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## Hydro Plant Risk Assessment Guide

### Appendix E11: Emergency Closure Gate and Valve Condition Assessment

#### **E11.1 GENERAL**

Emergency closure gates and valves are key safety components in the power train at hydroelectric powerplants. Unexpected failure can have a significant economic impact due to the high cost of emergency repairs and lost revenues during an extended forced outage. Failure of emergency closure equipment can also affect life safety.

Determining the present condition of an emergency closure gate and valve is an essential step in analyzing the risk of failure. This appendix provides a process for arriving at an Emergency Closure Gate and Valve Condition Index which may be used to develop a business case addressing risk of failure, economic consequences, and other factors.

#### **E11.2 SCOPE / APPLICATION**

The condition assessment methodology outlined in this appendix applies to hydroelectric powerhouse emergency closure equipment. The condition assessment primarily focuses on the gates, valves, and associated operators (i.e., hoists, hydraulic cylinders, and valve operators). The appendix does not apply to closure systems that are not used for emergency purposes.

In recognition that many organizations have facility safety review programs, it is intended that the assessments described herein fully utilize information provided by such reviews to avoid duplication of work and to minimize outage time. This information may be available in the form of comprehensive facility reviews, special examinations, maintenance databases, and operational reports. If the assessment requires an additional physical inspection, then it should be coordinated with the organization's existing review program.

This appendix is not intended to define maintenance practices or describe in detail inspections, tests, or measurements. Utility-specific maintenance policies, procedures, and guidelines must be consulted for such information.

#### **E11.3 CONDITION AND DATA QUALITY INDICATORS AND EMERGENCY CLOSURE SYSTEM CONDITION INDEX**

This appendix describes the condition indicators generally regarded by hydro plant engineers as providing the initial basis for assessing the condition of the emergency closure system. The

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**Clifford Lane**



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Risk Assessment and Management of Water Conservancy Projects Wei Ge, Pieter Van Gelder, Xihui Gu, 2023-12-27

*Design of Hydrodynamic Machines* Getu Hailu, Michal Varchola, Peter Hlbocan, 2022-05-24 *Design of Hydrodynamic Machines* provides a broad yet concise theoretical background on the relationship between fluid dynamics and geometry. It covers the most important types of turbomachinery used in power generation, industrial processes, utilities, and the oil and gas industry. Offering guidance on the hydraulic design aspect of different parts of turbomachinery such as impellers, diffusers, volute casing inlet and outlets, the book discusses how to conduct performance characteristics testing and evaluate performance parameters of the designed parts. It also covers aspects of CFD of turbomachinery. Readers will be able to perform hydraulic design of important turbomachinery parts using commercially available software. Intended for final year undergraduates and postgraduates in mechanical, civil, and aeronautical engineering, the book will also be useful for those involved in the hydraulic design, analysis, and testing of turbomachinery.

*Rock Engineering Risk* John A. Hudson, Xia-Ting Feng, 2015-05-05 This book provides a new, necessary, and valuable approach to the consideration of risk in underground engineering projects constructed within rock masses. There are chapters on uncertainty and risk, rock engineering systems, rock fractures, and rock stress; the design of a repository for radioactive waste; plus two major case examples relating to the

*Assessment of Energy Sources Using GIS* Lubos Matejicek, 2017-03-20 This volume is a comprehensive guide to the use of geographic information systems (GIS) for the spatial analysis of supply and demand for energy in the global and local scale. It gathers the latest research and techniques in GIS for spatial and temporal analysis of energy systems, mapping of energy from fossil fuels, optimization of renewable energy sources, optimized deployment of existing power sources, and assessment of environmental impact of all of the above. Author Lubos Matejicek covers GIS for assessment of a wide variety of energy sources including fossil fuels, hydropower, wind power, solar energy, biomass energy, and nuclear power, as well as the use of batteries and accumulators. The author also utilizes case studies to illustrate advanced techniques such as multicriteria analysis, environmental modeling for prediction of energy consumption, and the use of mobile computing and multimedia tools.

2023 International Conference on Energy Engineering Zhe Chen, Wenming Yang, Hao Chen, 2024-08-31 This book contains the selected proceedings of the 2023 International Conference on Energy Engineering held in Xi'an, China, December 15-17, 2023. The conference explores advances and practical applications in energy research and engineering and delves into innovative approaches in four specialized tracks: New Transportation Energy, Power and Energy Applied, Thermal Energy, and Oil and Natural Gas Engineering. It explores strategies for accelerating the transition to renewable energy, optimizing power systems, harnessing thermal energy, and advancing oil and gas engineering practices. It benefits from a wealth of knowledge shared by academics and practitioners, fostering cross-disciplinary collaboration. The latest findings in electric vehicles, smart grids, thermal systems, and reservoir engineering will be explored to find solutions that promote sustainability, efficiency, and

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big data By bringing together experts from around the globe the conference facilitated the exchange of innovative ideas and research findings contributing to the development of these fields The topics covered during the conference showcased the latest advancements and trends in enterprise economic statistics information evaluation blockchain technology industrial structure optimization information retrieval data regression analysis intelligent Internet of Things platforms and data encryption The discussions and presentations during the conference allowed participants to explore new methodologies strategies and technologies that can enhance economic management practices and leverage the potential of big data The conference provided a platform for scholars and practitioners to share their experiences insights and best practices fostering collaboration and networking opportunities Furthermore the proceedings were published ensuring the dissemination of valuable research findings to a wider audience The collective knowledge and research presented at the conference will contribute to the academic community industry professionals and policymakers enabling them to make informed decisions and develop effective strategies in the fields of economic management and big data applications Overall the 4th International Conference on Economic Management and Big Data Applications played a pivotal role in promoting knowledge exchange fostering innovation and shaping the future of economic management by harnessing the power of big data

*Fish passage technologies : protection at hydropower facilities.* ,1995 The focus of this report is technologies for fish passage around hydropower generation facilities and protection against entrainment and turbine mortality Emphasis is given to Federal Energy Regulatory Commission FERC licensed hydropower projects where fish protection is a subject of controversy and congressional interest due to the Federal Power Act FPA and the Electric Consumers Protection Act ECPA Thus institutional issues related to FERC relicensing are also discussed Major points of controversy are high lighted in box 1 1

*Lees' Loss Prevention in the Process Industries* Frank Lees,2005-01-25 Over the last three decades the process industries have grown very rapidly with corresponding increases in the quantities of hazardous materials in process storage or transport Plants have become larger and are often situated in or close to densely populated areas Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough Bhopal Chernobyl Three Mile Island the Phillips 66 incident and Piper Alpha to name but a few The field of Loss Prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property This book is a detailed guidebook to defending against these and many other hazards It could without exaggeration be referred to as the bible for the process industries This is THE standard reference work for chemical and process engineering safety professionals For years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals

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