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

Title	Analisis Kerja Rele Overall Differential pada Generator Unit I PLTA Ketenger PT Indonesia Power UBP Mrica
Author Order	1 of 2
Accreditation	
Abstract	Plant has two important equipment that are the generator and transformer. Therefore, it should be protected well by the \$\tilde{A}\$, \$\tilde{A}\$ overall differential relay. This relay must be reliable from the disturbances that might arise. In this study a simulation was conducted \$\tilde{A}\$, \$\tilde{A}\$ to obtain and test the overall differential relay setting at generator unit 1 PLTA Ketenger. Modelling was done with MATLAB \$\tilde{A}\$, \$\tilde{A}\$ Simulink 7.0.1 to check the overall differential relay protection system from potential problems. The model was given several \$\tilde{A}\$, \$\tilde{A}\$ disturbances, namely 1) short circuit fault in the security area, 2) short circuit fault outside the security area, and 3) lightning \$\tilde{A}\$, \$\tilde{A}\$ disturbances when damaged arrester. From the simulation results, the overall differential relay operating current is 1.73 A (primary \$\tilde{A}\$, \$\tilde{A}\$ side) and 1.64 A (secondary side). The results show that the overall differential relay provides a good response, except in the lightning \$\tilde{A}\$, \$\tilde{A}\$ fault with a current above 9x109 A (going the mismatch). For handlingthis problem another arrester should be added.
Publisher Name Jenderal Soedirman University	
Publish Date	2010-08-31
Publish Year	2010
Doi	DOI: 10.20884/1.dr.2010.6.2.38
Citation	
Source	Dinamika Rekayasa
Source Issue	Vol 6, No 2 (2010): Dinamika Rekayasa - Agustus 2010
Source Page	67-78
Url	https://dinarek.unsoed.ac.id/jurnal/index.php/dinarek/article/view/38/36
Author	HARI PRASETIJO, S.T, M.T