

1. Record Nr.	UNINA9910142521003321
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Titolo	Revalidating process hazard analyses [[electronic resource] /] / Walter L. Frank and David K. Whittle
Pubbl/distr/stampa	New York, N.Y., : Center for Chemical Process Safety, American Institute of Chemical Engineers, c2001
ISBN	1-282-78337-8 9786612783371 0-470-93553-7 1-59124-573-7 0-470-93552-9
Descrizione fisica	1 online resource (138 p.)
Collana	CCPS concept book
Altri autori (Persone)	WhittleDavid K
Disciplina	660.2804 660/.2804
Soggetti	Chemical processes - Safety measures Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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 Reports
3.3.6. 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 Review
5.2.2. 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
Chapter 7 Conducting the Revalidation Study Sessions
7.1. Team Training; 7.2. Application of Revalidation Methodology; 7.3. Special Topics; 7.3.1. Staying Productive; 7.3.2. Facility (or Stationary Source) Siting; 7.3.3. Human Factors; 7.3.4. Wrap-up Discussions; Chapter 8 Documenting the Revalidation Study; 8.1. Documentation Approaches; 8.2. Report and Its Content; 8.3. Recommendation Follow-Up; 8.4. Records Retention and Distribution; Appendix A Federal Regulatory Requirements; Appendix B Essential Criteria Checklist; Appendix C PHA Quality and Completeness Checklist
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.
