## **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	inergy	-	-	•
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		х	
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		х	
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	x¹		country-specific EF likely to include condensables

NFR code		Source / sector name			condensable component		EF	reference and/or comments	
1.A.3.b ii	Road transport: Light duty vehicles			x¹		like	untry-specific EF ely to include ndensables		
1.A.3.b iii	Road transport: Heavy duty vehicles and buses			x¹		like	untry-specific EF ely to include ndensables		
1.A.3.b iv	Road transport: Mopeds & motorcycles		les	x¹		like	untry-specific EF ely to include ndensables		
1.A.3.b v	Roa	d transport: Gasoline evaporati	ior	n	NA		1	PM emissions from s source category	
1.A.3.b vi		d transport: Automobile tyre ar ke wear	nd				х		
1.A.3.b vii		d transport: Automobile road asion					х		
1.A.3.c	Rail	ways			x <sup>1<sup></sup></sup>		like	untry-specific EF ely to include ndensables	
1.A.3.d i(ii)	Inte	ernational inland waterways			IE			luded in NFR a.3.d ii	
1.A.3.d ii	Nat	ional navigation (shipping)			x <sup>1<sup></sup></sup>			like	untry-specific EF ely to include ndensables
1.A.3.e i	Pipe	eline transport					Х		
1.A.4.a i	Con	nmercial/Institutional: Stationar	'n				Х		
1.A.4.a	ii	Commercial/Institutional: Mobile		x </td <td>sup&gt;1<sup></sup></td> <td></td> <td></td> <td></td> <td>country-specific EF likely to include condensables</td>	sup>1 <sup></sup>				country-specific EF likely to include condensables
1.A.4.b	i	Residential: Stationary				х			
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				х			
1.A.4.c	ii	Agriculture/Forestry/Fishing: Off-road vehicles and other machinery		x </td <td>sup&gt;1<sup></sup></td> <td></td> <td></td> <td></td> <td>country-specific EF likely to include condensables</td>	sup>1 <sup></sup>				country-specific EF likely to include condensables
1.A.4.c i	iii	Agriculture/Forestry/Fishing: National fishing				?			country-specific EF without clear indication
1.A.5.a	l	Other stationary (including military)				х			
1.A.5.b	)	Other, Mobile (including military, land based and recreational boats)		x<:	sup>1 <sup></sup>				country-specific EF likely to include condensables
1.B.1.a	ı	Fugitive emission from solid fuels: Coal mining and handling				х			

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)	ΙE	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		

NFR 5 - Waste				
3.D.c	Farm-level agricultural operations including storage, handling and transport of agricultural products		?	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.B.4.g iv	Manure management - Other poultry		?	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 ii	Manure management - Broilers		?	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.f	Manure management - Mules and asses	IE	EMEP GB 2016 EF without any indication	
3.B.4.e	Manure management - Horses		?	EMEP GB 2016 EF without any indication
3.B.4.d	Manure management - Goats		?	EMEP GB 2016 EF without any indication
3.B.4.a	Manure management - Buffalo	IE	EMEP GB 2016 EF without any indication	
3.B.3	Manure management - Swine		?	EMEP GB 2016 EF without any indication
3.B.2	Manure management - Sheep		?	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.1.a	Manure management - Dairy cattle		?	EMEP GB 2016 EF without any indication
NFR 3 - Agriculture				
2.L	Other production, consumption, storage, transportation or handling of bulk products (please specify in the IIR)	?	country-specific EF without any indication	

5.A	Biological Treatment of Waste - Solid Waste Disposal on Land	1	?	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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