

Brussels, XXX [...](2024) XXX draft

ANNEXES 1 to 2

ANNEXES

to the

Commission Implementing Regulation

establishing, pursuant to Regulation (EU) 2024/573 of the European Parliament and of the Council, minimum requirements and the conditions for mutual recognition for the certification of natural and legal persons as regards stationary refrigeration, air conditioning and heat pump equipment, organic Rankine cycles and refrigeration units of refrigerated trucks and trailers, refrigerated light-duty vehicles, intermodal containers and train wagons

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ANNEX I

Minimum requirements as to the skills and knowledge to be covered by the evaluation bodies

- (1) The examination for each of the Certificates referred to in Article 3(2) shall comprise of the following:
 - (a) a theoretical test with one or more questions testing that skill or knowledge, as indicated in the category columns by T. In relation to Certificate A, at least one of the questions shall relate to the specifics of alternatives to fluorinated greenhouse gases (for example hydrocarbons, CO2 or ammonia) and at least one question shall relate to energy efficiency of equipment;
 - (b) a practical test where the applicant shall perform the corresponding task with the relevant material, tools and equipment, as indicated in the Category columns by P. In relation to Certificate A, the practical test shall include at least one operation involving the relevant alternatives to fluorinated greenhouse gases (for example hydrocarbons, CO2 or ammonia).
- The examination shall cover each of the skills and knowledge groups specified under headings 1, 2, 3, 4, 5, 10 and 11 of the table below. In addition, for Certificate A it shall cover the skills and knowledge group specified under heading 12 of that table, for Certificate B the skills and knowledge group specified under heading 13 of that table and for Certificate C the skills and knowledge group specified under heading 14 of that table.
- (3) The examination shall cover at least one of the skills and knowledge groups specified under heading 6, 7, 8 or 9 of the table below. The candidate shall not know in advance of the examination which of these four components will be examined.

		Certifica	te			
SKILLS	S AND KNOWLEDGE	A	В	С	D	Е
1	Posia thermodynamics					
	Basic thermodynamics		1_			
1.00	Basic understanding of the	T	T	T	T	T
	applicable EU and national					
	legislation, in particular f-gas,					
	WEEE and eco design					
1.01	Knowledge of the basic ISO	T	T	T	T	T
	standard units for temperature,					
	pressure, mass, density and					
	energy					
1.02	Understanding of basic theory	T	T	T	T	_
	of refrigeration systems: basic					
	thermodynamics (key terms,					
	parameters and processes such					
	as Superheat, High Side, Heat					
	of Compression, Enthalpy,					
	Refrigeration Effect, Low					

Side, Sub-cooling), properties and thermodynamic transformations of refrigerants, including	
transformations of refrigerants, including	
refrigerants, including	
identification of zootropic	
identification of zeotropic	
blends and fluid states	
	T
diagrams and their	
interpretation in the context of	
indirect leak checks (including	
checking of the good	
operation of the system): log	
(p),h diagram, saturation	
tables of a refrigerant, diagram	
of a single compression	
refrigeration cycle	
1.04 Description of the function of T T T	_
the main components in the	
system (compressor,	
evaporator, condenser,	
thermostatic expansion	
valves) and the	
thermodynamic	
transformations of the	
refrigerant T T T	
1.05 Knowledge of the basic T T —	
operation of the following components used in a	
components used in a refrigeration system and their	
role and importance for	
refrigerant leakage prevention	
and identification: (a) valves	
(ball valves, diaphragms,	
globe valves, relief valves),	
(b) temperature and pressure	
controls, (c) sight glasses and	
moisture indicators, (d)	
defrost controls, (e) system	
protectors, (f) measuring	
devices as manifold	
thermometer, (g) oil control	
systems, (h) receivers, (i)	
liquid and oil separators,	
taking into account specifics	
of operation involving highly	
flammable or toxic	
moful coments (by due on the come	
refrigerants (hydrocarbons or	
NH ₃) and refrigerants	

