OSPAR CONVENTION FOR THE PROTECTION OF THE MARINE ENVIRONMENT OF THE NORTH-EAST ATLANTIC

MEETING OF THE OSPAR COMMISSION (OSPAR)

MALAHIDE (IRELAND): 27 JUNE – 1 JULY 2005

OSPAR Recommendation 2005/1 on Reporting Formats on the Implementation and Effectiveness of OSPAR Measures Relating to the Non-Ferrous Metal Industry

RECALLING Articles 2(1) and (3) and 22 of the Convention for the Protection of the Marine Environment of the North-East Atlantic ("OSPAR Convention");

RECALLING that the Paris Commission and the OSPAR Commission have adopted:

PARCOM Recommendation 92/1 on Best Available Technology for Plants Producing Anodes and for the New Electrolysis Installations in the Primary Aluminium Industry;

PARCOM Recommendation 94/1 on Best Available Techniques for New Aluminium Electrolysis Plants, and

PARCOM Recommendation 96/1 on Best Available Techniques and Best Environmental Practice for Existing Aluminium Electrolysis Plants;

OSPAR Recommendation 98/1 concerning Best Available Techniques and Best Environmental Practice for the Primary Non-Ferrous Metal Industry;

OSPAR Recommendation 98/2 on Emission and Discharge Limit Values for Existing Aluminium Electrolysis Plants (as amended by OSPAR Recommendation 2002/1);

OSPAR Recommendation 2002/1 on Discharge Limit Values for Existing Aluminium Electrolysis Plants;

WISHING to rationalise the existing commitments of the Contracting Parties within the framework of the OSPAR Convention to report on the implementation and effectiveness of measures relating to emissions and discharges from the non-ferrous metal industry;

NOTING EC Council Directive 96/61/EC concerning Integrated Pollution Prevention and Control, in particular its provisions on national implementation reporting, and on an inventory of emissions and responsible sources implemented by the European Pollutant Emission Register (EPER), and corresponding legislation of other Contracting Parties which addresses these matters;

The Contracting Parties to the Convention for the Protection of the Marine Environment of the North-East Atlantic RECOMMEND:

1. Definitions

1.1 For the purpose of this Recommendation:

a. "the specified OSPAR measures" means PARCOM Recommendations 92/1, 94/1 and 96/1 and OSPAR Recommendations 98/1, 98/2 and 2002/1.

b. "non-ferrous metal industry" means those industrial sectors and plants to which the specified OSPAR measures apply.

2. Purpose and Scope

2.1 The purpose of this Recommendation is to simplify and rationalise the existing reporting commitments by replacing the existing implementation reporting formats in the specified OSPAR measures with one single reporting format, aligning the reporting years set out in these measures, and introducing new reporting commitments for lead, cadmium and mercury for the relevant sectors of the non-ferrous metal industry.

2.2 This Recommendation relates to the commitments of Contracting Parties to report on the implementation and effectiveness of the specified OSPAR measures in the non-ferrous metal industry.

3. Provisions

3.1 Contracting Parties should comply with their obligation to report on the implementation and effectiveness of the specified OSPAR measures by using the format at Appendix 1.

3.2 The format at Appendix 1 should be completed and submitted by Contracting Parties to the appropriate OSPAR subsidiary body for the first time in the meeting cycle 2007/2008 and, if the Commission judges it necessary, every four years thereafter until the specified OSPAR measures are fully implemented.

3.3 In consequence, the following parts of the specified OSPAR measures and their related formats are superseded:

a. the implementation report format for PARCOM Recommendation 92/1 on Best Available Technology for Plants Producing Anodes and for the New Electrolysis Installations in the Primary Aluminium Industry, as adopted by the Working Group of Point Sources (POINT) in 1998[1];

b. the Appendix of PARCOM Recommendation 96/1 on Best Available Techniques and Best Environmental Practice for Existing Aluminium Electrolysis Plants;

c. the Appendix of OSPAR Recommendation 98/1 concerning Best Available Techniques and Best Environmental Practice for the Primary Non-Ferrous Metal Industry;

d. Appendices I and II of OSPAR Recommendation 98/2 on Emission and Discharge Limit Values for Existing Aluminium Electrolysis Plants, as amended by OSPAR Recommendation 2002/1;

e. Appendix 1 of OSPAR Recommendation 2002/1 on Discharge Limit Values for Existing Aluminium Electrolysis Plants.

3.4 The following amendments are made to the specified OSPAR measures:

a. Section 5.1 of PARCOM Recommendation 96/1 on Best Available Techniques and Best Environmental Practice for Existing Aluminium Electrolysis Plants is replaced by

"Reports on the implementation of this Recommendation should be submitted to the appropriate OSPAR subsidiary body in 2007/2008."

b. In section 60 of OSPAR Recommendation 98/1 concerning Best Available Techniques and Best Environmental Practice for the Primary Non-Ferrous Metal Industry,

(i) the first sentence is replaced by:

"The next progress report on the implementation of this Recommendation should be made to the appropriate OSPAR subsidiary body in 2007/2008.";

(ii) the second sentence is omitted.

c. In paragraph 7.1 of OSPAR Recommendation 2002/1 on Discharge Limit Values for Existing Aluminium Electrolysis Plants, the words "and every four years thereafter" are omitted.

