ANNEX 2

RESOLUTION LDC.36(12)

MONITORING ACTIVITIES CARRIED OUT IN ACCORDANCE WITH ARTICLE VI(1)(d) OF THE LONDON DUMPING CONVENTION

THE TWELFTH CONSULTATIVE MEETING,

RECALLING Article VI(1)(d) of the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972, which provides that Contracting Parties shall monitor individually, or in collaboration with other Parties and competent international organizations, the condition of the seas for the purposes of this Convention,

RECALLING ALSO the definition of monitoring adopted at the Fifth Consultative Meeting, as set forth in paragraph 4.17 of LDC V/12,

RECALLING FURTHER that Contracting Parties are required to notify the Secretariat of permits issued and wastes dumped and incinerated at sea each year and that Contracting Parties have been invited to submit relevant information on monitoring activities to the Secretariat in accordance with either the notification form adopted at the Fourth Consultative Meeting or with the alternative reporting system accepted on a trial basis at the Tenth Consultative Meeting, both of which are set out in LDC 10/15, annex 7,

ACKNOWLEDGING that the Scientific Group on Dumping advised the Tenth Consultative Meeting regarding a revised definition of "monitoring for the purposes of the Convention", an alternative reporting system, together with annotations and guidelines for the interpretion of Article VI of the Convention, as set out in paragraph 6.11 of LDC/SG 9/13,

RECOGNIZING that the design and implementation of appropriate monitoring strategies are necessary and integral components of the assessment and permitting functions of national regulatory authorities and that these monitoring strategies may be quite specific to the materials, locations, and dumping and incineration operations being regulated,

RECOGNIZING ALSO that the experience gained by various Intergovernmental Organizations and by individual Contracting Parties in the design and implementation of monitoring programmes and in the interpretation of their results, should be of considerable interest and value to those Contracting Parties that plan to undertake such programmes,

NOTING that no Contracting Party has yet submitted monitoring information on the notification form adopted at the Fourth Consultative Meeting,

NOTING ALSO that some, but not all, Contracting Parties are now regularly submitting information on the permits issued and materials dumped and incinerated at sea and that an increasing number of monitoring reports are being received by the Secretariat,

RESOLVES:

1 to adopt a revised definition of monitoring as follows:

> Monitoring "... the condition of the seas for the purposes of this Convention" (as required in Article VI(1)(d)), refers to those measurements performed by Contracting Parties, alone or in collaboration, to demonstrate compliance of their at-sea dumping and incineration practices with the overall intent of the Convention and the requirements of the Annexes,

2 that as part of their regular notification of permits granted, Contracting Parties should inform the Secretariat of monitoring activities to be carried out in conjunction with, or in response to, dumping and incineration operations at sea in accordance with the revised notification format shown at annex to this resolution,

3 that Contracting Parties are also encouraged to notify the Secretariat of any monitoring programmes which relate to the general condition of the seas,

4 that Contracting Parties should provide the Secretariat with copies of summary reports, along with detailed research and assessment reports, which result from monitoring of dump sites and/or wider sea areas related to dumping and incineration at sea, and that this requirement replaces all previous formats adopted for the notification of monitoring activities,

5 that in the design and conduct of monitoring carried out for the purposes of the Convention, Contracting Parties should take account of any guidance on this subject prepared by the Scientific Group on Dumping, as well as the most recent and relevant advice from appropriate scientific bodies such as the Group of Experts on the Scientific Aspects of Marine Pollution (GESAMP) and the Advisory Committee on Marine Pollution (ACMP) of the International Council for Exploration of the Sea (ICES) as submitted to, and endorsed by, the Scientific Group on Dumping from time to time; this includes the advice contained in the 1988 report of the Advisory Committee on Marine Pollution of ICES (Chapter 4 on Monitoring Strategies, reproduced in LDC/SG 12/5/7),

6 that the Secretariat should prepare, and update annually, a summary of monitoring activities notified by Contracting Parties in accordance with this resolution, indicating, for each notification, the dumpsites and incineration sites and geographical areas covered by such monitoring, the main parameters and compartments (e.g. water, sediments, biota) studied, the duration or frequency of the monitoring and the name and address of the institution from which additional information can be obtained.

ANNEX

PROCEDURE FOR THE NOTIFICATION OF PERMITS ISSUED FOR THE DUMPING OF WASTES AND OTHER MATTER AT SEA

1 INTRODUCTION

1.1 Notification of General Permits issued

The Contracting Parties should send to the Organization, either directly or through a Secretariat established under a regional agreement, by 1 August in each year a record of the General Permits issued in the previous calendar year.

1.2 Notification of Special Permits issued

The Contracting Parties should immediately notify the Organization of each Special Permit issued.

1.3 Notification of monitoring requirements and plans

With each notification of permits issued the Contracting Parties should inform the Organization of the monitoring activities to be carried out in conjunction with, or in response to, dumping and incineration activities carried out at sea.

1.4 Details to be notified

The notifications should contain the information requested by the format set out below for each Special and General Permit (unless in any case a particular item of information is clearly inappropriate). Examples for different types of wastes and other matter are shown in section 3 below. These examples are given solely to illustrate the degree of detail expected under certain headings; they have no other significance.

