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 - E	Energy				
1.A.1.a	Public electricity and heat production		х		
1.A.1.b	Petroleum refining		Х		
1.A.1.c	Manufacture of solid fuels and other energy industries		х		
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		x		
1.A.2.f	Stationary combustion in manufacturing industries and construction: Non-metallic minerals				
1.A.2.g vii	Mobile combustion in manufacturing industries and construction (please specify in the IIR)	x¹		country-specific EF likely to include condensables	
1.A.2.g viii	Stationary combustion in manufacturing industries and construction: Other (please specify in the IIR)		X		
1.A.3.a i(i)	International aviation LTO (civil)	?		country-specific EF without clear indication	

NFR code		Source / sector name			ndensable mponent a	EF reference and/or comments	6
1.A.3.a ii(i)	Do	mestic aviation LTO (civil)	?		?		country-specific EF without clear indication
1.A.3.b i	Ro	oad transport: Passenger cars			x¹		country-specific EF likely to include condensables
1.A.3.b ii	R	oad transport: Light duty vehicles	x¹		C	country-specific EF likely to include condensables	
1.A.3.b iii	Ro	oad transport: Heavy duty vehicles and buses	x¹		C	country-specific EF likely to include condensables	
1.A.3.b iv		Road transport: Mopeds & motorcycles	x¹		C	country-specific EF likely to include condensables	
1.A.3.b	v	Road transport: Gasolii evaporation	ne		NA		
1.A.3.b	vi	Road transport: Automob tyre and brake wear	ile			x	
1.A.3.b	vii	Road transport: Automob road abrasion	ile			x	
1.A.3.d	;	Railways		×	< ¹		country-specific EF likely to include condensables
1.A.3.d	i(ii)	International inland water	ways		IE	included in NFR 1.A.3.d ii	
1.A.3.d	ii	National navigation (shipp	ing)	×	< ¹		country-specific EF likely to include condensables
1.A.3.e	i	Pipeline transport		I		х	
1.A.4.a	i	Commercial/Institutiona Stationary	l:			х	
1.A.4.a	ii	Commercial/Institutio Mo	nal: bile	×	< ¹		country-specific EF likely to include condensables
1.A.4.b	i	Residential: Stationary		1		х	
1.A.4.b	ii	Residential: Household a gardening (mobile)	and			?	country-specific EF without clear indication
1.A.4.c	i	Agriculture/Forestry/Fishin Stationary	ng:			x	
1.A.4.c	ii	Agriculture/Forestry/Fishir Off-road vehicles and oth machinery		×	< ¹		country-specific EF likely to include condensables
1.A.4.c	iii	Agriculture/Forestry/Fish National fishing	ing:			?	country-specific EF without clear indication
1.A.5.a	a	Other stationary (includir military)	ng			х	

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	J			
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	
3.B.4.d	Manure management - Goats		?	EMEP GB 2016 EF without any indication
3.B.4.e	Manure management - Horses		?	EMEP GB 2016 EF without any indication
3.B.4.f	Manure management - Mules and asses	IE	EMEP GB 2016 EF without any indication	
3.B.4.g i	Manure management - Laying hens		?	EMEP GB 2016 EF without any indication
3.B.4.g ii	Manure management - Broilers		?	EMEP GB 2016 EF without any indication
3.B.4.g iii	Manure management - Turkeys		?	EMEP GB 2016 EF without any indication
3.B.4.g iv	Manure management - Other poultry		?	EMEP GB 2016 EF without any indication
3.B.4.h	Manure management - Other animals (please specify in the IIR)	NE	EMEP GB 2016 EF without any indication	

3.D.c	Farm-level agricultural operations including storage, handling and transport of agricultural products		?	EMEP GB 2016 EF without any indication
NFR 5 - Waste				
5.A	Biological Treatment of Waste - Solid Waste Disposal on Land		?	EMEP-GB 2019: EF without any indication
5.C.1.b v	Cremation		?	country-specific EF without any indication
5.E.2	Other Waste: Building and Car Fires		?	EMEP GB 2016 EF without any indication
MEMO ITEMS - NOT TO BE INCLUDED IN NATIONAL TOTALS				
1.A.3.a i(ii)	International aviation cruise (civil)		?	country-specific EF without clear indication
1.A.3.a ii(ii)	Domestic aviation cruise (civil)		?	country-specific EF 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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