

# OVER CURRENT RELAY SETTINGS ON THE KUKANG FEEDER AND CBO MA75 FOR SHORT CIRCUIT PROBLEM IN THE GARDU INDUK SEPATAN

RAHMA ANDINA MUSTARI, 2015-71-060

*Under the guidance of Aas Wasri Hasanah, S.Si, MT*

## **ABSTRACT**

Short circuit disturbances often occur on a 20 kV network, between phases (3 phases or 2 phases) or single phase ground faults. Phase short circuit faults in the ground and phases are one of the problems that may arise in the operation of a substation. Disturbances caused by the short circuit cause a lot of losses, losses in the distribution network system and losses in the consumer of electricity. One way to overcome this disorder is to set the safety relay as well as possible, one of which is overcurrent relays. This final project discusses the adjustment of overcurrent relays on slow loris feeders and CBO ma75 to short circuit disturbances at the standard substation. Based on the data and descriptions that have been discussed, the largest short circuit current in slow loris feeders is 3 phases with a 1% disturbance location of 8266.87 Ampere while the short circuit fault current in cbo is 6520.57 Ampere. For relay setting time on cbo = 0.138 seconds, and on slow loris feeder = 0.347 seconds.

Keywords: Overcurrent Relays, Adjustment of overcurrent relays.