Guidelines for Process Safety Fundamentals in General Plant Operations

Description: At last, a book that covers safety procedures and standards with information that is rarely available outside of proprietary materials. A comprehensive source for basic and essential operations and procedures in use in any facility, the book offers chemical operators and first line supervisors guidance in applying appropriate practices to prevent accidents, and suggests which practices to avoid.

Contents:

Preface.
Acknowledgments.
Acronyms and Abbreviations.
Glossary.
1. Introduction.
1.1 Objective.
1.2 Scope.
1.3 Organization.
References.
2.1 Hazardous Property Identification.
2.2 Material handling Hazards.
2.2.1 Fire and Explosive Properties.
2.2.2 Chemical Toxicity.
2.2.3 Biological Hazards.
2.2.4 Radiation Hazards.
2.2.5 Electrical Hazards.
2.2.6 Thermal Hazards.
2.2.7 Physical Plant Hazards.
2.3 Material Transport.
2.4 Liquid Handling.
2.4.1 Liquid Transport.
2.4.2 Liquid Storage.
2.4.3 Spill Control and Cleanup.
2.5 Solids Handling.
2.5.1 Storage Procedures.
2.5.2 Transfer Procedures.
2.5.3 Bulk Conveying.
2.5.4 Solids Packaging.
2.6 Gas Handling.
2.6.1 Classification of Gases.
2.6.2 Regulations and Standards.
2.6.3 Gas Containers.
2.6.4 Cylinder Auxiliaries.
2.6.5 Cylinder Handling Procedures.
2.6.6 Handling Hazardous Gases.
2.6.7 Cryogenic Liquids.
2.7 Waste Handling.
2.7.1 Waste Disposal Plan.
2.7.2 Release Reporting.
2.7.3 Scrap and Salvage.
2.7.4 Vessel Decommissioning.
2.7.5 Waste Containers.
References.
3.1 Materials of Construction.
3.1.1 Material Selection.
3.1.2 Material Application.
3.2 Corrosion.
3.2.1 Types of Corrosion.
3.2.2 Sources of Corrosion Information.
3.3 Small Containers.
3.3.1 Container Specification.
3.3.2 Manufacturer's Quality Control.
3.3.3 Receiving.
3.3.4 Emptying of Containers.
3.3.5 Warehousing.
3.3.6 Loading and Shipping.
3.3.7 Disposal of Containers.
3.4 Piping.
3.4.1 Piping Codes and Specifications.
3.4.2 Piping Design Safety.
3.4.3 Piping Installation Safety.
3.4.4 Piping Operation Safety.
3.4.5 Piping Maintenance Safety.
3.5 Transfer Hoses.
3.5.1 Materials of Construction.
3.5.2 Safety in Design and Installation.
3.5.3 Safety in Operation.
3.5.4 Inspection and Maintenance.
3.6 Pumps.
3.6.1 Pump Types.
3.6.2 Pump Design Safety.
3.6.3 Pump Installation Safety.
3.6.4 Pump Operation Safety.
3.6.5 Pump Maintenance Safety.
3.7 Fans and Compressors.
3.7.1 Classification of Gas Movers.
3.7.2 Gas Mover Operating Parameters.
3.7.3 Gas Mover Safety Precautions.
3.8 Drivers.
3.8.1 Motors.
3.8.2 Steam Turbines.
3.8.3 Transmission.
3.9 Filters.
3.9.1 Safety Considerations.
3.9.2 Waste Minimization and Disposal.
3.10 Centrifuges.
3.10.1 Types of Centrifuges.
3.10.2 Design Considerations.
3.10.3 Operation.
3.10.4 Waste Minimization and Disposal.
3.11 Drying and Particle Size Reduction.
3.11.1 Dryers.
3.11.2 Size Reduction Equipment.
3.11.3 Screening Equipment.
3.11.4 Packaging of Hot Materials.
3.11.5 Deflagration Hazards.
3.11.6 Environmental Concerns and Hygiene.
3.12 Instrument and Controls.
3.12.1 I & C Design Safety.
3.12.2 I & C Installation Safety.
3.12.3 I & C Operation Safety.
References.
4. General Topics.
4.1 Inspection, Maintenance, and Calibration.
4.1.1 Inspection Techniques.
4.1.2 Maintenance Manuals.
4.1.3 Preventive Maintenance.
4.1.4 Equipment Calibration.
4.2 Spare Parts and Equipment.
4.2.1 Receiving.
4.2.2 Storage.
4.2.3 Disbursement.
4.3 Storage and Warehousing.
4.3.1 General Storage Techniques.
4.3.2 Stored Materials and Containers.
4.3.3 Material Movement.
4.3.4 Shipping Vehicles.
4.4 Plant Modification.
4.4.1 Change Control Program.
4.4.2 Change/Work Authorization.
4.4.3 Training.
4.5 Hazardous Work.
4.5.1 Confined Space Entry.
4.5.2 Equipment Lockout.
4.5.3 Line Breaking and System Opening.
4.5.4 Hazardous materials.
4.5.5 Welding.
4.6 Outside Contractors.
4.6.1 Contract Language.
4.6.2 Pre- and Postcontract Meetings.
4.6.3 Contractor Safety Programs.
4.6.4 Monitoring.
4.6.5 Training.
4.6.6 HAZCOM and Hazard Analysis.
4.6.7 Enforcement.
4.7 Worker Protection.
4.7.1 Personal Protective Equipment.
4.7.2 Safety Showers and Eyewash Stations.
4.8 Control of Working Environment.
4.8.1 Temperature Extremes.
4.8.2 Oxygen Requirements.
4.8.3 Noise.

