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 - Energy								
< 1.A.1.a	< Public electricity and heat production	=		= ##green	x ##	<		
< 1.A.1.b	< Petroleum refining	=		= ##green	x ##	<		
< 1.A.1.c	< Manufacture of solid fuels and other energy industries	=		= ##green	x ##	<		
< 1.A.2.a	< Stationary combustion in manufacturing industries and construction: Iron and steel	=		= ##green	x ##	<		
< 1.A.2.b	< Stationary combustion in manufacturing industries and construction: Non-ferrous metals		= ##red	**?##**	< 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	=		= ##green	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)	=		= ##green	x ##	<		

Code	Description				Comment
< 1.A.3.a i(i)	< International aviation LTO (civil)	= ##red	**?##**		< country-specific EF without clear indication
< 1.A.3.a ii(i)	< Domestic aviation LTO (civil)	= ##red	**?##**		< 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 evaporation	= NA	<		
< 1.A.3.b vi	< Road transport: Automobile tyre and brake wear	=	= ##green	x ##	<
< 1.A.3.b vii	< Road transport: Automobile road abrasion	=	= ##green	x ##	<
< 1.A.3.c	< Railways	= ##orange	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 ii		
< 1.A.3.d ii	< National navigation (shipping)	= ##green	x^^1^^##		< country-specific EF likely to include condensables
< 1.A.3.e i	< Pipeline transport	=	= ##green	x ##	<
< 1.A.4.a i	< Commercial/Institutional: Stationary	=	= ##green	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	=	= ##green	x ##	<
< 1.A.4.b ii	< Residential: Household and gardening (mobile)	= ##red	**?##**		< country-specific EF without clear indication

< 1.A.4.c i	< Agriculture/Forestry/Fishing: Stationary	=	= ##green	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: National fishing	= ##red	**?##**		< country-specific EF without clear indication		
< 1.A.5.a	< Other stationary (including military)	=	= ##green	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	=	= ##green	x ##	<		
< 1.B.1.b	< Fugitive emission from solid fuels: Solid fuel transformation	=	= ##green	x ##	<		
< 1.B.2.c	< Venting and flaring (oil, gas, combined oil and gas)	= ##red	**?##**		< EMEP GB 2016 EF without any indication		
< NFR 2 - IPPU							
< 2.A.1	< Cement production	= ##red	**?##**		< country-specific EF without any indication		
< 2.A.2	< Lime production	= ##red	**?##**		< country-specific EF without any indication		
< 2.A.3	< Glass production	= ##red	**?##**		< country-specific EF without any indication		
< 2.A.5.a	< Quarrying and mining of minerals other than coal	= ##red	**?##**		< EMEP GB 2016 EF without any indication		
< 2.A.5.b	< Construction and demolition	= ##red	**?##**		< 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)	= ##red	?##	< country-specific EF without any indication		
< 2.B.3	< Adipic acid production	= NE	< no EF in EMEP GB 2019			
< 2.B.5	< Carbide production	= ##red	?##	< country-specific EF without any indication		
< 2.B.7	< Soda ash production	= ##red	?##	< country-specific EF without any indication		
< 2.B.10.a	< Chemical industry: Other (please specify in the IIR)	= ##red	?##	< carbon black: country-specific EF without any indication		
< 2.B.10.a	< Chemical industry: Other (please specify in the IIR)	= ##red	?##	< 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	= ##red	?##	< country-specific EF without any indication		
< 2.C.2	< Ferroalloys production	= ##red	?##	< country-specific EF without any indication		
< 2.C.3	< Aluminium production	= ##red	?##	< 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	= ##red	?##	< country-specific EF without any indication		
< 2.C.6	< Zinc production	= ##red	?##	< country-specific EF without any indication		
< 2.C.7.a	< Copper production	= ##red	?##	< country-specific EF without any indication		

< 2.C.7.c	< Other metal production (please specify in the IIR)	= ##red	?##		< 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	= ##red	?##		< country-specific EF without any indication				
< 2.G	< Other product use: Tobacco	= ##red	?##		< country-specific EF without any indication				
< 2.G	< Other product use: Fireworks	= ##red	?##		< EMEP GB 2019 EF without any indication				
< 2.G	< Other product use: Charcoal	= ##red	?##		< EF from 1.A.4 EMEP GB 2019 EF without any indication				
< 2.H.1	< Pulp and paper industry	= ##red	?##		< country-specific EF without any indication				
< 2.H.2	< Food and beverages industry	= ##red	?##		< EMEP GB 2016 EF without any indication				
< 2.I	< Wood processing	= ##red	?##		< country-specific EF without any indication				
< 2.J	< Produ	**superscript**	**ction 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	= ##red	?##		< EMEP GB 2016 EF without any indication				
< 3.B.1.b	< Manure management - Non-dairy cattle	= ##red	?##		< EMEP GB 2016 EF without any indication				
< 3.B.2	< Manure management - Sheep	= ##red	?##		< EMEP GB 2016 EF without any indication				

< 3.B.3	< Manure management - Swine	= ##red	?##	< 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	= ##red	?##	< EMEP GB 2016 EF without any indication			
< 3.B.4.e	< Manure management - Horses	= ##red	?##	< 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	= ##red	?##	< EMEP GB 2016 EF without any indication			
< 3.B.4.g ii	< Manure management - Broilers	= ##red	?##	< EMEP GB 2016 EF without any indication			
< 3.B.4.g iii	< Manure management - Turkeys	= ##red	?##	< EMEP GB 2016 EF without any indication			
< 3.B.4.g iv	< Manure management - Other poultry	= ##red	?##	< 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	= ##red	?##	< EMEP GB 2016 EF without any indication			
< NFR 5 - Waste							
< 5.A	< Biological Treatment of Waste - Solid Waste Disposal on Land	= ##red	?##	< EMEP-GB 2019: EF without any indication			
< 5.C.1.b v	< Cremation	= ##red	?##	< country-specific EF without any indication			
< 5.E.2	< Other Waste: Building and Car Fires	= ##red	?##	< 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)		= ##red	?##	< country-specific EF without clear indication		
< 1.A.3.a ii(ii)	< Domestic aviation cruise (civil)		= ##red	?##	< country-specific EF without clear indication		
< 1.A.3.d i(i)	< International maritime navigation		= ##red	?##	< country-specific EF without clear indication		
< 1.A.5.c	< Multilateral operations		= NE	<			
< 11.B	< Forest fires		= ##red	?##	< EMEP GB 2016 EF without any indication		
1							