WORLD HEALTH ORGANIZATION
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ORGANISATION MONDIALE DE LA SANTÉ
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ВСЕМИРНАЯ ОРГАНИЗАЦИЯ ЗДРАВООХРАНЕНИЯ
ЕВРОПЕЙСКОЕ РЕГИОНАЛЬНОЕ БЮРО

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Report on the Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe[1]

Geneva, 20 November 1989

1. Introduction and participation

The Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, convened by the WHO Regional Office for Europe, took place at the Palais des Nations, Geneva, Switzerland, on 20 November 1989[2].

It was attended by representatives of the following international and intergovernmental organizations: Commission of the European Communities (CEC), Food and Agriculture Organization of the United Nations (FAO), International Atomic Energy Agency (IAEA), International Institute for Applied Systems Analysis (IIASA), International Maritime Organization (IMO), International Union of Forestry Research Organizations (IUFRO), International Organization for Standardization (ISO), United Nations Development Programme (UNDP), United Nations Economic Commission for Europe (UNECE), United Nations Environment Programme (UNEP), World Meteorological Organization (WMO), World Health Organization Headquarters (WHO/HQ) and the World Health Organization Regional Office for Europe (WHO/EURO).

The Secretariats of the Baltic Marine Environment Protection Commission (HELCOM), Council for Mutual Economic Assistance (CMEA), Council of Europe (CE), International Civil Aviation Organization (ICAO), International Labour Organization (ILO), International Union for the Conservation of Nature and Natural Resources (IUCN), Organisation for Economic Co-operation and Development (OECD), United Nations Educational, Scientific and Cultural Organization (UNESCO) and the United Nations Industrial Development Organization (UNIDO) were also invited, but were unable to attend.

A list of participants is given in Annex 1.

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1 This report has been issued in English only, for the internal use of the participating Secretariats.

2 The first eight meetings were held in Geneva, on 12 January 1976, 9 July 1978, 16 January 1979, 1 May 1980, 11 September 1981, 23 September 1982, and 24 September 1984, respectively. The eighth meeting took place in Helsinki on 5 July 1985. The ninth, tenth and eleventh meetings were again held in Geneva on 10 November 1986, 16 November 1987 and 29 November 1988.

2. Opening of the meeting, scope and purpose and invitations

The meeting was opened by Mr Colin Macfarlane, WHO/EURO, who welcomed the participants on behalf of WHO. The participants elected Dr Rumen D. Bojkov, WMO, to act as Chairman of the meeting. Mr Macfarlane acted as Rapporteur. The provisional agenda (Annex 2) was presented to the meeting and accepted, with minor changes.

Mr Macfarlane presented the scope and purpose of the meeting (Annex 3), reviewed the preparations, and summarized the responses of the invited organizations.

3. Exchange of information

The participants exchanged information on projects completed and documentation published, and discussed in greater detail some of their important ongoing activities. The calendars of future meetings were compared. Annex 4 provides a summary of the various programmes.

While the delegates have submitted details of programmes of work that will be of common interest, each delegate also gave a verbal account. Some are of special interest.

Dr W. Ballensweiler, IUFRO. Approximately 15 000 scientists are involved in trying to determine the effects of acid deposition on forests in Europe. The certainty that the decline in forests was largely due to acid deposition has given way to a much more cautious view. There is now a tendency to try to separate more accurately the effects of natural decline, the results of infestation and disease and changes due to acid deposition. A difficulty is the possibility that these three causes of damage are interlinked and separation may be difficult. The monitoring of forest crown density continues but interpretation of results requires much greater insight than was applied in the past. There is a belief that soils of the forest floor may be the medium that really requires more attention. The effects of soil changes on growth may be, in the long run, most important but the changes may be elusive and difficult to detect. An important meeting of forest scientists will be held in Montreal in 1990 to investigate this question in some depth.

Dr Ballensweiler was asked if any of the biological methods of detecting airborne contamination, such as mossbags, were sufficiently well developed and inexpensive to be used for air quality monitoring in less prosperous countries.

A working group is investigating air quality guidelines associated with phytotoxicological effects.

Mr Prins, FAO/ECE Joint Agriculture and Timber Division recounted the present work of using satellite imagery for the determination of changes in vegetation spices in forests' crown cover.

Ms Merle Opeiz, IAEA, distributed a paper on sustainable development. The role of nuclear power is now being re-evaluated due largely to the concern raised by the discharges of carbon dioxide and oxides of sulfur and nitrogen from fossil fuelled energy sources.

An accelerated safety programme has also been undertaken since the Chernobyl incident. This deals with levels at which protective action will be taken by neighbouring states. The WMO is deeply involved as the associated manual ust contain strong elements of meteorology to deal with transport and fate of emitted radio-nuclides.

Nevertheless, radon and its daughter products remain a matter of concern due to widespread natural occurrences and the total delivered dose of ionising radiation to humans.

Mr Bin Okamura, IMO (represented for first time). A meeting of maritime interests will be convened in November 1990 to discuss air pollution in the marine environment. The thrust will be largely associated with airborne contamination associated with ships. Discussion of the sensitive environment of the Baltic, Mediterranean and North Sea ensued.

Mr S. Ozolins, WHO headquarters. Described improvements to the GEMS monitoring and reporting systems that are planned. He described some of the work on exposures to oxides of nitrogen and respirable suspended particulate matter.

He also described prospective tasks of defining air quality conditions in Ankara, Mexico City and, possibly, a Chinese city (Bejing or Shenyang) where there is some reason to believe that public health may occasionally be at substantial risk. Discussions between WHO and the World Bank are proceeding on these tasks.

Dr Rumen Bojkov, WMO, gave an in-depth analysis of the mechanisms involved in transboundary flows of airborne contamination in Europe and an account of recent experiences in episodic seasonal smog conditions. He went on to deal with present concerns with ozone depletion and the greenhouse effect. The relative efficiences and roles of carbon dioxide, methane and CFCs were discussed and the prospects and strategies for abatement prompted consideration of the roles of nuclear energy; carbon dioxide and sulfur oxides trade-off between nations; slash and burn forest clearance in developing nations; methane discharges associated with paddy rice production; acid deposition and the linkages existing between these apparently disparate elements of air quality management.

Mr Peter Sand, UN/ECE reminded the meeting of the meeting of the Executive Body for the Convention on Long-Range Transboundary Air Pollution, Geneva, 21-24 November 1989. Some of the delegates will attend this meeting as IGO representatives. He also reminded WHO/EURO of obligations to provide the EB's Working Group on Health effects with assistance in defining the effects of a number of airborne substances.

4. Other business

There being no further business the meeting was adjourned at 16.00.

5. Next meeting

The 13th Annual meeting was set for 16 November 1990.

