurements should be performed prior to the test at three different locations within the drift range;
- 4.1.4. the wave probe closer to the wave maker should be located at the position where the model is placed when the test starts;

- 4.1.5. variation in H_S and T_P should be within \pm 5 % for the three locations; and
- 4.1.6. during the tests, for approval purposes, a tolerance of $\pm 2.5\%$ in H_S , $\pm 2.5\%$ in H_P and $\pm 5\%$ in H_Z should be allowed with reference to the probe closer to the wave maker.
- 4.2. The model should be free to drift and placed in beam seas (90*o* heading) with the damage hole facing the oncoming waves, with no mooring system permanently attached to the model used. To maintain a beam sea heading of approximately 90*o* during the model test the following requirements should be satisfied:
- 4.2.1. heading control lines, intended for minor adjustment, should be located at the centre line of the stem and stern, in a symmetrical fashion and at a level between the position of KG and the damaged waterline; and
- 4.2.2. the carriage speed should be equal to the actual drift speed of the model with speed adjustment made when necessary.
- 4.3. At least 10 experiments should be carried out. The test period for each experiment should be of a duration such that a stationary state is reached, but not less than 30 min in full-scale. A different wave realisation train should be used for each experiment.
- 5. Survival criteria

The model should be considered as surviving if a stationary state is reached for the successive test runs as required in paragraph 4.3. The model should be considered as capsized if angles of roll of more than 300 to the vertical axis or steady (average) heel greater than 200 for a period longer than three minutes full-scale occur, even if a stationary state is reached.

- 6. Test documentation
- 6.1. The model test programme should be approved by the Administration in advance.
- 6.2. Tests should be documented by means of a report and a video or other visual records containing all relevant information on the model and the test results, which are to be approved by the Administration. These should include, as a minimum, the theoretical and measured wave spectra and statistics (H_S, T_P, T_Z) of the wave elevation at the three different locations in the basin for a representative realisation, and for the tests with the model, the time series of main statistics of the measured wave elevation close to the wave maker and records of model roll, heave and pitch motions, and of the drift speed.]

ANNEX II

INDICATIVE GUIDELINES TO NATIONAL ADMINISTRATIONS as referred to in Article 6(3)

PART I

APPLICATION

In line with the provisions of Article 6(3) of this Directive, these guidelines shall be used by the national administrations of Member States in the application of the specific stability

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requirements set out in Annex I, in so far as this is practicable and compatible with the design of the ship in question. The paragraph numbers appearing below correspond to those in Annex I. Paragraph 1

As a first step all ro-ro passenger ships referred to in Article 3(1) of this Directive must comply with the SOLAS 90 standard of residual stability as it applies to all passenger ships constructed on or after 29 April 1990. It is the application of this requirement that defines the residual freeboard f_r , necessary for the calculations required in paragraph 1.1. Paragraph 1.1

- 1. This paragraph addresses the application of a hypothetical amount of water accumulated on the bulkhead (ro-ro) deck. The water is assumed to have entered the deck via a damage opening. This paragraph requires that the ship in addition to complying with the full requirements of the SOLAS 90 standard further complies with that part of the SOLAS 90 criteria contained in points 2.3 to 2.3.4 of Regulation II-1/B/8 with the defined amount of water on deck. For this calculation no other requirements of Regulation II-1/B/8 need be taken into account. For example the ship does not, for this calculation, need to comply with the requirements for the angles of equilibrium or non-submergence of the margin line.
- 2. The accumulated water is added as a liquid load with one common surface inside all compartments which are assumed flooded on the car deck. The height (h_w) of water on deck is dependent on the residual freeboard (f_r) after damage, and is measured in way of the damage (see figure 1). The residual freeboard, is the minimum distance between the damaged ro-ro deck and the final waterline (after equalisation measures if any have been taken) in way of the assumed damage after examining all possible damage scenarios in determining the compliance with the SOLAS 90 standard as required in paragraph 1 of Annex I. No account should be taken of the effect of the hypothetical volume of water assumed to have accumulated on the damaged ro-ro deck when calculating f_r .
- 3. If f_r is 2,0 m or more, no water is assumed to accumulate on the ro-ro deck. If f_r is 0,3 m or less, then height h_w is assumed to be 0,5 m. Intermediate heights of water are obtained by linear interpolation (see figure 2).

