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Working Party on the Transport of Perishable Foodstuffs (Fifty-seventh session, Geneva, 12-15 November 2001)

PROPOSED AMENDMENTS TO THE ATP AGREEMENT

Proposal from France

The secretariat reproduces below a proposal submitted by France.

Annex 1, appendix 1, paragraph 2 (a):

This paragraph lends itself to various possible interpretations as regards the date from which the term of validity of a test report (period of six years) is to be counted. It would be better to make clear what date is meant: date of the test, date of signature of the test report, date of manufacture of the body, etc.

Moreover, for practical reasons, it would be preferable to indicate the period of validity (month, year) in the test report.

Proposed amendment:

"New equipment of a specific type serially produced may be approved by testing one unit of that type. If the unit tested fulfils the requirements prescribed for the class to which it is presumed to belong, the test report shall be regarded as a Type Approval Certificate. This certificate shall expire at the end of a period of six years *beginning from the date of completion of the test*.

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

Annex 1, appendix 1, paragraph 4 (c):

In order to facilitate the procedures for approval in the various countries of the "ATP zone", the documents should be made easy to understand by the respective competent authorities.

Proposed amendment:

"(c) in the case of serially produced equipment, the technical specification of the equipment to be certified (this specification must cover the same items as the descriptive pages concerning the equipment which appear in the test report *and must be drawn up in at least two of the three official languages*)."

Annex 1, appendix 1, paragraph 6:

Proposed amendment:

"The insulated bodies of 'insulated', 'refrigerated', 'mechanically refrigerated' or 'heated' transport equipment and their thermal appliances shall each bear permanent distinguishing marks affixed by the manufacturer and including at least the following particulars:

Country of manufacture or letters used in international road traffic;

Name of manufacturer or company;

Model (figures and/or letters);

Serial number;

Month and year of manufacture;

Reference report number;

'Value of the K coefficient'."

Annex 1, appendix 1, paragraph 5:

There appears to be some confusion in the French text of the ATP agreement as to the term "marque d'identification" ("distinguishing mark"). This term should be clarified by stating whether it refers to a prescribed class mark or to the make of the body itself.

This confusion also arises in the English version of the agreement.

Proposed amendment:

"Class distinguishing marks and particulars shall be affixed to the equipment in conformity with the provisions of appendix 4 to this annex. They shall be removed as soon as the equipment ceases to conform to the standards laid down in this annex."

Annex 1, appendix 1, paragraph 6:

Same comment as above.

Proposed amendment:

"The insulated bodies of 'insulated', 'refrigerated', 'mechanically refrigerated' or 'heated' transport equipment and their thermal appliances shall each bear permanent *manufacturer's* distinguishing marks affixed by the manufacturer and including at least the following particulars:"

Annex 1, appendix 3, model form of certificate of compliance, footnote 4:

Same comment as above.

Proposed amendment:

"<u>4</u>/ Enter here one or more of the descriptions listed in appendix 4 of this annex, together with the corresponding *class* distinguishing mark or marks."

Annex 1, appendix 3, section B, paragraph 1 (d):

Same comment as above.

Proposed amendment:

"(d) 'ATP MARK' followed by the *class* distinguishing mark prescribed in annex 1, appendix 4, corresponding to the class and the category of the equipment".

Annex 1, appendix 3, section B, paragraph 2:

Same comment as above.

Proposed amendment:

"2. The letters 'ATP' and the letters of the *class* distinguishing mark should be approximately 20 mm high. Other letters and figures should not be less than 5 mm high."

Annex 1, appendix 4:

Same comment as above.

Proposed amendment:

"The *class* distinguishing marks prescribed in appendix 1, paragraph 5 to this annex shall consist of capital Latin letters in dark blue on a white ground; the height of the letters shall be at least 100 mm. The marks shall be as follows: [...].

If the equipment is fitted with removable or non-independent thermal appliances, the *class* distinguishing mark or marks shall be supplemented by the letter X.

The date (month, year) entered under section A, item 8 in appendix 3 of this annex as the date of expiry of the certificate issued in respect of the equipment shall be quoted under the *class* distinguishing mark or marks aforesaid."

Test reports models:

Following the proposals of the United Kingdom (document TRANS/WP.11/2000/8), France suggests the following changes to the models for test reports.