ANNEX 1

LIST OF PARTICIPANTS

Organization	Represented by
Commission of the European Communities 200, rue de la Loi 1049 Brussels Belgium	Mr H. Peter Stief-Tauch Head, Air Pollution Section Directorate-General XI for the Environment, Consumer Protection and Nuclear Safety
Food and Agriculture Organization of the United Nations Via delle Terme di Caracalla 00100 Rome Italy	Mr C. Prins FAO/ECE Joint Agriculture and Timber Division Palais des Nations 1211 Geneva 10 Switzerland
International Institute for Applied Systems Analysis 2361 Schloss Laxemburg Austria	Dr Rod W. Shaw Leaderer, Acid Rain Project Environment Program
International Atomic Energy Agency P.O. Box 100 1400 Vienna Austria	Ms Merle S. Opelz Head (Room E-426) Palais des Nations 1211 Geneva 10 Switzerland
International Maritime Organization 4 Albert Embankment London SE1 7SR United Kingdom	Mr Bin Okamura Head, Environment Project Section Marine Environment Division
International Organization for Standardization Post Box 56 1211 Geneva 20 Switzerland	Mr Klaus Lehmann Secretariat of ISO/TC 146 DIN Deutsches Institut für Normung Burggrafenstrasse 6 Postfach 1107 D-1000 Berlin 30
International Union for Forestry Research Organization 1121 Vienna Austria	Mr Werner Baltensweiler ETH Zurich/CLS 7092 Zurich Switzerland
United Nations Development Programme One U.N. Plaza New York, N.Y. 10017 USA	Mr Lars Hyttinen Palais des Nations 1211 Geneva 10 Switzerland
United Nations Economic Commission for Europe Palais des Nations 1211 Geneva 10 Switzerland	Dr Peter H. Sand, Chief and Mr Jan Habrovsky Air Pollution Section, Environment and Human Settlements Division

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Dr Rumen D. Bojkov
Chief, Environment Division

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Mr G. Ozolins
Manager
Prevention of Environmental Pollution
Division of Environmental Health

Mr Colin J. Macfarlane
Consultant
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ANNEX 2

AGENDA

1. Opening of the meeting at 9.00 sharp*

2. Election of Chairman

3. Adoption of agenda and introduction of participants

4. Presentation of the scope and purpose of the meeting

5. Exchange of information on:

   a) publications and/or documents published (including progress reports)

   b) projects completed and those in progress

   c) comparison of calendar of meetings for 1988-90

6. Discussion on documentation to be presented in the future

7. Group discussion at 15.00 on Climate Changes, touching on the questions of the ozone layer depletion and the increase in global temperature

8. Any other business (such as technical subject discussion, invitations to new organizations, etc.)

9. Date and place of next Intersecretariat Meeting

10. Closure

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* The opening time of 9.00 has been set in accordance with a special decision of the Eleventh Intersecretariat Meeting in 1988, to enable a group discussion at 15.00 (item 7). Consequently, participants are strongly requested to arrive on time.

ANNEX 3

SCOPE AND PURPOSE

The Scope and Purpose of the Intersecretariat meetings, reformulated during the sixth session in 1982, states:

The Scope and Purpose of the meetings of the Intersecretariat on air pollution problems in Europe is to exchange information and provide details on completed, ongoing, and planned project activities, reports published, and meetings scheduled for the forthcoming year or so, with the intention to strengthen coordination and lead, if possible and when appropriate, to close cooperation on specific activities between the organizations concerned.

Toward this end, participants are expected to review at the meetings the work of their organizations in relation to the European situation, as well as provide information on any activity outside this Region which may reflect on European problems.

ANNEX 4

STATEMENTS SUBMITTED BY THE SECRETARIATS

1.	HELCOM	Baltic Marine Environment Protection Commission
2.	CEC	Commission of the European Communities
3.	FAO	Food and Agriculture Organization of the United Nations
4.	IAEA	International Atomic Energy Agency
5.	IIASA	International Institute for Applied Systems Analysis
6.	IUFRO	International Union of Forestry Research Organizations
7.	ISO	International Organization for Standardization
8.	UN/ECE	United Nations Economic Commission for Europe
9.	UNEP	United Nations Environment Programme
10.	WMO	World Meteorological Organization
11.	WHO/HQ	World Health Organization Headquarters
12.	WHO/EURO	World Health Organization Regional Office for Europe

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Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

ANNEX I

FORMAT FOR STATEMENT OF ACTIVITIES

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: Baltic Marine Environment Protection Commission - Helsinki Commission

	Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
1.	Deposition of Airborne Pollutants in the Baltic Sea Area, 1983-1985 and 1986	Baltic Sea Environment Proceedings, 1989 (in print)	Compiled by Experts of Lead Country for the Project, Sweden, on the basis of data provided by all Baltic Sea States		

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: Baltic Marine Environment Protection Commission - Helsinki Commission

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	Intercomparisons and Intercalibrations:							
	- outcome of the First and Second Stage of Intercalibration to be edited for publishing	Workshops and Lead Country	to be finalized by the end of 1989		January 1990		Publication in the Baltic Sea Environment Proceedings	

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FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS BEING PLANNED

Organization: Baltic Marine Environment Protection Commission - Helsinki Commission

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	1. Intercalibration on trace metals (Hg)	Lead Country Sweden to conduct the exercise	Plans for 1990					
	2. Collecting, compiling and evaluating the total pollution load transferred by air to the Baltic Sea (1986-1990)	Experts of the Baltic Sea States and co-operation with ECE/ EMEP centres	Initiated 1989		1991	ECE		

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FORMAT AND STATEMENT OF ACTIVITIES

LIST OF FUTURE MEETINGS (including regular sessions of sponsoring body)

Organization: Baltic Marine Environment Protection Commission - Helsinki Commission

Date	Place	Title of Meeting	Remarks
1. 23-27 April 1990	Helsinki	Seventh Meeting of the Group of Experts on Airborne Pollution of the Baltic Sea Area (EGAP)	
2. spring 1990	Helsinki	Second Meeting of the *ad hoc* Working Group on Air Pollution from Ships (MC AIR)	

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TWELFTH INTERSECRETARIAT MEETING ON AIR POLLUTION PROBLEMS IN EUROPE, GENEVA, 20 NOVEMBER 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX 1

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: Commission of the European Communities

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Reduction of air pollution from large combustion installations (> 50MW)	Official Journal L336 of 7.12.1988 Directive 88/609/EEC	Directive		
Amendment of Directive 70/220/EEC (gaseous emission standards for motor vehicles with engines <1,4 l)	Official Journal L226 of 3.8.1989 Directive 89/458/EEC	Directive		
Reduction of air pollution from * new municipal waste plants * existing municipal waste plants	Official Journals L163 of 14.6.1989 Dir. 89/369/EEC L203 of 15.7.1989 Dir. 89/429/EEC	Directives		
Greenhouse effect	Official Journal L183 of 20.7.1989 Resolution of 20.6.1989	Resolution		
Modification of Directive 80/779/EEC (air quality standards for SO_2 and SPM)	Official Journal L201 of 14.7.1989 Directive 89/427/EEC	Directive		

PROJECTS UNDER EXECUTION

Organization: Commission of the European Communities

Sponsoring body (If applicable)	Title of Project	Method of Implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected results	Remarks
	Reduction of air pollution from small coal combustion plants (<50 MW)	Directive proposal	In preparation	1988	1990		Comunity legislation	
	Directive 84/360/EEC (Industrial plants) establishment of Best Available Technology for selected industry sectors	Study	In preparation	1988	1990		Implementation of existing Community legislation	
	Modification of Directive 88/77/EEC in order to introduce particulate standards for diesel powered heavy commercial vehicles	Directive proposal	In preparation	1989	1990		Community legislation	
	Evaporative emission control of passenger cars and gasoline distribution system	Directive proposal	In discussion in the Commission's services	1987	1989/90		Community legislation	
	Modification of European driving cycle (Additions of an extra urban section)	Directive proposal	ongoing	1985	1989		Community legislation	
	Greenhouse effect (international aspects)	Cooperation	ongoing	1988	1991	UNEP + WMO	World-wide strategies to combat climate changes	
	Further limitation of lead content in petrol (possibly also Benzene content)	Directive proposal	In preparation	1988	1990/91		Modified Directive	
	Photochemical oxydants control	Working groups	gouvernamental experts meetings	1989	1991		Directive proposals	
	Air quality objectives for O_3	Directive	in preparation	1989	1990		Directive proposals	

