- (b) developing the necessary operational capability. This Safety Standard contains the following chapters:
- 1. Introduction
- 2. Objective and principles of radioactive waste management
- 3. National framework for radioactive waste management
- 4. Responsibilities associated with radioactive waste management
- 5. Important features of radioactive waste management

G.F. Bennett

The Principles of Radioactive Waste Management, International Atomic Energy Agency, Vienna, 1995, 160.00 Austrian Schillings, 24pp, ISBN: 92-0-103595-0

The goal of this safety fundamentals guide is to complement national standards and criteria in the development of radioactive waste management programs. It encompasses all aspects of radioactive waste management from waste minimization to disposal and sets out objectives and principles for the protection of human health in the environment.

The following principles are the key to safe radioactive waste management:

- 1. Protection of human health
- 2. Protection of the environment
- 3. Protection beyond national borders
- 4. Protection of future generations
- 5. Burdens on future generations
- 6. National legal framework
- 7. Control of radioactive waste generation
- 8. Radioactive waste generation and management interdependencies
- 9. Safety of facilities

G.F. Bennett

Environmental Impact of Chemicals: Assessment and Control, edited by M.D. Quint, D. Taylor and R. Purchase, The Royal Society of Chemistry, Cambridge, UK, 1996, £69.50 (US\$120.00), 244 pp., ISBN 0-85404-795-6

The contributions in this book are based on presentations at two symposia held in London in late 1994. The symposia were organized jointly by the Toxicology Environmental Chemistry and Chemical Information Subject Group of the Royal Society of Chemical Industry.

Following and introduction and overview of the risk assessment process (Chapter 1), the roles of toxicology and epidemiology are discussed (Chapters 2–6), with views from

Europe and the United States. Recent environmental legislation in the UK has focused on the need to protect the environment within reasonable economic constraints; the role of risk assessment in this is examined (Chapters 7–10).

The importance of incorporating site-specific data into risk assessments in described (Chapter 11) along with the collection of information on new and existing chemical substances, with particular regard to recent European Union legislation (Chapters 12–14). The book concludes with a discussion of the interplay between environmental risk assessment and the realities of public perception (Chapters 15 and 16).

The purpose of compiling the papers for this book was to provide an insight into a technique that is being used to help predict the environmental impact of chemicals in specific circumstances, i.e. risk assessment. The tools used in this task include toxicology, epidemiology, exposure modelling and analytical chemistry. Toward this goal, the editors have compiled the following chapters:

- 1 Overview of Risk Assessment and its Application
- 2 The Role of Toxicology in Risk Assessment
- 3 Toxicological Information from Animal Data: Methylene Chloride
- 4 Dealing with Genotoxic Carcinogens: A UK Approach
- 5 Dealing with Genotoxic Carcinogens: Refining the US Approach
- 6 Epidemiological Investigation of Environmental Health Issues
- 7 Integrated Pollution Control: Application of Principles to Establish BPEO and BATNEEC
- 8 Guideline Values for Contaminated Land: Underlying Risk Assessment Concepts
- 9 Contaminated Land and Water Quality Standards
- 10 OPRA (Operator and Pollution Risk Appraisal): A Practical System for Rating and Managing Environmental Risks From Industrial Processes
- 11 Site-specific Considerations in Risk Assessment
- 12 Information Sources Covering the Environmental Impact of Chemicals
- 13 The Acquisition of Environmental Data for Legislative Purposes
- 14 Environmental Classification and Risk Assessment
- 15 Communication the Results of a Risk Assessment: Lessons From Radioactive Waste Disposal
- 16 Risk Assessment and Reality: Recognising the Limitations

Unique and current is a listing of information sources available in the Internet with their computer addresses.

G.F. Bennett

Microbiology of Landfill Sites, edited by E. Senior, CRC Press, Boca Raton, FL, 1995, \$74.95, 205 pp., ISBN: 0-87371-968-9

This text discusses the latest findings in landfill leachate treatment, co-disposal and fundamental microbiology with a goal of providing a basis for the scientific design and