Paragraph 1.2

Means for drainage of water can only be considered as effective if these means are of a capacity to prevent large amounts of water from accumulating on the deck i.e. many thousands of tonnes per hour which is far beyond the capacities fitted at the time of the adoption of these regulations. Such high efficiency drainage systems may be developed and approved in the future (based on guidelines to be developed by the International Maritime Organisation)

Paragraph 1.3

- 1. The amount of assumed accumulated water on deck may, in addition to any reduction in accordance with paragraph 1.1, be reduced for operations in geographically defined restricted areas. These areas are designated in accordance with the significant wave height (h_s) defining the area in line with the provisions of Article 5 of this Directive.
- 2. If the significant wave height (hs), in the area concerned, is 1,5 m or less then no additional water is assumed to accumulate on the damaged ro-ro deck. If the significant wave height in the area concerned is 4,0 m or more then the height of the assumed accumulated water shall be the value calculated in accordance with paragraph 1.1. Intermediate values to be determined by linear interpolation (see figure 3).

- 3. The height h_w is kept constant, therefore the amount of added water is variable as it is dependent upon the heeling angle and whether at any particular heeling angle the deck edge is immersed or not (see figure 4). It should be noted that the assumed permeability of the car deck spaces is to be taken as 90 % (MSC/Circ.649 refers), whereas other assumed flooded spaces permeabilities are to be those prescribed in the SOLAS Convention.
- 4. If the calculations to demonstrate compliance with this Directive relate to a significant wave height less than 4,0 m that restricting significant wave height must be recorded on the vessel's passenger ship safety certificate.

Paragraphs 1.4 and 1.5

As an alternative to complying with the new stability requirements in paragraph 1.1 or 1.3 an administration may accept proof of compliance via model tests. The model test requirements are detailed in the Appendix to Annex I. Guidance notes on the model tests are contained in part II of this Annex.

Paragraph 1.6

Conventionally derived SOLAS 90 standard limiting operational curve(s) (KG or GM) may not remain applicable in cases where 'water on deck' is assumed under the terms of this Directive and it may be necessary to determine revised limiting curve(s) which take into account the effects of this added water. To this effect sufficient calculations corresponding to an adequate number of operational draughts and trims must be carried out.

Note: Revised limiting operational KG/GM Curves may be derived by iteration, whereby the minimum excess GM resulting from damage stability calculations with water on deck is added to the input KG (or deducted from the GM) used to determine the damaged freeboards (f_r), upon which the quantities of water on deck are based, this process being repeated until the excess GM becomes negligible.

It is anticipated that operators would begin such an iteration with the maximum KG/minimum GM which could reasonably be sustained in service and would seek to manipulate the resulting deck bulkhead arrangement to minimisethe excess GM derived from damage stability calculations with water on deck.

Paragraph 2.1

As for conventional SOLAS damage requirements bulkheads inboard of the B/5 line are considered intact in the event of side collision damage. Paragraph 2.2

If side structural sponsons are fitted to enable compliance with Regulation II-1/B/8, and as a consequence there is an increase in the breadth (B) of the ship and hence the vessel's B/5 distance from the ship's side, such modification shall not cause the relocation of any existing structural parts or any existing penetrations of the main transverse watertight bulkheads below the bulkhead deck (see figure 5).

Paragraph 2.3

1. Transverse or longitudinal bulkheads/barriers which are fitted and taken into account to confine the movement of assumed accumulated water on the damaged ro-ro deck need not be strictly 'watertight'. Small amounts of leakage may be permitted subject to the drainage provisions being capable of preventing an accumulation of water on the 'other side' of the bulkhead/barrier. In such cases where scuppers become inoperative as a result of a loss of positive difference of water levels other means of passive drainage must be provided.