[Measurement of the overall heat transfer coefficient]

						1est R	eport No					
Approved te	sting stati											
Equipment:	Body Nu Date of c	umber		Body built by Chassis number Date of entry into service								
	Submitted by											
of body Total usable Internal volu Total floor a Total inside Inside surfac Total outside Mean surfac	internal verse area of eace area	Outside: length width/major axis height/minor axis volume of body th compartment dy (except tanks) . rea S _i of body/tank each compartment area S _e of body/tank	walls S _{i1} k walls .	m m . m ³ m ³ .	width/n height/1	major axis . minor axis	1					
Thickn		Тор	В	ottom	Sic	le walls	Front wall					
Outside ski	n	•										
Insulation												
		s of the body/tank (4)									
Body (non-	tank)			Tanl								
Rear doors				Description nanholes	1 OI							
Side doors	Side doors				Manhole covers							
Vents	ents			Description of discharge piping								
Ice-loading apertures				_								

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Accessories ⁽⁵⁾
Testing Method: inside cooling/inside heating ⁽⁶⁾
Date and time of closure of equipment's doors and other openings
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Mean temperature of walls of body $\frac{t_e + t_i}{2}$?
Power consumed in exchangers: $W_1 \dots W_r$; Power absorbed by fans: $W_2 \dots W_r$;
Overall coefficient of heat transfer calculated by the formula:
Inside-cooling test $K ? \frac{W_1 ? W_2}{S?t}$; Inside-heating test $K ? \frac{W_1 ? W_2}{S?t}$
Maximum error of measurement with test used % Remarks: ⁽⁷⁾
(To be completed only if the equipment does not have thermal appliances):
According to the above test results, the equipment may be recognized by means of a certificate in accordance with ATP annex 1, appendix 3, valid for a period of not more than six years, with the class distinguishing mark IN/IR . (6)
However, this report shall be valid as a certificate of type approval within the meaning of ATP annex 1, appendix 1, paragraph 2 (a) for a period of not more than six years, that is until
Done at: on: Testing Officer:
(1) Wagon, lorry, trailer, semi-trailer, container, swap body, tank, etc. (2) State source of information. (3) Nature and thickness of materials used for body/tank walls, method of construction, etc. (4) If there are structural irregularities, show how S _i and S _e were determined. (5) Meat rails, etc. (6) Delete as appropriate. (7) If the body is not parallelpipedic, specify the points at which outside and inside temperatures

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were measured.

[Determination of the effectiveness of cooling appliances of refrigerated equipment]

										Test	Kepor		
Descript Manufac	cturer .											• • • • • • • •	
Type													
Nature a Actual f	illing o	f refrig	erant u	sed for	test			k ng if ne	g cessary	y)			
Ducts an	d scree	 ens/tanl	k for li	quefied	gases;	 (1) desc	ription						
Drive in				-									
Eutectic Plates: ⁽¹⁾ Inside fa	?Mak ?Type ?Num	e		Laten Total nsions	t heat a	serve a	ing ten	nperatu	re iperatu 	re	kJ/kg 	at	°C kJ
Automat Accesso Mean te	ries						• • • • • • • •						
Power o	f heat a	ıdded d	luring t	est			W						
Date and	l time o	of closu	ire of e	quipme	ent's do	oors an	d other	openir	ngs			• • • • • • • • • • • • • • • • • • • •	
Record	of mean	n inside	e tempe	erature	T _i and	mean o	outside	tempe	rature 7	Γ _e of bo	ody wit	h time	
Time hrs	0	1	2	3	4	5	6	7	8	9	10	11	12
T _i													
Te													

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Remarks:

According to the above test results, the equipment may be recognized by means of a certificate in accordance with ATP annex 1, appendix 3, valid for a period of not more than six years, with the class distinguishing mark
However, this report shall be valid as a certificate of type approval within the meaning of ATP annex 1, appendix 1, paragraph 2 (a) for a period of not more than six years, that is until
Done at: on:
Testing Officer:

⁽¹⁾ Delete as appropriate.

[Determination of the effectiveness of cooling appliances of mechanically refrigerated equipment]

										Test	Report	t No	
 Manufac	turer											• • • • • • •	
Type													
Drive: in Refrigera								ation u	nit rem	ovable	/not re	movab	le ⁽¹⁾
Refrigera													
				Comp	ressor		Co	ndenser	fan		Evapo	rator f	an
Make													
Type													
Number	ſ												
Drive													
Power													
RPM													
Deliver	y volur	ne											
Mean ter K coeffic Power of	cient of	f insula	ted boo	dy				W/m ² K		utside	°(C ±	К
Date and Pull-dow temperat	n time	from b	eginni	ng of to	est to a	ttainm	ent of p	rescrib	_			••••	
Record o	of mear	n inside	tempe	erature	T _i and	mean (outside	temper	rature T	Γ _e of bo	ody wit	h time	
Time hrs	0	1	2	3	4	5	6	7	8	9	10	11	12
T_{i}													
T _e													
Remarks	:									•••••			

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ccording to the above test results, the equipment may be recognized by means of a certificate in cordance with ATP annex 1, appendix 3, valid for a period of not more than six years, with the ass distinguishing mark
ξ <i>ξ</i>
owever, this report shall be valid as a certificate of type approval within the meaning of ATP nex 1, appendix 1, paragraph 2 (a), for a period of not more than six years, that is until
one at:on:
esting Officer:
owever, this report shall be valid as a certificate of type approval within the meaning of ATP nex 1, appendix 1, paragraph 2 (a), for a period of not more than six years, that is until

⁽¹⁾ Delete as appropriate.