4. Entry into Force

4.1 This Recommendation has effect from 1 July 2005.

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[1] Annex 7, POINT summary record 1998, 98/17/1.

Appendix 1

Reporting format on the implementation and effectiveness of OSPAR measures relating to the non-ferrous metal industry

Country:

I. Implementation

Measure	**Reservation applies** **Yes/No**	**Is the measure applicable in your country?** **Yes/No[(1)]**	**Is the measure fully implemented?** **Yes/No[(2)]**	**Means of implementation** **1. legislation** **2. administrative action** **3. negotiated agreement**
PARCOM Recommendation 92/1 on Best Available Technology for Plants Producing Anodes and for New Electrolysis Installations in the Primary Aluminium Industry				
PARCOM Recommendation 94/1 on Best Available Techniques for New Aluminium Electrolysis Plants				
PARCOM Recommendation 96/1 on Best Available Techniques and Best Environmental Practice for Existing Aluminium Electrolysis Plants				

OSPAR Recommendation 98/1 concerning Best Available Techniques and Best Environmental Practice for the Primary Non-Ferrous Metal Industry (Zinc, Copper, Lead and Nickel Works)				
OSPAR Recommendation 98/2 on Emission and Discharge Limit Values for Existing Aluminium Electrolysis Plants				
OSPAR Recommendation 2002/1 on Discharge Limit Values for Existing Aluminium Electrolysis Plants				

Note (1)

If not state why not (e.g. no relevant plant):

Note (2)

If not state why and indicate when the measure is expected to be implemented:

II. Effectiveness

Please indicate the emissions and discharges of the priority hazardous substances and sum parameters listed in the tables in sections 1 – 3 below for the various types of non-ferrous metal industrial plants or installations. Where plants are operated in an integrated manner (an "installation"), plant-by-plant reporting is not required and reporting should cover the installation. Please give a representative figure for each pollutant and – if possible - the observed range of figures from all plants.

Please also indicate - in brackets behind the figures – whether emission or discharge values are estimated (E), measured (M) or calculated (C). If data could not be made available, please indicate in the appropriate "remarks" section (e.g. if monitoring of substance in question is not specified in the permit for the plant or installation, and estimations or calculations are not available).

"Specific loads" are the amounts of emissions or discharges for each unit (usually tonne) of production that is produced in the year in question. "Total loads" are the amounts of emissions or discharges from the plant or installation in the year in question.

"Specific load" has been chosen for reporting because it gives better information on environmental performance in one figure than "total load" and an explanation of capacity calculation. Where possible, emissions and discharges should be reported in this form. If that is not possible, emissions and discharges should be reported in one of the alternative forms.

1. Aluminium Electrolysis Plants covered by PARCOM Recommendations 94/1 and 96/1, and OSPAR Recommendations 98/2 and 2002/1

Please indicate number, type (Prebake/Söderberg) and capacity of plants/installations:

Prebake:

Söderberg:

Total capacity (tonnes of Al/year):

a. Emissions to air:

Substances[2]	Specific load in reporting year* (kg/tonne of Al produced)	Alternatively: Total load in reporting year (kg/year) (comparison with a base year)**	Alternatively: Concentration (mg/m^3)***
PAH (as Benzo(a)Pyrene), only Söderberg			
PAH (as Benzo(a)Pyrene), (ref. §4.2.4 of Rec. 98/2), only Söderberg			
Dust			
F_{total} or HF (gaseous fluoride)			

* Please indicate under "remarks" how specific loads were calculated.

** If reporting total loads, please add a baseline load for 2001 and please indicate associated actual production of metal and report under "remarks" when installed production capacities have changed.

*** Please indicate the associated volumetric flow-rate and whether fugitive emissions (e.g. from ventilation systems) are included.

[2] Dust (as a sum indicator for a number of hazardous substances (heavy metals)) and F (for the gas-cleaning performance in this sector) were additionally chosen to give an overview also on Prebake plants; PAH only for Söderberg, as required in Recommendation 98/2.

b. Discharges to water:

Hazardous Substances	Specific load in reporting year (kg/tonne Al produced)*	Alternatively: Total load in reporting year (kg/year)**	Alternatively: Concentration (mg/litre)***
PAH (as Borneff 6)			

* Please indicate under "remarks" how specific loads were calculated.

** If reporting total loads, please add a baseline load for 2001 and please indicate associated actual production of metal and report under "remarks" when installed production capacities have changed.

