

Guidelines For Process Safety In Bioprocess Manufacturing Facilities Author Center For Chemical Process Safety Ccps Dec 2010

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 Essential Practices for Creating, Strengthening, and Sustaining Process Safety Culture

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Guidelines for Process Safety Documentation John Wiley & Sons

It is crucial for process safety professionals to be aware of best practices for post merger integration at any level. A compilation of industry best practices from both technical and financial perspectives, this book provides a single reference that addresses acquisitions and merger integration issues related to process safety. Presently, there are limited references on how to handle acquisitions in several different CCPS publications and almost no coverage of the post-merger integration issue, so this reference fills a notable gap in the coverage.

Guidelines for Process Safety During the Transient Operating Mode John Wiley & Sons

The definitive leadership guide on safe practices The release of chemicals and other hazardous materials pose significant, potentially catastrophic threats worldwide. An alarming number of such events, all of which are preventable, occur too often. Reducing the frequency of serious incidents is a fundamental responsibility of leadership at all levels, from frontline managers and supervisors to C-suite executives and the board of directors as well. Process Safety Leadership from the Boardroom to the Frontline is a practical, authoritative guide that clearly demonstrates how to create a viable culture of safety within an organization, implement and maintain disciplined management systems, and address the risks of process safety deficiencies. The most important factor in any management system is leadership. For chemical process safety management, effective and informed leadership provides direction, reinforces commitment, and drives responsibility. Written by experts from the Center for Chemical Process Safety, the world's largest provider of engineering curriculum materials for process safety, this pragmatic book contains the critical information and guidelines required to lead and manage process safety. Detailed yet accessible chapters examine topics such as strengthening management system accountability, driving operation within constraints, ensuring corporate memory, verifying execution, and more. Designed to be frequently used, shared, and discussed by leadership teams throughout an organization, this indispensable resource:

Demonstrates the many ways process safety benefits an organization, based on benchmarking and broad industrial experience Develops skills and expands knowledge needed to drive consistent, reliable process safety performance Describes essential behaviors and actions for leaders to drive excellence in process safety cultures and disciplined management systems Helps establish risk criteria and safeguards for companies Presents new and previously unpublished experiences, approaches, and thinking Written for executives, plant leaders, functional managers, frontline supervisors and also individual contributors, Process Safety Leadership from the Boardroom to the Frontline provides a much-needed guide for instituting safe practices within a company. The Center for Chemical Process Safety (CCPS) has been the world leader in developing and disseminating information on process safety management and technology since 1985. The CCPS, an industry technology alliance of the American Institute of Chemical Engineers (AIChE), has published over 100 books in its process safety guidelines and process safety concepts series, and over 10 training modules through its Safety in Chemical Engineering Education (SACHE) series.

Guidelines for Process Safety Documentation John Wiley & Sons

This book discusses the fundamental skills, techniques, and tools of auditing, and the characteristics of a good process safety management system. A variety of approaches are given so the reader can select the best methodology for a given audit. This book updates the original CCPS Auditing

Guideline project since the implementation of OSHA PSM regulation, and is accompanied by an online download featuring checklists for both the audit program and the audit itself. This package offers a vital resource for process safety and process development personnel, as well as related professionals like insurers.

Guidelines for Safe Process Operations and Maintenance John Wiley & Sons

It is crucial for process safety professionals to be aware of best practices for post merger integration at any level. A compilation of industry best practices from both technical and financial perspectives, this book provides a single reference that addresses acquisitions and merger integration issues related to process safety. Presently, there are limited references on how to handle acquisitions in several different CCPS publications and almost no coverage of the post-merger integration issue, so this reference fills a notable gap in the coverage.

Guidelines for Technical Management of Chemical Process Safety John Wiley & Sons

An essential guide that offers an understanding of and the practices needed to assess and strengthen process safety culture Essential Practices for Developing, Strengthening and Implementing Process Safety Culture presents a much-needed guide for understanding an organization's working culture and contains information on why a good culture is essential for safe, cost-effective, and high-quality operations. The text defines process safety culture and offers information on a safety culture's history, organizational impact and benefits, and the role that leadership plays at all levels of an organization. In addition, the book outlines the core principles needed to assess and strengthen process safety culture such as: maintain a sense of vulnerability; combat normalization of deviance; establish an imperative for safety; perform valid, timely, hazard and risk assessments; ensure open and frank communications; learn and advance the culture. This important guide also reviews leadership standards within the organizational structure, warning signs of cultural degradation and remedies, as well as the importance of using diverse methods over time to assess culture. This vital resource: Provides an overview for understanding an organization's working culture Offers guidance on why a good culture is essential for safe, cost-effective, and high quality operations Includes down-to-earth advice for recognizing, assessing, strengthening and sustaining a good process safety culture Contains illustrative examples and cases studies, and references to literature, codes, and standards Written for corporate, business and line managers, engineers, and process safety professionals interested in excellent performance for their organization, Essential Practices for Developing, Strengthening and Implementing Process Safety Culture is the go-to reference for implementing and keeping in place a culture of safety.

