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 - Energ	У				
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 manufac industries and construction: Non-1 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)	orange	x^^1^^		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 (civ	/il)		?	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	orange	x^^1^^		country-specific EF likely to include condensables
1.A.3.b ii	Road transport: Light duty vehicles	orange	x^^1^^		country-specific EF likely to include condensables
1.A.3.b iii	Road transport: Heavy duty vehicles and buses	orange	x^^1^^		country-specific EF likely to include condensables
1.A.3.b iv	Road transport: Mopeds & motorcycles	orange	x^^1^^		country-specific EF likely to include condensables
1.A.3.b v	Road transport: Gasoline evapor	ation	NA		

1.A.3.b vi	Road transport: Automobile tyre and brake wear			x		
1.A.3.b vii	Road transport: Automobile road abrasion			x		
1.A.3.c	Railways	orange	x^^1^^		country-specific EF likely to include condensables	
1.A.3.d i(ii)	International inland waterwa	ays	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	orange	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 gard (mobile)	dening		?	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	orange	x^^1^^		country-specific EF likely to include condensables	
1.A.4.c iii	Agriculture/Forestry/Fishing: Nation	nal 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)	orange	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, combin gas)	ned oil and		?	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 o coal	other than		?	EMEP GB 2016 EF without any indication	
2.A.5.b	Construction and demolitio	n		?	EMEP GB 2016 EF without any indication	
2.A.5.c	Storage, handling and transport of products		IE	included in NFR 2.L		
2.A.6	Other mineral products (please spe IIR)	cify in the		?	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	

3.B.3	Manure management - Swine		?	without any indication	
3.B.2	Manure management - Sheep		?	without any indication EMEP GB 2016 EF	
3.B.1.b	Manure management - Non-dairy cattle		?	emer GB 2010 EF without any indication EMEP GB 2016 EF	
3.B.1.a	Manure management - Dairy cattle		?	EMEP GB 2016 EF without any indication EMEP GB 2016 EF	-
Agriculture					-
2.L	transportation or handling of bulk products (please specify in the IIR)	?	country-specific EF without any indication		
2.J	Produ Other production, consumption, storage,	superscript	country-specific	ction of POPs	NE
2.1	Wood processing		?	country-specific EF without any indication	
2.H.2	Food and beverages industry		?	EMEP GB 2016 EF without any indication	
2.H.1	Pulp and paper industry		?	country-specific EF without any indication	
2.G	Other product use: Charcoal		?	EF from 1.A.4 EMEP GB 2019 EF without any indication	
2.G	Other product use: Fireworks		?	EMEP GB 2019 EF without any indication	
2.G	Other product use: Tobacco		?	country-specific EF without any indication	
2.D.3.b	Road paving with asphalt		?	country-specific EF without any indication	
2.C.7.d	Storage, handling and transport of metal products (please specify in the IIR)	IE	included in NFR 2.L		
2.C.7.c	Other metal production (please specify in the IIR)		?	no indication	
2.C.7.a	Copper production		?	country-specific EF without any indication	
2.C.6	Zinc production		?	country-specific EF without any indication	
2.C.5	Lead 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.3	Aluminium production		?	country-specific EF without any indication	
2.C.2	Ferroalloys production		?	country-specific EF without any indication	
2.C.1	Iron and steel 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.B.10.a	Chemical industry: Other (please specify in the IIR)		?	fertilizer 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	

3.B.4.a	Manure management - Buffalo	IE	Ē	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 ass	es li		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)		E	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 V Disposal on			?	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		E			
	Forest fires				EMEP GB 2016 EF	