

Chapter 21: Relay & Electronic Interlocking

Section 1: Design Criteria of Signalling Circuits

21.1.1 Circuits - General

- (a) The Detailed designs for circuits of interlocking may be required for;
 - (i) Route Setting Type i.e. on the basis of Entry/Exit principle.
 - (ii) Non-route Setting Type i.e. Route is set with individual operation of points for existing installations or alterations.
- (b) The designs shall be suitable for RE as per stipulations in [Chapter 22 of SEM](#) on "Requirements of signalling in 25 KV AC electrified areas".
- (c) The designs shall be in accordance with the approved signalling plans, Control Table, Control Panel diagram, Relay contact analysis and relay rack arrangements.
- (d) The designs shall be suitable for the specific type equipment to be installed such as Make of Electronic Interlocking (Distributed or Central), MSDAC, SSDAC, UFSBI, Block Working built into Electronic Interlocking etc and the type of Interfacing & features, they provide. Use of dual OFC in Distributed type of Electronic Interlocking, are desirable as they reduce extent of copper cables & provide an alternate path in case of Failures.
- (e) The drawings & designs shall be made in accordance with Typical templates, RDSO's Standard circuits/templates, guidelines, Board guidelines, Industry's best practices & principles of Reliability, Availability, Maintenance & Safety in mind.

21.1.2 Control Panels - General

- (a) The display of the layout on the front of the Control Panel referred to as the illuminated diagram shall be well proportioned. Where additional facilities are likely to be provided, domino type panel shall, preferably be used. The areas covered by each track circuit shall be clearly distinguished by use of different colours.
- (b) The operating members, namely route switches/buttons, point switches etc., referred to in the following clauses shall normally be provided on the illuminated diagram itself in Geographical order. A separate illuminated diagram for indication and a separate 'console' containing all the operating members may also be provided.
- (c) At Non-route setting type installations, the route may be set with individual operation of points.
- (d) The Route setting shall be on "Entry/Exit" principle for installations of Route Setting type. Each route shall be controlled by means of two push buttons - one at the entrance and the other at the exit of the route.

Interlocking Relay Document

U.S. Nuclear Regulatory Commission

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the U.S. Nuclear Regulatory Commission text.

Interlocking Relay Document:

FM 2011: Formal Methods Michael Butler, Wolfram Schulte, 2011-06-16 This book constitutes the refereed proceedings of the 17th International Symposium on Formal Methods FM 2011 held in Limerick Ireland in June 2011 The 29 revised full papers presented together with 3 invited talks were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on cyber physical systems runtime analysis case studies tools experience program compilation and transformation security progress algebra education concurrency dynamic structures and model checking

Public Documents of the State of Wisconsin Wisconsin, 1914 **Foundations of Computer Software** Radu Calinescu, Ethan Jackson, 2011-05-23 This book presents the thoroughly refereed and revised post workshop proceedings of the 16th Monterey Workshop held in Redmond WA USA in March April 2010 The theme of the workshop was Foundations of Computer Software with a special focus on Modeling Development and Verification of Adaptive Systems The 13 revised full papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book The contributions show how the foundations and development techniques of computer software could be adapted even for industrial safety critical and business critical applications to improve dependability and robustness and to ensure information privacy and security **Control System Documentation** Thomas McAvinew, Raymond Mulley, 2004 Offers symbols and identification that are commonly used throughout the process industries This book contains sample P ID and numerous examples of symbols and tagging concepts It is suitable for instrumentation specialists **Code of Federal Regulations**, 2002 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries **Title List of Documents Made Publicly Available** U.S. Nuclear Regulatory Commission, 1992

Index of Specifications and Standards, *Safe Comp 96* Erwin Schoitsch, 2012-12-06 SAFECOMP 96 contains papers presented at the 15th International Conference on Computer Safety Reliability and Security held in Vienna Austria 23 25 October 1996 The conference aimed to provide an opportunity for technical developers and users to discuss and review their experiences to consider the best technologies currently available and to identify the skills and technologies required for the future SAFECOMP 96 focuses on critical computer applications and is intended as a platform for technology transfer between academia industry and research institutions SAFECOMP 96 will be of interest to all those in universities research institutions industry and business who want to be well informed about the current international state of the art in computer safety reliability and security *Software Engineering and Formal Methods. SEFM 2022 Collocated Workshops* Paolo Masci, Cinzia Bernardeschi, Pierluigi Graziani, Mario Koddenbrock, Maurizio Palmieri, 2023-02-10 This volume constitutes the revised selected papers from the four workshops collocated with the 20th International Conference on Software Engineering and Formal Methods SEFM 2022 held in Berlin Germany in September 2022 The 19 full papers presented together with 9 short papers in this volume were carefully reviewed and selected from a total of 39 submissions The contributions that are

