

Directive 2010/75/EU of the European Parliament and of the  
Council of 24 November 2010 on industrial emissions (integrated  
pollution prevention and control) (Recast) (Text with EEA relevance)

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## ANNEX I

### Categories of activities referred to in Article 10

1. Energy industries
  - 1.1. Combustion of fuels in installations with a total rated thermal...
  - 1.2. Refining of mineral oil and gas
  - 1.3. Production of coke
  - 1.4. Gasification or liquefaction of:
2. Production and processing of metals
  - 2.1. Metal ore (including sulphide ore) roasting or sintering
  - 2.2. Production of pig iron or steel (primary or secondary fusion)...
  - 2.3. Processing of ferrous metals:
  - 2.4. Operation of ferrous metal foundries with a production capacity exceeding...
  - 2.5. Processing of non-ferrous metals:
  - 2.6. Surface treatment of metals or plastic materials using an electrolytic...
3. Mineral industry
  - 3.1. Production of cement, lime and magnesium oxide:

- 3.2. Production of asbestos or the manufacture of asbestos-based products
- 3.3. Manufacture of glass including glass fibre with a melting capacity...
- 3.4. Melting mineral substances including the production of mineral fibres with...
- 3.5. Manufacture of ceramic products by firing, in particular roofing tiles,...
- 4. Chemical industry
  - 4.1. Production of organic chemicals, such as:
  - 4.2. Production of inorganic chemicals, such as:
  - 4.3. Production of phosphorous-, nitrogen- or potassium-based fertilisers (simple or compound...
  - 4.4. Production of plant protection products or of biocides
  - 4.5. Production of pharmaceutical products including intermediates
  - 4.6. Production of explosives
- 5. Waste management
  - 5.1. Disposal or recovery of hazardous waste with a capacity exceeding...
  - 5.2. Disposal or recovery of waste in waste incineration plants or...
  - 5.3. Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per...
  - 5.4. Landfills, as defined in Article 2(g) of Council Directive 1999/31/EC of...
  - 5.5. Temporary storage of hazardous waste not covered under point 5.4 pending...
  - 5.6. Underground storage of hazardous waste with a total capacity exceeding...
- 6. Other activities
  - 6.1. Production in industrial installations of:
  - 6.2. Pre-treatment (operations such as washing, bleaching, mercerisation) or dyeing of...
  - 6.3. Tanning of hides and skins where the treatment capacity exceeds...
  - 6.4. Operating slaughterhouses with a carcass production capacity greater than 50 tonnes...
  - 6.5. Disposal or recycling of animal carcasses or animal waste with...
  - 6.6. Intensive rearing of poultry or pigs:
  - 6.7. Surface treatment of substances, objects or products using organic solvents,...
  - 6.8. Production of carbon (hard-burnt coal) or electrographite by means of...
  - 6.9. Capture of CO<sub>2</sub> streams from installations covered by this Directive...
  - 6.10. Preservation of wood and wood products with chemicals with a...
  - 6.11. Independently operated treatment of waste water not covered by Directive...

## ANNEX II

### List of polluting substances

#### AIR

- 1. Sulphur dioxide and other sulphur compounds
- 2. Oxides of nitrogen and other nitrogen compounds
- 3. Carbon monoxide
- 4. Volatile organic compounds
- 5. Metals and their compounds
- 6. Dust including fine particulate matter
- 7. Asbestos (suspended particulates, fibres)
- 8. Chlorine and its compounds
- 9. Fluorine and its compounds
- 10. Arsenic and its compounds

11. Cyanides
12. Substances and mixtures which have been proved to possess carcinogenic...
13. Polychlorinated dibenzodioxins and polychlorinated dibenzofurans

#### WATER

1. Organohalogen compounds and substances which may form such compounds in...
2. Organophosphorus compounds
3. Organotin compounds
4. Substances and mixtures which have been proved to possess carcinogenic...
5. Persistent hydrocarbons and persistent and bioaccumulable organic toxic substances
6. Cyanides
7. Metals and their compounds
8. Arsenic and its compounds
9. Biocides and plant protection products
10. Materials in suspension
11. Substances which contribute to eutrophication (in particular, nitrates and phosphates)
12. Substances which have an unfavourable influence on the oxygen balance...
13. Substances listed in Annex X to Directive 2000/60/EC

