

**E-PRTR Regulation (EC) No 166/2006
concerning the establishment of a European
Pollutant Release and Transfer Register
and amending Council Directives
91/689/EEC and 96/61/EC**



18th January 2007

The Agency wishes to inform you of forthcoming changes in the reporting structure, scope and mechanism for submitting your annual emissions in your AER. This is to take account of the requirements of the E-PRTR Regulation (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC, which came into force on the 24th February 2006.

It is intended to replace for the 2007 reporting year the spreadsheet AER emissions reporting system with a web-based system to allow licensees to report emissions and waste transfers offsite more easily and in a readily available format. The Agency will collate AER information and will extract those emissions and waste transfer records exceeding the European reporting thresholds for onwards reporting to the European Commission.

Please note that this does not change in any way your reporting requirements for the calendar year 2006, which are due to be reported to the Agency in March 2007.

The PRTR is a European pollutant emission reporting system, which aims to enhance the availability of information to the general public on the sources and amounts of emissions to air, water and land from European industry. This is the successor to the EPER (European Pollutant and Emission Register) reporting mechanism which licensees will have been familiar with.

The European PRTR Guidance Document for the implementation of the European PRTR was issued on the 31st May 2006. This document is available at www.eper.ec.europa.eu. This document provides a copy of the E-PRTR Regulation and detailed guidance on what is required from individual facilities, member states and the EU Commission under the Regulation.

In order to implement the new PRTR Regulations the Agency is required to report to the EU emissions from a range of activities, which are grouped in 9 activity sectors:

1. Energy;
2. Production and processing of metals;
3. Mineral industry;
4. Chemical industry;
5. Waste and wastewater management;
6. Paper and wood production and processing;
7. Intensive livestock production and aquaculture;
8. Animal and vegetable products from the food and beverage sector; and
9. Other activities.

The scope of the PRTR Regulation includes a number of activity sectors which were not required to report under EPER, for example aquaculture; shipbuilding and maintenance; quarrying and underground mining; opencast mining; and urban waste water treatment plants.

Reporting under PRTR will be an annual process: the first report from facility operators is required to be made by 31 March 2008 and will cover the calendar year 2007. Reports for subsequent years will be required on 31 March of the following year.

The main features of the PRTR are as follows:

- 91 specified pollutants are required to be reported upon if they are released to air, water or land, either as permitted emissions or as accidental releases, or transferred to off-site Waste Water Treatment Plants (WWTPs).
- Types of emissions to be reported include deliberate, accidental, routine and non-routine releases.
- The transfer of hazardous and non-hazardous wastes must also be reported under the new Regulation.
- PRTR returns must be made to the EU on an annual basis.
- Facilities are required to ensure an appropriate quality of the data they report to their Competent Authority.
 - The data they provide must be complete, consistent and credible;
 - This requires that they use, to the extent possible, internationally approved data recording and collection methodologies, or other methods shown to be equivalent.

Requirements for Individual Licensees

Therefore, the Agency requires that you undertake the following actions from the beginning of 2007 to prepare for the implementation of the PRTR Regulation:

- 1 Carry out a review of the PRTR list of 91 specified pollutants as laid out in Annex II of the Regulation and identify those which are used or are present on your facility (see attachment);
- 2 Make arrangements to quantify all deliberate, accidental, routine and non-routine releases to air, water or land, irrespective of PRTR thresholds. Quantification can be through measurement, calculation or estimation (Section 1.1.11 of the Guidance Document);
- 3 Make arrangements to quantify all transfers of hazardous or non-hazardous wastes (Section 1.1.10 of the Guidance Document);
- 4 Review the methods of measurement used on your facility to ensure compliance with Appendix 3 of the EU Guidance Document “List of internationally approved measuring methods for air and water pollutants”;
- 5 Ensure that robust quality assurance procedures are employed for all data collection (Section 1.1.12 of the Guidance Document).

Any additional substances, not in the PRTR list of 91 specified pollutants, which currently require reporting under your licence or under existing agreements with the Agency shall continue to be reported.

Web Based Reporting System

The Agency is developing a web-based data reporting system to provide facilities with a standardised reporting mechanism designed to provide a simple means for facilities to report for PRTR, AER and other related reporting requirements for which the Agency is the Competent Authority. It is hoped that this will minimise the reporting burden on facility operators to the greatest extent possible, given the diverse range of requirements in force. The Agency also intends to revise its AER Guidance.

Communication and Training

In order to assist facilities in fulfilling their obligations, industry-wide or sectoral training in the requirements and specifications of the PRTR will also be developed. The assistance and participation of industry and sectoral representative bodies will be sought in order to ensure the best service to facility operators. Developments in this regard will be communicated in due course.

The EPA will also publish regular updates on progress with the implementation of the PRTR on its website.

You are therefore asked to confirm licensed emissions that will be reported under this new web based system, and to state which substances listed under Annex II of the PRTR Regulation (see attachment) apply to your facility, by the 8th February 2007.

