ABSTRACT

The measurement of the reliability an electrical system can be represented by the blackouts frequency caused by a disturbance, so the production process in an industry are hampered. To improve the reliability and continuity of service, PT Semen Gresik Tuban III made several changes the load and replacement safety equipment. Moreover, Tuban III factory will integrated with Tuban IV. This is impacted in changes configuration of electrical systems. With these changes causes the relay setting and coordination of performance change. So it is necessary to re-analysis the performance of electrical system. The final project will be focused on the coordination of overcurrent relay. By replacing some of the relay setting on the PT Semen Gresik Tuban III it is expected to get the ideal setting and sensitivity in isolating, so the reliability and continuity of power supply is always optimum.

Key Words: coordination, overcurrent relay