PROJECTS UNDER EXECUTION

Organization: Commission of the European Communities

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected results	Remarks
	VOC reduction from major source categories (starting with use of solvents)	Preparative studies	ongoing	1987	1990/91		Directive proposals	
	Indoor pollution	Information leaflet	in preparation	1988	1990			
	S in gas oils	Report	in preparation	1990	1990		Implementation of EEC-legislation	
	CORINE * emissions inventory 1985 * ambient air pollution levels	 Study Study	 in finalization ongoing	 1987 1988	 1989 1990	 OECD	 Uniform data bases for Western Europe	
	Asbestos - Comparison measurement programme	Study	ongoing	1988	1991		Implementation of Community legislation	

PROJECTS BEING PLANNED

Organization: Commission of the European Communities

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected results	Remarks
	Reduction of air pollution from incineration and disposal of toxic and dangerous wastes	Study	preliminary studies	1990	1991		Directive proposal	
	Reduction of air pollutants emissions from cement manufacturing	Study	in preparation	1986	1989		(Implementation EEC-)legislation establish (BAT - 84/360/EEC	
	Reduction of air pollutants emissions from chemical industry	Study	in preparation	1986	1989			

LIST OF FUTURE MEETINGS (including regular sessions of sponsoring body) in 1989 - 1990

Organization: Commission of the European Communities

Date	Place	Title of Meeting	Remarks

联合国粮食及农业组织
FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE
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FORMAT FOR STATEMENT OF ACTIVITIES

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: 1. FAO European Forestry Commission
2. UN/ECE Timber Committee

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
1. European Forestry Commission				
Ad hoc Working Group "Impact of air pollution on forests"	FO:EFC/89/11 and supplement Rome, March 1989	Report to EFC 24th session, including notably suggested methodologies for harmonizing asessment of increment changes		
2. Timber Committee				
Forest decline in Europe attributed to air pollutants (data to 1987)	ECE/TIM/46 New York, 1989	Consultant report		
Report of team of specialists on the implications of air pollution damage to forests for roundwood supply and forest products markets	TIM/R.169 and Add.1 Geneva, June/ September 1989	Endorsed by Timber Committee October 1989		
Forest decline in Europe attributed to air pollutants in 1988	To be issued in early 1990 as ECE/TIM/50	Consultant report		
Report of the second ad hoc meeting of experts on the practical application of satellite sensing for forest damage assessment	TIM/R.170 and Add.1 Geneva, October 1989			

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FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: 1. FAO European Forestry Commission
2. UN/ECE Timber Committee

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
1. European Forestry Commission								
	Protection of forests from air pollution	Ad hoc Working Group	Continuing					Next meeting to finalise harmonised methods of increment assessment
2. Timber Committee								
	Implication of air pollution and other damage to forests for wood supply and markets	Team of specialists	Continuing					The working group and the team will hold a joint meeting

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FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS BEING PLANNED

Organization: 1. FAO European Forestry Commission
2. UN/ECE Timber Committee

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	Continuation of existing activities							

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FORMAT AND STATEMENT OF ACTIVITIES

LIST OF FUTURE MEETINGS (including regular sessions of sponsoring body)

Organization: 1. FAO European Forestry Commission
2. UN/ECE Timber Committee

Date	Place	Title of Meeting	Remarks
European Forestry Commission (EFC)			
3-7.6.1991	Oslo	25th session of the EFC.	
Not decided	Bonn	Meeting of the Ad hoc Working Group "Impact of Air Pollution on Forests".	
Timber Committee			
8-12.10.1990	Geneva	48th session of Timber Committee.	
Not decided	(Bonn?)	Meeting of team of specialists on implications of air pollution and other damage to forests for wood supply and markets.	
May 1990	Poland	Third ad hoc meeting of experts on the practical application of satellite sensing for forest damage assessment.	

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Statement for the twelfth intersecretariat meeting
on air pollution problems in Europe, Geneva,
20 November 1989

Ad hoc working group "Impact of air pollution on forests" of the FAO European Forestry Commission

An expert panel, under the auspices of the working group prepared draft guidelines for harmonized assessment of increment changes. These guidelines are now the subject of a consultation procedure and will be finalized, probably in 1990. The working group will then decide on future activities (effects of pollution on forest soils is a suggested topic) as well as on co-ordination of work with the Timber Committee team.

Team of specialists on the implications of air pollution and other damage to forests for wood supply and markets, of the ECE Timber Committee

The team, in September 1989, reviewed roundwood markets and noted that there had been no widespread disruption. A consultant report on the damage situation to 1988 was prepared and reviewed and will be issued. The team will discuss the direction of future work, and co-operation with the EFC working group at a joint meeting in 1990.

Ad hoc meeting of experts on the practical application of satellite sensing for forest damage assessment (Joint EFC/Timber Committee activity)

The experts met in 1989 and will meet again in 1990 to finalise proposals regarding the establishment of a network of test areas to develop the use of satellite imagery for forest damage assessment.

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Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: International Atomic Energy Agency (IAEA)

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
The International Atomic Energy Agency's Contribution to Sustainable Development: Nuclear Energy and the Environment	May 1989	Secretariat document forwarded by Board of Governors to UNEP's Governing Council and the UN General Assembly		
Safety Series No 100: Evaluating the Reliability of Preductions Made Using Environmental Transfer Models	STI/PUB/835 November 1989	Consultants, Advisory Group		
Technical Reports Series No. 302: Treatment of Off-Gas from Radioactive Waste Incinerators	STI/DOC/10/302 November 1989	Consultants		
Symposium on Environmental Contamination Following a Major Nuclear Accident 16-20 October 1989	Proceedings in 1990	Scientific Symposium	FAO, UNEP, WHO	

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FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: International Atomic Energy Agency (IAEA)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	Safety Series: Principles for the Alleviation of Radiation Exposure of the Public in Situations where the Source of Exposure Cannot be Regulated		On-going		1991	WHO		
	Safety Series: Revision of Safety Series No. 72 and 81 on Derived Intervention Levels for Application in Controlling Radiation Doses to the Public in the Event of a Nuclear Accident or Radiological Emergency		Near completion		1990	WHO, FAO		
	Technical document giving guidance on the application of Agency models for individual and collective dose assessment to specific environmental problems		Preparatory work		1991			
	Safety Guide on off-site radiological monitoring following a nuclear accident		On-going		1990			
	Establishment of a data base for the validation of radionuclide transport modes		On-going		1990	WMO		

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FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: IAEA (cont'd)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	Co-ordinated research programme on validation of models for the transfer of radionuclides in the terrestrial, aquatic and urban environments		On-going		1990	WMO		
	Maintenance of environmental monitoring data base for use in assessing, a posteriori, the radiological impact of a severe nuclear accident		Continuing					
	Technical document and supporting computer code for assessing the results of environmental measurements		On-going		1990			

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

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Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX 1

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: International Institute for Applied Systems Analysis

Title and project or document		Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Transboundary Air Pollution Project (formerly Acid Rain Project)					
1.16	R.W. Shaw. Author's reply on "Towards a targetted emission reduction in Europe".	Atmospheric Environment, 22 (7):1509-1511, 1988.			
1.17	B. Lübkert. Characteristics of the Mid-January 1985 SO_2 Smog Episode in Central Europe - Report from an International Workshop.	Atmospheric Environment, 23 (3):611-623, 1989.			
2.5	J. Alcamo and J. Bartnicki. LRT air pollutant modeling and policy analysis: large vs. small models.	Systems Analysis Modeling Simulation. Journal of Mathematical Modelling and Simulation in Systems Analysis, 5(6):511-518, 1988			
2.15	S.A. Batterman. Influential receptors in target emission control strategies.	Systems Analysis Modeling Simulation. Journal of Mathematical Modelling and Simulation in Systems Analysis, 5(6):519-532, 1988.			

