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# METHODOLOGOCAL GUIDELINES FOR REPORTING AND NIP EFFECTIVENESS EVALUATION

Bucharest, June 2005

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### ABBREVIATIONS AND ACRONYMS

MMGA Ministry of Environment and Waters Management

ANPM National Agency for Environment Protection

ARPM Regional Agencies for Environment Protection

(REPA)

APM Local (county) Agencies for Environment Protection

(LEPA)

MS Ministry of Health

MEC Ministry of Economy and Commerce

MAPDR Ministry of Agriculture, Forests and Rural Development

MTCT Ministry of Transport, Constructions and Tourism

MAI Ministry of Administration and Interior

POP Persistent Organic Pollutants

DDT 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane

PCB polychlorinated biphenyls

HCB Hexachlorobenzene

NIP National Implementation Plan

GEF Global Environmental Facility

UNIDO United Nation Industrial Development Organization

UNEP United Nations Environment Programme

CSPOP Stockholm Convention On Persistent Organic Pollutants

COP Conference of the Parties

D.O.	Totalian Committee		
INC	Intergovernmental Negotiating Committee		
GMP	Global Monitoring Programme		
ICIM	National Research and Development Institute for Environment Protection		
I-TEQ	International Toxicity Equivalency Factor		
INS	National Institute for Statistics		
CORINAIR Core Inventory of Air Emissions			
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#### EXECUTIVE SUMMARY

The aim, the utility and the necessary future developments of the methodological guidelines for the reporting and effectiveness evaluation of the National Implementation Plan effects are presented in Introduction.

Chapter 1 provides a synthetic description of the institutional and legislative framework concerning the environmental information. A scheme of the national environmental information flow, with structural levels and relationships is given in Figure 1.

The main aspects of the Stockholm Convention are briefly described in the Chapter 2, in order to help the users which are not too familiarly with the aims and objective of this worldwide accepted act.

In the Chapter 3 the NIP is presented, with emphasis on the key-objectives (Table 1) and the list of the activities which are the subjects of the reporting and effectiveness evaluation. In addition, general information about NIP costs and time schedule are given here, while in Chapter 4 the obligation for our country, as a Party, regarding reporting and effectiveness evaluation, are detailed. In this chapter, the time schedule of reporting obligations and of COPs until year 2019 is presented in the Table 2.

Chapter 5 is dedicated to the methodological approach of the procedures for data gathering, processing and submission for reporting and effectiveness evaluation on each of the NIP activities previously listed in Chapter 3. The references are made for: data category, data sources, levels of raw data collection, reporting and periodicity, data processing procedures, effectiveness evaluation. A special attention was paid to the unintentional releases op some POPs (PCDD/PCDF and PCB) since they are not measured but calculated using emission factors according to "Standardized Toolkit for Identification and Quantification of Dioxin and Furan Releases" drawn-up by UNEP in February 2005. The Table 3 presents the coarse matrix sources - media for PCDD/PCDF calculation (emission sources in the lines and environmental media in the columns), which must be taken into considerations when unintentional releases of POPs are calculated.

In the annexes, two UNEP questionnaires (the draft of national reporting model form and the questionnaire for identifying worldwide laboratories able to perform POP analyses) and the the identification of subcategories of PCDD/PCDF emission sources are given.

#### INTRODUCTION

The aim of this methodology is to prepare a basis of a system for answering to the requirements of the Articles 15 (reporting) and 16 (effectiveness evaluation) of Stockholm Convention. It is strong related to the National Implementation Plan, since the subjects of the reporting and the effectiveness evaluation are the measures and the activities identified and detailed in this Plan.

The methodology is addressed to the main responsible structure and persons for reporting and data analyses in the environmental field, including POP issues, at local, regional and central levels: stakeholders, county, regional and national environmental protection agencies, involved Ministries, SCPOP focal point in Romania, ICIM, NGOs. Taking into consideration the heterogeneous character of the knowledge on Stockholm Convention of these persons, some aspects regarding the Parties obligations according to Articles 15 and 16 have been detailed. Also, a short description of NIP objectives and measures was included.

At this stage, only the basic information flow and procedures for reporting and effectiveness evaluation of each NIP activity could be described. Further methodological steps should follow in order to gradually develop a detailed methodology, particularly regarding the identification and definition of the indicators. Also, computer programs for data storage and circulation between various existing environmental monitoring systems together with the related databases have to be prepared. In this respect, it will be necessary to undertake some research works. The results of the first Conference of the Parties concerning reporting and effectiveness evaluation are also expected. With these improvements, the methodology will become in the next years a very important tool available for the Romanian Government to fulfill its obligations to comply with Articles 15 and 16 of the SCPOP.

In the present form, the methodology is very useful in helping the responsible persons in the environmental information system to become acquainted with POP reporting and effectiveness evaluation. Also, some first coarse effectiveness evaluations can be formulated, especially regarding the activities regarding legislative and institutional development, the PCB and pesticide stockpiles situation and the unintentional production of POPs.

The methodology, both in Romanian and English versions, will be placed for users on the site www.popsromania.ro.

# Chapter 1. INSTITUTIONAL AND LEGISLATIVE FRAMEWORK CONCERNING THE ENVIRONMENTAL INFORMATION

#### Institutional framework

The Governmental Decision no. 408/2004 concerning the organization and functioning of the Ministry of Environment and Waters Management, stipulates it the central authority responsible for the elaboration and enforcement of environmental legislation, including also aspects related to POPs. Its activity is supported by:

- National Environmental Protection Agency;
- 8 Regional Environmental Protection Agencies (REPAs)
- 34 Local Environmental Protection Agencies (LEPAs)

The National Environmental Protection Agency the Local and Regional EPA have specialized departments for public relations.

The Environmental Department of MMGA has the General Directorate for Environmental Protection, Waste management and Hazardous Chemicals coordinating the following directorates:

- Directorate for Waste Management and Hazardous Chemicals
- Directorate for Impact Assessment, Pollution Control and Risk Management
  The Directorate for Impact Assessment, Pollution Control and Risk Management is
  also responsible with environmental monitoring; one of the representatives from this
  directorate is also the Focal Point for Stockholm Convention.

The REPAs and LEPAs have similar organization with the central authority but are acting at regional or local level.

The control of the environmental protection legislation implementation and related activities is the responsibility of the Environmental Guard with his central and local representatives.

Other ministries which are also involved in POPs related aspects are: Ministry of Health, Ministry of Industry, Ministry of Agriculture, Forests and Rural Development, Ministry of Transport, Construction and Tourism.

MMGA coordinates some national research institutes, which have specific responsibilities in the process of environmental data (including POPs) collecting, processing dissemination and interpretation. The public information flow of exchange mechanism at the national level is specified in the Figure 1.

