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From:	Secretary-General of the European Commission, signed by Mr Jordi AYET PUIGARNAU, Director
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To:	Mr Uwe CORSEPIUS, Secretary-General of the Council of the European Union

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Subject:	ANNEXES to the Proposal for a Directive of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants

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Delegations will find attached document COM(2013) 919 final Annexes 1 to 4.

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Encl.: COM(2013) 919 final Annexes 1 to 4



Brussels, 18.12.2013  
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ANNEXES 1 to 4

**ANNEXES**

**to the Proposal**

**for a**

**DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL**

**on the limitation of emissions of certain pollutants into the air from medium combustion plants**

## ANNEX I

### **Information to be notified by the operator to the competent authority**

1. Rated thermal input (MW) of the medium combustion plant;
2. Type of the medium combustion plant;
3. Type and share of fuels used according to the fuel categories laid down in Annex II;
4. The date of the start of the operation of the medium combustion plant;
5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code);
6. The expected number of operating hours of the medium combustion plant and the average load in use;
7. The applicable emission limit values, together with a declaration signed by the operator to operate the plant in accordance with those values, from the relevant date laid down in Article 5;
8. In case the second subparagraph of Article 5(2) is used, a declaration signed by the operator to operate the plant not more than 300 hours per year;
9. The name and the registered office of the operator and, in case of stationary medium combustion plants, the address where the plant is located.

## ANNEX II

### **Emission limit values referred to in Article 5(1)**

All emission limit values set out in this Annex are defined at a temperature of 273,15 K, a pressure of 101,3 kPa and after correction for the water vapour content of the waste gases and at a standardised O<sub>2</sub> content of 6 % for combustion plants using solid fuels, 3 % for combustion plants, other than engines and gas turbines, using liquid and gaseous fuels and 15 % for engines and gas turbines.

#### *Part 1*

##### *Emission limit values for existing medium combustion plants*

1. Emission limit values (mg/Nm<sup>3</sup>) for medium combustion plants other than engines and gas turbines

Pollutant	Solid biomass	Other solid fuels	Liquid fuels other than heavy fuel oil	Heavy fuel oil	Natural gas	Gaseous fuels other than natural gas
SO <sub>2</sub>	200	400	170	350	-	35
NO <sub>x</sub>	650	650	200	650	200	250
Particulate matter	30 <sup>(1)</sup>	30	30	30	-	-

(<sup>1</sup>) 45 mg/Nm<sup>3</sup> for plants with a thermal input below or equal to 5 MW

2. Emission limit values (mg/Nm<sup>3</sup>) for engines and gas turbines

Pollutant	Type of installation	Liquid fuels	Natural gas	Gaseous fuels other than natural gas
SO <sub>2</sub>	Engines and gas turbines	60	-	15
NO <sub>x</sub>	Engines	190 ( <sup>1</sup> )	190 ( <sup>2</sup> )	190 ( <sup>2</sup> )
	Gas turbines ( <sup>3</sup> )	200	150	200
Particulate matter	Engines and gas turbines	10	-	-

(<sup>1</sup>) 1850 mg/Nm<sup>3</sup> in the following cases:

- (i) for diesel engines the construction of which commenced before 18 May 2006;
- (ii) for dual fuel engines in liquid mode.

(<sup>2</sup>) 380 mg/Nm<sup>3</sup> for dual fuel engines in gas mode.

(<sup>3</sup>) Emission limit values are only applicable above 70 % load.

#### *Part 2*

##### *Emission limit values for new medium combustion plants*

1. Emission limit values (mg/Nm<sup>3</sup>) for medium combustion plants other than engines and gas turbines

Pollutant	Solid biomass	Other solid fuels	Liquid fuels other than heavy fuel oil	Heavy fuel oil	Natural gas	Gaseous fuels other than natural gas
SO <sub>2</sub>	200	400	170	350	-	35
NO <sub>x</sub>	300	300	200	300	100	200
Particulate matter	1.1. 20 (1)	20	20	20	-	-

(1) 25 mg/Nm<sup>3</sup> for plants with a thermal input below or equal to 5 MW

## 2. Emission limit values (mg/Nm<sup>3</sup>) for engines and gas turbines

Pollutant	Type of installation	Liquid fuels	Natural gas	Gaseous fuels other than natural gas
SO <sub>2</sub>	Engines and gas turbines	60	-	15
NO <sub>x</sub>	Engines	190 <sup>(1)</sup>	95 <sup>(2)</sup>	190
	Gas turbines <sup>(3)</sup>	75	50	75
Particulate matter	Engines and gas turbines	10	-	-

<sup>(1)</sup> 225 mg/Nm<sup>3</sup> for dual fuel engines in liquid mode.

<sup>(2)</sup> 190 mg/Nm<sup>3</sup> for dual fuel engines in gas mode.

<sup>(3)</sup> Emission limit values are only applicable above 70 % load.

### ANNEX III

#### **Benchmark values for more stringent emission limit values referred to in Article 5(4)**

All emission limit values set out in this Annex are defined at a temperature of 273,15 K, a pressure of 101,3 kPa and after correction for the water vapour content of the waste gases and at a standardised O<sub>2</sub> content of 6 % for combustion plants using solid fuels, 3 % for combustion plants, other than engines and gas turbines, using liquid and gaseous fuels and 15 % for engines and gas turbines.

Emission limit value benchmarks (mg/Nm<sup>3</sup>) for medium combustion plants other than engines and gas turbines

Pollutant	Rated thermal input (MW)	Solid biomass	Other solid fuels	Liquid fuels	Natural gas	Gaseous fuels other than natural gas
NO <sub>x</sub>	1 - 5	200	100	120	70	120
	> 5 - 50	145	100	120	70	120
Particulate matter	1 - 5	10	10	10	-	-
	> 5 - 50	5	5	5	-	-

Emission limit value benchmarks (mg/Nm<sup>3</sup>) for engines and gas turbines

Pollutant	Type of installation	Liquid fuels	Natural gas	Gaseous fuels other than natural gas
NO <sub>x</sub>	Engines	150	35	35
	Gas turbines <sup>(1)</sup>	50	20	50

<sup>(1)</sup> benchmark is only applicable above 70 % load.

## ANNEX IV

### **Emission monitoring**

1. Periodic measurements of SO<sub>2</sub>, NO<sub>x</sub> and particulate matter shall be required at least every three years for medium combustion plants the rated thermal input of which is greater than 1 MW and less than 20 MW, and at least annually for medium combustion plants the rated thermal input of which is equal to or greater than 20 MW but less than 50 MW.
2. Measurements are only required for pollutants for which an emission limit value is laid down in Annex II for the plant concerned.
3. The first measurements shall be carried out within three months following the registration of the plant.
4. As an alternative to the measurements of SO<sub>2</sub> referred to in point 1, other procedures, verified and approved by the competent authority, may be used to determine the SO<sub>2</sub> emissions.
5. Sampling and analysis of polluting substances and measurements of process parameters as well as any alternatives used as referred to under point 4, shall be carried out in accordance with CEN standards. If CEN standards are not available, ISO, national or other international standards which ensure the provision of data of an equivalent scientific quality shall apply.