

**Economic and Social Council**Distr.: General  
10 August 2021

Original: English

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

Geneva, 26-29 October 2021

Item 5 (b) of the provisional agenda

**Proposals of amendments to ATP:  
new proposals****Proposal to amend Annex 1, Appendix 1, paragraphs 6 (a)  
and (b) and Annex 1, Appendix 2, Model No. 12  
Validity of test reports for mechanical refrigeration units****Submitted by the Government of Germany***Summary*

|                            |  |
|----------------------------|--|
| <b>Executive summary:</b>  | <p>At the seventy-first session in 2015, the United Kingdom transmitted proposal ECE/TRANS/WP.11/2015/1, which resulted in a limitation of the validity to 6 years for Type Approval Certificates of mechanical refrigerating units.</p> <p>If no modifications relevant to ATP are carried out to a refrigeration unit, a re-test of a formerly approved type of refrigeration unit only repeats the results of the first test and does not lead to any new findings. Therefore, it should be possible to extend the validity of a Type Approval Certificate for an unmodified refrigeration unit based on the verification by the competent authority stating that the refrigeration unit is manufactured in conformity with the formerly approved type.</p> |
| <b>Action to be taken:</b> | Amend Annex 1, Appendix 1, paragraphs 6 (a) and (b) and Annex 1, Appendix 2, Model No. 12  |
| <b>Related documents:</b>  | ECE/TRANS/WP.11/2015/1, ECE/TRANS/WP.11/2018/13, ECE/TRANS/WP.11/2019/4, ECE/TRANS/WP.11/2020/10   |

**Introduction**

1. At the seventy-first session in 2015, the United Kingdom transmitted proposal ECE/TRANS/WP.11/2015/1, which resulted in the following addendum to Model No. 12, Annex 1, Appendix 2:



“According to the above test results, this report shall be valid as a certificate of type approval within the meaning of ATP Annex 1, Appendix 1, paragraph 6 (a) only for a period of not more than six years, that is until .....”

2. Before this addendum came into effect, the validity of Type Approval Certificates for refrigeration units had not been subject to any time limitation if no modifications relevant to ATP had been carried out to the formerly approved type.

3. If no modifications with a negative impact on the refrigerating capacities are carried out to a refrigeration unit, a re-test of a formerly approved type of refrigeration unit will only repeat the results of the first test. It will not result in any new findings or in an improvement of food safety but will lead to a competitive disadvantage, especially for small and medium-sized manufacturers and finally to a distortion of competition. This has been confirmed and proven by several re-tests carried out on mechanical refrigeration units during the last years.

4. For small and medium-sized manufacturers of refrigeration units, the limitation of the validity of test reports presents a serious economic burden, since these manufacturers often follow the specific needs of their customers. Consequently, they offer a wide range of specifically designed products, which are usually manufactured in small numbers, very different to mass production.

5. Once such a manufacturer obtains a test report, the tested refrigeration unit will not be modified for years. The costs and effort involved in mandatory re-tests at 6-year intervals for these unmodified refrigeration units are unreasonably high, especially for multi-temperature units, and lead to a competitive disadvantage for small and medium-sized manufacturers and finally to a distortion of competition.

6. At the seventy-fourth, seventy-fifth and seventy-sixth sessions of WP.11, Germany submitted proposals for taking into account the interests of small and medium-sized manufacturers. The members of the WP.11 agreed in principle but asked Germany to add a list of major components. The new proposal now includes this list and limits the extension of the original test reports to three more years. This leads to a maximum validation of nine years, if no modifications relevant to ATP are carried out to the formerly approved type.

## Proposed amendment

7. Amend Annex 1, Appendix 1, paragraphs 6 (a) and (b) as follows:

6 (a)

*(i) New ~~equipment~~ appliances of a specific type serially produced may be approved by testing one ~~unit~~ appliance of that type. If the ~~unit~~ appliance tested meets the class specification, the resulting test report shall be regarded as a Type Approval Certificate. This **Type Approval Certificate** shall expire at the end of a period of six years, beginning from the date of completion of the test.*

*(ii) New thermal appliances of a specific type serially produced may be approved by testing one thermal appliance of that type. The resulting test report shall be regarded as a Type Approval Certificate. This **Type Approval Certificate** shall expire at the end of a period of six years, beginning from the date of completion of the test*

*In case of mechanically refrigerating units, if no modifications relevant to ATP is carried out to a formerly approved type, the validity of the Type Approval Certificate for the respective refrigeration unit may be extended for a period of 3 years based on the verification by the competent authority stating that the refrigeration unit is manufactured in conformity with the formerly approved type.*

