Analisis Kerja Rele Overall Differential pada Generator Unit I PLTA Ketenger PT Indonesia Power UBP Mrica

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Abstract	Plant has two important equipment that are the generator and transformer. Therefore, it should be protected well by theÃ‚Â overall differential relay. This relay must be reliable from the disturbances that might arise. In this study a simulation was conductedÃ‚Â to obtain and test the overall differential relay setting at generator unit 1 PLTA Ketenger. Modelling was done with MATLABÃ‚Â Simulink 7.0.1 to check the overall differential relay protection system from potentialproblems. The model was given severalÃ‚Â disturbances, namely 1) short circuit fault in the security area, 2) short circuit fault outside the security area, and 3) lightningÃ‚Â disturbances when damaged arrester. From the simulation results, the overall differential relay operating current is 1.73 A (primaryÃ‚Â side) and 1.64 A (secondary side). The results show that the overall differential relay provides a good response, except in the lightningÃ‚Â fault with a current above 9x109 A (going the mismatch). For handlingthis problem another arrester should be added.
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Author	HARI PRASETIJO, S.T, M.T