Guidelines for Defining Process Safety Competency Requirements John Wiley & Sons

There is much industry guidance on implementing engineering projects and a similar amount of guidance on Process Safety Management (PSM). However, there is a gap in transferring the key deliverables from the engineering group to the operations group, where PSM is implemented. This book provides the engineering and process safety deliverables for each project phase along with the impacts to the project budget, timeline and the safety and operability of the delivered equipment.

Guidelines for Process Safety in Bioprocess Manufacturing Facilities John Wiley & Sons

Use this guideline to develop an effective Process Safety Knowledge Management system When managing the risks of hazardous materials and energies, a well-developed process safety program is critical for maintaining a healthy workforce, for protecting the environment, and for sustaining the business. The Center for Chemical Process Safety (CCPS) has identified Process Knowledge Management as one of its twenty Elements in its Risk Based Process Safety (RBPS) approach. With an effective Process Safety Knowledge Management (PSKM) system, an organization will be able to

capture, organize, maintain, and access its technical, engineering, and administrative information. Thus, an effective PSKM system will help an organization successfully manage its risks. This book provides a set of comprehensive guidelines for implementing a Process Safety Knowledge Management (PSKM) system, which will help an organization improve its process safety performance. The book begins with a discussion on the characteristics of a PSKM system. Then it describes the underlying factors for successful implementation and ends with guidance on overcoming common implementation difficulties. Produced by a leading global process safety organization, this book is essential for any organization looking to ensure that systems are in place to sustain their process safety knowledge during the life of the process. Guidelines for Process Safety Knowledge Management readers will also find: Case studies throughout the book, with PSKM-related lessons Detailed discussions of how a PSKM system helps cultivate leadership, improves organizational culture, and involves employees A business case for PSKM, demonstrating the benefits to the business Guidelines for Process Safety Knowledge Management is ideal for process safety professionals, engineering managers, facility managers, maintenance managers, production managers, and others responsible for creating or managing their process safety knowledge management systems.

Guidelines for Process Safety in Outsourced Manufacturing Operations John Wiley & Sons This book provides a comprehensive treatment of investing chemical processing incidents. It presents on-the-job information, techniques, and examples that support successful investigations. Issues related to identification and classification of incidents (including near misses), notifications and initial response, assignment of an investigation team, preservation and control of an incident scene, collecting and documenting evidence, interviewing witnesses, determining what happened, identifying root causes, developing recommendations, effectively implementing recommendation, communicating investigation findings, and improving the investigation process are addressed in the third edition. While the focus of the book is investigating process safety incidents the methodologies, tools, and techniques described can also be applied when investigating other types of events such as reliability, quality, occupational health, and safety incidents.

Guidelines for Process Safety Metrics John Wiley & Sons

Over the years, companies have developed independent systems for managing process safety, environment, health, safety, and quality. Many aspects of these management systems are similar. Integrating EHS management systems can yield economies and improved system effectiveness. This book explains how integration reduces cost of delivery through a reduction in the number of management program steps and avoidance of redundancy; how it results in more effective programs, since the best practices can be combined into a single process; and how this integration brings a faster, and more cost effective response to new demands.

Guidelines for Process Safety Acquisition Evaluation and Post Merger Integration John Wiley & Sons Guidelines for the Management of Change for Process Safety provides guidance on the implementation of effective and efficient Management of Change (MOC) procedures, which can be applied to improve process safety. In addition to introducing MOC systems, the book describes how to design an initial system from scratch, including the scope of the system and the applications over a plant life cycle and the boundaries and overlaps with other process safety management systems. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Process Safety Leadership from the Boardroom to the Frontline John Wiley & Sons

Produced by the Center for Chemical Process Safety (CCPS), this volume provides examples of management systems for chemical process safety programs that are currently in place or that have been successfully used at chemical plants. The guidelines are directed toward all those individuals who are res

Guidelines for Investigating Process Safety Incidents John Wiley & Sons

The process industry has developed integrated process safety management programs to reduce or eliminate incidents and major consequences, such as injury, loss of life, property damage, environmental harm, and business interruption. Good documentation practices are a crucial part of retaining past knowledge and experience, and avoiding relearning old lessons. Following an introduction, which offers examples of how proper documentation might have prevented major explosions and serious incidents, the 21 sections in this book clearly present aims, goals, and methodology in all areas of documentation. The text contains examples of dozens of needed forms, lists of relevant industry organizations, sources for software, references, OSHA regulations, sample plans, and more.