### ANNEX III

#### Criteria for determining best available techniques

1. the use of low-waste technology;
2. the use of less hazardous substances;
3. the furthering of recovery and recycling of substances generated and...
4. comparable processes, facilities or methods of operation which have been...
5. technological advances and changes in scientific knowledge and understanding;
6. the nature, effects and volume of the emissions concerned;
7. the commissioning dates for new or existing installations;
8. the length of time needed to introduce the best available...
9. the consumption and nature of raw materials (including water) used...
10. the need to prevent or reduce to a minimum the...
11. the need to prevent accidents and to minimise the consequences...
12. information published by public international organisations.

## ANNEX IV

### Public participation in decision-making

1. The public shall be informed (by public notices or other...
2. Member States shall ensure that, within appropriate time-frames, the following...
3. The public concerned shall be entitled to express comments and...
4. The results of the consultations held pursuant to this Annex...
5. The detailed arrangements for informing the public (for example by...

## ANNEX V

### Technical provisions relating to combustion plants

#### PART 1

##### Emission limit values for combustion plants referred to in Article 30(2)

1. All emission limit values shall be calculated at a temperature...
2. Emission limit values (mg/Nm<sup>3</sup>) for SO<sub>2</sub> for combustion plants using...
3. Emission limit values (mg/Nm<sup>3</sup>) for SO<sub>2</sub> for combustion plants using...
4. Emission limit values (mg/Nm<sup>3</sup>) for NO<sub>x</sub> for combustion plants using...
5. Gas turbines (including combined cycle gas turbines (CCGT)) using light...
6. Emission limit values (mg/Nm<sup>3</sup>) for NO<sub>x</sub> and CO for gas...
7. Emission limit values (mg/Nm<sup>3</sup>) for dust for combustion plants using...
8. Emission limit values (mg/Nm<sup>3</sup>) for dust for combustion plants using...

#### PART 2

##### Emission limit values for combustion plants referred to in Article 30(3)

1. All emission limit values shall be calculated at a temperature...
2. Emission limit values (mg/Nm<sup>3</sup>) for SO<sub>2</sub> for combustion plants using...
3. Emission limit values (mg/Nm<sup>3</sup>) for SO<sub>2</sub> for combustion plants using...
4. Emission limit values (mg/Nm<sup>3</sup>) for NO<sub>x</sub> for combustion plants using...
5. Gas turbines (including CCGT) using light and middle distillates as...
6. Emission limit values (mg/Nm<sup>3</sup>) for NO<sub>x</sub> and CO for gas...

7. Emission limit values (mg/Nm<sup>3</sup>) for dust for combustion plants using...

8. Emission limit values (mg/Nm<sup>3</sup>) for dust for combustion plants using...

### PART 3

#### Emission monitoring

1. The concentrations of SO<sub>2</sub>, NO<sub>x</sub> and dust in waste gases...

2. The competent authority may decide not to require the continuous...

3. Where continuous measurements are not required, measurements of SO<sub>2</sub>, NO<sub>x</sub>,...

4. For combustion plants firing coal or lignite, the emissions of...

5. As an alternative to the measurements of SO<sub>2</sub> and NO<sub>x</sub>...

6. The competent authority shall be informed of significant changes in...

7. The continuous measurements carried out in accordance with point 1 shall...

8. Sampling and analysis of relevant polluting substances and measurements of...

9. At the emission limit value level, the values of the...

10. The validated hourly and daily average values shall be determined...

11. In the case of plants which must comply with the...

### PART 4

#### Assessment of compliance with emission limit values

1. In the case of continuous measurements, the emission limit values...

2. Where continuous measurements are not required, the emission limit values...

### PART 5

#### Minimum rate of desulphurisation

1. Minimum rate of desulphurisation for combustion plants referred to in...

2. Minimum rate of desulphurisation for combustion plants referred to in...

### PART 6

#### Compliance with rate of desulphurisation

### PART 7

Average emission limit values for multi-fuel firing combustion plants within a refinery

