Council Directive of 26 September 1983 on limit values and quality objectives for cadmium discharges (83/513/EEC) (repealed)

COUNCIL DIRECTIVE

of 26 September 1983

on limit values and quality objectives for cadmium discharges

(83/513/EEC) (repealed)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Articles 100 and 235 thereof,

Having regard to Directive 76/464/EEC of 4 May 1976 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community⁽¹⁾, and in particular Articles 6 and 12 thereof,

Having regard to the proposal from the Commission⁽²⁾,

Having regard to the opinion of the European Parliament⁽³⁾,

Having regard to the opinion of the Economic and Social Committee⁽⁴⁾,

Whereas, in order to protect the aquatic environment of the Community against pollution by certain dangerous substances, Article 3 of Directive 76/464/EEC introduces a system of prior authorization laying down emission standards for discharges of the substances in List I in the Annex thereto; whereas Article 6 of the said Directive provides that limit values shall be laid down for such emission standards and also quality objectives for the aquatic environment affected by discharges of these substances;

Whereas cadmium and its compounds are included in List I;

Whereas the Member States are required to apply the limit values except in the cases where they may employ quality objectives;

Whereas, since pollution due to the discharge of cadmium into water is caused by a large number of industries, it is necessary to lay down specific limit values according to the type of industry concerned and to lay down quality objectives for the aquatic environment into which cadmium is discharged by such industries;

Whereas at the present time it is not, however, possible to establish limit values for discharges arising from the manufacture of phosphoric acid and phosphatic fertilizer from phosphatic rock;

Whereas the purpose of the quality objectives must be to eliminate cadmium pollution of the various parts of the aquatic environment which might be affected by cadmium discharges;

Whereas such quality objectives must be laid down expressly for this purpose and not with the intention of establishing rules pertaining to consumer protection or to the marketing of products from the aquatic environment;

Whereas a specific monitoring procedure should be laid down to enable Member States to demonstrate that the quality objectives are being complied with;

Whereas provision should be made for the monitoring by Member States of the aquatic environment affected by the aforesaid cadmium discharges with a view to effective implementation of this Directive; whereas Article 6 of Directive 76/464/EEC does not provide for the powers to introduce such monitoring; whereas, since the specific powers have not been provided for in the Treaty, Article 235 thereof should be invoked;

Whereas it is important that the Commission forward to the Council, every five years, a comparative assessment of the implementation of this Directive by Member States;

Whereas, since groundwater is the subject of Directive 80/68/EEC⁽⁵⁾, it is excluded from the scope of this Directive;

Whereas the level of industrialization is very low in Greenland because of the overall situation of the island, and in particular the fact that it is sparsely populated, its considerable size and its special geographical position; whereas, therefore, this Directive should not apply to Greenland,

HAS ADOPTED THIS DIRECTIVE:

Article 1

- 1 This Directive:
- in pursuance of Article 6 (1) of Directive 76/464/EEC, lays down limit values for emission standards for cadmium in discharges from industrial plants as defined in Article 2 (e) hereof,
- in pursuance of Article 6 (2) of Directive 76/464/EEC, lays down quality objectives for cadmium in the aquatic environment,
- in pursuance of Article 6 (4) of Directive 76/464/EEC, lays down the time limits for compliance with the conditions specified in the authorizations granted by the competent authorities of Member States in respect of existing discharges,
- in pursuance of Article 12 (1) of Directive 76/464/EEC, lays down the reference methods of measurement enabling the cadmium content in discharges and in the aquatic environment to be determined,
- in pursuance of Article 6 (3) of Directive 76/464/EEC, establishes a monitoring procedure,
- requires Member States to cooperate with one another in the case of discharges affecting the waters of more than one Member State.
- 2 This Directive applies to the waters referred to in Article 1 of Directive 76/464/EEC with the exception of groundwater.

