ABSTRACT

Disturbance of power system is unavoidable case, that required a function from safety system to separate the affected parts of system. PT. Citic Seram Energy Ltd is a Oil & Gas company. Power supply is the main energy of this company. To fill the power system, PT. Citic Seram Energy Ltd supplied by 3 diesel generator. One of generator is main power and others is the backup supply energy for emergency. For electrical system needs reliable and continuous system because this company rely on main power generator. If power supply has reliable, the production can be run well

In this final project discussed about protection system at PT. Citic Seram Energy Ltd. Based on the analysis research, there are malfunction from the relay coordination and improper use of equipment. From four typical coordination analysis can be seen that there is error setting coordination setting from pick-up and time delay on relae generator. In this case the curve of relay generator always cutting under safety curve that cause of black out system. Its necessary to set up coordination between safety relay and substitute some fuse by using relay and circuit breakers for sensitivity of safety equipment to increase reliability of maintained system.

Keywords: Disturbance, Relay Curve, PT. Citic Seram Energy Ltd, Safety Relay.
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