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C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

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ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: International Institute for Applied Systems Analysis

	Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Transboundary Air Pollution Project (contd..)					
2.19	B. Lübkert, R. Derwent, J. Alcamo and J. Bartnicki. The effects of selected NO_x reduction scenarios on long-term N deposition and episodic O_3 levels in Europe.	Environmental Pollution, 58:237-254, 1989.			
2.20	J. Alcamo and J. Bartnicki. Atmospheric models and acidification.	Journal of Water, Air and Soil Pollution 40:1-7, 1988. Also IIASA Research Report RR-89-3.			
2.21	J. Alcamo and J. Bartnicki. Atmospheric computations to assess acidification in Europe.	Special Issue of Journal of Water, Air and Soil Pollution, Vol. 40, 1988. Also IIASA Research Report (forthcoming).			
2.22	J. Bartnicki. A simple filtering procedure for removing negative values from numerical solutions of the advection equation.	Environmental Software, 1989(forthcoming).			
2.23	J. Alcamo and J. Bartnicki. The uncertainty of atmospheric source-receptor relationships in Europe.	Atmospheric Environment (forthcoming).			

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C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

ANNEX I

FORMAT FOR STATEMENT OF ACTIVITIES

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: International Institute for Applied Systems Analysis

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Transboundary Air Pollution Project (contd...)				
2.24 J. Bartnicki and J. Alcamo. Calculating nitrogen deposition in Europe.	Journal of Water, Air and Soil Pollution (forthcoming).			
3.8 A. Mäkelä. A regional model for risk to forests by direct impacts of sulfur.	Systems Analysis Modelling Simulation. Journal of Mathematical Modelling and Simulation in Systems Analysis, 6:439-450, 1989.			
3.14 A.-M. Metz. Economic effects of forests decline due to air pollution. Study of the literature concerning methods and results.	IIASA Working Paper WP-88-100, 1988.			
3.15 W. Ivens. Atmospheric deposition of sulfur and base cations to European forests.	IIASA Working Paper WP-88-101, 1988.			
3.16 R. Ojansuu. A regional model for general stress resistance of Norway spruce stands.	IIASA Working Paper WP-89-022, 1989.			

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Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: International Institute for Applied Systems Analysis

	Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Transboundary Air Pollution Project (contd ...)					
3.17	B. Lübkert. A model to calculate natural VOC emissions from forests in Europe.	IIASA Working Paper (forthcoming) 1989.			
4.9	R.H. Gardner, J.-P. Hettelingh, J. Kämäri and S.M. Bartell. Estimating the reliability of regional predictions of aquatic effects of acid deposition.	Environmental Impact Models to Assess Regional Acidification (J. Kämäri, editor). Reidel Publishing Co. 1988.			
4.10	J.-P. Hettelingh, R.H. Gardner, K.A. Rose and A.L. Brenkert. Broad scale effects of sulfur deposition: a response surface analysis of a complex model.	Models to describe the geographic extent and time evolution of acidification and air pollution damage(J. Kämäri, editor). Proceedings, Aulanko, Finland, July 5-8, 1988.			
4.11	M. Forsius. Comparison of RAINS Lake module with MAGIC model simulations and paleolimnological records.	IIASA Working Paper WP-89-12, 1989.			

contd... page 5

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: International Institute for Applied Systems Analysis

	Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
5.5	M. Posch, L. Kauppi and J. Kämäri. Sensitivity analysis of a regional scale soil acidification model.	Systems Analysis Modelling Simulation. Journal of Mathematical Modelling and Simulation in Systems Analysis, 6:451-473, 1989.			
7.1	S. Batterman, M. Amann, J.-P. Hettelingh, L. Hordijk and G. Kornai. Optimal SO_2 abatement policies in Europe: some examples.	Systems Analysis Modelling Simulation. Journal of Mathematical Modelling and Simulation in Systems Analysis, 5(6):533-559, 1988.			
7.9	M. Amann. Environmental impacts of different European energy strategies.	Presented at the IIASA/CVTU Workshop "Socioeconomic Impacts of Regional Integrated Systems" held in Prague, CSSR on 10-12 October 1988, organized jointly by the Technical University of Prague (CVTU) and IIASA.			
7.10	R.W. Shaw. Using an integrated assessment model for decision-making in transboundary air pollution in Europe.	Accepted in the Proceedings of the 8th World Clean Air Congress, the Hague, 11-15 September 1989. Elsevier Sciences Publishers.			
7.11	R.W. Shaw, J. Alcamo, M. Chadwick & L. Hordijk. Integrated assessment models for developing strategies for reducing regional acidification.	Proceedings of Air Pollution in Europe: Environmental Effects, Control Strategies and Policy Options. Stockholm, 26-30 September 1988.			

contd... page 6

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Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: International Institute for Applied Systems Analysis

	Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Transboundary Air Pollution Project (contd. ...)					
7.12	R.W. Shaw and M. Amann. Effect of uncertainty in source-receptor relationships on transboundary air pollution control strategies.	Proceedings of Riso International Conference on "Environmental Models: Emissions and Consequences", 22-25 May, Elsevier Science Publishers, 1989.			
7.13	TAP Group. Estimated effects on deposition in Europe of presently committed SO_x and NO_x emission reductions.	Working paper submitted to the Working Group on Abatement Strategies, Executive Body for the Convention on Long-Range Transboundary Air Pollution, UN-ECE, Geneva, Switzerland, June, 1989.			
7.14	B. Lübkert, S. Beatson, P. Lübkert and S. de Tilly. The OECD MAP emission inventory and ongoing international cooperation.	Proceedings (ed. M. Amann) "Accuracy of Emission Inventories", IIASA/NILU Task Force Meeting held in Laxenburg, Austria, 8-10 March 1988 (forthcoming).			
7.15	B. Lübkert and S. de Tilly. The OECD-MAP emission inventory for SO_2, NO_x and VOC's in Western Europe.	Atmospheric Environment 23(1):3-15, 1989.			
7.16	B. Lübkert. Summary of EURASAP International workshop on Methodologies of Air Pollution Emission Inventories-- 29 June-2 July 1987.	Atmospheric Environment 23(1):1-2, 1989.			

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C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

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FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: International Institute for Applied Systems Analysis

	Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Transboundary Air Pollution Project (contd. ...)					
7.17	B. Lübkert and K.-H. Zierock. European emission inventories - a proposal of international worksharing.	Atmospheric Environment 23(1):37-48, 1989.			
7.18	Ralph Lehmann. On surprising properties of linear programming models for acid rain abatement.	European Journal of Operational Research (forthcoming), 1989.			
7.19	Ralph Lehmann. Uncertainty analysis for a linear programming model for acid rain abatement.	Atmospheric Environment, 1989 (forthcoming).			
8.1	R.W. Shaw and B.R. Döös. A proposed analytical tool to develop strategies to delay climate change.	Paper presented at the Intergovernmental Panel on Climate Change (IPCC) Expert Group Meeting on "Methodologies and Analytical Tools" held at the International Energy Agency, Paris, France, 10-11 April 1989.			

