

University of Western Ontario

# Distribution System Protection

EE5646 - Power System Protection

Power System Protection - Distribution  
by P. Kundur

# Distribution System Protection Guide

**Kathy Martel**



## **Distribution System Protection Guide:**

Distribution-system Protection Manual McGraw-Edison Company. Power Systems Division, 1972      *Application of HACCP for Distribution System Protection* Kathy Martel, 2006

**OBJECTIVES** The purpose of this project was to evaluate the application of the Hazard Analysis Critical Control Point HACCP system a risk management tool to better protect water quality in distribution systems

**BACKGROUND** HACCP was first conceived in 1959 by the Pillsbury Company to improve food safety for NASA's manned space missions Since the 1980s HACCP has been widely adopted by the food and beverage industry worldwide where it forms an important part of their food safety plans Since the mid 1990s HACCP has been applied by a number of individual drinking water systems and has been incorporated into many drinking water regulatory requirements and guidelines around the globe

**HIGHLIGHTS** Project pilot studies illustrated that HACCP can be applied to water distribution systems but time and resource requirements were greater than anticipated Project case studies showed that most utilities that achieved HACCP certification had first implemented ISO 9001 and ISO 14001 or similar systems to gain management control of people and processes The case study utilities operated one integrated management system including the ISO systems as well as HACCP to avoid duplication of tasks reduce staff time and costs and improve process integration All case study utilities believed that overall the benefits of the HACCP system outweighed the costs

**Handbook of Water and Wastewater Systems Protection** Robert M. Clark, Simon Hakim, Avi Ostfeld, 2011-09-01

Following the events of 9 11 the Administrator of the US Environmental Protection Agency created the Water Protection Task Force WPTF which identified water and wastewater systems as a major area of vulnerability to deliberate attack The WPTF suggested that there are steps that can be taken to reduce these vulnerabilities and to make it as difficult as possible for potential saboteurs to succeed The WPTF recommended that be scrutinized with renewed vigor to secure water and wastewater systems against these possible threats It also recommended that water and wastewater systems have a response plan in place in the event an act of terrorism occurs The WPTF identified water distribution networks as an area of special vulnerability and highlighted the need for rapid on line detection methods that are accurate and have a wide detection range As a result of these recommendations novel technologies from various fields of science and engineering are now addressing water security issues and water and wastewater utilities are looking for innovative solutions Once such technologies are available there will be a rapid implementation process that will present many business opportunities for the private sector However in addition to terrorist threats water and wastewater systems are inherently vulnerable to natural disasters such as earthquakes and floods This volume will address the problems associated with both intended terrorist attacks and natural disasters affecting water or wastewater systems The book is divided into parts based on the kinds of threats facing water and wastewater systems

- 1 a direct attack on water and wastewater infrastructure storage reservoirs and distribution and collection networks
- 2 a cyber attack disabling the functionality of the water and wastewater systems or taking over control of

key components which might result in system failures and 3 a deliberate chemical or biological contaminant injection at one of the water distribution system's nodes. It will examine unique plans, technological and managerial innovations for protecting such systems and includes descriptions of projects that were implemented to respond to natural disasters. Case studies are presented that discuss existing projects and evaluate their performance with an emphasis on providing guidelines and techniques that can be implemented by water and wastewater planners and managers to deal with natural and manmade disasters should they occur.

Protection of Electricity Distribution Networks, 2nd Edition Juan M. Gers, Edward J. Holmes, 2004. Written by two practicing electrical engineers, this second edition of the bestselling *Protection of Electricity Distribution Networks* offers both practical and theoretical coverage of the technologies from the classical electromechanical relays to the new numerical types which protect equipment on networks and in electrical plants. A properly coordinated protection system is vital to ensure that an electricity distribution network can operate within preset requirements for safety for individual items of equipment, staff and public, and the network overall. Suitable and reliable equipment should be installed on all circuits and electrical equipment, and to do this protective relays are used to initiate the isolation of faulted sections of a network in order to maintain supplies elsewhere on the system. This then leads to an improved electricity service with better continuity and quality of supply.

**Power System Protection in Smart Grid Environment** Ramesh Bansal, 2019-01-15. With distributed generation, interconnection, power flow becoming bidirectional, culminating in network problems, smart grids aid in electricity generation, transmission, substations, distribution and consumption to achieve a system that is clean, safe, protected, secure, reliable, efficient and sustainable. This book illustrates fault analysis, fuses, circuit breakers, instrument transformers, relay technology, transmission lines, protection setting using DIGSILENT Power Factory. Intended audience is senior undergraduate and graduate students and researchers in power systems, transmission and distribution, protection system, broadly under electrical engineering.

*Electric Power System Protection and Coordination* Mike Anthony, 1995. A guide to the implementation of electric power protection in both new and existing systems. Focusing on systems in the low to medium volt range, the book helps in the solution of protection and coordination problems by use of microcomputers as well as more traditional methods.

*Application Guide for the Protection of Electrical Distribution Systems* CBI-Electric: low voltage, 2011.

**Electric Distribution Systems Engineering Handbook**, 1994 **IEEE Standards** Institute of Electrical and Electronics Engineers, 1988.

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