

ANNEXES

ABBREVIATIONS.

EA	-	Environmental Assessment
EHIA	-	Environmental Health Impact
EHI	-	Environmental Health Impact Assessment
CEMP	-	Centre for Environmental Management And Planning
CHMM	-	Commonwealth Health Ministers Meeting
DBL	-	Danish Bilharzia Laboratory
FEARO	-	Federal Environmental Assessment Office (Canada)
HA	-	Health Assessment
HIP	-	Health Impact Programme
IAIA	-	International Association for Impact Assessment
PEEM	-	Panel Of Experts on Environmental Management for Vector Control
UNCED	-	United Nations Conference on Environment and Development
WHO	-	World Health Organisation

LIST OF PARTICIPANTS.

Professor Dennis Calvert
 Medical Research Unit
 University of Wollongong
 Wollongong NSW 2522
 Australia
 Tel: +61 42 266594(Work)
 Fax: +61 42 265130
 Tel: +61 42 681740(Home)

Professor Brian D. Clark
 CEMP
 23 St Machar Drive
 Aberdeen AB2 1RY
 UK
 Tel: +44 224 272353(Work direct)
 Tel: +44 224 272483(Jane)
 Fax: +44 224 487658
 Tel: +44 224 867159(Home)

Professor Christine Ewan
 Vice Chancellor's Unit
 University of Wollongong
 Wollongong NSW 2522
 Australia
 Tel: +61 42 213960(Work)
 Fax: +61 42 271771
 Tel: +61 42 681740(Home)

Dr Goh Kee Tai
 Institute of Environmental
 Epidemiology
 Ministry of Environment
 40 Scotts Road
 Singapore 0922
 Tel: +65 731 9722(Work)
 Fax: +65 731 9866

Dr Rudi Slooff
 Office of Global and Integrated
 Environmental Health
 World Health Organisation
 1211 Geneva 27
 Switzerland
 Tel: +41 22 791 3580(Work)
 Fax: +41 22 791 4123
 Tel: +33 50 20 85 87(Home)
 E-Mail: slooff@who.ch

Dr V. P. Sharma
 Malaria Research Centre
 22 Sham Nath Marg
 Delhi - 110 054
 India
 Tel: +91 11 224 7983(Work)
 Fax: +91 11 723 4234
 Tel: +91 11 688 5195(Home)
 Telex: 031 - 78234 MRC IN

Dr Martin Birley(unable to attend)
 Health Impact Programme
 Liverpool School of Tropical Medicine
 Pembroke Place
 Liverpool L3 5QA
 UK
 Tel: +44 51 708 9393
 Fax: +44 51 708 8733
 E-Mail: MHB@LIVERPOOL.AC.UK

Dr Helen M Bichan
 Health Department
 Commonwealth Department
 Marlborough House
 Pall Mall
 London SW1Y 5HX
 UK
 Tel: +44 171 747 6290(Work)
 Fax: +44 171 747 6287
 Tel: +44 171 747 6735(Home)

HEALTH IMPACT ASSESSMENT WITHIN ENVIRONMENTAL IMPACT ASSESSMENT

Commonwealth Secretariat.

INTRODUCTION.

The past two decades have seen much interest in applying environmental impact assessment (EIA) to development proposals. This has increased as environmental sustainability has gained importance. Many industrialised countries, have incorporated these methodologies into their assessment of development projects, policies and planning, and have enacted specific legislation. The best EIA schedules include assessment of the effects of environmental changes on health, but all too often, these are not adequately addressed and the health sector is not included in the process of assessment, planning or monitoring.

Most countries are continually aiming to improve their economic and social wellbeing through development. Several developing countries are involved in rapid economic and industrial change which can have significant impacts on social and health issues in both positive and negative directions. All too often development projects are assessed within the narrow context of the impact the project will have on the physical environment leaving the impact on human health and society poorly addressed.

There is now greater recognition of the interdependency of health, development and environment, with the increased emphasis on Health Impact Assessment (HIA) as an essential component of EIA. Participation of local communities particularly women, in assessing the effects development is seen as critical to ensure sustainability of development. HIA within EIA is a methodology for empowering local communities, professionals and government to consider, influence and monitor development proposals with well informed assessments of likely effects on people and their environment.