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: International Institute for Applied Systems Analysis

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
1. Netherlands Government	Completion of RAINS model.		Ongoing	1 Jan. 1984	31 Dec. 1990	ECE	Completed RAINS model.	
2. - do -	Study of Chemical Pollution in Dutch Estuaries.		Ongoing	1 Aug. 1989	April 1992		Model of heavy metal flow into Dutch River basins.	
3.	Revision of model for transboundary flow of heavy metals.		Ongoing	1 Jan. 1988	30 April 1990		Source-receptor matrices for heavy metals in Europe.	
4.	Development of Environmental Data Base system.		Ongoing	1 Jan. 1989	30 June 1990		User-friendly system for storing and displaying environmental data.	

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

PROJECTS BEING PLANNED

Organization: International Institute for Applied Systems Analysis

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
?	Revision of Analytical Tool for Strategies to Delay Climate Change		Planning stage	1 Jan 1990	?		Analytical tool.	

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

LIST OF ~~FUTURE~~ MEETINGS (including regular sessions of sponsoring body)

Organization: International Institute for Applied Systems Analysis

Date	Place	Title of Meeting	Remarks
3-4 April 1989	IIASA	Mapping of Critical Loads Task Force meeting.	Organized by the Transboundary Air Pollution Project to prepare for a UN-ECE workshop on the Mapping of Critical Loads to be held in Bad Harzburg, FRG, in November 1989.
20-21 November 1989	IIASA	Chemical Pollution and its Sources in the Basins of the Rhine, Meuse and Scheldt Working Session I, IIASA/RIVM Study.	Organized by the Transboundary Air Pollution Project.

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

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IUFRO

INTERNATIONAL UNION OF FORESTRY
RESEARCH ORGANIZATIONS

Task Force 'Forest Decline-Atmospheric Pollution'

ETH, Institute of Plant Sciences, Division Phytomedicine
ETH-Zentrum/CLS, CH-8092 Zürich, Switzerland
Telephone +41 1 256 39 25/ Fax 01 252 01 92

Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: International Union of Forestry Research Organizations (IUFRO)

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Economic Assessment of the Damage caused to Forests by Air Pollutants Symposium Sept. 13-19, 1988 in Gmunden/A	Jöbstl, H.A.,ed. (1989) Ber.Abt. Rechnungswesen u. forstl. Marktlehre, Universit. für Bodenkultur, Wien Heft 8, 260 p. ISBN 3-7040 0970-9		IUFRO S4.04-02 Forest Management planning and managerial economics	Oesterr. Agrar-Verlag, 1041-Wien
Air Pollution and Forest Decline. Proc. 14th Int. Meeting for Specialists in Air Pollution Effects on Forest Ecosystems. Conference October 2-8, 1988 in Interlaken/ Switzerland	Bucher,J.B. & Bucher-Wallin, I., eds. (1989) Publ. Eidg. Anst.forstl. Versuchswesen CH 8903 Birmensdorf Vol. I 372 p, Vol. II 192 p. ISBN 3-905620-01-4		IUFRO P2.05 Air Pollution effects on forest ecosystems	available: F.Flück-Wirth Int.Buchhandlung Botanik& Naturwiss CH 9053 Teufen sFr. 64,-

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

November 1988 - November 1989

Organization: IUFRO, International UNION of Forestry Research Organizations

Title of Project	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization
Verification of Hypotheses on the Mechanisms of Damage to Forests and Possibilities of Recovery of Forest Ecosystems, Seminar September 4-8, 1989 in Beskiden/CSSR				IUFRO P2.05-07 Silviculture in Polluted Areas Prof. V. Tesar, University of Agriculture, Fac. Forestry, 61300 Brno/CSSR
Management of Nutrition in Forests under stress Int. Conference Sept. 18-21, 1989 in Freiburg i. Brs./BRD				IUFRO Div. 1 Forest Environment and Silviculture Prof. W. Zoettl, Inst. Soil Sci. and Forest Nutrition, Albert-Ludwigs-Universität D-7800 Freiburg i. Brs./BRD
Ecological Monitoring WS in Usti nad Labem/CSSR September 25-29, 1989				IUFRO P2.05-01 Diagnosis, Monitoring & Evaluation Forestry and Game Management Inst. Jilobiste-Strnady, CS 25501 Zbraslav/CSSR
"Global Natural Resource Monitoring and Assessments: Preparing for the 21st Century" Int. Conference & Workshop IUFRO, Div. IV & VI / FAO September 24-30, 1989 in Venice, Italy				IUFRO Div. 4 Inventary, Growth, Yield and Management Systems IUFRO S6.02-00, Statistical Methods, Mathematics & Computers IUFRO S6.05-00, Remote Sensing FAO Rome

PROJECTS BEING PLANNED

Organization: IUFRO, International UNION of Forestry Research Organizations

ponsoring dy (if pplicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	Re-evaluation of IUFRO air quality standards for the protection of forests in view of the recent forest decline in Europe	P 2.05 Air Pollution Commission		Oct. 1988	1990			

LIST OF FUTURE MEETINGS (including regular sessions of sponsoring body)

Organization: IUFRO, International UNION of Forestry Research Organizations

Date	Place	Title of Meeting	Remarks
May 15-18, 1990	Kornik Poland	Oak Decline in Europe (P2.05-05/06)	Information available Prof. R. Siwecki, Inst. of Dendrology PL62035 Kornik Poland
August 5-11, 1990	Montreal Canada	XIX IUFRO World Congress -Sub-Plenary Session (P2.05: Air Pollution Effects on Forest Ecosystems) "Air Pollution and Forest Decline worldwide" -Sub-Plenary Session (Task Force) "Challenge of Air Pollution to Forest Sciences" -P2.05-01 "Diagnosis and Monitoring of Air Pollution Effects on Forest Ecosystems" -P2.05-04 "Effects of Air Pollution on Soil" -P2.05-05 "Genetic Consequences of Air Pollution on Forest Ecosystems" -S2.06/S2.07/P2.05-06 "Interaction of Air Pollution with Biotic Stresses" -P2.05-07 "Restoration of Forest Ecosystems Damaged or Destroyed by Pollution" -P2.05-08, S5.01 "Impact of Air Pollution on the anatomy and ultrastrucutre of wood, bark, needles and roots" -S1.03 "Air Pollution Impacts on the Environment"	

FORMAT AND STATEMENT OF ACTIVITIES

LIST OF FUTURE MEETINGS (including regular sessions of sponsoring body)

Organization: IUFRO, International UNION of Forestry Research Organizations

Date	Place	Title of Meeting	Remarks
Aug. 1992	DDR	P2.05 "Air Pollution-Forest Decline"	

ISO Central Secretariat

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION-МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ-ORGANISATION INTERNATIONALE DE NORMALISATION

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I N T R O D U C T I O N

ISO (the International Organization for Standardization) is the specialized international agency for standardization, at present comprising the national standards bodies of 90 countries. The object of ISO is to promote the development of standards in the world with a view to facilitating international exchange of goods and services, and to developing mutual cooperation in the sphere of intellectual, scientific, technological and economic activity. The results of ISO technical work are published as International Standards.

The ISO International Standards may be used direct as such, they may also be implemented through incorporation in national standards of different countries or be referred to in the international regulations, conventions, agreements and the national laws, etc., on trade and exchange of services, scientific, economic and technological co-operation, occupational safety, environmental protection, etc.

