ANALYTICAL APPROACH IN RELIABILITY ASSESSMENT IN SOME PARTS OF 33/11KV POWER DISTRIBUTION SYSTEM USING FAULTS OUTAGE DATA OF PHED POWER OPERATOR IN PORT HARCOURT RIVERS STATE NIGERIA

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ABSTRACT

Reliable and steady supply of electrical energy to consumers at distribution voltage level in every network is of fundamental importance to both service providers their customers. For the customers equipment to function properly the quality of supply must be assured, therefore there must be a method of performing a reliability assessment the network in question. This paper presents an analytical approach in reliability assessment of some parts of the 33/11kV Port Harcourt Electricity Distribution (PHED) network. The assessment was carried out using some of the 2017 power outage data from the PHED operator.

KEYWORDS: Lightning Faults, Power Outages Due to Various Faults, Load Shading, PHED Power System Facilities Breakdown Due to Faults, Protection of Power System Facilities, etc.

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