collected in this volume have been selected from the presentations at the following workshops AI4EA 2022 First Berlin Workshop on Artificial Intelligence for Engineering Applications F IDE 2022 7th Workshop on Formal Integrated Development Environment CoSim CPS 2022 6th Workshop on Formal Co Simulation of Cyber Physical Systems CIFMA 2022 4th International Workshop on Cognition Interdisciplinary Foundations Models and Applications Foundations of Computer Software: Future Trends and Techniques for Development Christine Choppy, Oleg Sokolsky, 2010-04-14 This book presents the thoroughly refereed and revised proceedings of the 15th Monterey Workshop held in Budapest Hungary September 24 26 2008 The theme of the workshop was Foundations of Computer Software Future Trends and Techniques for Development The 13 revised full papers presented at the workshop explore how the foundations and development techniques of computer software could be adapted to address such a challenge Material presented in the papers spans the whole software life cycle starting from specification and analysis design and the choice of architectures large scale real world software development code generation and configuration deployment and evolution Documents of the Assembly of the State of New York New York (State). Legislature. Assembly, 1915 **Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018)** Sebastiano Bagnara, Riccardo Tartaglia, Sara Albolino, Thomas Alexander, Yushi Fujita, 2018-08-04 This book presents the proceedings of the 20th Congress of the International Ergonomics Association IEA 2018 held on August 26 30 2018 in Florence Italy By highlighting the latest theories and models as well as cutting edge technologies and applications and by combining findings from a range of disciplines including engineering design robotics healthcare management computer science human biology and behavioral science it provides researchers and practitioners alike with a comprehensive timely guide on human factors and ergonomics It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance while at the same time promoting the health safety and wellbeing of individuals The proceedings include papers from researchers and practitioners scientists and physicians institutional leaders managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies domains and productive sectors This volume includes papers addressing the following topics Auditory and Vocal Ergonomics Visual Ergonomics Psychophysiology and Ergonomics in Advanced Imaging Cumulative Supplement to the Code of Federal Regulations of the United States of America , 1943 Computer Safety, Reliability, and Security Maritta Heisel, Peter Liggesmeyer, Stefan Wittmann, 2004-09-09 The importance of safety and security is growing steadily Safety is a quality characteristic that traditionally has been considered to be important in embedded systems and security is usually an essential property in business applications There is certainly a tendency to use software based solutions in safety critical applications domains which increases the importance of safety engineering techniques These include modelling and analysis techniques as well as appropriate processes and tools And it is surely correct that the amount of confidential data that require protection from

unauthorized access is growing Therefore security is very important On the one hand the traditional motivations for addressing safety and security still exist and their relevance has improved On the other hand safety and security requirements occur increasingly in the same system At present many software based systems interact with technical equipment and they communicate e g with users and other systems Future systems will more and more interact with many other entities technical systems people the environment In this situation security problems may cause safety related failures It is thus necessary to address safety and security It is furthermore required to take into account the interactions between these two properties

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Accelerator Instrumentation, 3rd Annual Workshop Walter Barry,Kloeppel,1992 Contributors associated with new accelerators such as the Superconducting Super Collider and the Advanced Photon Source and established machines such as Fermilab and CERN share their experiences concerning instrumentation Among the topics are the development of a low intensity current monitor s

Federal Register ,2013-08

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Annual Department of Defense Bibliography of Logistics Studies and Related Documents United States. Defense Logistics Studies Information Exchange,1991

Reliability, Safety, and Security of Railway Systems. Modelling, Analysis, Verification, and Certification Simon Collart-Dutilleul,Thierry Lecomte,Alexander Romanovsky,2019-05-28 This book constitutes the refereed proceedings of the Third International Conference on Reliability Safety and Security of Railway Systems RSSRail 2019 held in Lille France in June 2019 The 18 full papers presented in this book were carefully reviewed and selected from 38 submissions They cover a range of topics including railways system and infrastructure advance modelling scheduling and track planning safety process and validation modelling formal verification and security

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