Yours sincerely



Peter Cunningham
Senior Inspector
Office of Environmental Enforcement

ATTACHMENT

Pollutants (*)

No	CAS number	Pollutant (*)	Threshold for releases (column 1)		
			to air (column 1a) kg/year	to water (column 1b) kg/year	to land (column 1c) kg/year
1	74-82-8	Methane (CH ₄)	100 000	— (2)	—
2	630-08-0	Carbon monoxide (CO)	500 000	—	—
3	124-38-9	Carbon dioxide (CO ₂)	100 million	—	—
4		Hydro-fluorocarbons (HFCs) (3)	100	—	—
5	10024-97-2	Nitrous oxide (N ₂ O)	10 000	—	—
6	7664-41-7	Ammonia (NH ₃)	10 000	—	—
7		Non-methane volatile organic compounds (NMVOC)	100 000	—	—
8		Nitrogen oxides (NO _x /NO ₂)	100 000	—	—
9		Perfluorocarbons (PFCs) (4)	100	—	—
10	2551-62-4	Sulphur hexafluoride (SF ₆)	50	—	—
11		Sulphur oxides (SO _x /SO ₂)	150 000	—	—
12		Total nitrogen	—	50 000	50 000
13		Total phosphorus	—	5 000	5 000
14		Hydrochlorofluorocarbons (HCFCs) (5)	1	—	—
15		Chlorofluorocarbons (CFCs) (6)	1	—	—
16		Halons (7)	1	—	—
17		Arsenic and compounds (as As) (8)	20	5	5
18		Cadmium and compounds (as Cd) (8)	10	5	5
19		Chromium and compounds (as Cr) (8)	100	50	50
20		Copper and compounds (as Cu) (8)	100	50	50
21		Mercury and compounds (as Hg) (8)	10	1	1
22		Nickel and compounds (as Ni) (8)	50	20	20
23		Lead and compounds (as Pb) (8)	200	20	20
24		Zinc and compounds (as Zn) (8)	200	100	100
25	15972-60-8	Alachlor	—	1	1
26	309-00-2	Aldrin	1	1	1
27	1912-24-9	Atrazine	—	1	1
28	57-74-9	Chlordane	1	1	1

(*) Releases of pollutants falling into several categories of pollutants shall be reported for each of these categories.

No	CAS number	Pollutant ⁽¹⁾	Threshold for releases (column 1)		
			to air (column 1a) kg/year	to water (column 1b) kg/year	to land (column 1c) kg/year
29	143-50-0	Chlordecone	1	1	1
30	470-90-6	Chlorfenvinphos	—	1	1
31	85535-84-8	Chloro-alkanes, C ₁₀ -C ₁₃	—	1	1
32	2921-88-2	Chlorpyrifos	—	1	1
33	50-29-3	DDT	1	1	1
34	107-06-2	1,2-dichloroethane (EDC)	1 000	10	10
35	75-09-2	Dichloromethane (DCM)	1 000	10	10
36	60-57-1	Dieldrin	1	1	1
37	330-54-1	Diuron	—	1	1
38	115-29-7	Endosulphan	—	1	1
39	72-20-8	Endrin	1	1	1
40		Halogenated organic compounds (as AOX) ⁽⁹⁾	—	1 000	1 000
41	76-44-8	Heptachlor	1	1	1
42	118-74-1	Hexachlorobenzene (HCB)	10	1	1
43	87-68-3	Hexachlorobutadiene (HCBD)	—	1	1
44	608-73-1	1,2,3,4,5,6-hexachlorocyclohexane(HCH)	10	1	1
45	58-89-9	Lindane	1	1	1
46	2385-85-5	Mirex	1	1	1
47		PCDD + PCDF (dioxins + furans) (as Teq) ⁽¹⁰⁾	0,0001	0,0001	0,0001
48	608-93-5	Pentachlorobenzene	1	1	1
49	87-86-5	Pentachlorophenol (PCP)	10	1	1
50	1336-36-3	Polychlorinated biphenyls (PCBs)	0,1	0,1	0,1
51	122-34-9	Simazine	—	1	1
52	127-18-4	Tetrachloroethylene (PER)	2 000	10	—
53	56-23-5	Tetrachloromethane (TCM)	100	1	—
54	12002-48-1	Trichlorobenzenes (TCBs) (all isomers)	10	1	—
55	71-55-6	1,1,1-trichloroethane	100	—	—
56	79-34-5	1,1,2,2-tetrachloroethane	50	—	—
57	79-01-6	Trichloroethylene	2 000	10	—
58	67-66-3	Trichloromethane	500	10	—
59	8001-35-2	Toxaphene	1	1	1
60	75-01-4	Vinyl chloride	1 000	10	10
61	120-12-7	Anthracene	50	1	1