### Legislative framework

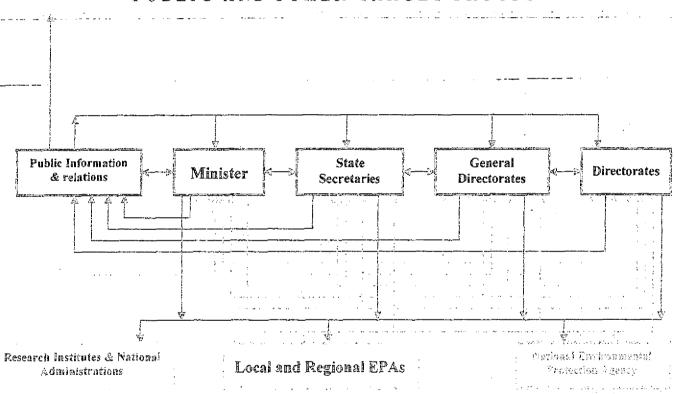
- The public participation, access to information, awareness and education is specified in the following regulations:
- ♦ Environmental Protection Law no. 137/1995 republished (Of. J. no. 70/2000)
- ♦ Government Ordinance no. 91/2002 for amending Environmental Protection Law no. 137/1995 republished (Of. J. no. 465/2002)
- ◆ Law no. 86/2000 for the ratification of the Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters, signed at Aarhus in June 25, 1998 (Of. J. no. 224/2000)
- ♦ Governmental Decision no.1115/2002 on free access to environmental information (Of. J. no. 781/2002)
- ♦ MWEP Order no. 1182/2002 for the approval of the methodology concerning environmental information management and flow being in detained by the environmental protection authorities (Of. J. no. 331/2003)

Fig 1. National environmental information flow

### Legend

Information request from the public and other target groups
Information flow inside the ministry system and the public and other target groups
(demands and answers)
Information exchange inside the ministry
Minimum flow of information requested by Local and regional EPAs, Research Institutes and National Administrations, Environmental Protection National Agency
Answers to the requested information from the Local and regional EPAs, Research Institutes and National Administrations, Environmental Protection National Agency to the ministry, other institutions part of the ministry system and to the public and other target groups
Demands of information to the other institution part of the ministry system

### PUBLIC AND OTHER TARGET GROUPS



PUBLIC AND OTHER TARGET GROUPS

# Current level of information, existing communication systems, information exchange with other Parties

The analysis of the current level of information, awareness and education among target group was based on the following key features:

- development of an integrated information approach on POPs in Romania;
- existing and future possibilities of raising public awareness at the local and central decision making authorities;
- methods used for public information;
- methods used to collect information from the target group representatives;
- possibilities of strengthening research on POPs related issues and to integrate those ones into the European research;
- future elaboration of the environmental regulations on issues related to POPs;
- · elaboration of guidelines, methodologies and manuals;
- organization of focused events;
- existing systems of communication for such information to the various target groups and the means used.

Methodology used for analysis of the current situation was based on:

- Literature review on specific reports and studies elaborated by the different representatives of the target groups;
- Discussion with experts / stakeholders representatives such as: researchers, staff from local/national competent authorities, producers, civil society etc);
- specific attention was given to the differences in national and international legislation

The main needs identified by the analysis were:

Improvement of the information chain on POPs;

- fill the knowledge of information gap;
- review of the policies and improve communication;
- enhance the information exchange and the access to information.

For public awareness and information on POPs issues, several activities were developed such as:

- seminars for public information;
- leaflets with information about POPs and about Enabling Activities for Implementing Sockholm Convention;
- a web page: www.popsromania.ro

The exchange oh information with other Parties is based mainly on the focal point activities, as well as on the participation of Romanian experts and official representatives at various events (COP, workshops, bilateral meetings etc.).

### Chapter 2. STOCKHOLM CONVENTION - THE MAIN ASPECTS

The Stockholm Convention on Persistent Organic Pollutants (POPs) was adopted in May 2001 with the objective of protecting human health and the environment from POPs.

The Stockholm Convention focuses on reducing and, where appropriate, eliminating releases of 12 POPs of international concern. These include nine pesticides - aldrin, chlordane, dichlorodiphenyltrichloroethane (DDT), dieldrin, endrin, heptachlor, hexachlorobenzene (also an industrial chemical and unintended byproduct), mirex and toxaphene; two industrial chemicals – polychlorinated biphenyls (PCBs - also unintended by-products) and hexachlorobenzene (HCB); and four by products - polychlorinated dibenzo-p-dioxins (PCDD) and dibenzo-furans (PCDF), as well as HCB and PCBs.

POPs are chemicals that remain intact in the environment for long periods, become widely distributed geographically, accumulate in the fatty tissue of living organisms and are toxic for humans and wildlife.

At global level, the Convention entered into force at 17 May 2004, after its ratification by 50 states, at present it includes 98 Parties (97 states and the European Union). Romania ratified the Convention and become a Part by adoption of the Law 261/2004.

The Convention (Article 7) requires the development of a National Implementation Plan (NIP), in order to provide a framework for a country to develop and implement, in a systematic and participatory way, priority policy and regulatory reform, capacity building, and investment programs.

Romania has developed the NIP during August 2002 – February 2005, within a project financed by GEF/UNIDO.

### Chapter 3. NATIONAL IMPLEMENTATION PLAN

In order to develop the NIP, an Interministerial working group has been established. The group included representatives of the next ministries and central institutions: Ministry of Environment and Waters Management, Ministry of Health, Ministry of Economy and Commerce, Ministry of Agriculture, Forests and Rural Development, Ministry of Transport, Constructions and Tourism, Ministry of Administration and Interior, Universitaty "Politehnica" Bucharest. The coordinator of the group was National Research and Development Institute for Environmental Protection – ICIM Bucharest, awarded by GEF/UNIDO with the contract for this project. Also, the Steering Committee leaded by the State Secretary for environment within MMGA supervised all the activities related to the NIP development.

The Plan was finalized with technical assistance received from UNIDO experts in order to ensure the compliance with the interim guidance elaborated by UNEP and World Bank.

The purpose of the NIP: to establish and prioritize objective, measures and actions, with time schedules, deadlines and cost estimation, in order to reach the obligations under the Stockholm Convention.

The key-objectives are presented in the Table 1.

Table 1. NIP key-objectives

Priority	Key-objectives		
III	Key-objective 1:	To eliminate pesticides stockpiles and wastes	
п	Key-objective 2:	To eliminate existing stocks of PCBs	
IV	Key-objective 3:	To eliminate not identified POPs (presumed to be POPs)	
I	Key-objective 4:	To prohibit the production of POPs and other substances that might be included on the POPs list in the future	
X	Key-objective 5:	To strive for the sustainable development of ecological agriculture	
XI	Key-objective 6:	To enhance the production and use of "cleaner" and more economical substances to be used for fighting disease vectors and/or arthropods causing discomfort	
IX	Key-objective 7:	To improve environmental performance in the energy sector	
VIII	Key-objective 8:	To improve environmental performance in the transportation sector	
VII	Key-objective 9:	To improve transportation management in the urban sector	
VI	Key-objective 10:	Îmbunătățirea performanțelor de mediu în sectorul industrial	
v	Key-objective 11:	To improve environmental performance in the industrial sector	

For each objective, NIP identifies measures which are to be applied through various actions. Their turn, these actions are grouped in activities, depending on the purposes and roles in reaching the key-objectives. These activities are defined according with the methodological indications of the UNEP/World Bank interim guidance. They are listed below.