- 2. The height (B_h) of transverse and longitudinal bulkheads/barriers shall be not less than $(8 \times h_w)$ metres, where h_w is the height of the accumulated water as calculated by application of the residual freeboard and significant wave height (as referred to in paragraphs 1.1 and 1.3). However in no case is the height of the bulkhead/barrier to be less than the greater of:
- (a) 2,2 metres; or
- (b) the height between the bulkhead deck and the lower point of the underside structure of the intermediate or hanging car decks, when these are in their lowered position. It should be noted that any gaps between the top edge of the bulkhead and the underside of the plating must be 'plated-in' in the transverse or longitudinal direction as appropriate (see figure 6).

Bulkheads/barriers with a height less than that specified above, may be accepted if model tests are carried out in accordance with part II of this Annex to confirm that the alternative design ensures appropriate standard of survivability. Care needs to be taken when fixing the height of the bulkhead/barrier such that the height shall also be sufficient to prevent progressive flooding within the required stability range. This range is not to be prejudiced by model tests.

Note: The range may be reduced to 10 degrees provided the corresponding area under the curve is increased (as referred to in MSC 64/22).

Paragraph 2.5.1

The area 'A' relates to permanent openings. It should be noted that the 'freeing ports' option is not suitable for ships which require the buoyancy of the whole or part of the superstructure in order to meet the criteria. The requirement is that the freeing ports shall be fitted with closing flaps to prevent water entering, but allowing water to drain.

These flaps must not rely on active means. They must be self-operating and it must be shown that they do not restrict outflow to a significant degree. Any significant efficiency reduction must be compensated by the fitting of additional openings so that the required area is maintained. Paragraph 2.5.2

For the freeing ports to be considered effective the minimum distance from the lower edge of the freeing port to the damaged waterline shall be at least 1,0 m. The calculation of the minimum distance shall not take into account the effect of any additional water on deck (see figure 7). Paragraph 2.5.3

Freeing ports must be sited as low as possible in the side bulwark or shell plating. The lower edge of the freeing port opening must be no higher than 2 cm above the bulkhead deck and the upper edge of the opening no higher than 0,6 m (see figure 8).

Note: Spaces to which paragraph 2.5 applies, i.e. those spaces fitted with freeing ports or similar openings, shall not be included as intact spaces in the derivation of the intact and damage stability curves.

Paragraph 2.6

1. The statutory extent of damage is to be applied along the length of the ship. Depending on the subdivision standard the damage may not affect any bulkhead or may only affect a bulkhead below the bulkhead deck or only bulkhead above the bulkhead deck or various combinations.

- 2. All transverse and longitudinal bulkheads/barriers which constrain the assumed accumulated amount of water must be in place and secured at all times when the ship is at sea.
- 3. In those cases where the transverse bulkhead/barrier is damaged the accumulated water on deck shall have a common surface level on both sides of the damaged bulkhead/barrier at the height h_w (see figure 9).

[F5PART II

MODEL TESTING

The purpose of these guidelines is to ensure uniformity in the methods employed in the construction and verification of the model as well as in the undertaking and analyses of the model tests.

The contents of paragraphs 1 and 2 of the Appendix to Annex I are considered self-explanatory. Paragraph 3 — Ship model

3.1. The material of which the model is made is not important in itself, provided that the model both in the intact and damaged condition is sufficiently rigid to ensure that its hydrostatic properties are the same as those of the actual ship and also that the flexural response of the hull in waves is negligible.

It is also important to ensure that the damaged compartments are modelled as accurately as practicably possible to ensure that the correct volume of flood water is represented.

Since ingress of water (even small amounts) into the intact parts of the model will affect its behaviour, measures must be taken to ensure that this ingress does not occur.

In model tests involving worst SOLAS damages near the ship ends, it has been observed that progressive flooding was not possible because of the tendency of the water on deck to accumulate near the damage opening and hence flow out. As such models were able to survive very high sea states, while they capsized in lesser sea states with less onerous SOLAS damages, away from the ends, the limit \pm 35 % was introduced to prevent this.

Extensive research carried out for the purpose of developing appropriate criteria for new vessels has clearly shown that in addition to the GM and freeboard being important parameters in the survivability of passenger ships, the area under the residual stability curve is also another major factor. Consequently in choosing the worst SOLAS damage for compliance with the requirement of paragraph 3.1 the worst damage is to be taken as that which gives the least area under the residual stability curve.