1.06	Knowledge about the specific behaviour, physical parameters, solutions, systems, deviances of alternative refrigerants (synthetic and natural) in the refrigeration cycle and components for their use	T	T	T	T	T
1.07	Knowledge of the characteristics of hydrocarbons, CO ₂ , and NH ₃ and other non-fluorinated refrigerants in contrast to F-gas refrigerants	Т	Т	Т	Т	T
1.08	Knowledge about flammability, flame propagation, charge size restrictions, occupancy limits for HFCs, H(C)FOs and hydrocarbons	Т	Т	Т	Т	Т
1.09	Knowledge about pressure of CO ₂ , transcritical and subcritical process, log (p),h diagram, saturation tables of CO ₂ , aggregate status of CO ₂ (formation of dry ice)		Т			
1.10	Knowledge about toxicity NH ₃ , differences between dry expansion and flooded systems, negative pressure in deep-freeze systems	_	_	Т		
2	Environmental impact of regulations	refriger	ants and	d releva	nt enviro	nmental
2.01	Basic knowledge of the EU and international climate change policy, including the United Nations Framework Convention on Climate Change		T	Т	Т	T
2.02	Basic knowledge of the concept of Global Warming Potential (GWP), the use of fluorinated greenhouse gases and other substances as refrigerants, the impact of the emissions of fluorinated greenhouse gases on the climate (order of magnitude of their GWP) and relevant provisions of Regulation (EU)	Т	T	Т	T	T

	T	1	1	1	ı	T
	2024/573 and of the relevant					
	implementing acts and a basic					
	knowledge of possible threats					
	to the environment, including					
	from decomposition products					
	of certain fluorinated					
	substances (PFAS) such as					
	HFCs, HFOs and HCFOs.					
3		inmont	often e le	na navia	d of non u	go ofton
3	Checks before activating equ	_				se, after
2.01	maintenance or repair interve				ation	
3.01	Carrying out a pressure test to	P	P	P		
	check the strength of the					
	system					
3.02	Carrying out a pressure test to		P	P		
	check the tightness of the		1	1		
	system					
3.03	Using a vacuum pump		D	D	D	
		-	P	P	P	
3.04	Evacuation of the system to		P	P		
	remove air and moisture					
	according to standard practice					
3.05	Filling in of the data in the	T	T	T		
	equipment records and filling					
	in of a report about one or					
	more tests and checks carried					
	out during the examination					
4	Checks for leakage				I	
7	Checks for leakage					
4.01	Vacantial	т	Т	Т		Т
4.01	Knowledge of potential	T	1	1		1
	leakage points of refrigeration,					
	air conditioning and heat					
	pump equipment					
4.02	Check of equipment records	T	T	T		T
	prior to a check for leakage					
	and identification of the					
	relevant information on any					
	repeating issues or problem					
	areas to pay special attention					
	to					
4.02		D	P	P		D
4.03	Carrying out a visual and	P	P	P		P
	manual inspection of the					
	whole system in accordance					
	with Commission Regulation					
	(EC) No 1516/2007 ¹					

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Commission Regulation (EC) No 1516/2007 of 19 December 2007 establishing, pursuant to Regulation (EC) No 842/2006 of the European Parliament and of the Council, standard leakage checking requirements for stationary refrigeration, air conditioning and heat pump equipment containing certain fluorinated greenhouse gases (OJ L 335, 20.12.2007, p. 10, ELI: http://data.europa.eu/eli/reg/2007/1516/oj).

	Carrying out a check for leakage of the system using an indirect method in accordance with Regulation (EC) No 1516/2007 and the instruction manual of the system	P	P	P		P
4.05	Using portable measuring devices such as manometer sets, thermometers and multimeters for measuring Volt/Amp/Ohm in the context of indirect methods for leakage checking, and interpret the measured parameters	P	P	P		P
4.06	Carrying out a check for leakage of the system using one of the direct methods referred to in Regulation (EC) No 1516/2007	P		_		
4.07	Carrying out a check for leakage of the system using one of the direct methods which does not entail breaking into the refrigeration circuit, referred to in Regulation (EC) No 1516/2007	_	P	P		P
4.08	Use of an appropriate electronic leak detection device	P	P	P	_	P
4.09	Filling in of the data in the equipment records	Т	Т	Т		Т
5	Environment-friendly handli installation, maintenance, serv		-	n and i	efrigerant	during
5.01	Connection and disconnection of gauges and lines with minimal emissions	P	P	P	_	_
5.02	Emptying and filling a refrigerant cylinder in both liquid and vapour state	P	P	P	P	
5.03	Use of a recovery set to recover refrigerant and connect and disconnect recovery set with minimal emissions	P	P	P	P	
5.04	Drainage of F-gas contaminated oil out of a system	P	P	P	P	