## ANNEX VI

### Technical provisions relating to waste incineration plants and waste co-incineration plants

#### PART 1

##### Definitions

#### PART 2

##### Equivalence factors for dibenzo-p-dioxins and dibenzofurans

#### PART 3

##### Air emission limit values for waste incineration plants

1. All emission limit values shall be calculated at a temperature...
  - 1.1. Daily average emission limit values for the following polluting substances...
  - 1.2. Half-hourly average emission limit values for the following polluting substances...
  - 1.3. Average emission limit values (mg/Nm<sup>3</sup>) for the following heavy metals...
  - 1.4. Average emission limit value (ng/Nm<sup>3</sup>) for dioxins and furans over...
  - 1.5. Emission limit values (mg/Nm<sup>3</sup>) for carbon monoxide (CO) in the...
2. Emission limit values applicable in the circumstances described in Article 46(6)...
3. Member States may lay down rules governing the exemptions provided...

#### PART 4

##### Determination of air emission limit values for the co-incineration of waste

1. The following formula (mixing rule) shall be applied whenever a...
2. Special provisions for cement kilns co-incinerating waste
  - 2.1. The emission limit values set out in points 2.2 and 2.3 apply...
  - 2.2. C – total emission limit values (mg/Nm<sup>3</sup> except for dioxins...
  - 2.3. C – total emission limit values (mg/Nm<sup>3</sup>) for SO<sub>2</sub> and...
  - 2.4. C- total emission limit values for CO
3. Special provisions for combustion plants co-incinerating waste
  - 3.1. C<sub>proc</sub> expressed as daily average values (mg/Nm<sup>3</sup>) valid until the...
  - 3.2. C<sub>proc</sub> expressed as daily average values (mg/Nm<sup>3</sup>) valid from the...
    - 3.2.1. C<sub>proc</sub> for combustion plants referred to in Article 30(2), with the...
    - 3.2.2. C<sub>proc</sub> for combustion plants referred to in Article 30(3), with the...
  - 3.3. C — total emission limit values for heavy metals (mg/Nm<sup>3</sup>)...
  - 3.4. C — total emission limit value (ng/Nm<sup>3</sup>) for dioxins and...
4. Special provisions for waste co-incineration plants in industrial sectors not...
  - 4.1. C — total emission limit value (ng/Nm<sup>3</sup>) for dioxins and...
  - 4.2. C – total emission limit values (mg/Nm<sup>3</sup>) for heavy metals...

#### PART 5

##### Emission limit values for discharges of waste water from the cleaning of waste gases



## PART 6

### Monitoring of emissions

1. Measurement techniques
  - 1.1. Measurements for the determination of concentrations of air and water...
  - 1.2. Sampling and analysis of all polluting substances including dioxins and...
  - 1.3. At the daily emission limit value level, the values of...
2. Measurements relating to air polluting substances
  - 2.1. The following measurements relating to air polluting substances shall be...
  - 2.2. The residence time as well as the minimum temperature and...
  - 2.3. The continuous measurement of HF may be omitted if treatment...
  - 2.4. The continuous measurement of the water vapour content shall not...
  - 2.5. The competent authority may decide not to require continuous measurements...
  - 2.6. The competent authority may decide to require one measurement every...
  - 2.7. The results of the measurements shall be standardised using the...
3. Measurements relating to water polluting substances
  - 3.1. The following measurements shall be carried out at the point...
  - 3.2. Where the waste water from the cleaning of waste gases...

## PART 7

Formula to calculate the emission concentration  
at the standard percentage oxygen concentration

## PART 8

### Assessment of compliance with emission limit values

1. Air emission limit values
  - 1.1. The emission limit values for air shall be regarded as...
  - 1.2. The half-hourly average values and the 10-minute averages shall be...
  - 1.3. The average values over the sampling period and the average...
2. Water emission limit values

## ANNEX VII

### Technical provisions relating to installations and activities using organic solvents

## PART 1

### Activities

1. In each of the following points, the activity includes the...
2. Adhesive coating
3. Coating activity
4. Coil coating
5. Dry cleaning

