

THE DECOMMISSIONING HANDBOOK

Edited by
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The Decommissioning Handbook

Clifford Lane



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 **Decommissioning Health Physics** Eric W. Abelquist,2019-12-10 Experienced Guidance on the Technical Issues of Decommissioning Projects Written by one of the original MARSSIM authors Decommissioning Health Physics A Handbook for MARSSIM Users Second Edition is the only book to incorporate all of the requisite technical aspects of planning and executing radiological surveys in support of decommissioning Extensively revised and updated it covers survey instrumentation detection sensitivity statistics dose modeling survey procedures and release criteria New to the Second Edition Chapter on hot spot assessment that recognizes appropriate dosimetric significance of hot spots when designing surveys and includes a new approach for establishing hot spot limits Chapter on the clearance or release of materials highlighting aspects of the MARSAME manual Revised chapter on characterization survey design to reflect guidance in ANSI N13 59 on the value of data quality objectives DQOs Updated regulations and guidance documents throughout Updated survey instrumentation used to support decontamination and decommissioning D D surveys including expanded coverage of in situ gamma spectrometers Revised statistics chapter that includes an introduction to Bayesian statistics and additional double sampling and ranked set sampling statistical approaches More case studies and examples throughout Implement the Surveys Effectively and Avoid Common Pitfalls With more than 20 years of experience as a

practitioner in the decommissioning survey field author Eric W Abelquist prepares you for the technical challenges associated with planning and executing MARSSIM surveys He discusses the application of statistics for survey design and data reduction and addresses the selection of survey instrumentation and detection sensitivity He presents final status survey

Decommissioning Handbook William J. Manion, Thomas S. LaGuardia, 1980 Decommissioning Handbook. First Quarterly Progress Report, May 1--August 27, 1978, 1978 The objectives for this reporting period were to develop data on facilities and equipment at typical DOE owned operated sites and to contact individuals and organizations with decommissioning experience to explore state of the art equipment and methods for decontamination and dismantling Nuclear Energy Services has scheduled meetings in September at the DOE Richland office to meet with other contractors and discuss D and D methods and equipment available Also NES will tour the Hanford facilities to review unique characteristics which may require special treatment or handling A tour of the West Valley NY Reprocessing Plant has also been scheduled During this report period NES prepared drafts of handbook chapters which will be submitted to DOE Results of the discussions mentioned above will be factored into the draft handbook chapters on metal cutting equipment concrete demolition methods and decontamination processes Four handbook chapters are ready for submission to DOE These include estimation of radioactive inventory removal of radioactive metals removal of radioactive concrete and cost estimating procedure

Decommissioning Health Physics Eric W. Abelquist, 2001-07-04 Decommissioning Health Physics presents many of the technical issues and challenges that arise during the planning and implementation of decommissioning and decontamination D D projects The focus is on the final status survey performed during the later stages of decommissioning projects It expands upon and provides greater technical detail than Multi Agency Radiation Survey and Site Investigation Manual MARSSIM in areas of survey design strategies Featuring a number of completely worked examples of final status survey strategies the book prepares the reader for the real world application of MARSSIM at D D projects One chapter is devoted to the specific decommissioning concerns relevant to specific facility types power reactors uranium and thorium facilities and sites and universities or other research facilities The book thoroughly discusses practical applications of statistics in the context of decommissioning projects from elementary statistics to hypothesis testing for a number of applications including data comparisons between the regulator and licensee normality testing of the data and survey unit compliance decisions Decommissioning Health Physics will be beneficial for the planners designers and reporters of final status survey results as well as health physics technicians who will benefit from practical chapters on instrumentation and survey procedures

NMSS Handbook for Decommissioning Fuel Cycle and Materials Licensees, 2006 The US Nuclear Regulatory Commission amended its regulations to set forth the technical and financial criteria for decommissioning licensed nuclear facilities These regulations were further amended to establish additional recordkeeping requirements for decommissioning to establish timeframes and schedules for the decommissioning and to clarify that financial assurance requirements must be in

place during operations and updated when licensed operations cease Reviews of the Site Decommissioning Management Plan SDMP program found that while the NRC staff was overseeing the decommissioning program at nuclear facilities in a manner that was protective of public health and safety progress in decommissioning many sites was slow As a result NRC determined that formal written procedures should be developed to facilitate the timely decommissioning of licensed nuclear facilities This handbook was developed to aid NRC staff in achieving this goal It is intended to be used as a reference document to and in conjunction with NRC Inspection Manual Chapter IMC 2605 Decommissioning Inspection Program for Fuel Cycle and Materials Licensees The policies and procedures discussed in this handbook should be used by NRC staff overseeing the decommissioning program at licensed fuel cycle and materials sites formerly licensed sites for which the licenses were terminated sites involving source special nuclear or byproduct material subject to NRC regulation for which a license was never issued and sites in the NRC s SDMP program NRC staff overseeing the decommissioning program at nuclear reactor facilities subject to regulation under 10 CFR Part 50 are not required to use the procedures discussed in this handbook

Division of Environmental Control Technology Program ,1980 Radioactive Waste Management ,1981
Decommissioning of Nuclear Power Plants and Research Reactors International Atomic Energy Agency,1999 This Safety Guide addresses the subject of how to meet the requirements for decommissioning of nuclear power plants and research reactors It provides guidance to national authorities and operating organizations on the planning and safe management of the decommissioning of such installations ORNL-EIS ,1981 **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes WM'94 ,1994 **Decommissioning of Medical, Industrial and Research Facilities** International Atomic Energy Agency,1999 This Safety Guide addresses the subject of how to meet the requirements for the decommissioning of medical industrial and research facilities where radioactive materials and sources are produced received used and stored It provides guidance to national authorities and operating organizations particularly to those in developing countries as such facilities are predominant in these countries on the planning and safe management of the decommissioning of such facilities **Federal Register** ,2002 **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 *Nuclear Engineering International* ,1979 *Division of Environmental Control Technology Program* ,1980 *Journal of Tribology* ,2005

The Top Books of the Year The Decommissioning Handbook The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. The Decommissioning Handbook : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. The Decommissioning Handbook : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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The Decommissioning Handbook Introduction

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