- 3.2. Model particulars
- 3.2.1. In recognising that scale effects play an important role in the behaviour of the model during tests, it is important to ensure that these effects are minimised as much as practically possible. The model should be as large as possible since details of damaged compartments are easier constructed in larger models and the scale effects are reduced. It is therefore required that the model length is not less than that corresponding to 1:40 scale or 3 m, whichever is greater.

It has been found during tests that the vertical extent of the model can affect the results when tested dynamically. It is therefore required that the ship is modelled to at least three super

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structure standard heights above the bulkhead (freeboard) deck so that the large waves of the wave train do not break over the model.

- 3.2.2. The model in way of the assumed damages must be as thin as practically possible to ensure that the amount of flood water and its centre of gravity is adequately represented. The hull thickness should not exceed 4 mm. It is recognised that it may not be possible for the model hull and the elements of primary and secondary subdivision in way of the damage to be constructed with sufficient detail and due to these constructional limitations it may not be possible to calculate accurately the assumed permeability of the space.
- 3.2.3. It is important that not only the draughts in the intact condition are verified, but also that the draughts of the damaged model are accurately measured for correlation with those derived from the damaged stability calculation. For practical reasons a tolerance of + 2 mm in any draught is accepted.
- 3.2.4. After measuring the damaged draughts it may be found necessary to make adjustments to the permeability of the damaged compartment by either introducing intact volumes or by adding weights. However it is also important to ensure that the centre of gravity of the flood water is accurately represented. In this case any adjustments made must err on the side of safety.

If the model is required to be fitted with barriers on deck and the barriers are less than the bulkhead height indicated below, the model is to be fitted with CCTV so that any 'splashing over' and any accumulation of water on the undamaged area of the deck can be monitored. In this case a video recording of the event is to form part of the test records.

The height of transverse or longitudinal bulkheads which are taken into account as effective to confine the assumed accumulated sea water in the compartment concerned in the damaged roro deck should be at least 4 m in height unless the height of water is less than 0,5 m. In such cases the height of the bulkhead may be calculated in accordance with the following:

 $B_h = 8h_w$ where B_h is the bulkhead height; and h_w is the height of water.

In any event, the minimum height of the bulkhead should be not less than 2,2 m. However, in the case of a ship with hanging car decks, the minimum height of the bulkhead should be not less than the height to the underside of the hanging car deck when in its lowered position.

3.2.5. In order to ensure that the model motion characteristics represent those of the actual ship it is important that the model is both inclined and rolled in the intact condition so that the intact GM and the mass distribution are verified. The mass distribution should be measured in air. The transverse radius of gyration of the actual ship should be in the range 0,35B to 0,4B and the longitudinal radius of gyration should be in the range 0,2L to 0,25L.

Note: While inclining and rolling the model in the damaged condition may be accepted as a check for the purpose of verifying the residual stability curve, such tests should not be accepted in lieu of the intact tests.

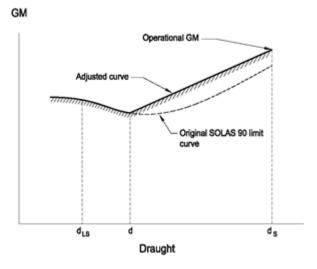
3.2.6. It is assumed that the ventilators of the damage compartment of the actual ship are adequate for unhindered flooding and movement of the flood water. However in trying to scale down the ventilating arrangements of the actual ship undesirable scale effects may be introduced in the model. In order to ensure that no such effects occur it is

- recommended to construct the ventilating arrangements to a larger scale than that of the model, ensuring that this does not affect the flow of water on the car deck.
- 3.2.7. It is deemed appropriate to consider a damage shape representative of a cross section of the striking ship in the bow region. The 15° angle is based on a study of the cross section at a distance of B/5 from the bow for a representative selection of vessels of different types and sizes.

The isosceles triangular profile of the prismatic damage shape is that corresponding to the load waterline.