*The date of expiry of test reports shall be stated in months and years.*

*6 (b) The competent authority shall take steps to verify that production of ~~other units~~ all appliances is in conformity with the approved type. For this purpose ~~the~~ competent authority of the country of manufacturing may check by testing sample ~~units~~ appliances drawn at random from the production series.*

8. Insert the following text in Annex 1, Appendix 2, Model No. 12 after (d) Remarks:

***New Type Approval:***

*According to the above test results, this report shall be valid as a certificate of new type approval within the meaning of ATP Annex 1, Appendix 1, paragraph 6 (a) only for a period of not more than six years, that is until: .....*

***Extension Type Approval:***

*According to the above test results and the below List of Major Components, which must be equal, equivalent to, or better, this report shall be getting an extended validation as a certificate within the meaning of ATP Annex 1, Appendix 1, paragraph 6 (a) only once for a period of not more than three years, that is until: .....*

***List of Major Components based on the above Test Report:***

|   |  |                                 |
|---|--|---------------------------------|
| <b><i>Refrigerant</i></b>   | <b><i>Refrigerant fluid</i></b>                        |                                 |
|   | <b><i>Refrigerant charge</i></b>                       | <b><i>Kg</i></b>                |
| <b><i>Compressor</i></b>  | <b><i>Type</i></b>                                     |                                 |
|   | <b><i>Number of cylinders</i></b>                      |                                 |
|   | <b><i>Cubic capacity</i></b>                           | <b><i>Cc</i></b>                |
|   | <b><i>Nominal speed of rotation</i></b>                | <b><i>Rpm</i></b>               |
| <b><i>Heat exchangers</i></b><br><b><i>(Condenser, Evaporator(s))</i></b> | <b><i>Type</i></b>                                     |                                 |
|   | <b><i>Number of tubes</i></b>                          |                                 |
|   | <b><i>Fan pitch</i></b>                                | <b><i>Mm</i></b>                |
|   | <b><i>Nature of tube</i></b>                           |                                 |
|   | <b><i>Diameter of tube</i></b>                         | <b><i>Mm</i></b>                |
|   | <b><i>Exchange surface area</i></b>                    | <b><i>m<sup>2</sup></i></b>     |
|   | <b><i>Frontal area</i></b>                             | <b><i>m<sup>2</sup></i></b>     |
| <b><i>Fans of Heat Exchangers</i></b>                                     | <b><i>Number of fans</i></b>                           |                                 |
|   | <b><i>Number of blade per fan</i></b>                  |                                 |
|   | <b><i>Diameter of fan</i></b>                          | <b><i>Mm</i></b>                |
|   | <b><i>Nominal power</i></b>                            | <b><i>W</i></b>                 |
|   | <b><i>Total nominal output at defined pressure</i></b> | <b><i>(m<sup>3</sup>/h)</i></b> |
|   | <b><i>Method of drive</i></b>                          |                                 |
| <b><i>Expansion valve</i></b>   | <b><i>Type</i></b>                                     |                                 |
| <b><i>Compressor drive</i></b>  |  |                                 |
| <b><i>Electrical motor</i></b>  | <b><i>Type</i></b>                                     |                                 |
|   | <b><i>Nominal power</i></b>                            | <b><i>kW</i></b>                |
|   | <b><i>Nominal speed</i></b>                            | <b><i>Rpm</i></b>               |
|   | <b><i>Supply voltage</i></b>                           | <b><i>V</i></b>                 |
|   | <b><i>Supply frequency</i></b>                         | <b><i>Hz</i></b>                |
| <b><i>Internal Combustion Engine</i></b>                                  | <b><i>Type</i></b>                                     |                                 |
|   | <b><i>Number of cylinders</i></b>                      |                                 |
|   | <b><i>Cubic capacity</i></b>                           | <b><i>Cc</i></b>                |
|   | <b><i>Nominal power</i></b>                            | <b><i>kW</i></b>                |
|   | <b><i>Nominal speed</i></b>                            | <b><i>Rpm</i></b>               |
|   | <b><i>Fuel</i></b>                                     |                                 |
| <b><i>Hydraulic motor</i></b>   | <b><i>Type</i></b>                                     |                                 |
|   | <b><i>Method of drive</i></b>                          |                                 |

|                         |  |                          |
|-------------------------|--|--------------------------|
| <i>Alternator</i>       | <i>Type</i><br><i>Method of drive</i>        |                          |
| <i>Other mechanical</i> | <i>Nominal speed</i><br><i>Minimum speed</i> | <i>Rpm</i><br><i>Rpm</i> |

## **Impact**

- Cost: The costs for re-tests of unmodified formerly approved types of refrigeration units will be significantly reduced.
- Environment: No impact.
- Feasibility: The proposed amendment can easily be implemented in ATP. A transitional period is not needed.
- Enforceability: No problems are expected.
-