6. Footwear manufacture
7. Manufacturing of coating mixtures, varnishes, inks and adhesives
8. Manufacturing of pharmaceutical products
9. Printing
10. Rubber conversion
11. Surface cleaning
12. Vegetable oil and animal fat extraction and vegetable oil refining...
13. Vehicle refinishing
14. Winding wire coating
15. Wood impregnation
16. Wood and plastic lamination

## PART 2

### Thresholds and emission limit values

## PART 3

### Emission limit values for installations of the vehicle coating industry

1. The total emission limit values are expressed in terms of...
2. The surface area of any product dealt with in the...
3. The total emission limit values in the table below refer...
4. Vehicle coating installations below the solvent consumption thresholds mentioned in...

## PART 4

### Emission limit values relating to volatile organic compounds with specific risk phrases

1. For emissions of the volatile organic compounds referred to in...
2. For emissions of halogenated volatile organic compounds which are assigned...

## PART 5

### Reduction scheme

1. The operator may use any reduction scheme, specially designed for...
2. In the case of applying coatings, varnishes, adhesives or inks,...
3. The following scheme shall operate for installations for which a...

## PART 6

### Emission monitoring

1. Channels to which abatement equipment is connected, and which at...
2. In the other cases, Member States shall ensure that either...
3. Measurements are not required in the case where end-of-pipe abatement...

## PART 7

### Solvent management plan

1. Principles
2. Definitions
3. Use of the solvent management plan for verification of compliance....

## PART 8

### Assessment of compliance with emission limit values in waste gases

1. In the case of continuous measurements the emission limit values...
2. In the case of periodic measurements the emission limit values...
3. Compliance with Part 4 shall be verified on the basis...
4. Gas volumes may be added to the waste gas for...

## ANNEX VIII

### Technical provisions relating to installations producing titanium dioxide

## PART 1

### Emission limit values for emissions into water

1. In case of installations using the sulphate process (as an...
2. In case of installations using the chloride process (as an...
3. For installations using the chloride process and using more than...

## PART 2

### Emission limit values into air

1. The emission limit values which are expressed as concentrations in...
2. For dust: 50 mg/Nm<sup>3</sup> as an hourly average from major...
3. For gaseous sulphur dioxide and trioxide discharged from digestion and...

4. For chlorine in the case of installations using the chloride...

PART 3

Emission monitoring

ANNEX IX

PART A

PART B

ANNEX X

Correlation Table

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**Status:** EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

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- (1) [OJ C 182, 4.8.2009, p. 46.](#)
- (2) [OJ C 325, 19.12.2008, p. 60.](#)
- (3) Position of the European Parliament of 10 March 2009 ([OJ C 87 E, 1.4.2010, p. 191](#)) and position of the Council at first reading of 15 February 2010 ([OJ C 107 E, 27.4.2010, p. 1](#)). Position of the European Parliament of 7 July 2010 (not yet published in the Official Journal) and decision of the Council of 8 November 2010.
- (4) [OJ L 54, 25.2.1978, p. 19.](#)
- (5) [OJ L 378, 31.12.1982, p. 1.](#)
- (6) [OJ L 409, 31.12.1992, p. 11.](#)
- (7) [OJ L 85, 29.3.1999, p. 1.](#)
- (8) [OJ L 332, 28.12.2000, p. 91.](#)
- (9) [OJ L 309, 27.11.2001, p. 1.](#)
- (10) [OJ L 24, 29.1.2008, p. 8.](#)
- (11) [OJ L 242, 10.9.2002, p. 1.](#)
- (12) [OJ L 275, 25.10.2003, p. 32.](#)
- (13) [OJ L 175, 5.7.1985, p. 40.](#)
- (14) [OJ L 10, 14.1.1997, p. 13.](#)
- (15) [OJ L 124, 17.5.2005, p. 4.](#)
- (16) [OJ L 309, 27.11.2001, p. 22.](#)
- (17) [OJ L 33, 4.2.2006, p. 1.](#)
- (18) [OJ L 184, 17.7.1999, p. 23.](#)
- (19) [OJ C 321, 31.12.2003, p. 1.](#)