5.05	Identification of refrigerant	P				
2.02	state (liquid, vapour) and	1				
	condition (subcooled,					
	saturated or superheated) prior					
	to charging, to ensure correct					
	method and volume of charge.					
	Filling the system with					
	refrigerant (both in the liquid					
	and vapour phase) without					
	loss of refrigerant					
5.06	Choice of the correct type of	P	P	P	P	
3.00	scales and use of them to	1	1	1	1	
5.07	weigh the refrigerant	T	T	T	T	
3.07	Filling in the equipment records with all relevant	1	1	1	1	
	information concerning the					
5.00	refrigerant recovered or added	T	T	T	T	
5.08	Knowledge of requirements	1	1	1	1	
	and procedures for handling,					
	reusing, reclaiming, storage					
	and transportation of					
	fluorinated refrigerant and					
	oils, including when					
7 .00	contaminated			T		
5.09	Knowledge of requirements	T	T	T	T	
	and procedures for handling,					
	filling, recovering, reclaiming,					
	storage and transportation of					
	hydrocarbons and installation					
	of equipment and systems					
- 10	relying on hydrocarbons					
5.10	Knowledge of requirements		T			
	and procedures for handling,					
	filling, recovering, reclaiming,					
	storage and transportation of					
	R744 (CO ₂) and installation of					
	equipment and systems					
	relying on R744					
5.11	Knowledge of requirements	_		T		
	and procedures for handling,					
	filling, recovering, reclaiming,					
	storage and transportation of					
	R717 (NH ₃) and installation of					
	equipment and systems					
	relying on R717. Knowledge					
	of the effects of the release of					
	R717 during installation or					
	maintenance work, through					
	leaks or accidents and of how					
	to reduce these effects (for					

	example using scrubbers) with proper planning					
6	Component: installation, pu					ance of
	reciprocating, screw and scrol				o-stage	1
6.01	Explanation of the basic functioning of a compressor (including capacity control and lubricating system) and risks of refrigerant leakage or release associated to it	Т	Т	Т		
6.02	Proper installation of a compressor, including control and safety equipment, so that no leak or major release occurs once the system is put into operation	P	P	P	_	_
6.03	Adjustment of the safety and control switches	P	P	P		
6.04	Adjustment of the suction and discharge valves		P	P		
6.05	Check of the oil return system					
6.06	Starting up and shutting down a compressor and checking the good working conditions of the compressor, including by making measurements during operation of compressor	P	P	P		
6.07	Writing of a report about the condition of the compressor, which identifies any problems in the functioning of the compressor that could damage the system and eventually lead to refrigerant leakage or release should no action be taken	T	Т	Т		
6.08	Knowledge of measures improving or maintaining the energy efficiency of equipment during installation or maintenance of compressors	Т			Т	
7	Component: installation, put cooled and water-cooled cond		operatio	on and n	naintenan <mark>c</mark>	e of air
7.01	Explanation of the basic functioning of a condenser and risks of leakage associated to it	T	T	T		
7.02	Adjustment of a discharge	P	P	P		

	pressure control of the					
	condenser					
7.03	Proper installation of a	P				
,,,,,	condenser/outdoor unit,	_				
	including control and safety					
	equipment, so that no leak or					
	major release occurs when the					
	system has been put into					
	operation					
7.04	Adjusting the safety and	P				
	control switches					
7.05	Checking the discharge and					
	liquid lines					
7.06	Purging non-condensable	P		_		
	gases out of the condenser					
	using a refrigeration purging					
	device					
7.07	Starting up and shutting down	P				
	a condenser and check of the					
	good working condition of the					
	condenser, including by					
	making measurements during					
7.00	operation	-				
7.08	Checking the surface of the	P				
7.00	condenser	T				
7.09	Writing of a report about the	T				
	condition of the condenser,					
	which identifies any problems in the functioning that could					
	damage the system and					
	eventually lead to refrigerant					
	leakage or release should no					
	action be taken					
7.10	Knowledge of measures of	Т				
7.10	improving or maintaining the	1				
	energy efficiency of					
	equipment during installation					
	or maintenance of condensers					
8	Component: installation, put	tting into	operatio	n and n	naintenanc	e of air
	cooled and water cooled evapo		•			
8.01	Explanation of the basic	T				
	functioning of an evaporator					
	(including defrosting system)					
	and risks of leakage associated					
	to it					
8.02	Adjustment of an evaporating	P			_	
	pressure control of the					
	evaporator	_				
8.03	Installation of an evaporator	P				
	including control and safety					

