



IMPLEMENTING THE HIERARCHY OF CONTROLS FOR WASTEWATER WORKER PROTECTION



Engineering Controls

- Use physical barriers to prevent worker exposure to splashes or sprays of potentially contaminated waste water.
- Enclose processes that may generate potentially infectious aerosols (e.g., mixing zones, tank discharge points, pressurized lines).
- Use ventilation equipment to remove contaminated air from the work environment.



Administrative Controls and safe work practices

TRAINING

- Wash hands with soap and water: immediately after handling waste or sewage, *before* eating or drinking, and *before* and *after* using the toilet.
- Avoid touching face, mouth, eyes, nose, or open sores and cuts while handling sewage.
- Before eating, remove work clothes and eat in designated areas.
- Do **not** smoke or chew tobacco/gum.
- Keep open sores, cuts, and wounds covered with clean, dry bandages.
- Remove work clothes before leaving worksite.
- Make appropriate vaccines available, such as those for tetanus, polio, typhoid fever, Hepatitis A and B, and influenza.



Personal Protective Equipment

TRAINING



Goggles



Rubber boots



Liquid repellent coveralls and gloves



Face mask or face shield

- PPE required changes with task, work site, and potential exposures.
- Train workers on how to properly put on, use/wear, and take off PPE, as well as how to clean/disinfect, maintain, store, and dispose of PPE.
- Other types of PPE may be needed to ensure a fully protective ensemble.

IF WORKERS ARE EXPOSED TO WASTE OR SEWAGE

- Gently flush eyes with clean water if sewage contacts eyes.
- Wash cuts and abrasions with soap and water.
- Consider providing workers with post-exposure evaluation and follow-up care, especially for sharps or puncture injuries.
- Clean contaminated work clothing daily with 0.05% chlorine solution.

Wastewater Treatment Plant Safety Manual

Raffaella Di Napoli



Wastewater Treatment Plant Safety Manual:

Safe Work Practices for Wastewater Treatment Plants, Second Edition Frank R. Spellman, 2000-10-31 This book provides information on the U S government s Occupational Safety and Health Administration s safety programs It details how to start and maintain a safety program in a municipal or industry based water or wastewater plant with special emphasis on the practical elements of implementation Revisions include the changing OSHA regulations and recommendations and new sections on ergonomics hypochlorites and bisulfites and confined space entry techniques and new information on health hazards Highlights include safety programs recordkeeping safety training safety equipment and safe work practices for wastewater treatment facilities

Management Guide to Retrofitting Wastewater Treatment Plants Lawrence E. Quick, 2024-11-15 FROM THE PREFACE Since Federal funding is scarce for massive upgrades and or complete new Wastewater Treatment Plants WWTP construction treatment plant operators superintendents managers city councils boards etc must get more creative on funding and coordinating process equipment replacements Contained herein you will find hints tactics and procedures aimed at getting the biggest bang for your public buck During the 1970s and 1980s through grants the Federal Government paid 80% of costs to build new or expanded wastewater treatment plants pumping stations and collection system renovations The majority of the grants were to upgrade primary treatment facilities to secondary and secondary to tertiary treatment status based on Clean Water Act regulations If your facility was fortunate enough to receive grants you were in good shape for approximately 20 to 30 years depending on community growth rates Since most wastewater treatment facilities are designed to last 20 years many of the new or expanded facilities in the 70 s and 80 s are reaching the end of their service life Some may have reached it sooner due to growth beyond the expected rate inadequate preventive maintenance or design inadequacies when built Now you have identified problems with insufficient aeration capacity equipment mechanical failure insufficient pump station capacity infrastructure deterioration etc and need to do something about it before you violate your NPDES permit if you have not already This equipment seems very costly to replace because you now must pay 100% opposed to 20% with the grants Many WWTP are in need of replacement and or upgraded equipment The equipment itself is typically about 25% to 50% of the total project cost This cannot be changed much However the remaining 50% to 75% engineering installation labor costs and project management may be whittled down dependent on how active and creative the project coordinator yourself wants to be in the process When EPA funded 80% of project costs in prior years it was no big deal to have an open pocketbook attitude Those days have changed forever and so have procurement procedures for projects A Management Guide to Retrofitting Wastewater Treatment Plants is geared towards the managerial and administrative scope of a Lead Operator Superintendent Facility Manager type of Wastewater individual All the junior college courses available practical operator experience and certification status will still not offer the opportunity to learn administrative and cost savings techniques similar to operating a business But soon your

