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THITIPHONG LIMBOONSUEBSAI : THE SIMULATION OF DISTRIBUTION
AUTOMATION SYSTEM (DAS) CASE STUDY : MAHIDOL UNIVERSITY SA-
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This paper is studying in technical of conceptual principle in electrical power management which being case study of an intelligent power distribution system, so-called Distribution Automation System (DAS) by applications or approaches of both computer and data communication technologies. Main objective of the study is to create the DAS simulator as the pattern of computer-base training (CBT) that is used for training dispatching officers and any students who study in electrical engineering field. The simulation system is designed for provision appropriated operations with quick training that deals with any fault on distribution lines by current sensing method. Moreover it's delivered and presented over the real case study of electricity at location of Mahidol University Salaya Campus. By the way the Das architecture mainly consists of the following 3 core components as 1)Master Station 2)Remote Terminal Unit (RTU) and finally 3)Communication Media. The system of DAS would be set up at the 3 mentioned areas.

The finally of this study showed that The DAS is working with automation as well as ease of use. For instance, when DAS is able to detect something fault from ordinary status, it cuts off and separates the error section by trying to reduce any outage area and closing the tit line circuit then switching good electricity from another working feeder or substation to supply instead of. Output display of this simulation system is to show a single line diagram that calculates to point any occurred fault automatically with visualization on a computer monitor.