	aguinment so that no look or					
	equipment, so that no leak or					
	major release occurs when the					
	system has been put into					
0.04	operation	D				
8.04	Adjustment of the safety and	P				
0.07	control switches					
8.05	Checking the liquid and					
	suction pipelines in the correct					
	position					
8.06	Checking the hot gas defrost					
	pipeline					
8.07	Adjustment of evaporation					
	pressure regulation valve					
8.08	Starting up and shutting down	P				
	an evaporator and check of the					
	good working condition of the					
	evaporator, including by					
	making measurement during					
	operation					
8.09	Checking the surface of the	P				
	evaporator					
8.10	Writing of a report about the	T				
	condition of the evaporator,					
	which identifies any problems					
	in the functioning that could					
	damage the system and					
	eventually lead to refrigerant					
	leakage or release should no					
	action be taken					
8.11	Knowledge of measures of	T				
	improving or maintaining the					
	energy efficiency of					
	equipment during installation					
	or maintenance of evaporators					
9	Component: installation, p	outting	into ope	ration a	nd servi	cing of
	Thermostatic Expansion Valv	es (TEV)	and other	compone	ents	
9.01	Explanation of the basic	T				
	functioning of different kinds					
	of expansion regulators					
	(thermostatic expansion					
	valves, capillary tubes) and					
	risks of leakage associated to					
	it					
9.02	Installation of valves in the	P				
	correct position					
9.03	Adjustment of a	P				
	mechanical/electronic TEV					
9.04	Adjustment of mechanical and					
	electronic thermostats					
9.05	Adjustment of a pressure-	1				
		l	l		l	

	regulated valve					
9.06	Adjustment of mechanical and					
,,,,,	electronic pressure limiters					
9.07	Checking the functioning of	P				_
7.07	an oil separator	1				
9.08	Checking the condition of a					
7.00	filter dryer					
9.09	Writing of a report about the	Т				
7.07	condition of these	1				
	components, which identifies					
	any problems in the					
	functioning that could damage					
	the system and eventually lead					
	to refrigerant leakage or					
	release should no action be					
	taken					
9.10	Knowledge of measures of	Т				<u> </u>
7.10	improving or maintaining the	1				
	energy efficiency of					
	equipment during installation					
	or maintenance of TEV and					
	other components					
10	Piping: building a leak-tight p	ining syst	em in a r	 efrigeration	ı on installat	ion
	i iping. bunuing a leak-tight p	iping syst		cirigeran		1011
10.01	Welding, brazing and/or	P	P	P		
10.01	soldering of leak-free joints on	_	_	_		
	metallic tubes, pipes and					
	components that can be used					
	in refrigeration, air					
	conditioning or heat pump					
	systems					
10.02	Making/checking of pipe and	P	P	P	_	_
	component supports					
11	Information on relevant tecl	nologies	to replac	ce or to	reduce the	e use of
	fluorinated greenhouse gases a					
11.01	Knowledge of the relevant	T	T	T	T	T
	alternative technologies to					
	replace or to reduce the use of					
	fluorinated greenhouse gases					
	and of their safe handling					
11.02	Knowledge of relevant system	T			_	
	designs to reduce the charge					
	size of fluorinated greenhouse					
	gases and to increase energy					
	efficiency					
11.03	Knowledge of relevant safety	T	T	T		
	regulations and standards for					
	the use, storage and					
	transportation of flammable or					
	toxic refrigerants or					