At the 10th Commonwealth Health Ministers Meeting (10CHMM), in October 1992, on the theme of "Environment and Health" a project on EHIA was proposed for the Asia Pacific region. In early 1993 the Secretariat commissioned an Australian expert group to develop teaching manuals on EHIA for use in developing countries by local communities and for professionals in health and other sectors. These manuals have been produced in draft form and field testing is under way in two Pacific island countries under the direction of Professor Christine Ewan of Wollongong University, Australia.

At the same time ComSec has maintained and developed relationships with other agencies involved in the field including the Environmental Health Division (EHD), now the programme for the Promotion of Environmental Health (PEH), of the World Health Organisation (WHO). Other agencies even more closely associated involved in developing tools for HIA within EIA, are CEMP Aberdeen and the Liverpool School of Tropical Medicine.

In November 1993, WHO and the Asia Development Bank (ADB) held a workshop in Kuala Lumpur, Malaysia, on toxic chemicals and EHIA at which Professor Ewan and others in her department contributed materials.

In keeping with its policy on collaboration, the ComSec initiative on the development of EHIA materials and methods has included consultation with the many groups which are addressing these issues. It is apparent that there is increasing interest in the subject and EHIA is being tried in some countries. HIA within EIA is of critical importance to development, health and the environment and it seems an opportune stage to bring together some of the key players to agree on core materials and development of practical applications.

ComSec proposes to bring together a group of experts together to identify the core elements of HIA within EIA as the basis for preparation of core text and relevant training materials. Pilot projects would then test the materials in several countries around the world. Specific applications of the core materials are to include training materials for use by local communities, by professionals health and other relevant sectors and government and industry.

OBJECTIVES OF THE EXPERT GROUP MEETING ON EHIA.

The long term objective is to promote human health in the context of environmentally sustainable development and to ensure informed participation by people at all levels in society.

The specific objectives are of the expert group meeting are:

- (a) To develop core materials on Environmental Health Impact Assessment (EHIA) from which training/teaching materials can be developed for use at different levels; and
- (b) to develop a proposal for preparing a range of suitable materials from the agreed core for pilot testing in selected countries.

METHODS.

1. Invited experts on HIA within EHIA will be asked to prepare their own brief summary of core materials for distribution to other invitees; Before
2. A three-day expert meeting to be held in Aberdeen at the Centre for Environmental Management and Planning (CEMP) and attended by six international experts on HIA within EHIA, including an international consultant to guide proceedings;
3. Participation will identify core materials on HIA within EIA, suitable for production along the line of the basic epidemiology training package (WHO1994); advise on its further development into a suitable basic text, and develop outlines for application of the core materials to target the following groups

(i) decision makers, mainly politicians and policy makers including those in industry to raise awareness of issues,

(ii) professionals in health and other sectors, to enable them to integrate HIA principles in their work on EIA in development and environment,

(iii) local communities, particularly women, to empower them to participate in decisions on development by using HIA within EIA.

4. The expert group will develop a project proposal for preparation of the core materials and their piloting in selected sites globally - for submission to potential donors; and
5. The consultant will take the material from the group and prepare a draft outline training package containing the core materials for review by the expert group before it becomes the basis for the further development of training materials.

Terms of reference for the participants to the workshop on Health Impact Assessment within Environmental Impact Assessment, to be held in Aberdeen, 1 - 3 February 1994.

To participate in the workshop with the view of achieving the following objectives

1. To develop core materials on Health Impact Assessment (HIA) within Environmental Impact Assessment (EIA) from which teaching/training materials in appropriate forms can be prepared for a variety of users. The materials should be suitable for adaptation for;
 - (a) awareness-raising among decision makers, mainly politicians and policy makers including those in industry;
 - (b) capacity building among health and other sector professionals leading to an integration of HIA in all EIA for both planning and monitoring purposes;
 - (c) local communities, particularly women, enabling them to do basic HIA as part of EIA when development is proposed or carried out locally.
2. To develop a project proposal for pilot testing core materials and applications developed, in selected centres around the world.

