

ABSTRACT

ULP PLN Purworejo is part of the service unit under the UP3 Magelang unit. With this ULP unit, it will be able to assist all customer service arrangements and distribution networks, thereby minimizing complaints and maintaining the quality of electricity distribution which can provide the best value for customers. With this goal, handling and maintenance are needed in the event of a customer's electricity distribution network disruption. Customer service is a top priority for the ULP unit because it focuses on the distribution of electricity used, and there is no difference in service between ordinary customers and priority customers, all of whom are priority. This electricity distribution network is a network that is directly related to the community with the voltage used at PLN, which is 20 KV. The working conditions of network equipment such as insulators, conductors and connections on air lines are very prone to disruption and damage caused by load currents. Routine inspection and maintenance of distribution network equipment is aimed at overcoming reduced efficiency and damage so that the equipment can work properly according to its function. The results of the inspection and maintenance of the Medium Voltage Network (JTM) found a lot of problems, namely the main components of the Medium Voltage Network (JTM), including Poles, Cross Arms, Insulators, Conductors/cables, and FCO (Fuse Cut Out). The poles were still found to be brittle and porous, for the Cross Arm they were found tilted and almost collapsed, for the insulators they were found dirty with sawdust, for the conductors they found cables in a loose condition and for FCO they were rarely found. From the above problems, of course, this condition is very dangerous for the community. To minimize its occurrence, PLN officers carry out regular monitoring and awareness from the public is also needed. If found with such conditions, they are immediately reported to the relevant officer.

Keywords: PLN, Inspection, Maintenance, Medium Voltage Networks, Distribution Network Disturbances.