[Determination of the effectiveness of heating appliances of heated equipment]

										Test	Report	No	
Manufactur Type Location Effective po			Seria	al num	ber Overal	l area c	of heat	Year exchar	of man	ufactu faces .	re		
Drive: inde Inside fans: Power of el- Dimensions	epende Des ectric f	nt/depe scriptic fans	endent/ on	mains	operat	ed; hea W	ting ap Deliv	oplianc very vo	e remo lume .	ovable/ 	not ren	novabl	e ⁽¹⁾ m ³ /h
Mean tempe													
Date and tir	Date and time of closure of equipment's doors and other openings												
Pull-down t temperature	·		h			ainmen	t of pr		d mea	n insid	е		
Record of n	nean ir	isiae te	empera	ture 1 _i	and m	ean ou	tside to	empera	iture 1	e OI DO	ay witi	n time:	
Time hrs T _i	0	1	2	3	4	5	6	7	8	9	10	11	12
T_e											 		
Note: In the from +12° (heated class	C to $+2$	20° C f	or heat										
Remarks		• • • • • • • •									• • • • • • •	• • • • • • • •	
According to accordance class disting	with A	TP and	nex 1,	append	lix 3, v	alid fo	r a per	iod of	not mo	ore than	n six ye	ears, w	ith the
However, the annex 1, app	pendix	1, para	agraph	2 (a),	for a p	period o	of not	more th	nan six	years,	that is	until	
Done at:							on:						
Testing Off													

⁽¹⁾ Delete as applicable.

[Determination of the effective refrigeration capacity of a mechanical refrigeration unit]

	Test Report No
Approved test	ting station
	unit presented by
(a) Technical	specifications of the unit: Date of manufacture: Type:
-	
Compressor:	Make:
Methods of di motion	rive.(1) electric motor, separate internal combustion engine, vehicle engine, vehicle
Compressor d	lrive motor: (See footnotes ⁽¹⁾ and ⁽²⁾) Electrical: Make:
Numb	al combustion engine: Make:
Hydraulic mo	otor: Make: Type: Method of drive:

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	Alternator: Make:	Type:	
	Speed of rotation (nominal speed give	ven by the manufacturer):	rpm
	minimum speed (given by the manus	facturer):	rpm
Expans Defrost	erant fluid: nion valve: Make: Device: atic Device:	Model Ad	djustable/Not adjustable (1)
	Heat exchangers	Condenser	Evaporator
Make			
Type			
• •	per of circuits		
Numb	per of rows		
Numb	per of tubes		
Fin pi	tch (mm) ⁽²⁾		
Tube:	nature and diameter (mm) ⁽²⁾		
Total	exchange surface area (m ²) ⁽²⁾		
	al surface area (m ²)		
	Type		
	Number		
F	Number of blades per fan		
Α	Diameter (mm)		
N	Nominal power (W) (2,3)		
S	Nominal speed (rpm)		
	Total nominal delivery volume at		
	a pressure of Pa $(m^3/h)^{(2)}$		
	Method of drive		
	y devices:		

RESULTS OF MEASUREMENTS AND EFFECTIVE REFRIGERATION CAPACITY

(Mean temperature of the air inlet to the condenser ... ?C)

Speed of rotation				Power of internal fan heater	Refrigerant mass flow rate	Refrigerant enthalpy at evaporator inlet	Refrigerant enthalpy at evaporator outlet	Power absorbed by the unit cooler fan	Fuel or electrical power consumption	Mean temperature around the body	Mean temp. air inlet to evaporator	Effective refrigerating capacity	
	Fans Alternator Compressor		Compressor										
	rpm	rpm	rpm	W	kg/sec	J/kg	J/kg	W	W or l/hr	?C	?C	W	
Diesel													
Electric													

Results of measurements and effective refrigeration capacity (using the heat balance method)

(Mean temperature of the air inlet to the condenser \pm $^{\circ}$ C)