11.04	refrigerants requiring higher operating pressure. Understanding of the site-specific conditions under which it is allowed to use equipment not fulfilling the requirements set out in Annex IV to Regulation 2024/573 due to safety requirements Understanding of the	Т	T	T		
	respective advantages and disadvantages, notably in relation to energy efficiency, of alternative refrigerants according to the intended application and to the climate conditions of the different regions					
11.05	Knowledge of differences in components and system design for equipment and systems relying on hydrocarbons	Т	Т	Т	Т	
11.06	Knowledge of differences in components and system design for equipment and systems relying on R744 (CO ₂), such as requirements for pipework materials, the function of booster-systems, medium-pressure and high-pressure control valves, system and process optimisation of R744 (CO ₂) refrigeration systems to increase the system efficiency such as parallel compressors, ejector technology (liquid and gas ejector) and systems with partial flooding, Know safety concepts for limiting standstill pressure and of the use of stagnation cooling systems		T			
11.07	Knowledge of differences in components and system design for equipment and systems relying on R717 (NH ₃), such as compressor designs, compressors with separate motors, capacity	_		T		_

	control of reciprocating and					
	screw compressors,					
	compressor circuits, single					
	and two-stage compression,					
	Evaporative condensers,					
	separator operation and level					
	control, float switches,					
	thermosyphon, difference in					
	oil management (use of non-					
	mixable oils), oil regulation,					
	basic knowledge of direct					
	systems (DX and recirculation					
	operation) and indirect					
	systems, Scrubber					
12	Installation and good practi	ice of se	rvicing f	or equip	ment and	systems
	relying on hydrocarbons					
12.01	Knowledge of the labelling	T	T	T	T	_
	requirements and special					
	requirements for flammable					
	refrigerants in equipment,					
	systems and refrigerant					
	cylinders and special					
	requirements on bottle					
	connections					
12.02	Knowledge of the safety	T	T	T	T	
	requirements for service tools					
	and equipment such as gas					
	detection, leak detection,					
	ventilation, personal					
	protective equipment, vacuum					
	pumps, recovery units;					
	requirements for disposal of					
	recovered gases.					
12.03	Calculation of the charge of	Т				
	flammable refrigerant in a					
	system according to applicable					
	safety standards.					
12.04	Performance of a risk analysis	P	P	P	P	
12.0.	before starting the work and	_	_	-	_	
	elimination or, if elimination					
	is not possible, identification					
	of sources of danger.					
12.05	Preparation of the work area	P				
12.03	and selection of appropriate	*				
	tools, equipment and					
	protective equipment for					
	working on systems relying on					
	flammable refrigerants					
12.06	Recovery of flammable	P				
12.00	refrigerants safely from the	1				
1	promise salely non the	I	1		Ī	

	1 (*11*) (*1	l				
	system and filling of the					
12.07	system with nitrogen	P				
12.07	Opening of the system,	P				
	removal and exchange of a					
	component, closing of the					
12.08	system Performance of a pressure test	P				
12.08	to check the tightness of the	Г				
	system					
12.09	Performance of a vacuum test	P				
12.09	to remove the moisture and	1				
	check the tightness of the					
	system					
12.10	Charge of the system with the	P				
12.10	appropriate volume of	1				
	hydrocarbon refrigerant					
12.11	Performance of a leakage	P				
	check at the system with a	1				
	direct method					
12.12	Writing of a report about the	P				
	performed service work	_				
12.13	Checking that health and	P				
	safety measures according to					
	applicable rules are in place at					
	the location of the system (e.g.					
	signs, emergency exits, gas					
	sensors, gas alarms etc.)					
12.14	Knowledge of measures of	T				
	improving or maintaining the					
	energy efficiency of					
	equipment during installation					
	or maintenance with					
	flammable refrigerants					
13	Installation and good practice of servicing for equipment and systems					
	relying on R744 (CO2)	ı	T	ı	1	T
13.01	Knowledge of the	_	T			
	requirements for labelling of					
	R744 in systems and in					
	pressure vessels		_			
13.02	Reading and understanding of	_	T			_
	piping and instrumentation					
	diagrams of refrigeration					
10.00	systems with R744 (CO ₂)		TD.			
13.03	Knowledge of the special		T			
	requirements for refrigerant					
	cylinders and double valves					
10.04	for liquid and gas extraction					
13.04	Knowledge of the safety		T	_		
	requirements for service tools and equipment such as gas					
		i	•	•	1	1

