Appendix 2.1 - Reporting of PM emissions

<u>Table A2.1: Inclusion/exclusion of the condensable component from PM,,10,, and PM,,2.5,, emission factors</u> (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		nsable onent	EF reference and/or comments
		-	excluded	
NFR 1 - E	nergy		!	
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 & construction: Non-ferrous metals		?	no indication
1.A.2.c	Stationary combustion in manufacturing industries & construction: Chemicals			
1.A.2.d	Stationary combustion in manufacturing industries & construction: Pulp, Paper & Print			
1.A.2.e	Stationary combustion in manufacturing industries & construction: Food processing, beverages & tobacco		x	
1.A.2.f	Stationary combustion in manufacturing industries & construction: Non-metallic minerals			
1.A.2.g vii	Mobile combustion in manufacturing industries & construction	x¹		country-specific EF likely to include condensables
1.A.2.g viii	Stationary combustion in manufacturing industries & construction		x	
1.A.3.a i(i)	International aviation LTO (civil)		?	country-specific EF without clear indication
1.A.3.a ii(i)	Domestic aviation LTO (civil)		?	country-specific EF without clear indication
1.A.3.b i	Road transport: Passenger cars	X ¹		country-specific EF likely to include condensables
1.A.3.b ii	Road transport: Light duty vehicles	X ¹		country-specific EF likely to include condensables
1.A.3.b iii	Road transport: Heavy duty vehicles and buses	x ¹		country-specific EF likely to include condensables

NFR code		Source / sector na	ame		condensable component		_	EF reference and/or comments	
1.A.3.b iv	Road transport: Mopeds & motorcycles			2	x ¹			country-specific EF likely to include condensables	
1.A.3.b v	Road transport: Gasoline evaporation					1	NA		no PM emissions from this source category
1.A.3.b vi	Road transport: Automobile tyre and brake wear						x		
1.A.3.b vii	Road	transport: Automobile ro	ad abra	sion			X		
1.A.3.c	Railwa	ays			2	X ¹			country-specific EF likely to include condensables
1.A.3.d i(ii)	International inland waterways					IE		included in NFR 1.A.3.d	
	National navigation (shipping)				2	X ¹			country-specific EF likely to include condensables
	· ·	ne transport					X		
1.A.4.a i	Comm	nercial/Institutional: Stat	ionary				X		
1.A.4.a ii		Commercial/Instit	utional:	Mobile	x¹				country-specific EF likely to include condensables
1.A.4.b i		Residential: Station	ary		х				
1.A.4.b ii	Re	sidential: Household and (mobile)	l garder	ning	?				country-specific EF without clear indication
1.A.4.c i	Agr	iculture/Forestry/Fishing	: Statio	nary			Х		
1.A.4.c ii	Ag	riculture/Forestry/Fishin vehicles and other mad	-	oad	x¹				country-specific EF likely to include condensables
1.A.4.c iii	Ag	riculture/Forestry/Fishin fishing	g: Natio	nal	?				country-specific EF without clear indication
1.A.5.a	0	ther stationary (includin	g militaı	ry)			Х		
1.A.5.b	Other	Mobile (including milita and recreational bo	ry, land ats)	based	x¹				country-specific EF likely to include condensables
1.B.1.	а	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 (oi combined oil and g		?	EMEP GB 2016 EF wit any indication		EP GB 2016 EF without any indication		
NFR 2 - IF	PU								
2.A.1		Cement productio	n	?	cc			ntry-specific EF without any indication	
2.A.2	2	Lime production		?		country-specific EF without any indication			any indication
2.A.3	3	Glass production		?				cou	ntry-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	ΙE	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)	ΙE	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

gical Treatment of Was I Waste Disposal on La Cremation Waste: Building and C Fires	nd	? ?	EMEP-GB 2019: EF without any indication country-specific EF without any indication EMEP GB 2016 EF without any indication
Waste: Building and C	ar		any indication EMEP GB 2016 EF without
	ar	?	
national aviation cruis (civil)	е	?	country-specific EF without clear indication
stic aviation cruise (civ	ıil)	?	country-specific EF without clear indication
ternational maritime navigation		?	country-specific EF without clear indication
ultilateral operations	NE		
Forest fires		?	EMEP GB 2016 EF without any indication
	(civil) stic aviation cruise (civiternational maritime navigation ultilateral operations	stic aviation cruise (civil) ternational maritime navigation ultilateral operations	(civil) stic aviation cruise (civil) ternational maritime navigation ultilateral operations ?