

General Containment Design Considerations, SSPC-Guide 6

TABLE 19 – WATER-BLASTING/WATER-JETTING
COMBINATIONS OF CONTAINMENT AND VENTILATION SYSTEM COMPONENTS

Containment Classification	Containment System					Ventilation (5.4 of SSPC-Guide 6)				
	5.3.1 Containment Materials	5.3.2 Penetrability	5.3.3 Support Structure	5.3.4 Joints	5.3.5 Bridgeway	5.4.1 Air Make-Up	5.4.2 Input Air Flow	5.4.3 - Air Pressure	5.4.4 Air Movement	5.4.5 Exhaust Dual Filtration
Class 1W	A.1 - Rigid A.2 - Flexible	B1 - Air Impermeable AND B2a - Water Impermeable	G1 - Rigid G2 - Flexible	D1 - Full Seal	E2 - Penetrable	F2 - Open	G1 - Forced G2 - Natural	H2 - Visual Verification	I1 - Minimum Specified	J1 - Air Filtration
Class 2W	A.1 - Rigid A.2 - Flexible	B2a - Water Impermeable	G1 - Rigid G2 - Flexible	D1 - Full Seal	E3 - Overlap	F2 - Open	G2 - Natural	H3 - Not Required	I2 - Not Specified	J2 - Not Required
Class 3W	A.1 - Rigid A.2 - Flexible	B2a - Water Impermeable	G3 - All metal	E2 - Partial Seal	E4 - Open Seam	F2 - Open	G2 - Natural	H3 - Not Required	I2 - Not Specified	J2 - Not Required
Class 4W	A.1 - Rigid A.2 - Flexible	B2a - Water Permeable	G2 - Flexible	D2 - Partial Seal	E4 - Open Seam	F2 - Open	G2 - Natural	H3 - Not Required	I2 - Not Specified	J2 - Not Required

Note 1: When designing a ventilation system, care must be taken to balance the static pressure with the input airflow to avoid collapsing the containment or shut-work due to a high negative pressure.

Note 2: The table occasionally identifies two options for a given component. For example, containment materials (5.3.1) are shown as being either rigid or flexible. If the application requires the use of rigid materials only, this restriction must be specified separately.

Note 3: Class 4W will capture dust/drips and chips and debris, but will not contain the water used for cleaning. When vacuum shrouded blasting is employed, ground covers or the hanging tarpaulins may provide controls equivalent to Class 1W.

Containment Systems A Design Guide

Jicheng Xie



Containment Systems A Design Guide:

Containment Systems Nigel Hirst, Martyn Ryder, Mike Brocklebank, 2002-12-04 Containment Systems A Design Guide is the only book that covers containment specifically for the process industries This Guide covers the range of containment equipment from simple air flow control devices to enclosures that restrict exposures to well below a microgram per cubic meter averaged over a working day The selection of a particular containment system for a particular transfer operation can be difficult because of the wide choice available This Guide provides a structured approach to the selection process Covers the legislation for containment guidelines in the US UK and Europe Provides an exhaustive list of containment equipment including chapters on maintenance and reliability Shows the engineer how to develop a containment strategy for his her plant

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Containment Systems Hurst, 2002-09-01 **Guidelines for Safe Handling of Powders and Bulk Solids** CCPS (Center for Chemical Process Safety), 2010-08-13 Powders and bulk solids handled widely in the chemical pharmaceutical agriculture smelting and other industries present unique fire explosion and toxicity hazards Indeed substances which are practically inert in consolidated form may become quite hazardous when converted to powders and granules The U S Chemical Safety and Hazard Investigation Board is currently investigating dust explosions that occurred in 2003 at WestPharma CTA Acoustics and Hayes Lemmerz and is likely to recommend that companies that handle powders or whose operations produce dust pay more attention to understanding the hazards that may exist at their facility This new CCPS guidelines book will discuss the types of hazards that can occur in a wide range of process equipment and with a wide range of substances and will present measures to address these hazards

Design Guidelines for Conventional Pump-and-treat Systems, 1997 *The ELSI Handbook of Nanotechnology* Chaudhery Mustansar Hussain, 2020-03-31 This Handbook focuses on the recent advancements in Safety Risk Ethical Society and Legal Implications ESI as well as its commercialization of nanotechnology such as manufacturing Nano is moving out of its relaxation phase of scientific route and as new products go to market organizations all over the world as well as the general public are discussing the environmental and health issues associated with nanotechnology Nongovernmental science organizations have long since reacted however now the social sciences have begun to study the cultural portent of nanotechnology Societal concerns and their newly

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Design guidelines for conventional pumpandtreat systems , NRC Regulatory Guides U.S. Nuclear Regulatory Commission,1973 A compilation of currently available electronic versions of NRC regulatory guides