# A1. Institutional and regulatory strengthening measures

A2. Measures to reduce or eliminate releases from intentional production and use

- A3. Production, import and export, use, stockpiles and wastes of Annex A POPs pesticides (Annex A, part. I Chemicals)
- A4. Production, import and export, use, identification, labeling, removal, storage and disposal of PCBs and equipment containing PCBs (Annex A, part II chemicals)
- A5. Production, import and export, use, stockpiles and wastes DDT (Annex B chemicals)
- A6. Register for specific exemptions and the continuing need for exemptions (article 4)
- A7. Action plan: measures to reduce releases from unintentional production (Article 5, Annex C, part I: Polychlorinated dibenzo-p-dioxins and dibenzofurans PCDD/PCDF, Hexachlorobenzene HCB, Polychlorinated biphenyls PCB)
- A8. Measures to reduce releases from stockpiles and wastes (article 6)
- A9. Strategy: Identification of stockpiles, articles in use and wastes
- A10. Activity: manage stockpiles and appropriate measures for handling and disposal of articles in use
- A11. Strategy: identification of contaminated sites (Annex A,B and C chemicals) and remediation in an environmentally sound manner
- A12. Facilitating or undertaking information exchange and stakeholder involvement
- A13. Public awareness, information and education (Article 10)
- A14. Effectiveness evaluation (Article 16)
- A15. Reporting (Article 15)
- A16. Research, development and monitoring (Article 11)
- A17. Technical and financial assistance (articles 12 and 13)

For each above-mentioned activity (excepting A2 and A6, not applicable in Romania), the NIP specifies:

- a specific summary
- an overview of the current practices, inventories, or legislation
- the proposed measures
- the work plan and budget
- monitoring measures and success evaluation

The timetable of NIP implementation is laid down on 25 years period of time divided in three sub-periods:

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I: short term: 1 - 3 yrs (2005 - 2007);
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II: medium term: 4 - 10 yrs (2008 – 2014);

III: long term: 11 - 25 yrs (2015 - 2029).

The total cost of NIP implementation is 52.6 million Euro, of which:

- investments: 28.4 million Euro;

domestic manpower: 17 million Euro;

foreign manpower: 7.15 million Euro.

# Chapter 4. OBLIGATIONS OF THE PARTIES REGARDING REPORTING AND EFFECTIVENESS EVALUATION

# Reporting

Paragraph 1 of Article 15 of the Stockholm Convention on Persistent Organic Pollutants requires each Party to report to the Conference of the Parties on the measures it has taken to implement the provisions of the Convention and on the effectiveness of such measures in meeting the objectives of the Convention. Paragraph 2 of the article sets out the information to be reported, and paragraph 3 stipulates that reporting must be carried out at periodic intervals and in a format to be decided by the Conference of the Parties at its first meeting.

The time schedule of reporting obligations of the Parties is given in the Table 2.

Table 2. Time schedule of reporting obligations and of COPs

YEAR	ACTIVITY
2004	Entery into force of the Convention
2005	COP-1
2006	COP-2; Implementation plans
2007	COP-3; !st National Report; Report on DDT
2008	1 <sup>st</sup> Effectiveness Evaluation
2009	COP-4; Report on progress in elimination of PCBs
2010	Report on DDT
2011	COP-5; 2 <sup>nd</sup> National Report; Review of strategies to address release of Chemicals listed in Annex C
2013	COP-6; Report on DDT
2014	Report on progress in elimination of PCBs
2015	COP-7; 3 <sup>rd</sup> National Report
2016	Report on DDT; Review of strategies to address release of Chemicals listed in Annex C
2017	COP-8
2019	COP-9; 4th National Report; Report on progress in elimination of PCBs

The main reporting obligations of the Parties according to the 15 Article of SCPOP are detailed below.

Each Party shall report to the Conference of the Parties on the measures it has taken to implement the provisions of the Convention and on the effectiveness of such measures in meeting the objectives of the Convention. In addition, each Party shall provide to the Secretariat:

- (a) Statistical data on its total quantities of production, import and export of each of the chemicals listed in Annex A and Annex B or a reasonable estimate of such data;
- (b) To the extent practicable, a list of the States from which it has imported each such substance and the States to which it has exported each such substance.

COP-1 will set-up the format of the reports. The reports are to be prepared with a periodicity of 4 years.

Starting with year 2009 (COP-4) each Party will provide a report every five years on progress in eliminating polychlorinated biphenyls and submit it to the Conference of the Parties.anul 2009 (COP - 4). The Secretariat of SCPOP will establish the format of this reports prior to COP-2.

At its seventh session, the Intergovernmental Negotiating Committee, in its decision INC-7/11, noted the draft model format for reporting under Article 15. The Secretariat conducted a field test of the draft model format that had first been revised on the basis of comments received at the seventh session of the Intergovernmental Negotiating Committee. Taking into account the experienced gained from the field test, the Secretariat prepared the revised draft format presented in Annex1. This model format is to be subject of debates by COP-1 which will decided on a final version.

Part A of the format requires the respondent to provide general information on the Party submitting the report, such as contact details and name of the officer submitting the report. It is important that all the relevant information be provided in order to assist the Secretariat in identifying the report.

Part B of the format requires the respondent to provide information on the measures taken by the Party to implement the relevant provisions of the Stockholm Convention and on the effectiveness of such measures in meeting the objectives of the Convention. When the information is not available, Parties are requested to indicate this.

#### Effectiveness evaluation

The Effectiveness evaluation is the subject of the Article 16 of SCPOP, which basically stipulates in its 4 paragraphs the following:

 Commencing four years after the date of entry into force of this Convention, and periodically thereafter at intervals to be decided by the Conference of the Parties, the Conference shall evaluate the effectiveness of this Convention

- the Conference of the Parties shall, at its first meeting, initiate the establishment of arrangements to provide itself with comparable monitoring data on the presence of the chemicals listed in Annexes A, B and C as well as their regional and global environmental transport
- The evaluation described in paragraph 1 shall be conducted on the basis of available scientific, environmental, technical and economic information, including: reports and other monitoring information provided pursuant to paragraph 2; national reports submitted pursuant to Article 15; and non-compliance information provided pursuant to the procedures established under Article 17.

The objective of the Stockholm Convention is to protect human health and the environment from persistent organic pollutants (POPs). The Convention requires Parties to adopt and implement measures aiming at reducing or eliminating the release of POPs into the environment with the view to reducing the exposure of human, animals and environmental organisms to them. The Parties to the Convention will each elect to apply a number of policy measures that will contribute to the reduction or elimination of POPs releases, and these measures will vary from country to country reflecting the differing country situations and POPs problems. It is expected that the applied measures in total will reduce POPs releases with consequent benefits to health and the environment but it will be difficult to link any single measure to a particular benefit.

The effect of implementing the Convention will be the result of the individual measures undertaken by Parties. It is therefore useful to find approaches for determining whether the combination of these measures is providing, at the aggregate level, timely improvement of the situation prevailing before the Convention entered into force. This is particularly important because the Stockholm Convention does not require the immediate ban of all substances.

Monitoring data on the presence in the environment of the POPs listed in annexes A, B and C of the Convention can be collected from existing national and international monitoring programs through a global network using applicable standards and guidelines to ensure comparability of data.

The COP will need to determine the criteria by which it evaluate effectiveness. As indicated above, the criteria might include reductions in:

- (a) Levels of POPs in the environment and people;
- (b) The need for exemptions for on-going use of POPs under the Convention:
- (c) Levels of POPs in the environment.

Other criteria could be identified by the COP.

# Global monitoring programme

The Secretariat of SCPOP has prepared for debating within COP-1 proposals for the development of a global monitoring programme on POPs (GMP) in order to provide to the COP reliable date for the effectiveness evaluation.

GMP could be established to link together existing national, regional and global activities on monitoring and provide recommendations for the elements to be contained within such a global programme.

