

Appendix 2.1 - Reporting of PM emissions

Table A2.1: Documentation entries of the Central System Emissions database for the condensable fraction of PM_{2.5}



NFR categories with no reported activity or PM emissions (notation keys 'NO' or 'NA' in the NFR tables) are excluded here.)

The condensable fraction of particulate matter (PM_{2.5}) is documented for all source groups in the emissions database ("Central Emissions System") of the German Environmental Agency. A documentation entry has been created for each source group, indicating the following options for condensable particulate matter (PM_{2.5}):

- The documentation for the condensable fraction for PM_{2.5} is not available (documentation N/A)
- Yes (measured/determined) – The condensable fraction for PM_{2.5} was measured or determined
- NA (no condensable PM_{2.5} is generated in the process) – Therefore not applicable (NA)
- No (but potentially possible)
- Unknown – The condensable fraction for PM_{2.5} is unknown

Below is an excerpt from the current Central System Emissions, showing the aforementioned documentation entries for each source group.

| NFR Source Category | | Documentation not available | Yes (measured/determined) | Not Applicable (no condensable PM _{2.5} are generated in the process) | No (potentially possible) | Unknown | Number of document entries |
|---------------------|--|-----------------------------|---------------------------|--|---------------------------|---------|----------------------------|
| NFR 1 Energy | | | | | | | |
| 1 A 1 a | Public electricity and heat production | - | - | - | 147 | - | 147 |
| 1 A 1 b | Petroleum refining | - | - | - | 31 | - | 31 |
| 1 A 1 c | Manufacture of solid fuels and other energy industries | - | - | - | 49 | - | 49 |
| 1 A 2 a | Stationary combustion in manufacturing industries and construction: Iron and steel | - | - | - | 22 | - | 22 |
| 1 A 2 b | Stationary combustion in manufacturing industries and construction: Non-ferrous metals | - | - | - | - | - | - |
| 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 | - | - | - | - | - | - |
| 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) | - | 4 | - | - | - | 4 |
| 1 A 2 g viii | Stationary combustion in manufacturing industries and construction: Other (please specify in the IIR) | - | - | - | 102 | - | 102 |
| 1 A 3 a | Domestic Aviation | - | - | - | - | 4 | 4 |
| 1 A 3 b | Road Transport | - | 469 | 18 | - | - | 487 |
| 1 A 3 c | Railways | - | 11 | - | 1 | - | 12 |
| 1 A 3 d | Domestic Navigation | - | 5 | - | 1 | - | 6 |
| 1 A 3 e | Other Transportation | - | - | - | 3 | - | 3 |
| 1 A 4 a i | Commercial/Institutional: Stationary | - | - | - | 28 | - | 28 |
| 1 A 4 a ii | Commercial/Institutional: Mobile | - | 3 | - | - | - | 3 |
| 1 A 4 b i | Residential: Stationary | - | - | - | 14 | - | 14 |
| 1 A 4 b ii | Residential: Household and gardening (mobile) | - | - | - | 4 | 4 | 8 |
| 1 A 4 c i | Agriculture/Forestry/Fishing: Stationary | - | - | - | 15 | - | 15 |
| 1 A 4 c ii | Agriculture/Forestry/Fishing: Off-road vehicles and other machinery | - | 6 | - | - | - | 6 |
| 1 A 4 c iii | Agriculture/Forestry/Fishing: National fishing | - | - | - | - | 3 | 3 |
| 1 A 5 a | Other stationary (including military) | - | - | - | 10 | - | 10 |
| 1 A 5 b | Other, Mobile (including military, land based and recreational boats) | - | - | - | 9 | - | 9 |
| 1 B 1 a | Fugitive emission from solid fuels: Coal mining and handling | - | - | 1 | - | - | 1 |
| 1 B 1 b | Fugitive emission from solid fuels: Solid fuel transformation | - | - | 6 | 2 | - | 8 |
| 1 B 2 c | Venting and flaring (oil, gas, combined oil and gas) | - | - | - | 1 | - | 1 |
| 1 D 1 a | Civil Aviation (international) | - | - | - | - | 4 | 4 |
| 1 D 1 b | Maritime Navigation (international) | - | - | - | - | 2 | 2 |
| 11 B | Forest Fires | - | - | - | - | 1 | 1 |
| NFR 2 - IPPU | | | | | | | |
| 2 A 1 | Cement production | - | - | - | 1 | - | 1 |
| 2 A 2 | Lime production | - | - | - | - | 2 | 2 |
| 2 A 3 | Glass production | - | 6 | - | - | - | 6 |
| 2 A 4 A | Ceramics | - | - | - | - | 15 | 15 |
| 2 A 5 a | Quarrying and mining of minerals other than coal | - | - | 4 | - | - | 4 |
| 2 A 5 b | Construction and demolition | - | - | 5 | - | - | 5 |
| 2 B 5 | Carbide production | - | - | - | - | 1 | 1 |

| | | | | | | | |
|----------------------------|---|---|------------|-----------|------------|------------|--------------|
| 2 B 8 | Petrochemical and Carbon Black Production | - | - | - | - | 1 | 1 |
| 2 B 10 | Other | - | - | - | - | 1 | 1 |
| 2 C 1 | Iron and steel production | - | - | - | - | 7 | 7 |
| 2 C 2 | Ferroalloys production | - | - | - | - | 1 | 1 |
| 2 C 3 a | By-Product Emissions | - | - | - | - | 2 | 2 |
| 2 C 4 | Magnesium production | - | - | - | - | - | - |
| 2 C 5 | Lead production | - | - | - | - | 2 | 2 |
| 2 C 6 | Zinc production | - | - | - | - | 2 | 2 |
| 2 C 7 | Other | - | - | - | - | 3 | 3 |
| 2 D 3 b | Road paving with asphalt | - | - | - | - | 1 | 1 |
| 2 G 1 | Electric Equipment | - | - | - | - | - | - |
| 2 G 2 | SF ₆ and PFCs from Other Product Use | - | - | - | - | - | - |
| 2 G 3 | N ₂ O from Product Uses | - | - | - | - | - | - |
| 2 G 4 | Other | - | 3 | - | - | 1 | 4 |
| 2 H 1 | Pulp and paper industry | - | - | - | 2 | - | 2 |
| 2 H 2 | Food and beverages industry | - | - | - | - | 2 | 2 |
| 2 I | Wood processing | - | - | 1 | - | - | 1 |
| 2 L | Other production, consumption, storage, transportation or handling of bulk products (please specify in the IIR) | - | - | 1 | - | 89 | 90 |
| NFR 3 - Agriculture | | | | | | | |
| 3 B | Manure Management | - | - | 20 | - | - | 20 |
| 3 D | Agricultural Soils | - | - | 1 | - | - | 1 |
| NFR 5 - Waste | | | | | | | |
| 5 A | Biological treatment of waste - Solid waste disposal on land | - | - | 1 | - | - | 1 |
| 5 C | Waste Incineration | - | - | - | 1 | 1 | 2 |
| 5 E | Other waste (please specify in the IIR) | - | - | - | - | 6 | 6 |
| SUM | | - | 507 | 58 | 443 | 155 | 1,163 |