Additionally in cases where side casings of width less than B/5 are fitted and in order to avoid any possible scale effects, the damage length in way of the side casings must not be less than 25 mm.

- 3.3. In the original model test method of resolution 14 of the 1995 SOLAS Conference the effect of heeling induced by the maximum moment deriving from any of passenger crowding, launching of survival craft, wind and turning was not considered even though this effect was part of SOLAS. Results from an investigation have shown, however, that it would be prudent to take these effects into account and to retain the minimum of 1° heel towards the damage for practical purposes. It is to be noted that heeling due to turning was considered not to be relevant.
- 3.4. In cases where there is a margin in GM in the actual loading conditions compared to the GM limiting curve (derived from SOLAS 90), the Administration may accept that this margin is taken advantage of in the model test. In such cases the GM limiting curve should be adjusted. This adjustment can be done as follows:



 $d = d_{S} - 0.6 (d_{S} - d_{LS})$

where: d_S is the subdivision draught; and d_{LS} is the lightship draught.

The adjusted curve is a straight line between the GM used in the model test at the subdivision draught and the intersection of the original SOLAS 90 curve and draught d. Paragraph 4 — Procedure for experiments

4.1. Wave spectra

The JONSWAP spectrum should be used as this describes fetch- and duration- limited seas which correspond to the majority of conditions world wide. In this respect it is important that not only the peak period of the wave train is verified but also that the zero crossing period is correct.

It is required that for every test run the wave spectrum is recorded and documented. Measurements for this recording should be taken at the probe closest to the wave making machine.

It is also required that the model is instrumented so that its motions (roll, heave and pitch) as well as its attitude (heel, sinkage and trim) are monitored and recorded through-out the test.

It has been found that it is not practical to set absolute limits for significant wave heights, peak periods and zero crossing periods of the model wave spectra. An acceptable margin has therefore been introduced.

- 4.2. To avoid interference of the mooring system with the ship dynamics, the towing carriage (to which the mooring system is attached) should follow the model at its actual drifting speed. In a sea state with irregular waves the drift speed will not be constant; a constant carriage speed would result in low frequency, large amplitude drift oscillations, which may affect the model behaviour.
- 4.3. A sufficient number of tests in different wave trains is necessary to ensure statistical reliability, i.e. the objective is to determine with a high degree of confidence that an unsafe ship will capsize in the selected conditions. A minimum number of 10 runs is considered to provide a reasonable level of reliability.

Paragraph 5 — Survival criteria

The contents of this paragraph are considered self-explanatory. Paragraph 6 — Test approval

The following documents are to be part of the report to the administration:

- (a) damage stability calculations for worst SOLAS and mid-ship damage (if different);
- (b) general arrangement drawing of the model together with details of construction and instrumentation;
- (c) inclining experiment and measurements of radii of gyration;
- (d) nominal and measured wave spectra (at the three different locations for a representative realisation and for the tests with the model from the probe closest to the wave maker);
- (e) representative record of model motions, attitude and drift;
- (f) relevant video recordings.

Note:

All tests must be witnessed by the administration.]

- (1) OJ C 20 E, 28.1.2003, p. 21.
- (2) Opinion delivered on 11 December 2002 (not yet published in the Official Journal).
- (3) Opinion of the European Parliament of 7 November 2002 (not yet published in the Official Journal), and Council Decision of 17 March 2003.
- (4) OJ L 144, 15.5.1998, p. 1; Directive as last amended by Directive 2002/84/EC of the European Parliament and of the Council (OJ L 324, 29.11.2002, p. 53).
- (5) OJ C 178, 22.6.2001, p. 288.
- (6) OJL 138, 1.6.1999, p. 1. Directive as amended by Directive 2002/84/EC of the European Parliament and of the Council.
- (7) OJ L 184, 17.7.1999, p. 23.
- (8) [F2OJ L 123, 12.5.2016, p. 1.]

Textual Amendments

F2 Inserted by Regulation (EU) 2019/1243 of the European Parliament and of the Council of 20 June 2019 adapting a number of legal acts providing for the use of the regulatory procedure with scrutiny to Articles 290 and 291 of the Treaty on the Functioning of the European Union (Text with EEA relevance).