The objective of such a global monitoring programme would be to "provide a harmonized organizational framework for the collection and assessment of comparable monitoring data on the presence of the chemicals listed in Annexes A, B and C of the Stockholm Convention in order to identify temporal and, as appropriate, spatial trends as well as to provide information on their regional and global environmental transport".

In developing the global persistent organic pollutants monitoring programme, a number of general principles have been applied and the main ones are listed below:

- a) The programme should strive for simplicity and, to the extent possible, should build on existing programmes to meet present and future needs. It should encourage flexibility, which is the ability to evolve over time in order to respond to the needs of the Convention while maintaining comparability;
- b) In order to make the GMP into a regional reality, capacity-building will be a crucial aspect for implementation. In keeping with the regional approach proposed for the GMP, capacity-building under this programme should include the following elements where needed:

- i) Institutional capacity, ensuring long-term sustainability of monitoring efforts;
- ii) Laboratory and technological capacity;
- iii) Human capacity, comprising professional and technical expertise;
- c) Only the chemicals contained in Annexes A, B and C of the Convention are considered in the context of Article 16. The environmental levels of the annex substances will be measured primarily in order to detect changes over time, which is essential for effectiveness evaluation
- d) It is essential to be inclusive and transparent in all aspects of the programme design, conduct and in the assessment process. Failure to do so risks a lack of confidence and interest in the final reports

At the Workshop to Develop a POPs Global Monitoring Programme (GMP) to Support the Effectiveness Evaluation of the Stockholm Convention on POPs, held in Geneva from 24 to 27 March 2003, it was drafted a questionnaire for identifying worldwide laboratories able to perform POP analysis in order to include them in GMP (see Annex3).

At present, Romania is not included in the database of the countries which have respondent to the questionnaire (<a href="http://www.chem.unep.ch/gmn/gmnlabs/gmnlabs\_db.htm">http://www.chem.unep.ch/gmn/gmnlabs/gmnlabs\_db.htm</a>). The filled-in questionnaires must be submitted to e-mail <a href="monitoretwork@chemicals.unep.ch">monitoretwork@chemicals.unep.ch</a>.

It is anticipated that the final product of the GMP would be a compendium of regional assessment reports, one for each region, together with a global overview report.

# Chapter 5. PROCEDURES FOR DATA GATHERING, PROCESSING AND SUBMISSION FOR REPORTING AND EFFECTIVENESS EVALUATION

Chapter 34 presented the NIP activities which will be monitored in order to ensure the reporting and effectiveness evaluation process. The 17 activities have been established according to the interim guidance for developing NIPs for SCPOP elaborated by UNEP and World Bank. Two of these activities (A2 and A6) are not applicable for Romania. For the others, methodological aspects regarding proposed procedures related to the reporting and evaluation processes will be presented below.

#### A1. Institutional and regulatory strengthening measures

Data category:

Laws, decrees, Government decisions, ministerial orders, other normative acts, strategies, environmental policies, action programmes entered into force during the reporting year

Official monitor, Internet, legislative databases

Levels of raw data

At central level, by MMGA, ANPM, ICIM other Ministries

collection

Data sources

and central institutions

Reporting, periodicity

At central level towards COP, Secretariat of SCPOP,

UNEP - yearly; as requested

Data processing procedures

Data storage in historical files

- manually in registers

electronically in databases (depending on their unitary implementation)

Effectiveness evaluation

At central level MMGA, ANPM, ICIM

A2. Measures to reduce or eliminate releases from intentional production and use Not applicable for Romania.

A3. Production, import and export, use, stockpiles and wastes of Annex A POPs pesticides (Annex A, part. I Chemicals)

Data category

For each of chemicals listed in Annex A, part I (excepting PCB) - Aldrin, Chlordane Dieldrin, Endrin, Heptachlor, Hexachlorobenzene, Mirex, Toxaphene - eliminated waste quantities during the reporting year (with specification of destination): total, incinerated, controlled final disposal, exported, through other authorised methods

Number of deposits demolished/transformed in a sound

#### environmental manner

Data sources

Reporting forms, inventories

Levels of raw data

collection

Waste holders (economic units)

Reporting, periodicity

From waste holders (economic units) towards local

authorities (representing MMGA, MAPDR, MS) - yearly

From local authorities towards national level (MMGA,

MAPDR, MS) - yearly

From national level towards COP, Secretariat of SCPOP,

UNEP - yearly, as requested

Data processing

procedures

Data aggregations at higher levels

Data storage in historical files

- manually in registers

- electronically in databases (depending on their

unitary implementation)

Effectiveness evaluation

At local and regional levels by APM, ARPM

At national level by MMGA, ANPM, ICIM

# A4. Production, import and export, use, identification, labeling, removal, storage and disposal of PCBs and equipment containing PCBs (Annex A, part II chemicals)

Data category

Quantities; number of equipments eliminated in the

reporting year (with specification of destination): total, incinerated, controlled final disposal, exported, through

other authorized methods, on equipment types

(transformers, capacitors, others) and categories (waste

stockpiles, in function equipments)

Number of deposits demolished/transformed in a sound

environmental manner

Data sources

Reporting forms, inventories

Levels of raw data

Holders (economic units)

collection

Reporting, periodicity

From holders (economic units) towards local authorities

(representing MMGA) - yearly

From local authorities towards national level (MMGA,) -

yearly

From national level towards COP, Secretariat of SCPOP, UNEP - according to COPs time schedule, as requested

Data processing

Data aggregations at higher levels

procedures

Data storage in historical files

- manually in registers

- electronically in databases (depending on their

unitary implementation)

Effectiveness evaluation

At local and regional levels by APM, ARPM At national level by MMGA, ANPM, ICIM

# A5. Production, import and export, use, stockpiles and wastes DDT (Annex B chemicals)

Data category

Quantities eliminated in the reporting year (with

specification of destination): total, incinerated, controlled final disposal, exported, through other authorized methods Number of deposits demolished/transformed in a sound

environmental manner

Data sources

collection

Reporting forms, inventories

Levels of raw data

7

Waste holders (economic units)

Reporting, periodicity

From waste holders (economic units) towards local

authorities (representing MMGA, MAPDR, MS) - yearly From local authorities towards national level (MMGA,

MAPDR, MS) - yearly

From national level towards COP, Secretariat of SCPOP, UNEP - according to COPs time schedule, as requested

Data processing

Data aggregations at higher levels

procedures

Data storage in historical files

- manually in registers
- electronically in databases (depending on their unitary implementation)

Effectiveness evaluation

At central level MMGA, ANPM, ICIM

A6. Register for specific exemptions and the continuing need for exemptions (article 4) Not applicable for Romania.

A7. Action plan: measures to reduce releases from unintentional production (Article 5, Annex C, part I: Polychlorinated dibenzo-p-dioxins and dibenzofurans PCDD/PCDF, Hexachlorobenzene HCB, Polychlorinated biphenyls PCB)

Data category

Statistical data regarding production levels and activities for the next categories:

- waste incineration
- ferrous and non-ferrous metal production
- heat and power generation
- production of mineral products
- transport
- open burning processes
- production and use of chemicals and consumer goods
- miscellaneous
- disposal
- identification of potential hot-spots

for each above category there are identified subcategories. Emissions factors for these subcategories are determined through various methodologies. The document "Standardized Toolkit for Identification and Quantification of Dioxin and Furan Releases" drawn-up by UNEP in February 2005 provides a comprehensive methodology for calculation of the PCDD/PCDF emissions based on the

emission factors. The document is available on the Internet address <a href="http://www.chem.unep.ch/pops">http://www.chem.unep.ch/pops</a>

The annual emissions in atmosphere, water, soil, products and wastes will be calculated in I-TEQ, according to the matrix presented in Table 3.