Article 2

For the purposes of this Directive:

- (a) 'cadmium' means:
 - the chemical element cadmium,

- the cadmium contained in any of its compounds;
- (b) 'limit values' means the values specified in Annex I;
- (c) 'quality objectives' means the requirements specified in Annex II;
- (d) 'handling of cadmium' means any industrial process involving the use or production of cadmium, or any other process in which the presence of cadmium is inherent;
- (e) 'industrial plant' means any plant at which cadmium or any substance containing cadmium is handled;
- (f) 'existing plant' means an industrial plant which is operational on the date of notification of this Directive;
- (g) 'new plant' means:
 - an industrial plant which had become operational after the date of notification of this Directive,
 - an existing industrial plant whose cadmiumprocessing capacity has been substantially increased after the date of notification of this Directive.

Article 3

- 1 The limit values, the time limits by which they must be complied with and the monitoring procedure for discharges are laid down in Annex I.
- 2 The limit values shall normally apply at the point where waste waters containing cadmium leave the industrial plant.

When waste waters containing cadmium are treated outside the industrial plant at a treatment plant intended for the removal of cadmium, the Member State may permit the limit values to be applied at the point where the waste waters leave the treatment plant.

The authorizations referred to in Article 3 of Directive 76/464/EEC must contain provisions at least as stringent as those in Annex I to this Directive, except where a Member State is complying with Article 6 (3) of Directive 76/464/EEC on the basis of Annexes II and IV to this Directive.

Authorizations shall be reviewed at least every four years.

Without prejudice to their obligations arising from paragraphs 1, 2 and 3 and to the provisions of Directive 76/464/EEC, Member States may grant authorizations for new plants only if those plants apply the standards corresponding to the best technical means available when that is necessary for the elimination of pollution in accordance with Article 2 of the said Directive or for the prevention of distortion of competition.

Whatever method it adopts, the Member State shall, where for technical reasons the intended measures do not correspond to the best technical means available, provide the Commission, before any authorization, with evidence in support of these reasons.

The Commission shall forward this evidence to the other Member States immediately and shall send all Member States a report as soon as possible giving its opinion on the derogation referred to in the second subparagraph. If necessary, it shall at the same time submit appropriate proposals to the Council.

5 The reference method of analysis to be used in determining the presence of cadmium is given in Annex III (1). Other methods may be used provided that the limits of detection,

precision and accuracy of such methods are at least as good as those laid down in Annex III (1). The accuracy required in the measurement of effluent flow is given in Annex III (2).

Article 4

The Member States concerned shall be responsible for monitoring the aquatic environment affected by industrial discharges.

In the case of discharges affecting the waters of more than one Member State, the Member States concerned shall cooperate with a view to harmonizing monitoring procedures.

Article 5

[F1] At intervals of three years the Member States shall send information to the Commission on the implementation of this Directive, in the form of a sectoral report which shall also cover other pertinent Community Directives. This report shall be drawn up on the basis of a questionnaire or outline drafted by the Commission in accordance with the procedure laid down in Article 6 of Directive 91/692/EEC⁽⁶⁾. The questionaire (SIC! questionnaire) or outline shall be sent to the Member States six months before the start of the period covered by the report. The report shall be sent to the Commission within nine months of the end of the three-year period covered by it.

The first report shall cover the period from 1993 to 1995 inclusive.

The Commission shall publish a Community report on the implementation of the Directive within nine months of receiving the reports from the Member States.]

In the event of a change in scientific knowledge relating principally to the toxicity, persistence and accumulation of cadmium in living organisms and sediments, or in the event of an improvement in the best technical means available, the Commission shall submit appropriate proposals to the Council with the aim of reinforcing, if necessary, the limit values and the quality objectives or of establishing new limit values and new quality objectives.

Textual Amendments

F1 Inserted by Council Directive of 23 December 1991 (91/692/EEC).

