Appendix 2.1 - Reporting of PM emissions

Table A2.1: Inclusion/exclusion of the condensable component from PM,,10,, and PM,,2.5,, emission factors (NOTE: NFR categories with no reported activity or PM emissions (notation keys 'NO' or 'NA' in the NFR tables) are excluded here!)

NFR code	Source / sector name	condensable component		EF reference and/or comments	
		included	excluded		
NFR 1 -	Energy				
1.A.1.a	Public electricity and heat production		x		
1.A.1.b	Petroleum refining		Х		
1.A.1.c	Manufacture of solid fuels and other energy industries		x		
1.A.2.a	Stationary combustion in manufacturing industries and construction: Iron and steel		x		
1.A.2.b	Stationary combustion in manufacturing industries and construction: Non- ferrous metals		?	no indication	
1.A.2.c	Stationary combustion in manufacturing industries and construction: Chemicals				
1.A.2.d	Stationary combustion in manufacturing industries and construction: Pulp, Paper and Print				
1.A.2.e	Stationary combustion in manufacturing industries and construction: Food processing, beverages and tobacco		х		

NFR code	Sou	rce / sector name	condensab componen			EF referenc and/or comments				
1.A.2.f	manu indus const	nary ustion in facturing tries and ruction: Non- lic minerals								
1.A.2.g vii	in ma indus const	e combustion nufacturing tries and ruction (please fy in the IIR)	x¹			country-speci EF likely to include condensable				
1.A.2.g viii	co ma ind const	Stationary mbustion in nufacturing dustries and cruction: Other ase specify in the IIR)				х				
1.A.3.a i(i)		ternational ion LTO (civil)	?			country-specifi EF without clear indication				
1.A.3.a ii(i)	Dom	estic aviation L	.TO (civil)			?				country-specific EF without clear indication
1.A.3.b		ad transport: ssenger cars		x¹				country-specif EF likely to include condensables		
1.A.3.b ii		ad transport: duty vehicles	x¹			country-speci EF likely to include condensable				
1.A.3.b iii	Heav	ad transport: y duty vehicles and buses	x¹			country-speci EF likely to include condensable				
1.A.3.b iv	F	Road transport: Mopeds & motorcycles				country-speci EF likely to include condensable				
1.A.3.	b v	Road trans evap	port: Gaso poration	line		NA				
1.A.3.	b vi	Road transpo					x			
1.A.3.l	1.A.3.b vii Road transport: Auto			bile			Х			
1.A.3	3.c	Rail	ways		x<	sup>1			li	untry-specific EF kely to include condensables

1.A.3.d i(ii)	International inland waterways	5	IE	included in NFR 1.A.3.d ii	
1.A.3.d ii	National navigation (shipping)		x ¹		country-specific EF likely to include condensables
1.A.3.e i	Pipeline transport			x	
1.A.4.a i	Commercial/Institutional: Stationary			x	
1.A.4.a ii	Commercial/Institutional: Mobile		x ¹		country-specific EF likely to include condensables
1.A.4.b i	Residential: Stationary			x	
1.A.4.b ii	Residential: Household and gardening (mobile)			?	country-specific EF without clear indication
1.A.4.c i	Agriculture/Forestry/Fishing: Stationary			x	
1.A.4.c ii	Agriculture/Forestry/Fishing: Off-road vehicles and other machinery		x ¹		country-specific EF likely to include condensables
1.A.4.c iii	Agriculture/Forestry/Fishing: National fishing			?	country-specific EF without clear indication
1.A.5.a	Other stationary (including military)			x	
1.A.5.b	Other, Mobile (including military, land based and recreational boats)		x ¹		country-specific EF likely to include condensables
1.B.1.a	Fugitive emission from solid fuels: Coal mining and handling			X	
1.B.1.b	Fugitive emission from solid fuels: Solid fuel transformation			x	
1.B.2.c	Venting and flaring (oil, gas, combined oil and gas)			?	EMEP GB 2016 EF without any indication
NFR 2 - IPPU					
2.A.1	Cement production			?	country-specific EF without any indication
2.A.2	Lime production			?	country-specific EF without any indication
2.A.3	Glass production			?	country-specific EF without any indication
2.A.5.a	Quarrying and mining of minerals other than coal			?	EMEP GB 2016 EF without any indication