Annex 2 lists the subcategories for which the emissions have to be calculated.

#### Data sources

The yearly local and national statistics
Registered data regarding economic activities, including national production and imports/exports
Environmental permits of economic units
Data provided by industrial professional associations
Historical data regarding industrial production

# Levels of raw data collection

- 1. Economic units
- Local/regional level: statistic county directorates, APM,
   ARPM, national company branches, prefectures
   Central level: MMGA, other ministries, National
   Institute for Statistics, ANPM, ICIM

#### Reporting, periodicity

From economic units towards local and regional authorities -yearly

From local and regional authorities to national level authorities - yearly

From national level towards COP, Secretariat of SCPOP,

UNEP - according to COP programme, as requested

# Data processing procedures

Emission calculation in conformity with UNEP and CORINAIR methodologies, at central level (ICIM) Data storage in historical files

- manually in registers
- electronically in databases (depending on their unitary implementation)

#### Effectiveness evaluation

At central level MMGA, ANPM, ICIM, through comparative analyses. The evolution of industrial production should be taken into consideration, since, besides NIP measures, it directly affects levels of the productions and implicitly the emissions.

Table 3. Coarse matrix sources - media for PCDD/PCDF calculation

SOURCE CATEGORY	AIR	WATER	SOIL	PRODUCTS	WASTE
Waste Incineration	X				X
Ferrous and Non-Ferrous  Metal Production	X				X
Heat and Power Generation	X		X		X
Production of Mineral Products	X				X
Transport	X				X
Open Burning Processes	X	X	X		X
Production and Use of Chemicals and Consumer Goods	х	х		X	X
Disposal	X	X	X	,	X
Identification of Potential Hot-Spots	Probably registration only to be followed by site-specific evaluation				
Miscellaneous	X	X	X	X	X

#### A8. Measures to reduce releases from stockpiles and wastes (article 6)

Data category

The data regarding this activity, as well as the procedures for data processing and reporting/evaluation are described at

Data sources

points A1 and A3.

Levels of raw data

collection

Reporting, periodicity

Data processing

procedures

Effectiveness evaluation

### A9. Strategy: Identification of stockpiles, articles in use and wastes

points A1 and A3.

Data category

The data regarding this activity, as well as the procedures

Data sources

for data processing and reporting/evaluation are described at

Levels of raw data

collection

Reporting, periodicity

Data processing

procedures

Effectiveness evaluation

A10. Activity: manage stockpiles and appropriate measures for handling and disposal of articles in use

Data category

The data regarding this activity, as well as the procedures

Data sources

for data processing and reporting/evaluation are described at

points A1 and A3.

Levels of raw data

collection

Reporting, periodicity

Data processing procedures

Effectiveness evaluation

A11. Strategy: identification of contaminated sites (Annex A,B and C chemicals) and remediation in an environmentally sound manner

Number, location, areas of existing contaminated zones, Data category

> types of contaminative chemicals, the duration of the contamination - data regarding the reporting year in

comparison with the previous year

Reporting forms, inventories Data sources

At local level: local authorities representing MMGA, MS, Levels of raw data

MAPDR, prefectures, county councils collection

From local authorities towards national level (MMGA, Reporting, periodicity

MAPDR, MS) - yearly

From national level towards COP, Secretariat of SCPOP, UNEP - according to COPs time schedule, as requested

Data aggregations at higher levels Data processing

Data storage in historical files procedures

manually in registers

electronically in databases (depending on their

unitary implementation)

At national level MMGA, ANPM, ICIM Effectiveness evaluation

A12. Facilitating or undertaking information exchange and stakeholder involvement

The data regarding this activity are collected, processed and Data category

evaluated at central level by MMGA, ANPM, ICIM and are Data sources

reported through national reports to COP, according to COP

Levels of raw data time schedule

collection

Reporting, periodicity

Data processing procedures

Effectiveness evaluation

### A13. Public awareness, information and education (Article 10)

Data category

Data sources

Levels of raw data

collection

Reporting, periodicity

Data processing procedures

Effectiveness evaluation

The data regarding this activity are collected, processed and evaluated at central level by MMGA, ANPM, ICIM and are reported through national reports to COP, according to COP time schedule

### A14. Effectiveness evaluation (Article 16)

Data category

Data sources

Levels of raw data

collection

Reporting, periodicity

Data processing

procedures

Effectiveness evaluation

The data regarding this activity are collected, processed and evaluated at central level by MMGA, ANPM, ICIM and are reported through national reports to COP, according to COP time schedule

### A15. Reporting (Article 15)

Data category

The reporting is done at central level by the focal point in MMGA, towards COP or Secretariat, depending on requests

Data sources

and COP time schedule

Levels of raw data

collection

Reporting, periodicity

Data processing procedures

Effectiveness evaluation

# A16. Research, development and monitoring (Article 11)

Data category Number of titles, research themes, studies, methodologies

referring to POP problems developed in the reporting year,

on categories and elaborators

Data sources National and sectorial research programmes

Levels of raw data At central level: Ministry of Education and Research,

collection MMGA, MS, MAPDR, MTCT,

Reporting, periodicity From national level (MMGA) towards COP, Secretariat of

SCPOP, UNEP - according to COPs time schedule, as

requested

Data processing Data storage in historical files

procedures - manually in registers

- electronically in databases (depending on their

unitary implementation)

Effectiveness evaluation At central level MMGA, ANPM, ICIM

#### A17. Technical and financial assistance (articles 12 and 13)

Data category The list of technical and financial measures taken in the

reporting year in order to support NIP

Data sources Ministries, Environmental Fund, INS, local authorities

Levels of raw data At local level: local authorities representing ministries

collection (MMGA, MS, MAPDR, INS), prefectures, county councils

At central level Ministries, Environmental Fund, INS

Reporting, periodicity From local authorities towards national level (MMGA,

MAPDR, MS) - yearly

From national level (MMGA) towards COP, Secretariat of SCPOP, UNEP - according to COPs time schedule, as

requested

Data processing Data aggregations at higher levels

procedures Data storage in historical files

- manually in registers

- electronically in databases (depending on their

unitary implementation)

Effectiveness evaluation At central level MMGA, ANPM, ICIM

#### **BIBLIOGRAPHICAL REFERENCES**

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First Meeting of the Conference of the Parties of the Stockholm Convention, Punta del Este, Uruguay, 2-6 May 2005, meeting documents, <a href="https://www.iisd.ca/chemical/pops/cop1">www.iisd.ca/chemical/pops/cop1</a>

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# ANNEXES

# Annex 1

The national reporting model form (draft)