INPUTS

The inputs are participants considerable expertise on HIA within EIA and financial support to allow the experts to meet. The latter is coming from the commonwealth Secretariat through the health department's limited budget for projects and through external funding.

OUTPUTS

The aims of the expert group meeting will be achieved with the development of the core materials and a proposal for seeking funding for implementation of the next phase. A resource base of information on EHIA will also be available for future development.

SOURCE MATERIALS REVIEWED BY THE MEETING

Categories used:

- A Reports of meetings, etc.**
- B Materials providing information on HA**
- C Materials providing "core" understanding of HA**
- D Materials providing "optional" (i.e. more specialist) understanding of HA**

A: Reports of meetings, etc.

University of Kuopio, Natural Sciences, Series Statistics and Reviews 1/1978, Environment and Health, Proceedings of the Finnish-USSR Symposium, 29 - 30 March 1977, Kuopio, 1978

Target: General
Elements: Environmental health, no reference to EA, lectures on various subjects

WHO Regional Office for Europe/UNDP, Government of Greece
Environmental Health Impact Assessment, Report on a Seminar, 2 - 6 October 1978

Target: Decision-makers
Elements: Improving the quality of HA in EA

University of Kuopio, Natural Sciences, Series Statistics and Reviews 1/1982, Environmental Health, Our Common Concern, Proceedings of the Finnish-Soviet Symposium on Environment and Health, 25 - 27 November 1980, Kuopio, 1982

Target: General
Elements: Environmental health, no reference to EA, lectures on various subjects

WHO Regional Office for Europe, Health and Safety Component of Environmental Impact Assessment, Report on a WHO Meeting, WHO, 1987
Environmental Health Series, No. 15

Target: Policy-makers (health)
Elements: Analysis of status of HA in EA and how to improve it, strong bias towards the chemical industry

Commonwealth Secretariat, Report of 10th Commonwealth Health Ministers Meeting, Nicosia, Cyprus, 1992

Target: Policy-makers
Elements: Health and environment issues, environmental health, EA

B: Materials providing information on HA

Health and Environment Risk Analysis Program (HERAP), Health and Environmental Effects Document for Oil Shale - 1984

Target: Health professionals, occupational health officers, decision-makers (industry)
Elements: Risk analysis/management, no reference to HA/EA

BP Petroleum Development (North West Europe), Health, Safety and Environmental Policy Statement, year: 1985

Target: General
Elements: Company policy

WHO Regional Office for Europe, Health Impact of Different Energy Sources, WHO Regional Publications, European Series No. 19, 1986

Target: Policy-makers
Elements: Energy sector aspects of environmental health, no reference to HA/EA

M.H. Birley and G.L. Peralta, Advances in the Health Impact Assessment of Development Projects, 1995

Target: Scientists
Elements: General overview/update

C: Materials providing "core" understanding of HA

Yusuf J. Ahmad & George K. Sammy, Guidelines to Environmental Impact Assessment in Developing Countries, UNEP, 1985

Target: Decision-makers, general public
Elements: The essentials of EA and how it is carried out, many references, no special focus on health

E. Giroult, Health Risk Assessment and Public Health Risk Assessment, CEMP Syllabus, 1990

Target: CEMP Seminar participants
Elements: Risk assessment/management, overview of concepts and methods, but no EA

Giovanni Zapponi, Methods for Health Component of Industrial Development Projects, CEMP Syllabus, 1991

Target: CEMP Seminar participants
Elements: Health risk assessment and management in industry, no link with EA

WHO Regional Office for Europe/Centre for Environmental Management and Planning (CEMP), Environmental and Health Impact Assessment of Development Projects; A Handbook for Practitioners, 1992

Target: EA practitioners
Elements: EA objectives and methods, Project planning

Brian D. Clark, The Health and Safety Component of EA, CEMP Syllabus, 1992

Target: CEMP Seminar participants
Elements: Overview/update

Paul F. Hillman, Methods for assessing the health component of industrial development projects, CEMP Syllabus, 1992

Target: CEMP Seminar participants
Elements: Risk inventories and profiles, little EA