N	W_{j}	С	P_{m}	P _c abs	P _o abs	T _M ext	T _m inlet	W_{o}			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	to evap.	(9)			
rpm	Watts	litres/hr	watts	bar	bar	$^{\circ}\mathrm{C}$	(8)	Watts			
							°C				
Diesel engine drive:											
	<u> </u>		<u>_</u>				<u> </u>				
Electric motor drive:											

⁽¹⁾ Compressor speed

Balance electrical power input of heaters and fans

⁽³⁾ Fuel consumption

⁽⁴⁾ Electric power consumption

⁽⁵⁾ Condensing pressure

⁽⁶⁾ Compressor suction

⁽⁷⁾ Mean temperature outside calorimeter

⁽⁸⁾ Mean temperature air inlet to evaporator

⁽⁹⁾ Effective refrigeration capacity

Maximum error of measurement: U-coefficient of calorimeter

	Effective refrigeration capacity Pressure measurements
	Evaporator air delivery volume
	Fuel consumption
	Compressor speed
	Temperatures
(b)	Test method and results:
	Test method: ⁽¹⁾ heat balance method/enthalpy difference method
	In a calorimeter:
	U-coefficient of calorimeter when fitted with the tested refrigeration unit: W/°C at a mean wall temperature of °C.
	In an item of transport equipment:
	K-coefficient of an item of transport equipment fitted with a refrigeration unit
	Method employed for the correction of the U-coefficient of the body as a function of the mean wall temperature of the body:
(c)	Checks
	Temperature regulator: Setting°C Differential°C
	Functioning of the defrosting device: satisfactory/unsatisfactory
	Air delivery volume leaving the evaporator at a pressure of Pa Internal combustion engine m³/hr Electric motor m³/hr
	Existence of a means of supplying heat to the evaporator for setting the thermostat at between 0 and $+12^{\circ}$ C: ⁽¹⁾ yes/no
(d)	Remarks
Done	e at: on:
Testi	ng Officer:
(1) D	velete as appropriate.
$^{(2)}$ V	alue indicated by the manufacturer. There applicable.
	**

[Expert field check of the insulation and the cooling/heating appliances of equipment in service]

The equipment was originally ATP certified based on test reports Nos dated													
K-coeffi Manufac	turer o	f insu	lated b	² K ody		• • • • • • •							
Condition of insulated body when checked:													
Top													
End walls Bottom Scale													
	Doors and openings												
Dimensi													
Remarks									_				
Cooling/	heatin	$\sigma^{(1)}$ an	nlianc	e Man	uifactui	······································	• • • • • • • • •		• • • • • • • •			•••••	• • • • • • • • • • • • • • • • • • • •
Type	ncaum	g ap	рпанс	C. Ivian Seri:	al numb	or Oer	•••••		Vear	of man	ufactur	 e	• • • • • • • •
Description													
	an inside temperature of: 0° C; -10° C; -20° C												
Refriger													
Fans: D													
Po	wer	1011	7	 N 1	Deliver	v volu	ne		m ³ /hı	r			•••••
						-							
Conditio													
Tempera	-	-											
Date and													
Pull-dow													
temperat				8				F					
Record of				peratur	e Ti and	l mean	outside	e tempe	rature	T _e of b	odv wit	th time:	:
					,	·		· · · · · · · · ·					1
Hrs													
T _i													
Te													
Defrost mechanism; ⁽²⁾ correct operation: yes/no; ⁽¹⁾ correct termination: yes/no ⁽¹⁾ Thermostat check. At 0° C According to the above test results the equipment may be recognized by means of a certificate in accordance with ATP annex 1, appendix 3, valid for not more than three years, with the class distinguishing mark													
Done at: on: Testing Officer:													
(1) Delet (2) If app	e as ap olicable	propr	iate.										

Annex 1, appendix 2, paragraph 28:

These modifications for test reports mean changing the references of the annexes.

Proposed amendment:

"28. A test report shall be drawn up for each test in conformity with Model No. 1 below."

Annex 1, appendix 2, paragraph 29 (d):

Same comment as above.

Proposed amendment:

"A test report shall be drawn up for each test by an expert in conformity with Model No. 6 below."

Annex 1, appendix 2, paragraph 48:

Same comment as above.

Proposed amendment:

"48. A test report shall be drawn up for each test in conformity with Model No. 2, 3 or 4 below."

Annex 1, appendix 2, paragraph 28 (e):

Same comment as above.

Proposed amendment:

"A test report shall be drawn up for each test by an expert in conformity with Model No. 6 below."

Annex 1, appendix 2, paragraph 60:

Same comment as above.

Proposed amendment:

"A test report of the appropriate type shall be drawn up in conformity with Model No. 5 below."