References.

5. Cleanup and Process Changeover.
5.1 Process Planning.
5.1.1 Process Development.
5.1.2 System Design.
5.1.3 Production Scheduling.
5.2 Cleanup Methods.
5.2.1 Chemical Cleaning.
5.2.2 Mechanical Cleaning.
5.2.3 Direct Entry.
5.3 Process Changeover.
5.3.1 Process Equipment Compatibility.
5.3.2 Equipment Preparation.

References.

6. Training.
6.1 Reasons for Training.
6.2 Personnel Requiring Training.
6.3 Training Methods.
6.3.1 On-the-job Training.
6.3.2 Group Training Techniques.
6.3.3 Individual Techniques.
6.3.4 School Courses.
6.4 Extent of Training.
6.4.1 Lesson Plans.
6.4.2 Course Outlines.
6.5 Frequency of Training.
6.6 Record Keeping.
6.7 Sources of Training Information.
6.7.1 Seminars.
6.7.2 Printed material.
6.7.3 Audio-Visual Material.
6.7.4 Training Kits.
6.7.5 Computer Software.

References.

7. Special Procedures and Programs.
7.1 Plant Safety Programs and Auxiliary Topics.
7.1.1 Process Hazard Reviews.
7.1.2 Facility and Operational Changes.
7.1.3 Emergency Response.
7.1.4 Permits.
7.1.5 Incident Investigating and Reporting.
7.1.6 Safety Manuals.
7.1.7 Safety Incentives.
7.1.8 Inspections and Reporting of Unsafe Conditions.
7.2 Industrial Programs.
7.3 Voluntary Programs.
7.3.1 Responsible Care®.
7.3.2 Service and Trade Associations.
7.3.3 Technical Societies.
7.4 Regulatory Programs.
7.4.1 Introduction.
7.4.2 Overview.
7.4.3 Examples.
References.
Index.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Guidelines for Process Safety Fundamentals in General Plant Operations
Web Address: http://www.researchandmarkets.com/reports/2181763/
Office Code: SCDKYPE1

Product Format
Please select the product format and quantity you require:

| Quantity | Hard Copy (Hard Back): | USD 106 + USD 29 Shipping/Handling |

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: Mr ☐ Mrs ☐ Dr ☐ Miss ☐ Ms ☐ Prof ☐
First Name: __________________________ Last Name: __________________________
Email Address: * __________________________
Job Title: __________________________________
Organisation: __________________________
Address: __________________________________
City: __________________________________
Postal / Zip Code: __________________________
Country: __________________________________
Phone Number: __________________________
Fax Number: __________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World