Active Pharmaceutical Ingredients Stanley Nusim,2016-04-19 To successfully bring an Active Pharmaceutical Ingredient API to market many steps must be followed to ensure compliance with governmental regulations This book is an unparalleled guide to the development manufacturing and regulation of the preparation and use of APIs globally This secoond edition brings readers up to date with the quality control regulations for APIs that have been added or amended since the first edition These updates help ensure that pharmaceutical professionals and drug manufacturers meet the established and required guidelines set forth by the US and international regulatory industries

Design Guide for Category IV Reactors ,1979 Dust Explosion Prevention and Protection: A Practical Guide John Barton,2002-03-06 Originally published in three volumes by the Institution of Chemical Engineers from 1985 to 1988 this guide formed the first authoritative and comprehensive guide for dust explosion prevention and protection for engineers scientists safety specialists and managers This guide is a compilation of current best practices for measures to prevent dust explosions from occurring and if they do occur to protect the plant and personnel from their destructive effects by applying the techniques of explosion containment explosion suppression and explosion venting Included is new material on the containment and venting of dust explosions This guide helps those responsible for the design supply and operation of process plants to comply with the provisions of health and safety legislation Dust explosions can occur anywhere where combustible powders are handled such as coal wood flour starch sugar rubber plastics some metals and pharmaceuticals Three classic volumes combined into one handy guide Contains all of the best practices for preventing dust explosionsIncludes in depth material that outlines how to protect the plant and its resources from explosions

Practical Guide to Geo-Engineering Milutin Srbulov,2014-04-07 This handy reference manual puts a wealth of ready to use information data and practical procedures within immediate reach of geo engineers and technicians whether they be in the field or office It assembles and organizes the most needed set of equations tables graphs and check lists on six major subfields of geo engineering investigations testing properties hazards structures and works This practical reference for the professional and others interested in the subject of ground engineering skips lengthy definitions to highlight best practice and methods proven most effective While reflecting codes and standards it also fills the gaps with non standard approaches when existing ones are skimpy on practical details or agreement Enhanced by 146 illustrations and 83 tables the Practical Guide to Geo Engineering points users to supporting information and data

through its extensive reference list Audience This book is of interest to everyone involved in practical geo engineering

Index of U.S. Nuclear Standards William J. Slattery,1977 Process Automation Handbook Jonathan Love,2007-12-22

This book distils into a single coherent handbook all the essentials of process automation at a depth sufficient for most practical purposes The handbook focuses on the knowledge needed to cope with the vast majority of process control and automation situations In doing so a number of sensible balances have been carefully struck between breadth and depth theory and practice classical and modern technology and technique information and understanding A thorough grounding is provided for every topic No other book covers the gap between the theory and practice of control systems so

comprehensively and at a level suitable for practicing engineers Nuclear Safety ,1975 *Energy Research Abstracts* ,1986 **Radioactive Waste Management** ,1995-04 Recombinant DNA Research National Institutes of Health

(U.S.),1976 Record of correspondence proceedings of conferences guidelines proposed and released public announcements etc documenting the role of the National Institutes of Health in the development and promulgation of the guidelines of June 23 **International Atomic Energy Agency Publications** International Atomic Energy Agency,2008 **Nuclear**

Engineering Handbook Kenneth D. Kok,2009-06-09 Nuclear power has in recent years undergone a major transformation resulting in major technical developments and a new generation of nuclear scientists and engineers A comprehensive book that reflects the latest nuclear technologies has been lacking until now The Nuclear Engineering Handbook is a response to this global resurgence of interest in commercial nuclear power A broad overview of nuclear power and engineering and their limitless potential this basic introduction to the field provides an in depth discussion of power plants and extensive coverage of the nuclear fuel cycle waste disposal and related engineering technologies Organized into three sections Nuclear Power Reactors Nuclear Fuel Cycle Processes and Facilities and Engineering and Analytical Applications this book addresses the entire nuclear fuel cycle and process Topics include everything from the mining milling and enrichment of uranium and thorium fuel resources to fuel fabrication nuclear materials transportation fuel reprocessing and safe waste disposal This all encompassing volume discusses current analytical techniques related to nuclear engineering addressing safety heat transfer shielding thermo hydraulics and heat physics Covering reactor operation and radiation protection it also outlines the economic considerations involved in building new nuclear power stations instead of large fossil fueled plants and elaborates on concerns regarding the control of emissions from the latter A review of past and current nuclear engineering capabilities this valuable resource covers the gamut of crucial topics including historical perspectives a detailed technological review and an assessment of the field s future direction It is an exceptional tool that will help readers to foster optimal understanding and use of nuclear power for electricity generation now and in the future

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