To facilitate identification of the type of document prepared by the above technical committees, the following abbreviations have been used:

ISO ISO International Standard

DIS draft International Standard

DP draft proposal

DTR draft Technical Report

TR Technical Report

WI work item

Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: ISO/TC 146

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Ambient air -- Determination of the mass concentration of carbon monoxide -- Gas chromatographic method	ISO 8186: 1989	--	--	--
Air quality -- Stratified sampling method for assessment of ambient air quality	ISO 9359: 1989	--	--	--

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: ISO/TC 146

Title of Project	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
Ambient air -- Determination of gaseous sulfur compounds -- Sampling equipment (Revision of ISO 4219:1979)	WI	85-02	90-12	--	DP or DIS	stage not yet decided upon
Air quality -- Performance characteristics and related concepts for air quality measuring methods (Revision of ISO 6879:1983)	WI	87-11	90-06	--	DP	
Air quality -- Particle size fraction definitions for health-related sampling (Revision of ISO/TR 7708:1983)	WI	87-06	90-06	--	DP	
Ambient air -- Determination of gaseous and particulate fluorides (Reconfirmed 87-11)	WI	81-06	90-12	--	DP	
Ambient air -- Determination of non-methane hydrocarbons (Reconfirmed 87-11)	WI	83-07	91-12	--	DP	
Ambient air -- Determination of the concentration of polycyclic aromatic hydrocarbons -- HPLC fluorometric method (Reconfirmed 87-11)	WI	84-07	90-12	--	DP	

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: ISO/TC 146

Title of Project	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
Ambient air -- Determination of gaseous ammonia and of ammonium in particulate matter -- Diffusion tube method	WI	88-03	91-12	--	DP	
Air quality -- Comparison of characteristic values describing air quality with prescribed limiting values	WI	89-08	91-06	--	DP	
DP 4222 Ambient air -- Measurement of particulate fall-out -- Horizontal deposit gauge method	DP	76-06	91-12	--	DIS	
DP 4224 Ambient air -- Determination of carbon monoxide -- Non-dispersive infrared method	DP	75-08	91-12	--	DIS	
DP 4225 Air quality -- General aspects -- Vocabulary (Future Addendum 1 to ISO 4225:1980)	DP	78-12	90-06	--	DIS	
DP 4226 Air quality -- General aspects -- Units of measurement (Revision of ISO 4226:1980)	DP	87-11	90-06	--	DIS	
DP 6768 Ambient air -- Determination of the mass concentration of hydrogen sulfide -- Methylene blue spectrometric method	DP	79-02	91-12	--	DIS	
DP 8392 Ambient air -- Determination of mass concentration of hydrogen sulfide -- Gas chromatographic/flame photometric method	DP	83-07	91-12	--	DIS	

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: ISO/TC 146

Title of Project	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
DP 8756 Air quality -- Handling of temperature, pressure and relative humidity data	DP	86-06	91-12	--	DIS	
DP 9168 Air quality -- Determination of performance characteristics for evaluation of measuring methods	DP	79-06	90-09	--	DIS	
DP 9835 Ambient air -- Determination of black smoke	DP	84-01	90-12	--	DIS	
DP 9855 Ambient air -- Determination of particulate lead content -- Atomic absorption spectrometric method	DP	77-12	90-12	--	DIS	
DP 10312 Ambient air -- Determination of asbestos fibres -- Direct transfer transmission electron microscopy method	DP	81-06	90-12	--	DIS	
DP 10313 Ambient air -- Determination of ozone -- Chemiluminescence method	DP	78-12	90-06	--	DIS	
DP 10473 Ambient air -- Determination of particulate matter -- Beta ray absorption method	DP	84-07	91-06	--	DIS	
DP 10498 Ambient air -- Determination of sulfur dioxide -- Ultraviolet fluorescence method	DP	84-01	91-06	--	DIS	
DTR 4227 Planning of ambient air quality monitoring	DTR	75-08	89-09	--	Technical Report	Target date exceeded by ISO/CS

FORMAT AND STATEMENT OF ACTIVITIES

ANNEX II

PROJECTS UNDER EXECUTION

Organization: ISO/TC 146

Title of Project	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
DIS 6767 Ambient air -- Determination of the mass concentration of sulfur dioxide -- Tetrachloromercurate (TCM)/pararosaniline method	DIS	79-02	90-06	--	Standard	

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS BEING PLANNED

Organization: ISO/TC 146

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks

FORMAT AND STATEMENT OF ACTIVITIES

LIST OF FUTURE MEETINGS (including regular sessions of sponsoring body)

Organization: ISO/TC 146

Date	Place	Title of Meeting	Remarks
1990 - 09-10/15	Paris	ISO/TC 146/SC 3	
1991 (autumn)	Japan	ISO/TC 146	

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UN/ECE

12th Intersecretariat Meeting on Air Pollution Problems in Europe
Geneva, 20 November 1989

Annex I:

PUBLICATIONS 1989 on Air Pollution:

- Protocol to the 1979 Convention on Long-range Transboundary Air Pollution concerning the Control of Emissions of Nitrogen Oxides orTheir Transboundary Fluxes (1988), ECE/EB.AIR/21

  The State of Transboundary Air Pollution.
  Air Pollution Studies No. 5, ECE/EB.AIR/22,
  UN Sales No. E89.II.E.25, 104 pp.

- Forest Damage and Air Pollution:
- Report of the 1987 Forest Damage Survey in Europe, Project FP/9101-86-05, 71 pp.

UN/ECE

Annex II

Convention on Long-range Transboundary Air Pollution

(Work plan/timetable in ECE/EB.AIR/20 Annex II)

Ongoing Co-operative Programmes and Task Forces	Date of initiation	Lead countries
1. Co-operative programme for monitoring and evaluation of the long-range transmission of air pollutants in Europe (EMEP)	1977	
2. International co-operative programme on assessment and monitoring of air pollution effects on forests	1985	Federal Republic of Germany
3. International co-operative programme on assessment and monitoring of acidification of rivers and lakes	1986	Norway
4. International co-operative programme on effects of air pollution on materials including historic and cultural monuments	1986	Sweden
5. International co-operative programme for research on evaluating effects of air pollutants and other stresses on agricultural crops	1987	United Kingdom
6. Task Force on emissions of nitrogen oxides from stationary sources	1985	Federal Republic of Germany
7. Task Force on emissions of volatile organic compounds from stationary sources	1987	France and Federal Republic of Germany
8. Task Force on integrated assessment modelling	1987	Netherlands
9. Task Force on utilization of by-products	1988	Austria
10. Task Force on integrated monitoring	1988	Sweden
11. Task Force on exchange of technology	1988	Finland
12. Task Force on mapping of critical levels and loads	1988	Federal Republic of Germany

Convention on Long-range Transboundary Air Pollution

Tentative List of Meetings 1989-90

30 January - 2 February 1990 Geneva	Working Group on Volatile Organic Compounds (third session)
20-23 February 1990 Geneva	Working Group on Abatement Strategies (third session)
29 May - 1 June 1990 Geneva	Working Group on Volatile Organic Compounds (fourth session)
25-27 June 1990 Geneva	Group of Economic Experts on Air Pollution (sixth session)
27-29 June 1989 Geneva	Working Party on Air Pollution Problems (nineteenth session)
9-12 July 1990 Geneva	Working Group on Abatement Strategies (fourth session)
27-29 August 1990 Geneva	Working Group on Effects (ninth session
29-31 August 1990 Geneva	EMEP Steering Body (fourteenth session)
19-22 November 1990 Geneva	Executive Body for the Convention (eighth session)

