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Economic Commission for Europe**Inland Transport Committee****Working Party on the Transport of Dangerous Goods****Joint Meeting of Experts on the Regulations annexed to the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (ADN Safety Committee)****Twenty-sixth session**

Geneva, 26–30 January 2015

Item 5 (b) of the provisional agenda

**Proposals for amendments to the Regulations annexed to ADN:
Other proposals****Explosion protection on tank vessels****Note by the secretariat¹**

1. At its twenty-fifth session, the Safety Committee noted with satisfaction that the informal working group on explosion protection on tank vessels had formulated proposals for handling cases of refrigerated containers (“reefers”) together with electrical equipment.

2. It adopted the amendments to 7.1.3.51.4 and 7.1.4.4.4 proposed in informal document INF.15 with some changes and requested the secretariat to submit the amended text as a working document for confirmation at the next session (see ECE/TRANS/WP.15/AC.2/52, para. 52). The proposals appear below.

Proposal

3. Insert a new paragraph 7.1.4.4.4 to read as follows:

“7.1.4.4.4 Containers with electrical equipment are allowed to be connected with removable electric cables according to 9.1.0.56 or to be put into operation only if:

(a) The electrical equipment is of a certified safe type;

¹ Distributed in German by the Central Commission for the Navigation of the Rhine under the symbol CCNR-ZKR/ADN/WP.15/AC.2/2015/2.

or

(b) The source of ignition of the container is separated sufficiently from containers containing substances of:

- Class 2 for which a label No. 2.1 is required in column (5) of Table A of Chapter 3.2;
- Class 3, packing group I or II;
- Class 4.3;
- Class 6.1; packing group I or II, with an additional hazard of Class 4.3;
- Class 8, packing group I, with an additional hazard of Class 3; and
- Class 8, packing group I or II, with an additional hazard of Class 4.3.

This condition is deemed to be met if no container containing the above-mentioned substances is stowed within an area of cylindrical form with a radius of 2.4 m around the source of ignition and an unlimited vertical extension.

This condition does not apply if containers which are not of a certified safe type and containers containing the above-mentioned substances are stowed in separate holds."

4. Consequential amendment: amend 7.1.3.51.4 to read as follows:

"7.1.3.51.4 The electrical installations in the holds shall be kept switched off and protected against unintentional connection.

This provision does not apply to permanently installed cables passing through the holds, to movable cables connecting containers, stowed according to 7.1.4.4.4, and to apparatus of a "certified safe type"."

Annex

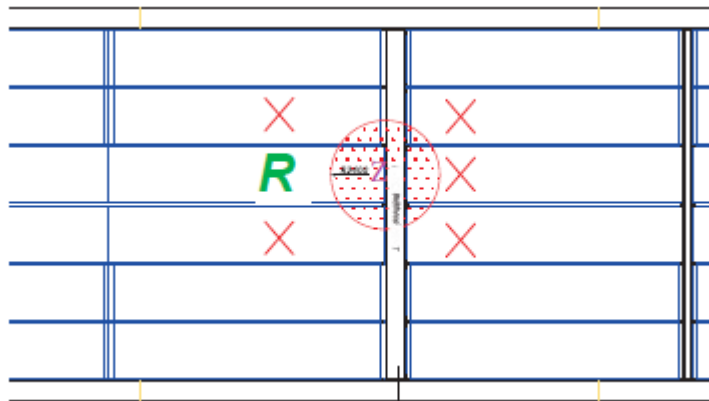
Examples of mixed loading

Legend

- X Dangerous goods not allowed.
- R Container with non-explosion-proof electrical equipment (reefer).
- Z Source of ignition.

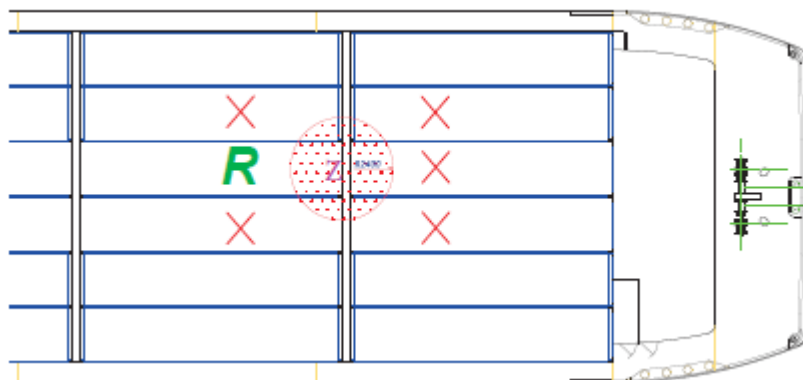
Top view

1. On deck



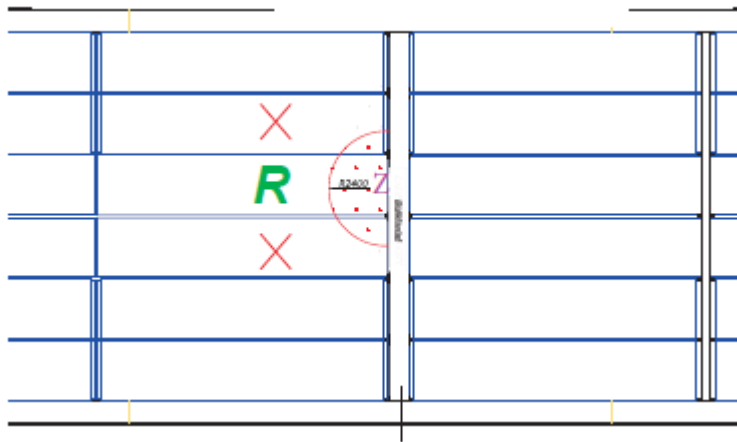
Top view

2. In the hold



Top view

2. In the hold



Font view

Front view

