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Economic Commission for Europe**Inland Transport Committee****Working Party on the Transport of Perishable Foodstuffs****Seventieth session**

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Items 5 (a) and 6 of the provisional agenda

Proposals of amendments to the ATP: pending proposals**ATP Handbook****Proposal to amend annex 1, appendices 2, 3 and 4:
Multi-temperature equipment – certification and
distinguishing mark****Transmitted by the Government of Germany***Summary*

Executive summary: The present version of ATP does not include marking requirements for multi-temperature equipment, i.e. the external marking does not allow the distinction between multi- and mono- temperature equipment. It is proposed that the marking of multi-temperature equipment display the distinguishing mark for the highest ATP class supplemented by the letter M (e.g. FRC-M) regardless of the total number of independently refrigerated compartments. Additional and more detailed information is provided in a supplementary document to the certificate of conformity issued by the competent authority of the country of manufacture.

Action to be taken: Amend annex 1, appendices 2, 3 and 4

Related documents: ECE/TRANS/WP.11/2013/4, ECE/TRANS/WP.11/2013/11 part II, Informal document INF 7

Introduction

1. The present version of annex 1, appendix 4 covers insulated equipment which may be refrigerated, mechanically refrigerated or heated with respect to placing distinguishing

marks onto the external surface of the equipment. The same distinguishing mark is indicated on the certification plate as required in annex 1, appendix 1, paragraph 3.

2. The present version of ATP does not include marking requirements for multi-temperature equipment, i.e. the external marking does not allow the distinction between multi- and mono- temperature equipment. Marking of equipment has to be based on the needs of control authorities and users and should be understood in an unambiguous way by all users regardless of whether the separating bulkheads are fixed, movable or removable. Multi-temperature vehicles may be designed for up to six independent temperature zones allowing fixed or variable temperature configurations within these zones.

3. At the 69th session of WP.11 the following documents were presented, all focusing on the topic of marking of multi-temperature equipment: ECE/TRANS/WP.11/2013/4 (Portugal), ECE/TRANS/WP.11/2013/11, part II (France) and Informal document INF. 7 (Netherlands).

4. The outcome of the discussions revealed that minimum external marking of multi-temperature equipment is necessary. Detailed markings cannot represent the variety of available equipment configurations. Instead, a simple and pragmatic solution is needed to bridge this gap.

Proposal

5. It is proposed that the marking of multi-temperature equipment displays the distinguishing mark for the highest ATP class supplemented by the letter M (e.g. FRC-M) regardless of the total number of independently refrigerated compartments in use.

6. Additional and more detailed information should be provided in a supplementary document to the certificate of conformity issued by the competent authority of the country of manufacture.

7. This supplementary document should include:

- A sketch showing the actual compartment configuration and evaporator arrangement;
- Proof by calculation that the multi-temperature refrigerated equipment meets the requirements of ATP for the user's intended degree of freedom with regard to compartment temperatures and compartment dimensions.

8. The ATP Handbook needs to be amended by making a reference to the calculation tool to be used for this purpose.

9. Upon implementation of these requirements, multi-temperature equipment will be more transparent with respect to operational capability and restrictions which is to the benefit of all parties involved - equipment operators, perishable cargo shippers, equipment manufacturers and competent authorities.

Required amendments

10. In annex 1, appendix 4, add the following text after the present text:

"In the case of multi-temperature equipment the distinguishing mark shall be selected only for the highest ATP class and supplemented by the letter M (example: FRC-M)."

11. In annex 1, appendix 2, add the following text after the present text of 8.3.6:

"A declaration of conformity shall be provided in a supplementary document to the certificate of conformity issued by the competent authority of the country of manufacture.

This document shall include at least:

- A sketch showing the actual compartment configuration and evaporator arrangement;

- Proof by calculation that the multi-temperature refrigerated equipment meets the requirements of ATP for the user's intended degree of freedom with regards to compartment temperatures and compartment dimensions."

12. Amend annex 1, appendix 3, model form of certificate of compliance, by adding a blank page headed "Supplement for multi-temperature equipment:".

13. Add the following comment to annex 1, appendix 2 of the ATP Handbook:

"Comment to paragraph 8.3.1

Calculations in conformity with item 8.3 shall be carried out using a validated calculation tool approved by the competent authority.

Such a multi-temperature calculator may be obtained from Transfrigoroute International."

Cost: Minor cost implications may arise for equipment manufacturers resulting from the supplement to the certificate of compliance to be issued by competent authorities. Competent authorities may need to build up necessary technical competencies for the issuance of these supplements.

Feasibility: The new marking of multi-temperature equipment will be easily implemented by equipment manufacturers. No transitional period is needed.

Issuance of the complementary documentation by the competent authority will require a validated calculation tool to be available and used. A transitional period of a maximum of 2 years for implementation is recommended. Within this period, familiarization with the calculation tool may take place by all parties involved, competent authorities and equipment manufacturers.

Enforceability: No problems are expected.