* * *

27-29 November 1989 Geneva	Task Force on Integrated Assessment Modelling (fifth meeting)
29 November - 1 December 1989 Madrid, Spain	Programme Task Force, International Co-operative Programme on Effects of Air Pollutants and other Stresses on Agricultural Crops (third meeting)
3-4 December 1989 Vienna, Austria	Task Force on By-products Utilization (fourth meeting)
11-15 December 1989 Delft, Netherlands	Task Force on Emissions of Volatile Organic Compounds from Stationary Sources (fifth meeting)
14-15 December 1989 Oslo, Norway	Workshop on Projections of Nitrogen Oxide Emissions
16-17 January 1990	Consultation of designated experts on emissions of volatile organic compounds from mobile sources (first meeting)

8-9 February 1990 Karlsruhe, Federal Republic of Germany	Task Force on Emissions of Nitrogen Oxides from Stationary Sources (first meeting)
12-14 March 1990 Stockholm, Sweden	Workshop on Long-range Transport of Organic Air Pollutants*
19-20 March 1990 Geneva from mobile sources (second meeting)	Consultation of designated experts on emissions of volatile organic compounds
March 1990 Helsinki, Finland	Task Force on Exchange of Technology (second meeting)
3-6 April 1990 Paris, France	Task Force on emissions of volatile organic compounds from stationary sources (sixth meeting)
23-25 April 1990 Modelling Bilthoven Netherlands	Task Force on Integrated Assessment (fifth meeting)
2-3 May 1990 Geneva	EMEP Bureau (twenty-third meeting)
15-17 May 1990 Interlaken, Switzerland	Programme Task Force, International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests (sixth meeting)
May 1990 United Kingdom	Workshop on modelling of photochemical oxidants
22-23 May 1990 Bad Harzburg Federal Republic of Germany	Task Force on Mapping of Critical Levels and Loads (second meeting)
24-25 May 1990 Oslo, Norway	EMEP Workshop on air pollutant emissions from ships
28-30 May 1990 Göteborg, Sweden	Programme Task Force on Integrated Monitoring (second meeting) and Workshop
3-6 July 1990 Regensburg, Federal Republic of Germany	EMEP Workshop on International Emission Inventories for VOCs, NO_x and NH_3
28 August 1990 Geneva	EMEP Bureau (twenty-fourth meeting)
19-21 September 1990 Lisbon, Portugal	Programme Task Force, International Co-operative Programme on Effects on Materials, including Historic and Cultural Monuments (sixth meeting)

15-18 October 1990 Potsdam, German Democratic Republic	EMEP Workshop on Progress in Modelling of Atmospheric Transport of Nitrogen Compounds
22-26 October 1990 Göteborg, Sweden	Programme Task Force, International Co-operative Programme on Assessment and Monitoring of Acidification of Rivers and Lakes (sixth meeting)
October/November 1990 Cesko Budovice, Czechoslovakia	Programme Task Force, International Co-operative Programme for Effects of Air Pollutants and Other Stresses on Agricultural Crops (fourth meeting)

*
Under the auspices of the Senior Advisers to ECE Governments on Environmental and Water Problems

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UNITED NATIONS ENVIRONMENT PROGRAMME

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DEPARTEMENT INDUSTRIE ET ENVIRONNEMENT

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Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: Industry and Environment Office, UNEP (United Nations Environment Programme)

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
None				

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

FORMAT AND STATEMENT OF ACTIVITIES

ANNEX II

PROJECTS UNDER EXECUTION

Organization: Industry and Environment Office, UNEP (United Nations Environment Programme)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	Development of documents							
	Environmental Aspects of Nickel Production Part II Laterite Pyrometallurgy and Hydrometallurgy and Ferr-nickel smelting		Retyping the manuscript for printing	January 1988	December 1990	USSR Government		
	Environmental Aspects of Copper Production - A Technical Review -		Drafting	1983	December 1990	US/EPA		
	Environmental Aspects of Lead, Zinc and Cadmium Production - A Technical Review -		Drafting	1983	December 1990	US/EPA		
	Guidelines on Environmental Management of Nickel Production		Drafting	1988	December 1990	NIPERA		
	Environmental Aspects of Selected Non-ferrous Metals Ore (Ni, Cu, Pb, Zn, Cd, Au) Mining - A Technical Guide -		Finalization	1988	April 1990			
	A Technical Review on Air Pollution Control Equipment		1st draft		1990	The Government of France	(Expert Group Meetin for finalization 199	

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

ANNEX II

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: Industry and Environment Office UNEP (United Nations Environment Programme)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	Development of documents							
	A Technical Guide on Environmental Aspects of Exploration and Exploitation of Petroleum		Seeking comments and suggestions on 1st draft	1988	1990			
	A Technical Guide on Environmental Aspects of Cement Production		Drafting pre-draft	1989	1991			
	Technical Guide on Reducing the Environmental Impact of Tannery Operations		Drafting	1987	1990			

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FORMAT AND STATEMENT OF ACTIVITIES

ANNEX III

PROJECTS BEING PLANNED

Organization: Industry and Environment Office, UNEP (United Nations Environment Programme)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	Guidelines on Environmental Management of Copper Production			1990	1992			
	Guidelines on Environmental Management of Lead, Zinc and Cadmium Production			1990	1992			
	Environmental Aspects of Fertilizer Production			1990	1992			

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

ANNEX IV

FORMAT AND STATEMENT OF ACTIVITIES

LIST OF FUTURE MEETINGS (including regular sessions of sponsoring body)

Organization: Industry and Environment Office, UNEP (United Nations Environment Programme)

Date	Place	Title of Meeting	Remarks
None			

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

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In reply refer to / Dans la réponse, mentionner

Please address all replies to the Secretary-General
Veuillez adresser votre réponse au Secrétaire général

Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

~~PROJECTS COMPLETED AND~~ PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: WORLD METEOROLOGICAL ORGANIZATION

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
1. Provisional Daily Atmospheric CO_2 concentrations at BAPMON sites for the years 1986 and 1987				
2. Changing Composition of the Troposphere	WMO report No. 724, October, Geneva	-	-	Conference Proceedings
3. Atmospheric Input of Trace Species to the World Ocean	GESAMP Reports and Studies, No. 38, November 1989	WG	UNEP, Unesco	
4. Summary Report on the Status of the WMO background Air Pollution Monitoring Network as at 31 December 1987	WMO/TD-No. 284		UNEP-GEMS	

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FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: WORLD METEOROLOGICAL ORGANIZATION

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
	Global observing system for ozone and other radiatively important trace gases	Consultants, meetings, publications, expert panel, technical commission, Member countries	Ongoing	1976	-"-	UNEP, NASA	Assessment of current state of ozone layer, its changes and possible consequences for climate and health	Reports are published regularly
	Global background monitoring of atmospheric pollution, including BAPMoN	Consultants, meetings, missions to countries, publications, technical co-operation, training course, expert panel, technical commission, Member countries	Continuing activity	1970	Continually, as available	UNEP, national organizations	Guidance material, reports, studies, advice, improved networks, trained staff, promotion of relevant research	Reports on implementation and technical aspects published regularly
	Transport and dispersion of atmospheric pollutants on different time and space scales	Consultants, meetings, publications, two EMEP meteorological centres, expert panel, technical commission, regional association, Member countries	Ongoing	1978	-"-	ECE; UNEP	Guidance and information for Members faced with LRTAP problems, providing basis for international pollution control agreements	Close cooperation with EMEP/ECE
	Exchange of pollutants between various environmental compartments and integrated monitoring	GESAMP Working Group, consultants, meetings, publications, expert panel	Ongoing	1976	-"-	UNEP, IOC	Continuing review of air-sea material exchange, assessment of atmospheric transport of contaminants into the global ocean and specific regions; guidance materials on integrated monitoring	Reports are published