Guidelines for Engineering Design for Process Safety John Wiley & Sons

Process safety metrics is a topic of frequent conversation within chemical industry associations. Guidelines for Process Safety Metrics provides basic information on process safety performance indicators, including a comprehensive list of metrics for measuring performance and examples as to how they can be successfully applied over both the short and long term. For engineers, insurers, corporate trainers, military personnel, government officials, students, and managers involved in production, product and process development, Guidelines for Process Safety Metrics can help determine appropriate metrics useful in monitoring performance and improving process safety programs. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook

file.

Guidelines for Managing Process Safety Risks During Organizational Change John Wiley & Sons More Incidents that Define Process Safety book describes over 50 incidents which have had a significant impact on the chemical industry as well as the basic elements of process safety. Each incident is presented in sufficient detail to gain an understanding of root causes for the event with a focus on lessons learned and the impact the incident had on process safety. Incidents are grouped by incident type including Reactive chemical; Fires; Explosions; Environmental/toxic releases; and Transportation incidents. The book also covers incidents from other industries that illustrate the safety management elements. The book builds on the first volume and adds incidents from China, India, Italy and Japan. Further at the time the first volume was being written, CCPS was developing a new generation of process safety management elements that were presented as risk based process safety; these elements are addressed in the incidents covered.

Guidelines for Risk Based Process Safety American Institute of Chemical Engineers

In today's competitive economy, companies often augment in-house production by outsourcing chemical reaction processes and distillation, drying, formulating, blending, and packaging operations. While most of these tolling, or contracted manufacturing services, proceed without incident, recent major accidents have pointed to weaknesses in some tolling arrangements, such as reactivity of materials and processes. This Guidelines book provides the reader with proven procedures to improve process safety throughout the life cycle of a contracted manufacturing operation. Extensive checklists and examples used throughout the book make it a valuable learning tool and reference for companies conducting toll manufacturing, or considering outsourcing manufacturing operations.

Guidelines for Safe Automation of Chemical Processes John Wiley & Sons

Guidelines for Risk Based Process Safety provides guidelines for industries that manufacture, consume, or handle chemicals, by focusing on new ways to design, correct, or improve process safety management practices. This new framework for thinking about process safety builds upon the original process safety management ideas published in the early 1990s, integrates industry lessons learned over the intervening years, utilizes applicable "total quality" principles (i.e., plan, do, check, act), and organizes it in a way that will be useful to all organizations - even those with relatively lower hazard activities - throughout the life-cycle of a company.

Guidelines for Siting and Layout of Facilities John Wiley & Sons

The causes of catastrophic accidents in the process industries, now recognized as complex and interrelated, need to be matched by multi-faceted technical management systems. These principles apply to companies of any size and to a full range of industries beyond the chemical industry, such as pulp and paper, electronics, oil and gas. This book supplements the systematic approach to process safety management set out in previous CCPS publications -- A CHALLENGE TO COMMITMENT, GUIDELINES FOR TECHNICAL MANAGEMENT OF CHEMICAL PROCESS SAFETY, and PLANT GUIDELINES FOR TECHNICAL MANAGEMENT OF CHEMICAL PROCESS SAFETY.

Guidelines for Process Safety Acquisition Evaluation and Post Merger Integration John Wiley & Sons

This updated version of one of the most popular and widely used CCPS books provides plant design engineers, facility operators, and safety professionals with key information on selected topics of interest. The book focuses on process safety issues in the design of chemical, petrochemical, and hydrocarbon processing facilities. It discusses how to select designs that can prevent or mitigate the release of flammable or toxic materials, which could lead to a fire, explosion, or environmental damage. Key areas to be enhanced in the new edition include inherently safer design, specifically concepts for design of inherently safer unit operations and Safety Instrumented Systems and Layer of Protection Analysis. This book also provides an extensive bibliography to related publications and topic-specific information, as well as key information on failure modes and potential design solutions.

Guidelines for the Management of Change for Process Safety John Wiley & Sons

An understanding of organizational change management (OCM) — an often overlooked subject — is essential for successful corporate decision making with little adverse effect on the health and safety of employees or the surrounding community. Addressing the myriad of issues involved, this book helps companies bring their OCM systems to the same degree of maturity as other process safety management systems. Topics include corporate standard for organizational change management, modification of working conditions, personnel turnover, task allocation changes, organizational hierarchy changes, and organizational policy changes.

Guidelines for Risk Based Process Safety John Wiley & Sons

This book has been written to address many of the developments since the 1st Edition which have improved how companies survey and select new sites, evaluate acquisitions, or expand their existing facilities. This book updates the appendices containing both the recommended separation distances and the checklists to help the teams obtain the information they need when locating the facility within a community, when arranging the processes within the facility, and when arranging the equipment within the process units.