ABSTRACT

PT. Pupuk Sriwidjaja (PT. Pusri) Palembang is the first company that produce urea fertilizer and one of BUMN in Indonesia. In effort to improve reliability and continuity in service, PT. PUSRI have made a change of the electricity system by doing integration on its fourth generating system. By applicating method 1 (Generator High-Resistance Grounding and System Low-Resistance Grounding) and method 2 (Generator and External Source High-Resistance Grounding, and Grounding Bus Low-Resistance) at PT. Pupuk Sriwidjaja Palembang the result is both of methods use same relay setting, because the different only on ground fault one phase maximum. In method 1 the ground fault one phase maximum value is 32 A and the ground fault one phase maximum value in method 2 is 417 A. While the ground fault one phase minimum is same, that is 8 A.

Keywords : High-Resistance Grounding, Low-Resistance Grounding, Relay Setting