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## 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**

## **Temporary ATP certificates for prototype equipment for Field Trial Testing**

### **Transmitted by Transfrigoroute International (TI)**

#### *Summary*

**Executive summary:** This proposal seeks to establish an agreed process to permit the use of a limited number of pieces of prototype equipment prior to the submission of said equipment for type approval testing as described in Annex 1, Appendix 2 sections 2 or 3 of the ATP.

**Action to be taken:** Amendment of Annex 1, Appendix 1, section 1 and Annex 1, Appendix 2

**Related documents:** ECE/TRANS/WP.11/2019/23

## **Introduction**

1. Manufacturers of insulated body, or thermal appliances need to develop new products to satisfy the changing needs of the temperature-controlled transport industry. The primary aims of this development are to produce more energy efficient equipment, introduce new technologies, conform to the demand for lower GWP refrigerants, new power trains and lower environmental impact.
2. To ensure optimum operating performance under all climatic conditions, this prototype equipment requires to be tested under real life operating conditions across a range of ambient conditions ranging from very low to very high condensing and evaporating temperatures (i.e. Field Trial Testing). This requires the equipment to pass through many of the territories of many contracting parties to the ATP to effect this testing prior to entering into series production.
3. This proposal seeks to establish an agreed process to permit the use of a limited number of pieces of equipment prior to the submission of said equipment for type approval testing as described in Annex 1, Appendix 2 sections 2 or 3 of the ATP. The maximum period



of this limited approval would be restricted to 12 months, with a possibility of a further extension of 12 months subject to the approval of the relevant competent authority.

## I. Proposal

4. Section of ATP concerns by the proposal:                      Annex 1, Appendix 1, section 1  
   Annex 1, Appendix 2

In Annex 1, Appendix 1, section 1, replace “Except in the cases provided for in appendix 2, section 5 and 6, to this annex” by “Except in the cases provided for in appendix 2, section 5, 6 and 10, to this annex”

In Annex 1, Appendix 2, insert a new section 10 to read as follows:

“10. Temporary ATP certificate for prototype equipment

At the request of the manufacturer, a temporary ATP certificate for prototype equipment is allowed on the following conditions:

- (a) The equipment manufacturer would seek approval from an ATP competent authority of their choice between
  - where the manufacturer is based
  - where the equipment is to be built up
  - where the equipment is to be operated, registered or recorded
- (b) The total number of pieces of prototype equipment shall be limited to 50;
- (c) When making application to the relevant competent authority the equipment manufacturer undertakes to submit the series production equipment for type approval testing as described in Annex 1, Appendix 2 sections 2 or 3 of the ATP at the end of the Field Trial testing period allowing sufficient time for any necessary modifications identified as a result of the testing to be incorporated in the series production equipment;
- (d) Prior to commencing the Field Trial, the equipment manufacturer shall provide, on a confidential basis,
  - (i) documented evidence of the characteristics of the main components of the prototype equipment,
  - (ii) For thermal appliance prototype, a detailed description of the operation of the thermal appliance
  - (iii) For thermal appliance prototype, preliminary calorimeter testing data indicating cooling and, where necessary, heating capacities (P nom) at each of the ATP designated temperature test points,
  - (iv) In case of different version of prototype equipment are proposed, the conditions set out under (i), (ii) and (iii) shall be satisfied for each individual version,
- (e) The maximum period of the temporary ATP certificate shall be 12 months from the commencement of the Field Trial test period. This date shall be agreed between the competent authority and the manufacturer. The possibility to extend the test period for a further period, not exceeding 12 months, may be approved by the relevant competent authority.
- (h) For thermal appliance, an efficiency test according to Annex 1, Appendix 2 section 6 must be successfully carried out for each individual equipment prior to commencing the Field Trial. ”

## II. Justification

- Cost:** Cost implication is marginal and will be supported by equipment manufacturer.
- Feasibility:** This proposal would concern mainly manufacturer of insulated body, and thermal appliances, and competent authority.
- The proposal, if adopted, would accelerate the development of more modern, energy efficient and environmentally friendly technologies necessary to meet the evolving needs of the temperature-controlled transport industry.
- This proposal could be implemented without transitional period.
- Impact:** The development of more energy efficient equipment and low GWP refrigerant system would reduce operating costs for transporters as well as lowering emissions and carbon footprint from transport equipment in line with reduction targets set out under the Paris Accord and Kigali treaty as well as improving air quality in urban areas.
- Enforceability:** All the request and delivery of temporary ATP certificate for prototype equipment will be fully control by an ATP competent authority.
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