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Nota di contenuto	Revalidating Process Hazard Analyses; Contents; Preface; Acknowledgments; Glossary; Acronyms and Abbreviations; Introduction; Why Was This Book Written?; Scope of This Book; The CCPS Workshop; How This Book Is Organized; Chapter 1 Refresher on the Basics; 1.1. What a PHA Is Intended to Accomplish; 1.2. Brief Review of the More Common PHA Methodologies; 1.3. PHA Team Make-up; Chapter 2 Revalidation-What Is It?; 2.1. The Reason for Revalidation; 2.2. Revalidation Objective; 2.3. Revalidation Concept; 2.4. Establishing the Revalidation Schedule; 2.5. The Role of a Revalidation Procedure Chapter 3 Preparing for the Revalidation Study3.1. Preplan the Revalidation; 3.1.1. Establishing the Scope of the Revalidation; 3.1.2. Selection of Team Members; 3.1.3. Scheduling-Estimating Time and Resources; 3.2. Identify, Collect, and Prepare Needed Information; 3.2.1. Determining Information Requirements; 3.2.2. Distribution of information; 3.3. Review and Analyze Information; 3.3.1. Prior PHA Report@) and Related Documentation; 3.3.2. Resolution Completion Report for Prior PHA Recommendations; 3.3.3. MOC and PSSR

Documentation; 3.3.4. PSM System Audit Results
3.3.5. Incident and Near-Miss Reports3.3.6. Piping and Instrument Diagrams (P&IDs); 3.3.7. Operating Procedures; Chapter 4 Evaluating the Prior PHA Study; 4.1. Evaluation of the PHA with Respect to Essential Criteria; 4.1.1. PHA Rigor; 4.1.2. Methodology Used; 4.1.3. Team Make-up; 4.1.4. Documentation; 4.1.5. Drawing the Conclusions; 4.2. Evaluation of PHA Quality and Completeness; 4.3. Other Considerations; 4.4. Common Problems with PHAs; Chapter 5 Identifying Changes That Have Occurred Since the Prior PHA; 5.1. Logging the Identified Changes; 5.2. Documented and Controlled Changes
5.2.1. MOC and PSSR Review5.2.2. P&ID Comparison; 5.2.3. Procedure Reviews; 5.2.4. PHA and Incident Investigation Recommendations; 5.3. Undocumented and Uncontrolled Changes; 5.3.1. Interviews of Facility Personnel; 5.3.2. Maintenance Records; 5.3.3. Purchase Specifications and Records; 5.3.4. Incident Investigation Reports; 5.3.5. PSM Program Audits; Chapter 6 Identifying an Appropriate Revalidation Methodology; 6.1. Revalidation Options; 6.1.1. Update and Revalidate; 6.1.2. Retrofit, Update, and Revalidate; 6.1.3. Redo; 6.2. Selecting the Revalidation Options
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Appendix D Example Change Summary Worksheet

Sommario/riassunto

The foundation of any successful process safety program is a current set of process hazard analyses (PHAs) for each of its processes. Revalidating PHAs to keep them up to date and applicable is a must. This book is derived from the experience of many companies in the chemical and hydrocarbon processing industries, and presents demonstrated, concise, and common sense approaches for a resource-effective revalidation of PHAs. It includes flowcharts, checklists, and worksheets that provide invaluable assistance to the revalidation process.