No	CAS number	Pollutant ⁽¹⁾	Threshold for releases (column 1)		
			to air (column 1a) kg/year	to water (column 1b) kg/year	to land (column 1c) kg/year
62	71-43-2	Benzene	1 000	200 (as BTEX) ⁽¹¹⁾	200 (as BTEX) ⁽¹¹⁾
63		Brominated diphenylethers (PBDE) ⁽¹²⁾	—	1	1
64		Nonylphenol and Nonylphenol ethoxylates (NP/NPEs)	—	1	1
65	100-41-4	Ethyl benzene	—	200 (as BTEX) ⁽¹¹⁾	200 (as BTEX) ⁽¹¹⁾
66	75-21-8	Ethylene oxide	1 000	10	10
67	34123-59-6	Isoproturon	—	1	1
68	91-20-3	Naphthalene	100	10	10
69		Organotin compounds(as total Sn)	—	50	50
70	117-81-7	Di-(2-ethyl hexyl) phthalate (DEHP)	10	1	1
71	108-95-2	Phenols (as total C) ⁽¹³⁾	—	20	20
72		Polycyclic aromatic hydrocarbons (PAHs) ⁽¹⁴⁾	50	5	5
73	108-88-3	Toluene	—	200 (as BTEX) ⁽¹¹⁾	200 (as BTEX) ⁽¹¹⁾
74		Tributyltin and compounds ⁽¹⁵⁾	—	1	1
75		Triphenyltin and compounds ⁽¹⁶⁾	—	1	1
76		Total organic carbon (TOC) (as total C or COD/3)	—	50 000	—
77	1582-09-8	Trifluralin	—	1	1
78	1330-20-7	Xylenes ⁽¹⁷⁾	—	200 (as BTEX) ⁽¹¹⁾	200 (as BTEX) ⁽¹¹⁾
79		Chlorides (as total Cl)	—	2 million	2 million
80		Chlorine and inorganic com- pounds (as HCl)	10 000	—	—
81	1332-21-4	Asbestos	1	1	1
82		Cyanides (as total CN)	—	50	50
83		Fluorides (as total F)	—	2 000	2 000
84		Fluorine and inorganic com- pounds (as HF)	5 000	—	—
85	74-90-8	Hydrogen cyanide (HCN)	200	—	—
86		Particulate matter (PM ₁₀)	50 000	—	—
87	1806-26-4	Octylphenols and Octylphenol ethoxylates	—	1	—

No	CAS number	Pollutant ⁽¹⁾	Threshold for releases (column 1)		
			to air (column 1a) kg/year	to water (column 1b) kg/year	to land (column 1c) kg/year
88	206-44-0	Fluoranthene	—	1	—
89	465-73-6	Isodrin	—	1	—
90	36355-1-8	Hexabromobiphenyl	0,1	0,1	0,1
91	191-24-2	Benzo(g,h,i)perylene		1	

(1) Unless otherwise specified any pollutant specified in Annex II shall be reported as the total mass of that pollutant or, where the pollutant

is a group of substances, as the total mass of the group.

(2) A hyphen (—) indicates that the parameter and medium in question do not trigger a reporting requirement.

(3) Total mass of hydrogen fluorocarbons: sum of HFC23, HFC32, HFC41, HFC4310mee, HFC125, HFC134, HFC134a, HFC152a, HFC143, HFC143a, HFC227ea, HFC236fa, HFC245ca, HFC365mfc.

(4) Total mass of perfluorocarbons: sum of CF₄, C₂F₆, C₃F₈, C₄F₁₀, c-C₄F₈, C₅F₁₂, C₆F₁₄.

(5) Total mass of substances including their isomers listed in Group VIII of Annex I to Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer (OJ L 244, 29.9.2000, p. 1). Regulation as amended by Regulation (EC) No 1804/2003 (OJ L 265, 16.10.2003, p. 1).

(6) Total mass of substances including their isomers listed in Group I and II of Annex I to Regulation (EC) No 2037/2000.

(7) Total mass of substances including their isomers listed in Group III and VI of Annex I to Regulation (EC) No 2037/2000.

(8) All metals shall be reported as the total mass of the element in all chemical forms present in the release.

(9) Halogenated organic compounds which can be adsorbed to activated carbon expressed as chloride.

(10) Expressed as I-TEQ.

(11) Single pollutants are to be reported if the threshold for BTEX (the sum parameter of benzene, toluene, ethyl benzene, xylenes) is exceeded.

(12) Total mass of the following brominated diphenylethers: penta-BDE, octa-BDE and deca-BDE.

(13) Total mass of phenol and simple substituted phenols expressed as total carbon.

(14) Polycyclic aromatic hydrocarbons (PAHs) are to be measured for reporting of releases to air as benzo(a)pyrene (50-32-8), benzo(b)fluoranthene (205-99-2), benzo(k)fluoranthene (207-08-9), indeno(1,2,3-cd)pyrene (193-39-5) (derived from Regulation (EC) No 850/2004

of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants (OJ L 229, 29.6.2004, p. 5)).

(15) Total mass of tributyltin compounds, expressed as mass of tributyltin.

(16) Total mass of triphenyltin compounds, expressed as mass of triphenyltin.

(17) Total mass of xylene (ortho-xylene, meta-xylene, para-xylene).