STOCKHOLM CONVENTION ON PERSISTENT ORGANIC POLLUTANTS  NATIONAL REPORT PURSUANT TO ARTICLE 15				
1. INFORMATION ON THE CONTRACTING PARTY				
Name of Contracting Party				
Date on which its instrument of Ratification/ Ac	ccession/ (day/month/year)			
Approval or Acceptance was deposited	( asy, we may all			
2. INFORMATION ON NATIONAL FOCAL POINT				
Full name of the institution				
Name and title of contact officer				
Mailing address				
Telephone number				
Fax number				
E-mail				
Web page				
	ING THE NATIONAL REPORT IF DIFFERENT TO THE ABOVE			
Full name of the institution				
Name and title of contact officer				
Mailing address				
Telephone number				
Fax number				
E-mail				
Web page				
4. PERIOD REPORTED	Ist Report for the period (day/month/200_) to (day/month/200_)			
5. DATE THE REPORT WAS SUBMITTED	(day/month/year)			
PART B.				
	THE PARTY TO IMPLEMENT THE PROVISIONS OF THE STOCKHOLM SUCH MEASURES IN MEETING THE OBJECTIVES OF THE CONVENTION			
SECTION I. ARTICLE 7: IMPLEMENTATION PLAN				
1. Has your country developed an Implem	nentation Plan Pursuant to Article 7 of the Stockholm Convention?			
☐ Yes ☐ No (If no, state why and go to the next section)				
If your country is a developed country please go to question 3, if not please go to question 2.				
2. If your answer to question I above is yes, did your country receive financial assistance from the Global Environment Facility to develop the implementation plan?				
☐ Yes (please state name of implementing agency)  ☐ No (please state why)				
3. Has your country transmitted its Implementation Plan to the Conference of the Parties?				
☐ Yes (If yes provide date (day/month/year) ☐ No (state why)				
4. Has your country encountered any difficulties in the implementation of the above-mentioned Implementation Plan?				
☐ Yes (please specify) ☐ No				
☐ Other (please provide the relevant information)				

	URES TO REDUCE OR ELIMINATE RELEASES FROM INTENT	
	paragraph 1(i), has your country prohibited and/or take the production and use of chemicals listed in Annex A	
☐ Yes (please fill in table belo ☐ No (briefly state why) ☐ Other (please specify)	ow as appropriate)	
CHEMICAL	Legal/ administrative Measure	DATE (DD/MM/YY)
Aldrin CAS No: 309-00-2		
Chlordane CAS No: 57-74-9		
Dieldrin CAS No: 60-57-1		
Endrin CAS No: 72-20-8		
Heptachlor CAS No: 76-44-8		
Hexachlorobenzene CAS No: 118-74-1		
Mirex CAS No: 2385-85-5		
Toxaphene CAS No: 8001-35-2		
Polychlorinated Biphenyls (PCB)		
	n any measures necessary to restrict the production and/ in accordance with the provisions of that Annex (Annex	
☐ Yes (please fill in table below ☐ No (briefly state why) ☐ Other (please specify)	v as appropriate)	
CHEMICAL	MEASURE	DATE (DD/MM/YY)
DDT (1,1,1-trichloro-2, 2-bis (4- chlorophenyl) ethane) CAS No: 50-29-3		

	1 and 2 of Article 3, has your country prohibited as	
	ary to eliminate the import of chemicals listed in Ar	mex A of the Convention?
☐ Yes (please fill in table below☐ No (briefly state why)	v as appropriate)	
☐ Other (please provide brief ex	xplanation)	
Gallet (prease provide evils) as	Ap. 14(1011019)	
CHEMICAL	LEGAL/ ADMINISTRATIVE MEASURE	DATE (DD/MM/YY)
Aldrin		
CAS No: 309-00-2		
Chlordane		
CAS No: 57-74-9	<u> </u>	
Dieldrin		
CAS No: 60-57-1		
Endrin		}
CAS No: 72-20-8		
Heptachlor		}
CAS No: 76-44-8		
Hexachlorobenzene CAS No: 118-74-1		<u>[</u>
Mirex		<del></del>
CAS No: 2385-85-5		
Toxaphene		<del></del>
CAS No: 8001-35-2		}
Polychlorinated Biphenyls		
(PCB)		1
	1 and 2 of Article 3, has your country prohibited an	
administrative measures necessa	ry to eliminate the <u>export</u> of chemicals listed in Ann	nex A of the Convention?
☐ Yes (please fill in table below	as appropriate)	
☐ No (briefly state why)		
☐ Other (please provide brief ex	planation)	
CHEMICAL	LEGAL/ ADMINISTRATIVE MEASURE	DATE (DD/MM/YY)
Aldrin		}
CAS No: 309-00-2		
Chlordane		
CAS No: 57-74-9 Dieldrin		<u> </u>
CAS No: 60-57-1		1
Endrin		
CAS No: 72-20-8		]
Heptachlor		- <del>-</del>
CAS No: 76-44-8		ł (
Hexachlorobenzene		
CAS No: 118-74-1		1
Mirex		
CAS No: 2385-85-5	· · · · · · · · · · · · · · · · · · ·	
Toxaphene		
CAS No: 8001-35-2		
Polychlorinated Biphenyls		
(PCB)		
		<del>-1</del>
		<del></del>

9. Pursuant to paragraph 2 (chemicals listed in Annex B of the	a) of Article 3, has your country taken any me Convention?	asures regarding the import of
☐ Yes (please fill in table below a☐ No (briefly state why)☐ Other (please provide brief expl		
CHEMICAL	Measure	DATE (DD/MM/YY)
DDT (1,1,1-trichloro-2, 2-bis (4-chlorophenyl) ethane) CAS No: 50-29-3	•	
10. Pursuant to paragraph 2 (left chemicals listed in Annex B of the ☐ Yes (please fill in table below as ☐ No (briefly state why) ☐ Other (please provide brief expl.)	s appropriate)	asures regarding the export of
CHEMICAL	MEASURE	DATE (DD/MM/YY)
DDT (1,1,1-trichloro-2, 2-bis (4-chlorophenyl) ethane) CAS No: 50-29-3		
SECTION III ARTICLE 4: REGISTER  11. Has your country registere	OF SPECIFIC EXEMPTIONS  ed for an exemption pursuant to Article 4?	
	and date(day/month/year) in which it was reg	ristarad)
☐ No ☐ Other (please provide brief expla	_	
SECTION IV ARTICLE 5: MEASURES	S TO REDUCE OR ELIMINATE RELEASES FROM UN	NINTENTIONAL PRODUCTION
regional or sub-regional plan, desig	e Convention, has your country developed an mode to identify, characterize and address the rementation of subparagraphs (b) to (e)?	
☐ Yes (provide date (day/month/ye☐ No (If no state why and go the no ☐ Other (please specify)		
☐ My country's above referred action of the Convention	n is yes, please tick, as appropriate, one of the on plan, was developed as part of the implementation.	entation plan called for in Article 7
☐ My country's above referred acti	on plan, is part of a regional or subregional plant	an
13. Has your country encounted  ☐ Yes (please describe)  ☐ No	ered any difficulties in the implementation of t	he above-mentioned action plan?