*** Please indicate the associated volumetric flow-rate.

c. Remarks: (i.e. explanation if change in production capacity in the country appeared, method to calculate specific loads)

2. Anode-Baking Plants covered by PARCOM Recommendation 92/1

Please indicate number and capacity of plants:

Total capacity (tonnes of anodes/year):

Emissions to air:

Hazardous Substances		Specific load in reporting year (kg/tonne anode)**	Alternatively: Total load in reporting year*** (kg/year)	Alternatively: Concentrations (mg/m^3)****
PAH as Benzo(a)Pyrene				
Alternatively*:	as condensed tar			
	as PAH 16/11 (if available)			
HF (gaseous fluoride)				

* In accordance with monitoring undertaken under Recommendations 92/1 and 98/2. Condensed tar is rarely used as a parameter today. An optional way of reporting is permissible.

** Please indicate under "remarks" how specific loads were calculated.

*** If reporting total loads, please add a baseline load for 2001 and please indicate associated actual installed production of metal and report under "remarks", in cases where production capacities have changed.

**** Please indicate the associated volumetric flow-rate, and whether storm water release is included.

Remarks: (i.e. explanation if change in production capacity in the country appeared, method to calculate specific loads)

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3. Emissions and Discharges from Primary Non-ferrous Metals Plants or Installations producing one or more refined metals (Zinc, Copper, Lead, Nickel) directly and predominantly from ores and concentrates as covered by OSPAR Recommendation 98/1

Please indicate number and capacity of plants/installations:

Total capacity (tonnes of Zn/year; tonnes of Cu/year; tonnes of Pb/year; tonnes of Ni/year; tonnes/year of other metals and metal compounds):

a. Mixed (integrated) production processes termed "installation"

Hazardous Substances	Specific loads in reporting year (kg/tonne of metal produced)*		Alternatively: Total load in reporting year** (kg/year) or alternatively concentration*** (mg/m ^{3}or mg/litre)	
	Air	Water	Air	Water
Cd				
Hg				
Pb				

* Please indicate under "remarks" how specific loads were calculated.

** If reporting total loads, please add a baseline load for 2001 and please indicate associated actual production of metal and report under "remarks" when installed production capacities have changed.

*** Please indicate the associated volumetric flow-rate and whether fugitive emissions (e.g. from ventilation systems)/storm water discharges are included.

b. Stand-alone zinc plants (if relevant)

Hazardous Substances	Specific loads in reporting year (kg/tonne of metal produced)*		Alternatively: Total load in reporting year** (kg/year) or alternatively concentration*** (mg/m ^{3}or mg/litre)	
	Air	Water	Air	Water
Cd				
Hg				
Pb				

* Please indicate under "remarks" how specific loads were calculated.

** If reporting total loads, please add a baseline load for 2001 and please indicate associated actual production of metal and report under "remarks" when installed production capacities have changed.

*** Please indicate the associated volumetric flow-rate and whether fugitive emissions (e.g. from ventilation systems)/storm water discharges are included.

c. Stand-alone copper plants (if relevant)

Hazardous Substances	Specific loads in reporting year (kg/tonne of metal produced)*		Alternatively: Total load in reporting year** (kg/year) or alternatively: concentration*** (mg/m ^{3}or mg/litre)	
	Air	Water	Air	Water
Cd				
Hg				
Pb				

* Please indicate under "remarks" how specific loads were calculated.

** If reporting total loads, please add a baseline load for 2001 and please indicate associated actual production of metal and report under "remarks" when installed production capacities have changed.

*** Please indicate the associated volumetric flow-rate and whether fugitive emissions (e.g. from ventilation systems)/storm water discharges are included.

d. Stand-alone lead plants (if relevant)

Hazardous Substances	Specific loads in reporting year (kg/tonne of metal produced)*		Alternatively: Total load in reporting year** kg/year or alternatively: concentration*** (mg/m ^{3}or mg/litre	
	Air	Water	Air	Water
Cd				
Hg				
Pb				

* Please indicate under "remarks" how specific loads were calculated.

** If reporting total loads, please add a baseline load for 2001 and please indicate associated actual production of metal and report under "remarks" when installed production capacities have changed.

*** Please indicate the associated volumetric flow-rate and whether fugitive emissions (e.g. from ventilation systems)/storm water discharges are included.

e. Stand-alone nickel plants (if relevant)

Hazardous Substances	Specific loads in reporting year (kg/tonne of metal produced)*		Alternatively: Total load in reporting year** (kg/year) or alternatively: concentration*** (mg/m ^{3}or mg/litre)	
	Air	Water	Air	Water
Cd				
Hg				
Pb				

* Please indicate under "remarks" how specific loads were calculated.

** If reporting total loads, please add a baseline load for 2001, and please indicate associated actual production of metal and report under "remarks" when installed production capacities have changed.

*** Please indicate the associated volumetric flow-rate and whether fugitive emissions (e.g. from ventilation systems)/storm water discharges are included.

f. Remarks: (i.e. explanation if change in production capacity in the country appeared, method to calculate specific loads)