1. Record Nr. UNINA9910815979803321 Autore Macdonald Dave <1942-> Titolo Practical hazops, trips and alarms / / David Macdonald Oxford,: Newnes, 2004 Pubbl/distr/stampa **ISBN** 1-281-00931-8 9786611009311 0-08-048019-5 Edizione [1st ed.] Descrizione fisica 1 online resource (345 p.) Practical professional books from Elsevier Collana Disciplina 621.30289 Soggetti Machinery - Safety appliances Machinery - Monitoring Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Contents; Preface; Introduction to the book; 1. Introduction to hazard Nota di contenuto studies; 1.1 Scope and objectives of this chapter; 1.2 Introduction to hazards and risk management; 1.3 Risk assessment; 1.4 Concepts of Alarp and tolerable risk; 1.5 Regulatory frameworks and examples from EU and USA; 1.6 Methods of identifying hazards; 2. Hazard studies at levels 1 and 2; Objectives 2; 2.1 Introduction; 2.2 Methodologies for hazard study 1; 2.3 Process hazard study 2; 2.4 Practical example of hazard 2 application; 2.5 Case study; 2.6 Conclusion on hazard studies 1 and 2 3. Risk reduction measures using alarms and trips3.1 Risk reduction measures: 3.2 Terminologies and standards for safety systems: 3.3 Equipment under control; 3.4 Protection layers; 3.5 The role of alarms in safety; 3.6 Alarm types and do they qualify as safeguards?; 3.7 Identification and design of safety-related alarms; 3.8 Key design principles for alarms; 3.9 SIS, principles of separation; 3.10 Simple and complex shutdown sequences, examples; 3.11 Conclusions: the role of Hazops in defining alarms and trips; 4. Hazop method; Objectives 4; 4.1 Introduction; 4.2 Introduction to Hazop 4.3 Overview of Hazop method4.4 Points to note on the examination procedure; 4.5 Practical exercise: continuous process example; 4.6

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Sommario/riassunto

Do you have trips and safety interlocks in your plant? Are they good enough or are they perhaps over-designed and much more expensive than necessary? Are you or your company aware of how Hazard Studies should define risk reduction requirements? Are you actually using Hazard Studies at all? The answer is the integrated approach to safety management. New international standards combined with well-proven hazard study methods can improve safety management in your company. Practical Hazops, Trips and Alarms for Engineers and Technicians describes the role of hazard studies in risk managem