



# Decommissioning Handbook

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**U.S. Department of Energy**  
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# The Decommissioning Handbook

**Anthony S. Fauci**



## **The Decommissioning Handbook:**

**The Decommissioning Handbook** Anibal Taboas, A. Alan Moghissi, Thomas S. LaGuardia, 2004      Decommissioning Handbook, 2005 The Decommissioning Handbook is a technical guide for the decommissioning of nuclear facilities The decommissioning of a nuclear facility involves the removal of the radioactive and for practical reasons hazardous materials to enable the facility to be released and not represent a further risk to human health and the environment This handbook identifies and technologies and techniques that will accomplish these objectives The emphasis in this handbook is on characterization waste treatment decontamination dismantling segmenting demolition and remote technologies Other aspects that are discussed in some detail include the regulations governing decommissioning worker and environmental protection and packaging and transportation of the waste materials The handbook describes in general terms the overall decommissioning project including planning cost estimating and operating practices that would ease preparation of the Decommissioning Plan and the decommissioning itself The reader is referred to other documents for more detailed information This Decommissioning Handbook has been prepared by Enserch Environmental Corporation for the US Department of Energy and is a complete restructuring of the original handbook developed in 1980 by Nuclear Energy Services The significant changes between the two documents are the addition of current and the deletion of obsolete technologies and the addition of chapters on project planning and the Decommissioning Plan regulatory requirements characterization remote technology and packaging and transportation of the waste materials      **Decommissioning Handbook** Enserch Environmental Corporation, United States. Department of Energy. Office of Environmental Restoration, 1994      **Nuclear Facility Decommissioning and Site Remedial Actions**, 1980      **Nuclear Decommissioning** Michele Laraia, 2012-02-21 Once a nuclear installation has reached the end of its safe and economical operational lifetime the need for its decommissioning arises Different strategies can be employed for nuclear decommissioning based on the evaluation of particular hazards and their attendant risks as well as on the analysis of costs of clean up and waste management This allows for decommissioning either soon after permanent shutdown or perhaps a long time later the latter course allowing for radioactivity levels to drop in any activated or contaminated components It is crucial for clear processes and best practices to be applied in decommissioning such installations and sites particular where any significant health and environmental risks exist This book critically reviews the nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities Part one focuses on the fundamental planning issues in starting a nuclear decommissioning process from principles and safety regulations to financing and project management Part two covers the execution phase of nuclear decommissioning projects detailing processes and technologies such as dismantling decontamination and radioactive waste management as well as environmental remediation site clearance and reuse Finally part three details international experience in the decommissioning of nuclear applications including the

main nuclear reactor types and nuclear fuel cycle facilities as well as small nuclear facilities and legacy nuclear waste sites Critically reviews nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities Discusses the fundamental planning issues in starting a nuclear decommissioning process Considers the execution phase of nuclear decommissioning projects including dismantling decontamination and radioactive waste management as well as environmental remediation site clearance and reuse Division of Environmental Control Technology Program ,1980 *Radioactive Waste Management* ,1981 **ORNL-EIS** ,1981 **Decommissioning Handbook** William J. Manion,Thomas S. LaGuardia,1980 *WM'94* ,1994 *Methods for the Minimization of Radioactive Waste from Decontamination and Decommissioning of Nuclear Facilities* International Atomic Energy Agency,2001 Simple text and photographs introduce the life of George Washington Carver **Energy Research Abstracts** ,1981 **Division of Environmental Control Technology Program** ,1980 **Handbook of Computer and Computerized System Validation for the Pharmaceutical Industry** Stephen Robert Goldman,2003 This handbook details methods for sustainable compliance with GxPs and 21 CFR Part 11 validation requirements regarding computerized systems in the pharmaceutical biotechnology and medical device industry The handbook follows FDA guidelines and best industry practices in defining roles responsib **Technical Reports Series** ,2006 **Companion Guide to the ASME Boiler & Pressure Vessel Code** K. R. Rao,2006 This is Volume 2 of the fully revised second edition Organized to provide the technical professional with ready access to practical solutions this revised three volume 2 100 page second edition brings to life essential ASME Codes with authoritative commentary examples explanatory text tables graphics references and annotated bibliographic notes This new edition has been fully updated to the current 2004 Code except where specifically noted in the text Gaining insights from the 78 contributors with professional expertise in the full range of pressure vessel and piping technologies you find answers to your questions concerning the twelve sections of the ASME Boiler and Pressure Vessel Code as well as the B31 1 and B31 3 Piping Codes In addition you find useful examinations of special topics including rules for accreditation and certification perspective on cyclic impact and dynamic loads functionality and operability criteria fluids pipe vibration stress intensification factors stress indices and flexibility factors code design and evaluation for cyclic loading and bolted flange joints and connections Journal of Tribology ,2005 **PM Network** ,1995 **Encyclopedia of Environmental Analysis and Remediation, Volume 5** Robert A. Meyers,1998-03-23 With the growing concern over the environment new industries and research areas have been developed to identify monitor regulate and legislate environmental interactions as well as to determine and repair existing environmental damage For both the expert and the newcomer a quick convenient and comprehensive source is needed to answer questions on the rapidly increasing amount of environmental information The Encyclopedia of Environmental Analysis and Remediation EEAR responds to this need by providing the reader with an in depth examination of the environmental analysis and remediation fields in a single eight volume reference

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