2.A.5.b	Construction and demolition		?	EMEP GB 2016 EF without any indication
2.A.5.c	Storage, handling and transport of mineral products	IE	included in NFR 2.L	
2.A.6	Other mineral products (please specify in the IIR)		?	country-specific EF without any indication
2.B.3	Adipic acid production	NE	no EF in EMEP GB 2019	
2.B.5	Carbide production		?	country-specific EF without any indication
2.B.7	Soda ash production		?	country-specific EF without any indication
2.B.10.a	Chemical industry: Other (please specify in the IIR)		?	carbon black: country-specific EF without any indication
2.B.10.a	Chemical industry: Other (please specify in the IIR)		?	fertilizer production: country-specific EF without any indication
2.B.10.b	Storage, handling and transport of chemical products (please specify in the IIR)	IE	included in NFR 2.L	
2.C.1	Iron and steel production		?	country-specific EF without any indication
2.C.2	Ferroalloys production		?	country-specific EF without any indication
2.C.3	Aluminium production		?	country-specific EF without any indication
2.C.4	Magnesium production	NE	no primary magnesium production; emission for secondary magnesium production allocated in 1.A.2.b	
2.C.5	Lead production		?	country-specific EF without any indication
2.C.6	Zinc production		?	country-specific EF without any indication

2.C.7.a	Copper production		?	country-specific EF without any indication
2.C.7.c	Other metal production (please specify in the IIR)		?	no indication
2.C.7.d	Storage, handling and transport of metal products (please specify in the IIR)	IE	included in NFR 2.L	
2.D.3.b	Road paving with asphalt		?	country-specific EF without any indication
2.G	Other product use: Tobacco		?	country-specific EF without any indication
2.G	Other product use: Fireworks		?	EMEP GB 2019 EF without any indication
2.G	Other product use: Charcoal		?	EF from 1.A.4 EMEP GB 2019 EF without any indication
2.H.1	Pulp and paper industry		?	country-specific EF without any indication
2.H.2	Food and beverages industry		?	EMEP GB 2016 EF without any indication
2.1	Wood processing		?	country-specific EF without any indication
2.J	Production of POPs	NE		
2.L	Other production, consumption, storage, transportation or handling of bulk products (please specify in the IIR)	?	country-specific EF without any indication	
NFR 3 - Agriculture				
3.B.1.a	Manure management - Dairy cattle		?	EMEP GB 2016 EF without any indication
3.B.1.b	Manure management - Non- dairy cattle		?	EMEP GB 2016 EF without any indication
3.B.2	Manure management - Sheep		?	EMEP GB 2016 EF without any indication
3.B.3	Manure management - Swine		?	EMEP GB 2016 EF without any indication
3.B.4.a	Manure management - Buffalo	IE	EMEP GB 2016 EF without any indication	

				EMEP GB 2016 EF
3.B.4.d	Manure management - Goats		?	without any indication
				EMEP GB 2016 EF
3.B.4.e	Manure management - Horses		?	without any
	-			indication
3.B.4.f	Manure management - Mules	IE	EMEP GB 2016	
3.0.4.1	and asses	IE IE	EF without any indication	
	Manusa managamant Inging			EMEP GB 2016 EF
3.B.4.g i	Manure management - Laying hens		?	without any
				indication
3.B.4.g ii	 Manure management - Broilers		?	EMEP GB 2016 EF without any
3.5.1.9 "	Hanare management Broners			indication
				EMEP GB 2016 EF
3.B.4.g iii	Manure management - Turkeys		?	without any indication
				EMEP GB 2016 EF
3.B.4.g iv	Manure management - Other		?	without any
_	poultry			indication
2.0.4.5	Manure management - Other	NIE.	EMEP GB 2016	
3.B.4.h	animals (please specify in the IIR)	NE.	EF without any indication	
	Farm-level agricultural		mareación	5M5D CD 2016 55
3.D.c	operations including storage,		?	EMEP GB 2016 EF without any
3.5.0	handling and transport of agricultural products			indication
NFR 5 -	agricultural products			
Waste				
	Biological Treatment of Waste	_		EMEP-GB 2019: EF
5.A	Solid Waste Disposal on Land		?	without any indication
	·			country-specific EF
5.C.1.b v	Cremation		?	without any
				indication
F F 2	Other Waste: Building and Car			EMEP GB 2016 EF
5.E.2	Fires		?	without any indication
МЕМО				
ITEMS -				
NOT TO BE INCLUDED				
INCLUDED				
NATIONAL				
TOTALS				
1.A.3.a i(ii)	International aviation cruise		?	country-specific EF without clear
±17 (1510 I(II)	(civil)		•	indication
				country-specific EF
1.A.3.a ii(ii)	Domestic aviation cruise (civil)		?	without clear
				indication

1.A.3.d i(i)	International maritime navigation		?	country-specific EF without clear indication
1.A.5.c	Multilateral operations	NE		
11.B	Forest fires		?	EMEP GB 2016 EF without any indication

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