2 FORMAT FOR THE NOTIFICATION OF GENERAL AND SPECIAL PERMITS

.1 Issuing Authority.

.2 Permit start date/Permit expiry date.

.3 Country of origin of wastes or other matter and port of loading.

.4 Detailed specification of waste or other matter and description of the process from which the waste or other matter is derived.

.5 Form in which waste or other matter is presented for disposal, i.e., solid, liquid or sludge (in case of liquids or sludges include weight per cent of insoluble compounds).

.6 Total quantity (in metric tonnes*) of waste or other matter covered.

.7 Expected frequency of dumping.

.8 Chemical composition of waste or other matter (this should be sufficiently detailed to provide adequate information, in particular with regard to the concentration of substances listed in Annexes I and II to the Convention; concentrations in mass per mass units**).

.9 Properties of waste or other matter:
- solubility;
- relative density (specific gravity);
- pH.

.10 Method of packaging.

.11 Method of release.

.12 Procedure and site for subsequent tank washing.

.13 Approved dumping site:
- geographical position (latitude and longitude);
- depth of water;
- distance from nearest coast.

.14 Monitoring requirements and plans.

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* Preferably in metric tonnes; if given in cubic metres, additional information on relative density (specific gravity) should be provided under 2.9.

** Indicate whether on dry weight or wet weight basis.

.15 Additional information with regard to the factors listed in Annex III of the Convention, in particular on the toxicity of waste or other matter (type of toxicity test, e.g. 96-hr LC_{50}, test species used). In case of chemical waste provide any information available on the biodegradability of the waste.

3 EXAMPLES

3.1 Dredged Materials

Item of format

.1 (Issuing authority)

.2 (15.1.81 - 31.12.81)

.3 (Port of loading)

.4 Dredgings from (source: estuary, harbour, etc.)

.5 Silt and clay, 60% solids content (weight)

.6 50,000 m^3

.7 once per week

.8 levels of contaminants present in solids, e.g., Oil: 200 ppm; Hg: 1 ppm; Cd: 2 ppm; cu: 50 ppm; Pb: 100 ppm; Zn: 150 ppm; Cr: 50 ppm. (concentrations on dry weight basis)

.9 - 60% insoluble
- 1.5 g/cm^3
- pH 7

.10 Not applicable

.11 Immediate release from barge through bottom opening doors

.12 Not applicable

.13 (approved dumping site)

.14 (additional information)

3.2 Sewage sludge

Item of format

.1	(Issuing authority)
.2	(15.1.81 - 31.12.81)
.3	(Port of loading)
.4	Primary/digested sewage from (source: town, city)
.5	sludges, 9% (weight) solids content
.6	300,000 t
.7	Three times per week
.8	5% organic solids 4% non organic solids Levels of components, e.g. Oil: 50 ppm; Cd: 0.1 ppm; Hg: 0.1 ppm; Zn: 100 ppm; Cu: 50 ppm; Cr: 50 ppm; Ni: 10 ppm; Pb: 40 ppm; N: 0.21%; P: 500 ppm (concentrations on wet weight basis)
.9	- 4% insoluble solids - 1.01 g/cm^3 - pH 6
.10	Not applicable
.11	Release at 1000 tonnes/hr from bottom of moving vessel (capacity 2000 tonnes)
.12	Not applicable
.13	(approved dumping site)
.14	(additional information)

3.3 Acid residues from Titanium Dioxide Production

Item of format

.1	(Issuing authority)
.2	(15.1.81 - 31.12.81)
.3	(Country of origin, port of loading)

.4 Diluted hydrochloric acids with suspended solids; production of titanium dioxide (TiO_2); raw material: ilmenite (Norwegian)

.5 Liquid; 2% insoluble solids

.6 150,000 t

.7 3 times per week

.8 10% hydrochloric acid;
3% iron sulphate;
level of other metals: V, Cr, Zn, Cu, Cd analysed;
2% suspended solids

.9 - 2% insoluble solids
- 1.1 g/cm^3
- pH 0.5

.10 Not applicable

.11 Discharged at 250 tonnes/hr into the wake of a vessel (1000 tonnes capacity) moving at 8 knots. Position of discharge 5m below surface.

.12 Tank washing at dumping site

.13 (approved dumping site)

3.4 Containers, scrap metal and other bulky wastes (e.g. wreckages) covered by Annex II, section C

Item of format

.1 (Issuing authority)

.2 (1.8.81 - 31.8.81)

.3 Identity in the case of ships or aircraft

.4 Specification of material (e.g. wooden hull, steel hull in the case of ships)

.5 Not applicable

.6 Dimensions

.7 Frequency of dumping (e.g. one dumping only)

.8 - .12 Not applicable

.13 (approved dumping site)

.14 Associated residues of contents of containers of any sort (including in the case of ships or aircraft, cargoes, fuel, etc.); precautions required to prevent pollution by such associated materials; measures taken to ensure wastes will sink and remain in place.

3.5 Radioactive wastes and other radioactive matter

For issuing special permits for the disposal of radioactive wastes at sea and for the operational control of such disposal, the details to be given in a notification format should reflect the results of considerations made in accordance with the IAEA Definition and Recommendations for the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972 (IAEA Safety Series No.78, section III).

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