



A fault analysis of 11kv distribution system (a case study of ado Ekiti electrical power distribution district)

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Abstract: The aim of this research work is to carry out fault analysis of 11KV distribution power system. Electric power is an essential facilitator for sustainable development of the modern nation state. While Nigeria is reported to suffer from severe shortages of electric power the condition of some of its newer constitutional units are unknown. In this work, electric power infrastructure and energy availability is studied for Ado-Ekiti, the principal economic and political hub of Ekiti State. During the study, the condition of all relevant equipment for power distribution at the 11 kV level was assessed. Power availability was also considered by collecting necessary data that had to do with energy supplied, faults and other outages. It was discovered that the distribution lines were in a rather poor state with as many as 25% of the poles not meeting a condition of "goodness", 33% of cross-arms being broken or unsatisfactory, about 10% of the insulators defective and almost 40% of the span not complying with standards. Hence this work presents a research on fault analysis of Ado Ekiti distribution power system.

Keywords: Distribution System, Over-current, Feeder, Earth Fault, Differential Fault, Ring Main

1. Introduction

The predominant factor distinguishing modern man from his ancestors is the ability to efficiently manage energy. In recent times electric power has become the most ubiquitous form of energy used for production, recreation, control and for carrying out most activities because of the ease with which it can be produced, transported and converted to various applications. Gordon Clapp, a former General Manager of the Tennessee Valley Authority (U.S.A) once said- "If you would destroy a region, you destroy its power supply. If you would hold a region to a lower standard of living, you can do it by placing a limit on its supply of electric power" (Uwaisi, 1994). Given its benefits to mankind, it was not long before electricity was regarded as an infrastructure, i.e. a basic necessity for man's socio-economic well-being. It is now universally accepted that the social and economic factors which define the level of prosperity, are highly correlated with the level of demand for electric power.

Ado Ekiti is an agrarian town in the southwestern part of Nigeria. The town lacks many infrastructures which is common in most of the developing countries. One of these infrastructures is the poor state of electric power distribution. Electric Power distribution system in Ado Ekiti is something of a major concern. There are more outages than uninterrupted power supply in most parts of the state all the year round.

It is a known fact that electricity plays a dominant role in the socio-economic development of any community. In view of the foregoing, this project seeks to identify the problems militating against regular, good quality electric power supply in the Ado Business district of Ekiti-State with a view to proffering solutions and suggestions where necessary. This is to improve the socio-economic life of Power Holding Company of Nigeria (PHCN)'s customers in the state. Given this unsatisfactory state of affairs and the lack of comprehensive studies to formally guide the development of electric power in the state, there is a dire need for an assessment of the Ekiti-state electric power distribution with

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