job may demand these skills This book is a handy reference for making the task of upgrading retrofitting wastewater process equipment easier and less costly It includes ideas for selling upgrade ideas to superiors pre and post project activities and certain management techniques useful for successful retrofitting or upgrading in past projects This book should prove helpful to those who find themselves involved in retrofitting their facility and need assistance on resolving facility problems including treatment plant operators superintendents managers city council members and boards It is also a valuable reference guide for municipal operations individuals who want to retain control of their facilities but don't quite know how It was written with the front line operator superintendent and manager in mind in common operator language in order to allow easier understanding It contains many tips and techniques which operators can implement immediately

A Guide to Compliance for Process Safety Management/Risk Management Planning (PSM/RMP) Frank R. Spellman, 1998-06-03

Establishing maintaining and refining a comprehensive Process Safety Management PSM and Risk Management Program RMP is a daunting task The regulations are complicated and difficult to understand The resources available to manage your program are limited Your plant could be the target of a grueling PSM and RMP compliance audit by OSHA and or the EPA which could scrutinize your facility according to their stringent audit guidelines Ask yourself some questions Is your municipal plant or industrial facility ready to meet new OSHA and EPA PSM RMP regulations Do you understand OSHA's and EPA's requirements Do you know how OSHA EPA are interpreting PSM RMP requirements Are you prepared for a possible audit Is your existing PSM RMP comprehensive maintainable and cost effective If you answered no to any of these you need the expert guidance provided by A Guide to Compliance for Process Safety Management Risk Management Planning PSM RMP In recent years chemical accidents that involved the release of toxic substances have claimed the lives of hundreds of employees and thousands of others worldwide In order to prevent repeat occurrences of catastrophic chemical incidents OSHA and the USEPA have joined forces to bring about the OSHA Process Safety Management Standard PSM and the USEPA Risk Management Program RMP Chemical disaster situations can occur due to human error in system operation and or a malfunction in system equipment Other emergency situations that must also be considered and planned for include fire floods hurricanes earthquakes tornadoes snow ice storms avalanches explosions truck accidents train derailments airplane crashes building collapses riots bomb threats terrorism and sabotage Be prepared Determine the differences and similarities between OSHA's PSM and EPA's RMP regulations Survey your facility to determine your needs Plug your site specific data into regulation templates Prepare your data records for your PSM compliance package Calculate your Worst Case scenarios Assemble a viable PSM program in a logical sequential and correct manner Supervise program implementation elements with the overall management system This user friendly plain English straightforward guide to new EPA and OSHA regulations describes explains and demonstrates a tested proven workable methodology for installation of complete correct safety and risk programs It provides the public administrator plant manager plant engineer and organization safety professionals with