	detection, leak detection,					
	personal protective equipment					
13.05	Calculation of the charge of R744 (CO ₂) in a system according to applicable safety standards	_	Т			_
13.06	Performance of a risk analysis before starting the work and elimination or, if elimination is not possible, identification of sources of danger.		P			
13.07	Preparation of the work area and selection of appropriate tools, equipment and protective equipment for working on systems relying on R744 (CO ₂)	_	P	_	—	_
13.08	Performance of a pressure test to check the pressure resistance and tightness of the system	_	P	_	_	_
13.09	Safe removal of R744 refrigerant from the system		P		P	_
13.10	Charge of the system with the appropriate volume of R744 (CO ₂) in gaseous and liquid phase		P		_	
13.11	Performance of a leakage check at the system with a direct method		P			
13.12	Writing a report about the performed service work		P			_
13.13	Checking that health and safety measures according to applicable rules are in place at the location of the system (for example signs, emergency exits, gas sensors, gas alarms etc.)		P			
13.14	Knowledge of the significance of high pressure at the triple point and the formation of dry ice		T			
13.15	Knowledge of the safety requirements for operating a system with R744 refrigerant		Т		_	
13.16	Knowledge of measures of improving or maintaining the energy efficiency of equipment during installation		Т	_	_	_

	or maintenance with toxic					
	refrigerants					
14	Installation and good pract relying on R717 (NH ₃)	ice of	servicing	for equip	ment and	systems
14.01	Reading and understanding of	_		T		
	piping and instrumentation					
	diagrams of refrigeration					
14.02	systems with R717 (NH ₃) Knowledge of the special			Т		
14.02	requirements for refrigerant			1		
	cylinders and gas extraction					
14.03	Knowledge of the		_	T		
	requirements for labelling of					
	toxic refrigerants in systems					
1101	and in pressure vessel					
14.04	Knowledge of the safety		_	T		
	requirements for service tools and equipment (recovery					
	stations, vacuum pumps,					
	electronic leak detectors)					
	including gas detection, leak					
	detection, personal protective					
	equipment especially gas					
14.07	masks, Scrubbers			TD.		
14.05	Knowledge of the rules of safe operation, including			T		
	precautions against fires and					
	explosions as well as injuries					
	due to toxicity					
14.06	Knowledge of the materials		_	T		
	compatible with R717 (NH ₃)					
14.07	Preparation of the work area		-	P		
	and selection of appropriate tools, equipment and					
	tools, equipment and protective equipment for					
	working on systems relying on					
	R717 (NH ₃)					
14.06	Performance of a risk analysis	_		P		
	before starting the work and					
	elimination or, if elimination					
	is not possible, identification of sources of danger.					
14.07	Basic knowledge of the			P		
11.07	correct construction and			1		
	installation or service					
	activities of systems					
14.08	Opening of the system by	_	_	P		_
	welding (or other appropriate					
	procedure), removal and					
	exchange of a component and					

	1 ' C 1 1				
	closing of the system by				
	welding (or other appropriate				
	procedure).				
14.09	Carrying out a pressure test to	 	P		
	check the tightness of the				
	system				
14.10	Carrying out a vacuum test to	 	P		
14.10	remove moisture and check		1		
1111	the tightness of the system		-		
14.11	Charge of the system with	 	P		
	designed charge of toxic				
	refrigerant				
14.12	Carrying out a check for	 	P		
	leakage of the system using				
	one of the direct methods				
14.13	Safe recovery of toxic	 	P	Р	
1 1110	refrigerant from the system		1	1	
	and filling the system with				
	<u> </u>				
1 4 1 4	nitrogen		D		
14.14	Writing of a report about the	 	P	-	
	performed service work				
14.15	Visual inspection of the	 —	P		—
	tightness of system				
	components such as safety				
	valves and their inspection				
	interval				
14.16	Checking that health and	 	P		
1.110	safety measures according to		-		
	applicable rules are in place at				
	= = =				
	the location of the system (for				
	example signs, emergency				
	exits, gas sensors, gas alarms				
	etc.)				
14.17	Calculation of allowed toxic	 _	T		_
	refrigerant charge in a system				
	according to applicable safety				
	standards				
14.18	Knowledge ofmeasures of	 	Т		
	improving or maintaining the		_		
	energy efficiency of				
	equipment during installation				
	or maintenance with toxic				
	refrigerants				

ANNEX II

Correlation table

Commission Implementing Regulation (EU) 2015/2065	This Regulation
Article 1	Article 1
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Annex I	Annex I
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ANNEX [...]