

**RADIOLOGICAL SIGNIFICANCE
AND MANAGEMENT OF
TRITIUM
CARBON-14
KRYPTON-85
IODINE-129
ARISING FROM
THE NUCLEAR FUEL CYCLE**

Report by an NEA Group of Experts

April 1980



NUCLEAR ENERGY AGENCY
ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

Radiological Significance And Management Of Tritium Carbon14 Krypton85

J Elliott



Radiological Significance And Management Of Tritium Carbon14 Krypton85:

Radiological Significance and Management of Tritium Carbon-14, Krypton-85, Iodine-129 Arising from the Nuclear Fuel Cycle OECD Nuclear Energy Agency, OECD Nuclear Energy Agency. Committee on Radiation Protection and Public Health, OECD Nuclear Energy Agency. Radioactive Waste Management Committee, 1980 **Radiological significance and management of tritium, carbon-14, krypton-85, iodine-129**, 1980 **Radiological Risk**

Assessment and Environmental Analysis John E. Till, Helen A. Grogan, 2008-07-10 A comprehensive book that explains methods used for estimating risk to people exposed to radioactive materials released to the environment by nuclear facilities or in an emergency such as a nuclear terrorist event **Management of Waste Containing Tritium and Carbon-14**

International Atomic Energy Agency, 2004 This report reviews and analyses experience in the application of different organizational and technological approaches to the management of waste containing C 14 and tritium and reviews the different sources of such waste and the characteristics important in the selection of appropriate methods for its processing storage disposal and release **Reprocessing and Recycling of Spent Nuclear Fuel** Robin Taylor, 2015-04-18

Reprocessing and Recycling of Spent Nuclear Fuel presents an authoritative overview of spent fuel reprocessing considering future prospects for advanced closed fuel cycles Part One introduces the recycling and reprocessing of spent nuclear fuel reviewing past and current technologies the possible implications of Generation IV nuclear reactors and associated safety and security issues Parts Two and Three focus on aqueous based reprocessing methods and pyrochemical methods while final chapters consider the cross cutting aspects of engineering and process chemistry and the potential for implementation of advanced closed fuel cycles in different parts of the world Expert introduction to the recycling and reprocessing of spent nuclear fuel Detailed overview of past and current technologies the possible implications of Generation IV nuclear reactors and associated safety and security issues A lucid exploration of aqueous based reprocessing methods and pyrochemical methods **Radiological Protection Options for Subseabed High-level Waste Disposal** M. F. Kaplan, 1985

Yearbook of the European Convention on Human Rights Council of Europe/Conseil de L'Europe, 1972 This volume of the Yearbook of the European Convention on Human Rights prepared by the Directorate of Human Rights of the Council of Europe relates to 2003 Part one contains information on the Convention Part two deals with the control mechanism of the European Convention on Human Rights selected judgments of the European Court of Human Rights and human rights DH resolutions of the Committee of Ministers part three groups together the other work of the Council of Europe in the field of human rights and includes the work of the Committee of Ministers the Parliamentary Assembly and the Directorate General of Human Rights part four is devoted to information on national legislation and extracts from national judicial decisions concerning rights protected by the Convention Appendix A contains a bibliography on the Convention and Appendix B the biographies of the new judges elected to the European Court of Human Rights **Radioactive Waste Processing and**

Disposal U.S. Nuclear Regulatory Commission,1980 **Economics of Natural Resources, the Environment and Policies** E. Kula,2012-12-06 The economic activities of humanity particularly during the last couple of centuries have had a profound impact on the natural environment Fast depletion of the world's forest resources fish stocks fossil fuels and mine deposits have raised many moral as well as practical questions concerning present and future generations Furthermore a number of global environmental problems such as acid rain the greenhouse effect and depletion of the ozone layer are causing concern throughout the world What does economics say about the exploitation of nature's scarce resources This book which is a much expanded version of an earlier publication *Economics of Natural Resources and the Environment* aims mostly at final year undergraduates reading subjects such as economics business studies environmental science forestry marine biology agriculture and development studies There is also a good deal of material especially in the chapters on fisheries forestry valuation and discounting that post graduate students may find useful as stepping stones The material presented stems from my lectures to final year students at the University of Ulster during the last 12 years and some of my ongoing research work When I moved to Northern Ireland in 1982 I was given a course called *Economics of Exhaustible Resources* to teach This has changed its title and focus a number of times along with the structure of the University My early reading lists included a number of journal articles and books written on the subject *Environmental Radiation Protection Requirements for Normal Operations of Activities in the Uranium Fuel Cycle* United States. Environmental Protection Agency. Office of Radiation Programs,1976 *The Environmental and Biological Behaviour of Plutonium and Some Other Transuranium Elements* OECD Nuclear Energy Agency,1981 **Concepts of Collective Dose in Radiological Protection** Bo Lindell,1985 **Treatment, Conditioning and Disposal of Iodine-129** ,1987 The evaluation of optimum waste management practices for the long lived iodine 129 has received special consideration with the expansion of nuclear power programmes Radioiodine can be removed from off gas streams by a variety of physical chemical or physicochemical processes This publication reviews the various techniques collectively and reports on current developments of the techniques used in the immobilization of recovered iodine and disposal of the conditioned wastes with due regard to the radiological hazards involved **Integrated Data Base for ...** ,1984 **Government Publications of ...** Great Britain. Her Majesty's Stationery Office,1980 *International Organisations Publications* Great Britain. Her Majesty's Stationery Office,1980 **The OECD Observer** Organisation for Economic Co-operation and Development,1982 *Joint U.S. Geological Survey, U.S. Nuclear Regulatory Commission Workshop on Research Related to Low-level Radioactive Waste Disposal, May 4-6, 1993, National Center, Reston, Virginia* Peter Ryan Stevens,Thomas J. Nicholson,1996 *Energy Research Abstracts* ,1983 *Technical Reports Series* ,2004

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