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SECTION V. ARTICLE 6: MEASURES TO R		
17. Pursuant to Article 6, paragraph consisting of or containing chemicals list as appropriate)	h (a) (i), has your country developed str ted in either Annex A or Annex B of th	ategies for identifying stockpiles to convention? (Please tick one box
☐ Yes, as part of the National Implemer☐ Yes, but not as part of the National In☐ No (please state why)☐ Other (please specify)	ntation Plan development process  nplementation Plan development proces	ss (please specify)
18. Pursuant to Article 6, paragraph articles in use and wastes consisting of, (please tick one box as appropriate)	h (a)(ii), has your country developed str containing or contaminated with chemi	ategies for identifying products and cals listed in Annex A, B or C?
☐ Yes, as part of the National Implemer☐ Yes, but not as part of the National In☐ No (please state why)☐ Other (please specify)	ntation Plan development process replementation Plan development proces	ss (please specify)
	/	
or containing chemicals listed in Annex purpose?  ☐ Yes (please provide brief information) ☐ No		ry identified stockpiles consisting of gies it has developed for that
☐ Other (please specify)		
CHEMICAL	QUANTITY (KG)	LOCATION / CONDITION
	Kg	
	Kg	i
	Kg	

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20. Has your country adopted any legislative or/and administrative measures to manage stockpiles in a safe efficient and environmentally sound manner?
☐ Yes ☐ No (state why) ☐ Other (please specify)
If your answer to the above question is yes, are the measures referred to above part of your implementation plan?    Yes   No (please specify and go to next section)
Has your country adopted legislative or/and administrative measures pursuant to paragraph (d) of Article 6?
☐ Yes ☐ No (state why) ☐ Other (please specify)
If your answer to the above question is yes, are the measures, referred to above, part of your implementation plan?  \( \subseteq \text{ Yes} \) \( \subseteq \text{ No (please specify and go to next section)} \)
Pursuant to Article 6, paragraph 1(e), has your country developed appropriate strategies for identifying sites contaminated by chemicals listed in Annex A, B or C of the Convention?
☐ Yes ☐ No (state why) ☐ Other (please specify)
If your answer to the above question is yes, are the strategies referred to above, part of your implementation plan?    Yes   No (please specify and go to next section)

PRODUCTION OF CHEMICALS LISTED IN AN	NEX A AND B OF THE C	ONVENTION		
Has your country produced any coelow for complete list of chemicals) for the Yes (If yes, please provide the relevant	he period covered by th	is report?		
I No		F. cp. total	,	
CHEMICAL	TOTAL ANNU.	AL PRODUCTION FOR REPO	ORTING PERIOD	
OHEMICI B	Year (Kg/yr) Year (Kg/yr)		Year (Kg / yr)	
Aldrin CAS No: 309-00-2				
Chlordane CAS No: 57-74-9	,			
Dieldrin CAS No: 60-57-1				
Endrin CAS No: 72-20-8				
Heptachlor CAS No: 76-44-8				
Hexachlorobenzene CAS No: 118-74-1				
Mirex CAS No: 2385-85-5				
Toxaphene CAS No: 8001-35-2				
Polychlorinated Biphenyls (PCB)	·			
DDT (1,1,1-trichloro-2, 2-bis (4-chlorophenyl) ethane) CAS No: 50-29-3				

#### EXPORT OF CHEMICALS LISTED IN ANNEXES A AND B OF THE CONVENTION

- 24. Has your country exported any of the chemicals listed in Annexes A and B of the Convention (see table below for complete list of chemicals)?
- $\square$  Yes (If yes, please provide relevant data, as appropriate using the table below)

□ No

	EXPORT INFORMATION	
CHEMICAL.	TOTAL ANNUAL EXPORT  (Kg/yr)	DESTINATION COUNTRIES  (To the extend practicable provide a list of the countries to which the chemical has been exported to)
Aldrin CAS No: 309-00-2		
Chlordane CAS No: 57-74-9		
Dieldrin CAS No: 60-57-1		
Endrin CAS No: 72-20-8		
Heptachlor CAS No: 76-44-8		
Hexachlorobenzene CAS No: 118-74-1		
Mirex CAS No: 2385-85-5		
Toxaphene CAS No: 8001-35-2		
Polychlorinated Biphenyls (PCB)		
DDT (1,1,1-trichloro-2, 2-bis (4- chlorophenyl) ethane) CAS No: 50-29-3		

IMPORT OF CHEMICALS LISTED IN ANN	EXES A AND B OF THE CONVENTION	
	ny of the chemicals listed in Annexes A	A and B of the Convention (see table
☐ Yes (If yes, please provide relevand ☐ No	nt data, as appropriate using the table	below).
	IMPORT INFORMATION	
CHEMICAL	Total Annual Import ( <i>Kg/yr</i> )	COUNTRY OR COUNTRIES OF ORIGIN (To the extend practicable provide a list of the countries from which the chemical has been imported)
Aldrin CAS No: 309-00-2		
Chlordane CAS No: 57-74-9		
Dieldrin CAS No: 60-57-1 Endrin		
CAS No: 72-20-8 Heptachlor		
CAS No: 76-44-8 Hexachiorobenzene		
CAS No: 118-74-1 Mirex		
CAS No: 2385-85-5 Toxaphene		
CAS No: 8001-35-2 Polychlorinated Biphenyls (PCB)		·
DDT (1,1,1-trichloro-2, 2-bis (4- chlorophenyl) ethane) CAS No: 50-29-3		
INFORMATION REGARDING CHEMICALS		
•	report* pursuant to paragraph 4 of Par	
☐ Yes If yes, when	(please provide date (day/month/year) the Secretariat)	in which the report was submitted to
OR OR		
☐ No (please state reason why it ha (* Please note that a specific format fo	is not done so) r such reports is being developed joint	ly by the Secretariat and WHO)

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SECTION VII. ARTICLE 9: INFORMATION EXCHANGE
27. Has your country established an information exchange mechanism?
☐ Yes ☐ No (state why) ☐ Other (please specify)
If your answer to the above question is yes, was the information exchange mechanism referred to above established as part of your implementation plan?  ☐ Yes ☐ No (please specify and go to next section)
28. Has your country designated a national focal point for the exchange of information pursuant Article 9 of the Convention?
☐ Yes (if contact information is different to that provided in Part A to this report please provide name and full contact details) ☐ No (Please specify why) ☐ Other (please specify)
SECTION VIII. ARTICLE 10: PUBLIC INFORMATION, AWARENESS AND EDUCATION
29. Has your country taken any measures to implement Article 10 of the Convention?
☐ Yes ☐ No (state why) ☐ Other (please specify)
If your answer to the above question is yes, are those measures part of your implementation plan?  ☐ Yes ☐ No (Please specify)
SECTION IX. ARTICLE 11: RESEARCH, DEVELOPMENT AND MONITORING
30. Has your country taken any measures to implement Article 11 of the Convention?
☐ Yes ☐ No (state why) ☐ Other (please specify)
If your answer to the above question is yes, are those measures part of your implementation plan?  ☐ Yes ☐ No (please specify)
SECTION X. ARTICLE 12: TECHNICAL ASSISTANCE
31. Has your country taken measures to provide technical assistance, pursuant to Article 12, to another Contracting Party to the Convention? (Please specify in all cases)
☐ Yes ☐ No ☐ Other If you replied yes to question 30, are those measures reflected in your implementation plan? ☐ Yes ☐ No
32. Has your country received technical assistance, pursuant to Article 12?
☐ Yes (please specif, who provided the technical assistance and what it was for) ☐ No (Please specify why, e.g., your country has not requested any, your request has been declined, etc) ☐ No my country is a developed country ☐ Other (please specify)