Article 6

- 1 Member States shall bring into force the measures necessary to comply with this Directive within two years following its notification. They shall forthwith inform the Commission thereof.
- 2 Member States shall communicate to the Commission the text of the provisions of national law which they adopt in the field governed by this Directive.

Article 7

This Directive shall not apply to Greenland.

Article 8

This Directive is addressed to the Member States.

ANNEX I

Limit values, time limits fixed for compliance with these values and monitoring procedures to be applied to discharges

1. *Limit values and time limits*

Industrial sector ^a		Unit of measurement	Limit values which must be complied with as from								
			1.1.1986	1.1.1989 ^b							
1.	Zinc mining, lead and zinc refining, cadmium metal and non-ferrous metal industry	Milligrams of cadmium per litre of discharge	0,3°	0,2°							
2.	Manufactu of cadmium	Milligrams of readmium per litre of discharge	0,5°	0,2°							
compound		Grams of cadmium discharged per kilogram of cadmium handled	0,5 ^d	e							
3.	Manufactu of pigments	Milligrams of Eadmium per litre of discharge	0,5°	0,2°							
	piginents	Grams of cadmium discharged per kilogram of cadmium handled	0,3 ^d	e							
4.	Manufactu of stabilizers	Milligrams of Eadmium per litre of discharge	0,5°	0,2°							
	5401112015	Grams of cadmium discharged per kilogram of cadmium handled	0,5 ^d	e							
5.	Manufactu of primary	Milligrams of Eadmium per litre of discharge	0,5°	0,2°							
	and	Grams of cadmium discharged per	1,5 ^d	e							

	secondary batteries	kilogram of cadmium handled		
6.	Electroplat	Milligrams of ites diminum per litre of discharge	0,5°	0,2°
		Grams of cadmium discharged per kilogram of cadmium handled	0,3 ^d	e
7.	Manufactu of phosphoric acid and/or phosphatic fertilizer from phosphatic rock ^g			

- a Limit values for industrial sectors not mentioned in this table will, if necessary, be fixed by the Council at a later stage. In the meantime the Member States will fix emission standards for cadmium discharges autonomously in accordance with Directive 76/464/EEC. Such standards must take into account the best technical means available and must not be less stringent than the most nearly comparable limit value in this Annex.
- **b** On the basis of experience gained in implementing this Directive, the Commission will, pursuant to Article 5 (3), submit in due course to the Council proposals for fixing more restrictive limit values with a view to their coming into force by 1992.
- c Monthly flow-weighted average concentration of total cadmium.
- d Monthly average.
- e It is impossible for the moment to fix limit values expressed as load. If need be, these values will be fixed by the Council in accordance with Article 5 (3) of this Directive. If the Council does not fix any limit values, the values expressed as load given in column '1.1.1986' will be kept.
- f Member States may suspend application of the limit values until 1 January 1989 in the case of plants which discharge less than 10 kg of cadmium a year and in which the total volume of the electroplating tanks is less than 1,5 m³, if technical or administrative considerations make such a step absolutely necessary.
- g At present there are no economically feasible technical methods for systematically extracting cadmium from discharges arising from the production of phosphoric acid and/or phosphatic fertilizers from phosphatic rock. No limit values have therefore been fixed for such discharges. The absence of such limit values does not release the Member States from their obligation under Directive 76/464/EEC to fix emission standards for these discharges.
- 2. Limit values expressed as concentrations which in principle must not be exceeded are given in the above table for the industrial sectors in sections 2, 3, 4, 5 and 6. In no instance may limit values expressed as maximum concentrations be greater than those expressed as maximum quantities divided by water requirements per kilogram of cadmium handled. However, because the concentration of cadmium in effluents depends on the volume of water involved, which differs for different processes and plants, the limit values, expressed in terms of the quantity of cadmium discharged in relation to the quantity of cadmium handled, given in the above table must be complied with in all cases.