LIST OF FUTURE MEETINGS (including regular sessions of sponsoring body)

Organization: WORLD METEOROLOGICAL ORGANIZATION

Date	Place	Title of Meeting	Remarks
27-30 November 1989	Bermuda	Consultation to consider desirable locations and observational practices for BAPMON stations of global importance	
31 January - 2 February 1990	Ispra (Italy)	Steering Committee Meeting on intercomparison study of dispersion models for accidental atmospheric releases	with IAEA and CEC
17-28 April 1990	Offenbach (FRG)	Commission for Atmospheric Sciences of WMO (Xth session)	
7-11 May 1990	Geneva (Switzerland)	Group of Experts on the Scientific Aspects of Marine Pollution (GESAMP) - 20th session	
September 1990	Nalchik (USSR)	Fourth International Symposium on Background Integrated Monitoring	WMO co-sponsored
2-30 November 1990	Budapest (Hungary)	XV Training Course on Background Air Pollution Measurements	with UNEP

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

WORLD HEALTH ORGANIZATION

ORGANISATION MONDIALE DE LA SANTE

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Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX I

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: World Health Organization (HQ)

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
"Assessment of Urban Air Quality"	GEMS report, Nairobi, 1988	Results of an on-going project	WHO and UNEP	
"Exposure and Environmental Monitoring of NO_2"	GEMS report Nairobi (in press)	Results of HEAL's project	WHO and UNEP	
"Management and Control of the Environment"	WHO/PEP/89.1 Geneva, 1989	Update and expansion of existing doc.	-	

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: World Health Organization (HQ)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
WHO/HQ	GEMS Air Quality Monitoring		Continuing	1973	Annual	UNEP	Assessments Guidelines	
WHO/HQ	GEMS Human Exposure Assessment Location (HEAL) project		Continuing	1984	Annual	UNEP	Assessments Guidelines	
WHO/HQ	Comparative Air Pollution Study in Urban Areas		Preparations phase under way	1989	Phase II to start mid 1990	World Bank	Assessments Guidelines	

C = Consultants; CC = Collaborating Centres; CS = Contractual Service Agreements; WG = Working Groups; WS = Workshops.

FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS BEING PLANNED

Organization: World Health Organization (HQ)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
WHO/HQ	Development of Health Criteria for Indoor Air Quality		Not yet started	1990	1991	-	Criteria Document	

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WORLD HEALTH ORGANIZATION
ORGANISATION MONDIALE DE LA SANTE
WELTGESUNDHEITSORGANISATION
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Twelfth Intersecretariat Meeting on Air Pollution Problems in Europe, Geneva, 20 November 1989

FORMAT FOR STATEMENT OF ACTIVITIES

ANNEX 1

PROJECTS COMPLETED AND PUBLICATIONS ISSUED NOVEMBER 1988 - NOVEMBER 1989

Organization: WHO Regional Office for Europe (WHO/EURO)

Title and project or document	Symbol of document and date and place of issuance	Method of implementation	Cooperating organization	Remarks
Emissions of Heavy Metal and PAH Compounds from Municipal Waste Incinerators: control technology and health effects	Report on a WHO meeting, WHO/EURO, Copenhagen (1988). (EH series 32)	WG (Florence, 12-16 Oct 1987)		In collaboration with Italy
Indoor Air Quality: Radon - Report on a WHO Working Group	J. Environ. Radioactivity, 8, 73-91 (1988)	WG (Dubrovnik, 26-30 Aug 1987)		Scientific Publication of 4th meeting of IAQ project
Implementation of Air Quality Guidelines in Mediterranean Countries	Summary Report, WHO/EURO Copenhagen (1989). (Final report in preparation.)	WS (Athens, 13-17 Dec 88)		1st Workshop of AQG project
Development of Strategies for air Pollution Control in East European Countries	Summary Report, WHO/EURO Copenhagen (1989). (Final report in preparation.)	WS (Warsaw, 20-23 June 89)		2nd Workshop of AQG project

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FORMAT AND STATEMENT OF ACTIVITIES

PROJECTS UNDER EXECUTION

Organization: WHO Regional Office Europe (WHO/EURO)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
WHO/EURO	Health Impact of Air Pollution from Various Sources (Industry, Motor Vehicles and Homes)	Study by collaborating centre	Ongoing	Jan 1988	1991	WHO CC on air (WaBoLu) Langen, DEU	Report	
WHO/EURO	Intersecretariat Meeting on Air Pollution Problems In Europe	Annual coordination meeting	Ongoing	1976 onwards	Annually	All IGOs and NGOs concerned	Meeting report	
WHO/EURO	Indoor Air Quality (IAQ)	C, WG	Future meetings in preparation	1978	Ongoing		Publication of meeting reports	
WHO/EURO	Air Quality Guidelines (AQG)		Guidelines being introduced to European Member States	End 1983	End 1987 and on		Implementation by Member States at national level	
UNEP/WHO	Air Quality Monitoring	Transmission of national data	Ongoing	Aug 1979 onwards	Ongoing	UNEP	Global submission of air quality data is eventually published	Part of UNEP/GEMS Programme

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PROJECTS BEING PLANNED

Organization: WHO Regional Office Europe (WHO/EURO)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
WHO/EURO	Projected programme activities up to 1995 include, inter alia:	C, CC CS, WG	Not yet started					
	Indoor Air Quality: Sources, Control and Mitigation of Indoor Air Pollution	WG		1990	1991		Report	9th meeting of IAQ project
	Health impact of a "cocktail" of six major air pollutants	Study WG		1990	1991		Report	
	National legislation and regulations for the control of all sources of air pollution			1991	1992		Directory	
	Implementation of AQG at national level			1989	1992		Publication	
	Relationship between peak air pollution concentrations and effects on health	Study WG		1992	1993		Report	

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PROJECTS BEING PLANNED

Organization: WHO Regional Office Europe (WHO/EURO)

Sponsoring body (if applicable)	Title of Project	Method of implementation	State of progress	Date of project initiation	Expected date of issuance of results	Cooperating organization	Expected Results	Remarks
WHO/EURO	The relative health impact of exposure to selected air pollutants through direct and indirect routes	Study WG		1993	1994		Report	

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ANNEX IV

FORMAT AND STATEMENT OF ACTIVITIES

LIST OF FUTURE MEETINGS (including regular sessions of sponsoring body)

Organization: WHO Regional Office Europe (WHO/EURO)

Date	Place	Title of Meeting	Remarks
7-8 Dec. 1989	Frankfurt/M, FRG	1st European Conference on Environment and Health	To involve both Ministers of Health and Ministers of the Environment of all invited European countries
18-20 April 1990	Budapest, Hungary	European Workshop on Air Pollution Measurements and Monitoring Systems	Co-sponsored with EURASAP
22-27 July 1990	Kingston, ON, Canada	Working Group on Indoor Air Quality: Asbestos and Man-made Mineral Fibres	8th meeting of IAQ project
November 1990	Geneva, Switzerland	Thirteenth Intersecretariat Meeting on Air Pollution Problems in Europe	Adjacant to the ECE EB meeting