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Nota di contenuto	GUIDELINES FOR MECHANICAL INTEGRITY SYSTEMS; CONTENTS; List of Tables; List of Figures; Items on the CD Accompanying This Book; Acronyms and abbreviations; Glossary; Acknowledgments; Preface; Management Overview of the Guidelines; 1 INTRODUCTION; 1.1 What is Mechanical Integrity?; 1.2 Relationship to Other Programs; 1.3 Expectations for the MI Program; LIST OF TABLES; TABLE 1-1 Potential MI Interfaces with Other Programs; 1.4 The Effect of RAGAGEPs; 1.5 Structure of this Guidelines Book; TABLE 1-2 Chapters Addressing Management Systems for MI Activities; 1.6 References 2 MANAGEMENT RESPONSIBILITY 2.1 Facility Leadership's Roles and Responsibilities; 2.1.1 Organizational Roles and Responsibilities; 2.1.2 Roles and Responsibilities Matrix; 2.1.3 Reporting Mechanisms; TABLE 2-1 Roles and Responsibilities Matrix for MI Program Management; 2.1.4 Auditing; 2.2 Technical Assurance Responsibilities; 2.2.1 Defining

Acceptance Criteria; 2.2.2 Providing Technical Content; 2.2.3 Establishing Metrics; LIST OF FIGURES; FIGURE 2-1 Definition of the operating window.; 2.2.4 Ensuring Technical Review; 3 EQUIPMENT SELECTION; 3.1 Reviewing Program Objectives 3.2 Establishing Equipment Selection Criteria 3.3 Defining Level of Detail; 3.4 Documenting the Equipment Selection; 3.5 Equipment Selection Roles and Responsibilities; TABLE 3-1 Example Roles and Responsibilities Matrix for Equipment Selection; Appendix 3A. Sample Guidelines for Selecting Equipment for the MI Program; 4 INSPECTION, TESTING, AND PREVENTIVE MAINTENANCE; 4.1 ITPM Task Planning; 4.1.1 ITPM Task Selection; FIGURE 4-1 ITPM task selection process.; TABLE 4-1 Typical Equipment File Information for Selected Types of Equipment TABLE 4-2 Example ITPM Task Selection Decision Matrix (Ref. 4-1) TABLE 4-3 Factors Affecting ITPM Tasks for Relief Valves, Instrumentation, and Rotating Equipment; 4.1.2 Developing Sampling Criteria; TABLE 4-4 Example ITPM Plan in Tabular Format; 4.1.3 Other ITPM Task Planning Considerations; 4.1.4 ITPM Task Scheduling; 4.2 Task Execution and Monitoring; 4.2.1 Defining Acceptance Criteria; 4.2.2 Equipment and ITPM Task Results Documentation; 4.2.3 ITPM Task Implementation and Execution; 4.2.4 ITPM Task Results Management; 4.2.5 Task Schedule Management; 4.2.6 ITPM Program Monitoring 4.3 ITPM Program Roles and Responsibilities 4.4 References; TABLE 4-5 Example Roles and Responsibilities Matrix for the ITPM Task Planning Phase; TABLE 4-6 Example Roles and Responsibilities Matrix for the ITPM Task Execution and Monitoring Phase; Appendix 4A. Common Predictive Maintenance and Nondestructive Testing Techniques; 5 MI TRAINING PROGRAM; 5.1 Skills/Knowledge Assessment; FIGURE 5-1 Training flow chart.; 5.2 Training For New and Current Workers; 5.3 Verification and Documentation of Training Effectiveness; TABLE 5-1 Training Approach Considerations; 5.4 Certification TABLE 5-2 General Electrician Training Matrix

Sommario/riassunto

In recent years, process safety management system compliance audits have revealed that organizations often have significant opportunities for improving their Mechanical Integrity programs. As part of the Center for Chemical Process Safety's Guidelines series, Guidelines for Mechanical Integrity Systems provides practitioners a basic familiarity of mechanical integrity concepts and best practices. The book recommends efficient approaches for establishing a successful MI program. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.
