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		Source / sector name			condensable component			EF reference
code	code			include	ed	excluded	and/or comments	
NFR 1 - E	ner	ду						
1.A.1.a	Public electricity and heat production					Х		
1.A.1.b	Pet	roleum 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 .b industries and construction: Non-ferrous metals			?			no indication	
1.A.2.c		ationary combustion in manufac Idustries and construction: Chen						
1.A.2.d		Stationary combustion in manufacturing industries and construction: Pulp, Paper and Print						
1.A.2.e	St	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)			x ^{1<}	sup>		country-specific EF likely to include condensables
1.A.2.g v	iii	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
1.A.3.a	ii(i)	Domestic aviation LTO (civil)) (civil)			?		country-specific EF without clear indication
1.A.3.b	A.3.b i Road transport: Passenger cars		x <su< td=""><td>p>1</td><td></td><td></td><td>country-specific EF likely to include condensables</td></su<>	p>1			country-specific EF likely to include condensables	
1.A.3.b i	1.A.3.b ii Road transport: Light duty vehicles		x <su< td=""><td>p>1</td><td></td><td></td><td>country-specific EF likely to include condensables</td></su<>	p>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
1.A.3.b iv	Road transport: Mopeds & motorcycles		x ¹		country-specific EF likely to include condensables
1.A.3.b v	Road transport: Gasoline evaporation		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		x ¹		country-specific EF likely 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			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			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	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

	T T T T T T T T T T T T T T T T T T T			
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 transpor 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				

	Manager Daine			EMEP GB 2016 EF
3.B.1.a	Manure management - Dairy cattle		?	without any
	catero			indication
3.B.1.b	Manure management - Non-		?	EMEP GB 2016 EF without any
	dairy cattle		•	indication
				EMEP GB 2016 EF
3.B.2	Manure management - Sheep		?	without any
				indication
2.5.2				EMEP GB 2016 EF
3.B.3	Manure management - Swine		?	without any indication
			EMEP GB 2016	indication
3.B.4.a	 Manure management - Buffalo	IE	EF without any	
0.2			indication	
				EMEP GB 2016 EF
3.B.4.d	Manure management - Goats		?	without any
				indication
3.B.4.e	Manure management - Horses		?	EMEP GB 2016 EF without any
3.5.4.0	Manure management - Horses		•	indication
	Manusa managarant Mulas		EMEP GB 2016	
3.B.4.f	Manure management - Mules and asses	IE	EF without any	
	und doses		indication	
2.0.4 ~ ;	Manure management - Laying		2	EMEP GB 2016 EF
3.B.4.g i	hens		?	without any indication
				EMEP GB 2016 EF
3.B.4.g ii	Manure management - Broilers		?	without any
				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
3.2	poultry			indication
	Manure management - Other		EMEP GB 2016	
3.B.4.h	animals (please specify in the	NE	EF without any	
	IIR)		indication	
	Farm-level agricultural operations including storage,			EMEP GB 2016 EF
3.D.c	handling and transport of		?	without any
	agricultural products			indication
NFR 5 -				
Waste				
Г А	Biological Treatment of Waste -		2	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

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

1