the tool needed to ensure full compliance with the requirements of both regulations Those with interests in HazMat response and mitigation procedures will also find it of use This guidebook is designed to be applicable to the needs of most operations involved in the production use transfer storage and processing of hazardous materials It addresses Process Safety Management and Risk Management Planning for facilities handling hazardous materials and describes the activities and approach to use within U S plants and companies of all sizes From the Author This guidebook is designed to enable the water wastewater and general industry person who has been assigned the task of complying with these new rules to accomplish this compliance effort in the easiest most accurate manner possible A Guide to Compliance for Process Safety Management Risk Management Planning PSM RMP is user friendly This How To Do It guide will assist those who are called upon to design develop and install PSM and RMP systems within their companies or plants It describes explains and demonstrates a proven methodology an example that actually works and has been tested More than anything else this guidebook really is a Template It provides a pattern that can be used to devise a compliance package that is accurate Simply stated like the standard template this guidebook can provide the foundation the border the framework from which any covered organization s PSM and RMP effort can be brought into proper compliance The user simply plugs in site specific information into the model presented in this guidebook This guidebook first shows that PSM and RMP are similar and are interrelated in many ways and different in only a few ways Many of the processes listed in PSM are also listed in RMP the additional RMP processes are in industry sectors that have a significant accident history Along with showing the similarities and interrelationships between PSM and RMP the requirements of RMP that are in addition to those listed in PSM are discussed This guidebook also discusses the RMP requirement for off site consequence analysis and the methodology that can be utilized in performing it If the PSM project team follows this format it will be able to assemble a viable PSM program in a logical sequential and correct manner

Safety Health and Security in Wastewater Systems, Sixth Edition, MOP 1 Water Environment

Federation, 2012-10-05 The Definitive Guide to Safety for the Wastewater Industry Safety Health and Security in Wastewater Systems Sixth Edition provides the critical information necessary for regulatory compliance reduction of liability reduction of costs and prevention of injury and illness Complete details on biological hazards confined space entry personal protective equipment safe work procedures hazardous waste management and other essential topics are included The most comprehensive volume on the subject available this Water Environment Federation resource is based on real world experience and best work practices Coverage includes Introduction to health and safety Safety and health programs Identifying and predicting hazards Safety and health in wastewater treatment plant operation Safety and health in wastewater treatment plant maintenance Safety and health in sewer collections and remote locations Commercial and powered industrial vehicles Biological hazards at wastewater treatment facilities Hazardous materials and waste management Personal protective equipment Coordination with other agencies and officials Security and emergency

preparedness Manuals Combined: U.S. Coast Guard Marine Safety Manual Volumes I, II and III , Over 2 300 total pages
Titles included Marine Safety Manual Volume I Administration And Management Marine Safety Manual Volume II Materiel
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Provides information on building and running a safety program to protect wastewater treatment workers and comply with
regulations Covers safety responsibilities programs and personal protective equipment safe work procedures system controls
specific safety precautions techniques for pinpointing potential operational and maintenance hazards safety considerations in
design and construction and emergency rescue practices **Safe Work Practices for Wastewater Treatment Plants**
Frank R. Spellman,1996-07-01 Safe Work Practices belongs in every treatment plant as a reference source and guide for
safety program development This user friendly book is the only comprehensive text that details exactly how to incorporate an
entire safety program into a wastewater treatment plant or other industrial setting a task which no other health and safety
text in the field has attempted Presented in a how to do it format emphasis is placed on training and the practical
applications of occupational health safety and safe work practices to hazard control in wastewater treatment and collection
THIS BOOK ANSWERS THE QUESTIONS What types of safety programs are needed at a Wastewater Treatment Facility
What are the health and safety concerns that are unique to the Wastewater Industry What are the applicable regulations
Which safe work practices should be used in the Wastewater Industry Which plant safety programs should be implemented
How should plant safety programs be maintained How can the results be measured THIS TEXT IS DESIGNED FOR THE
INDIVIDUAL WHO MIGHT ASK Where do I start Toxicity Reduction Evaluation Protocol for Municipal Wastewater
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Mansdorf,2019-04-01 A quick easy to consult source of practical overviews on wide ranging issues of concern for those
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EPA-670/9 ,1975-05 *Considerations for Preparation of Operation and Maintenance Manuals* R. L. Green,1973
Publications- a Quarterly Guide ,1978 Field Manual for Performance Evaluation and Troubleshooting at Municipal Wastewater Treatment Facilities Gordon L. Culp,Nancy Folks Heim,1978 Water Quality Instructional Resources Information System (IRIS) ,1979

Wastewater Treatment Plant Safety Manual Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Wastewater Treatment Plant Safety Manual**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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