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- 3. The daily average limit values are twice the corresponding monthly average limit values given in the above table.
- 4. A monitoring procedure must be instituted to check whether the discharges comply with the emission standards which have been fixed in accordance with the limit values laid down in this Annex.

This procedure must provide for the taking and analysis of samples and for measurement of the flow of the discharge and the quantity of cadmium handled.

Should the quantity of cadmium handled be impossible to determine, the monitoring procedure may be based on the quantity of cadmium that may be used in the light of the production capacity on which the authorization was based.

5. A sample representative of the discharge over a period of 24 hours will be taken. The quantity of cadmium discharged over a month must be calculated on the basis of the daily quantities of cadmium discharged.

However, a simplified monitoring procedure may be instituted in the case of industrial plants which do not discharge more than 10 kg of cadmium per annum. In the case of industrial electroplating plants, a simplified monitoring procedure may only be instituted if the total volume of the electroplating tanks is less than 1,5 m³.

F2ANNEX II

[F2Quality objectives]

Textual Amendments

F2 Deleted by Directive 2008/105/EC of the European Parliament and of the Council of 16 December 2008 on environmental quality standards in the field of water policy, amending and subsequently repealing Council Directives 82/176/EEC, 83/513/EEC, 84/156/EEC, 84/491/EEC, 86/280/EEC and amending Directive 2000/60/EC of the European Parliament and of the Council.

[F2																
F2														 	 	 .]

ANNEX III

Reference methods of measurement

1. The reference method of analysis used for determining the cadmium content of waters, sediments and shellfish is atomic absorption spectrophotometry after preservation and suitable treatment of the sample.

The limits of detection⁽⁷⁾ must be such that the cadmium concentration can be measured to an accuracy⁽⁷⁾ of \pm 30 % and a precision⁽⁷⁾ of \pm 30 % at the following concentrations:

— in the case of discharges, one-tenth of the maximum permitted concentration of cadmium specified in the authorization.

- in the case of surface water, 0,1 μg/litre or one-tenth of the cadmium concentration specified in the quality objective, whichever is the greater,
- in the case of shellfish 0,1 mg/kg, wet weight,
- in the case of sediments, one-tenth of the cadmium concentration in the sample or 0,1 mg/kg, dry weight, with drying being carried out between 105 and 110 °C at constant weight, whichever value is the greater.
- 2. Flow measurement must be carried out to an accurancy of \pm 20 %.

ANNEX IV

Monitoring procedure for quality objectives

- 1. For each authorization granted in pursuance of this Directive, the competent authority will specify the restrictions, monitoring procedure and time limits for ensuring compliance with the quality objective(s) concerned.
- 2. In accordance with Article 6 (3) of Directive 76/464/EEC, the Member State will, for each quality objective chosen and applied, report to the Commission, on:
 - the points of discharge and the means of dispersal,
 - the area in which the quality objective is applied,
 - the location of sampling points,
 - the frequency of sampling,
 - the methods of sampling and measurement,
 - the results obtained.
- 3. Samples must be sufficiently representative of the quality of the aquatic environment in the area affected by the discharges, and the frequency of sampling must be sufficient to show any changes in the aquatic environment, taking into account, in particular, natural variations in the hydrological regime.

- (1) OJ No L 129, 18.5.1976, p. 23.
- (2) OJ No C 118, 21.5.1981, p. 3.
- (3) OJ No C 334, 20.12.1982, p. 138.
- (4) OJ No C 230, 10.9.1981, p. 22.
- (5) OJ No L 20, 26.1.1980, p. 43.
- (6) [F1OJ No L 377, 31.12.1991, p. 48.]
- (7) The definitions of these terms are given in Council Directive 79/869/EEC of 9 October 1979 concerning the methods of measurement and frequencies of sampling and analysis of surface water intended for the abstraction of drinking water in the Member States (OJ No L 271, 29.10.1979, p. 44).

Textual Amendments

F1 Inserted by Council Directive of 23 December 1991 (91/692/EEC).