SECTION XI. ARTICLE 13: FINANCIAL RESOURCES AND MECHANISMS
33. Pursuant to paragraph 1 of Article 13 of the Convention, has your country taken measures to provide, within its capabilities, financial support and incentives with respect of those national activities that are intended to achieve the objectives of the Convention, in accordance with its national plan, priorities and programmes?
☐ Yes ☐ No (please specify why, and go to next section) ☐ Other (please specify)
If your answer to the above question is yes, are the measures mentioned to above, in accordance with your country's implementation plan, priorities and programmes?  Yes (please provide information)  No (please specify why)  Other (please provide information)
34. Pursuant to paragraph 2 of Article 13 of the Convention, has your country taken measures to provide new and additional financial resources to enable developing country Parties and Parties with economies in transition to meet the full incremental costs of implementing measures which fulfil their obligations under the Stockholm Convention? (Please tick one box only)
<ul> <li>Yes (please specify)</li> <li>No (please specify why)</li> <li>No my country is a developing country</li> <li>No my country is a country with an economy in transition</li> <li>Other (please provide information)</li> </ul>
35. Pursuant to paragraph 3 of Article 13 of the Stockholm Convention, has your country provided financial resources to assist developing country Parties and/or Parties with economies in transition in the implementation of the Convention through other bilateral, regional and multilateral sources or channels?
(Please tick one box only)
<ul> <li>□ Yes (please specify)</li> <li>□ No (please specify why)</li> <li>□ No my country is a developing country</li> <li>□ No my country is a country with an economy in transition</li> <li>□ Other (please provide information)</li> </ul>
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SECTION XII. OTHER INFORMATION
36. Did you find this questionnaire user friendly?
☐ Yes ☐ No (If No, state why)
$\cdot$
37. Please provide, comments, suggestions and recommendations regarding ways to improve the
questionnaire, if any.

## Annex 2

The identification of subcategories of PCDD/PCDF emission sources

#### 1 Main Category 1 - Waste Incineration

Relevance to Article 5, Annex C 42

- 1.1 Municipal Solid Waste
- 1.2 Hazardous Waste Incineration
- 1.3 Medical Waste Incineration
- 1.4 Light-Fraction Shredder Waste Incineration
- 1.5 Sewage Sludge Incineration
- 1.6 Waste Wood and Waste Biomass Incineration
- 1.7 Destruction of Animal Carcasses

#### 2 Main Category 2 – Ferrous and Non-Ferrous Metal Production

Relevance to Article 5, Annex C 62

- 2.1 Iron Ore Sintering
- 2.2 Coke Production
- 2.3 Iron and Steel Production Plants
- 2.4 Copper Production
- 2.5 Aluminum Production
- 2.6 Lead Production
- 2.7 Zinc Production
- 2.8 Brass and Bronze Production
- 2.9 Magnesium Production
- 2.10 Other Non-Ferrous Metal Production
- 2.11 Shredders
- 2.12 Thermal Wire Reclamation

#### 3 Main Category 3 – Heat and Power Generation

Relevance to Article 5, Annex C 95

- 3.1 Fossil Fuel Power Plants
- 3.2 Biomass Power Plants
- 3.3 Landfill/Biogas Combustion
- 3.4 Household Heating and Cooking with Biomass
- 3.5 Domestic Heating and Cooking with Fossil Fuels

#### 4 Main Category 4 – Mineral Products

Relevance to Article 5, Annex C

- 4.1 Cement Production
- 4.2 Lime Production
- 4.3 Brick Production
- 4.4 Glass Production
- 4.5 Ceramics Production
- 4.6 Asphalt Mixing
- 4.7 Oil Shale Processing

#### 5 Main Category 5 - Transport

Relevance to Article 5, Annex C

- 5.1 4-Stroke Engines
- 5.2 2-Stroke Engines
- 5.3 Diesel Engines
- 5.4 Heavy Oil Fired Engines

#### 6 Main Category 6 - Open Burning Processes

Relevance to Article 5, Annex C

- 6.1 Biomass Burning
- 6.2 Waste Burning and Accidental Fires

# 7 Main Category 7 – Production and Use of Chemicals and Consumer Goods

Relevance to Article 5, Annex C

- 7.1 Pulp and Paper Production
- 7.2 Chemical Industry
- 7.3 Petroleum Industry
- 7.4 Textile Production
- 7.5 Leather Refining

#### 8 Main Category 8 - Miscellaneous

Relevance to Article 5, Annex C

- 8.1 Drying of Biomass
- 8.2 Crematoria
- 8.3 Smoke Houses
- 8.4 Dry Cleaning
- 8.5 Tobacco Smoking

#### 9 Main Category 9 - Disposal/Landfill

Relevance to Article 5, Annex C 3

- 9.1 Landfills and Waste Dumps
- 9.2 Sewage and Sewage Treatment 5
- 9.3 Open Water Dumping
- 9.4 Composting
- 9.5 Waste Oil Treatment (Non-Thermal)

#### 10 Main Category 10 - Hot Spots 181

10.1 Production Sites of Chlorinated Organics

- 10.2 Production Sites of Chlorine
- 10.3 Formulation Sites of Chlorinated Phenols
- 10.4 Application Sites of Chlorinated Phenols
- 10.5 Timber Manufacture and Treatment Sites
- 10.6 PCB-Filled Transformers and Capacitors
- 10.7 Dumps of Wastes/Residues from Categories 1-9
- 10.8 Sites of Relevant Accidents
- 10.9 Dredging of Sediments
- 10.10 Kaolinitic or Ball Clay Sites

## Annex 3

# UNEP questionnaire for identifying worldwide laboratories able to perform POP analyses



## POPs Global Monitoring Programme



## Questionnaire on Laboratories

Please fill in as appropriate or attach relevant information

### 1. General Information

Co-ordinates						<u>- :                                   </u>			
Name of lab.									
Head of lab.									
Address									
City		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
State									
Country									
Post code									
Telephone									
Fax									
E-mail		<del></del>							
Website									
Contact									
person									
Affiliations									
Public		Private 🗌		Government 🗌	-	Academia 🗌			
		<del>_</del>				_			
Others (please describe):									
2. Resource Information									
at Albornia and Andrewson									
Human Resou	Human Resources (indicate in terms of number of full-time staff, professionals,								
general services staff, technical services staff, their background and qualifications,									
degrees etc.)	otarr,	teenmear service	.S Judi	i, anon odekenound	and	quantionis,			
Numbers	<25		26-	50	>5	1			
	-23								
Full Time Staff					L				
Professionals									
General						:			
Services Staff						_			
Qualifications									

Organisation (describe in terms of structure; add organizational chart,
departments/divisions etc.)
Equipment (describe analytical equipment, e.g. GC/MS; technical equipment, e.g.
centrifuges, other laboratory apparatus, mechanical equipment, e.g. gas supplies,
computer equipment, library services, Internet access etc.)
tempater equipment, normy services, internet access etc.)
Housing (describe in towns of a statel area to be set on the set of the the set o
Housing (describe in terms of e.g. total area, laboratory area, ventilation system, air
conditioning, temperature and humidity control, lighting, monitoring of ambient air
conditions etc.)
3. Analytical Information
Substances Measured (list the POPs analytes measured including the PCB and
PCDD/F congeners, in which matrices e.g. soil, sediments, fish, milk, state number of
analyses performed per year per analyte, other organic pollutants measured etc.)

Methods (describe briefly the methods applied and give references)	)
QA/AC-Procedures (please give details, also include any internati	ional inton
	ionai mier-
calibrations in which you have participated)	- <del></del>
• • •	
Data storage facilities (indicate where and how data is stored)	
3	
Publications in the last five years (indicate where not peer-reviewe	·d)
1 to street to the last 11 to just a last 11 to just	
•	