M.H. Birley *et al*, Guidelines for the Health Impact Assessment of Development Projects, ADB Environment Paper No. 11, 1992

Target: Non-specialist ADB staff
Elements: Health hazard identification, initial health examination, health impact assessment, broad development approach

E. Giroult, Health Impact Assessment, CEMP Syllabus, 1993

Target: CEMP Seminar participants
Elements: Risk assessment/management, health impacts forecasting, but no EA

WHO/FAO/UNEP/UNCHS Panel of Experts on Environmental Management for Vector Control (PEEM)/Health Impact Programme (HIP)/Danish Bilharzia Laboratory (DBL), 2nd Course in Health Opportunities in Water Resources Development, Ghana, January - February 1994

Target: Middle level officials in different ministries
Elements: Task-oriented method for cross-disciplinary work, could be used in other settings

Christine Ewan, Wollongong University Briefing Notes, November 1994

Target: HA and EA practitioners
Elements: HA integration in EA within context of policies, codes, laws, regulations and barriers to be faced in community consultation, etc.

New Zealand Government, A Guide to Health Impact Assessment, May 1995

Target: Community members, local government, project proponents
Elements: Legal frameworks (NZ Resource Management Act, 1991), procedures and methods for public participation in HA as part of EA

School of Civil Engineering and Environmental Science, College of Engineering, University of Oklahoma, USA, Environmental Health Impact Assessment, *year?*

Target: EA experts
Elements: Introducing HA principles

M.H. Birley, The Health Impact Assessment of Development Projects, HMSO, 1995, *in press*

Target: Non-health specialists
Elements: Update/overview

M.H. Birley, R. Bos, C.E. Engel & P. Furu, Health opportunities in water resource development: a multisectoral task-based training course, *IN DRAFT*

Target: Scientists, government officers (health/agriculture), trainers
Elements: Highly novel approach to cross-sectoral training methods

D: Materials providing "optional" (i.e. more specialist) understanding of HA

Pan American Health Organization (PAHO), Pan American Center for Human Ecology and Health (ECO), Larry Canter, Environmental Health Impact Assessment, 1986

Target: Practitioners in HA
Elements: HA methods for integration in EA

WHO/FAO/UNEP/UNCHS Panel of Experts on Environmental Management for Vector Control (PEEM) Guidelines Series No. 2, M.H. Birley, Guidelines for Forecasting the Vector-Borne Disease Implications of Water Resources Development, VBC/89.6, 1989

Target: "Anyone" wishing to do a rapid assessment of health risks in water development
Elements: Community vulnerability and receptivity, Health services vigilance, methods for intervention and mitigation, strong focus on vector-borne diseases, strong focus on water resources development, weak link with EA methodology

WHO Regional Office for the Western Pacific, Environmental Health Centre (EHC), Training Workshop on Environmental Health Impact Assessment, Pagsanjan, Laguna, Philippines, 30 May - 3 June 1994

Target: Not stated, EA reviewers?
Elements: Hazard identification, risk characterization, exposure assessment and other components of risk assessment/management, HA treated as distinct from EA

WHO Regional Office for the Western Pacific, Environmental Health Centre (EHC), Workshop on Environmental Health Risk Assessment and Management, Kuala Lumpur, Malaysia, October 1994

Target: Officials of health ministries, environment departments, police, local authorities, etc.
Elements: Risk assessment/management, risk transition, risk communication, community involvement, HA treated as rather distinct from EA process, case studies predominantly on chemical risks

Hilary Goodman, The economic analysis of the health impact of irrigated Agriculture, Report HIP/94.27, November 1994. The Liverpool School of Tropical Medicine.

Targets: General

Elements: Published and unpublished documents concerning health impact assessment.

DATABASE AT THE LIVERPOOL SCHOOL OF HYGIENE AND TROPICAL MEDICINE.

The Liverpool School of Tropical Medicine, Health Impact Programme, has a library and database of published and unpublished documents concerning health impact assessment. There are currently 2,000 items stored in the library which are also catalogued in a computer database, ENDNOTE. In addition the programme has prepared a bibliography with 1,500 items entitled "The Economic Analysis of the Health Impact of Development Projects".