INTISARI

Heat Recovery Steam Generator merupakan bagian yang penting dalam sistem pembangkit *Steam Turbine Generator*untuk meningkatkan nilai efisiensi. Jika *Heat Recovery Steam Generator* mengalami *shutdown*, dapat dipastikan produksi listrik dari *Steam Turbine Generator* akan menurun. *Heat Recovery Steam Generator* dapat *shutdown* di antaranya akibat dari motor *High Pressure Circulation trip* karena mendapat suplai *undervoltage.Undervoltage* dapat terjadi saat generator mengalami *overload*,sehingga suplai untuk *busbar Power Distribution Control* GTG Unit akan mendapatkan *undervoltage*. Untuk menghindari *busbar Power Distribution Control* GTG Unit mengalami *undervoltage* dapat menggunakan relay *undervoltage* dengan proses *transfer switch* dari suplai oleh generator melalui 52 UAT ke suplai oleh jaringan luar melalui 52 PDC.

Kata kunci : *Heat Recovery Steam Generator, Steam Turbine Generator, Undervoltage, busbar Power Distribution Control* GTG Unit, relay *undervoltage.*

ABSTRACT

Heat Recovery Steam Generator is the essential part of system in Steam Turbine Generator power plant for the highest efficiency. If Heat Recovery Steam Generator interrupted, it will decreasing the efficiency of power plant and could made unit shutdown because supply energy in Heat Recovery Steam Generator was undervoltage. Undervoltage happened while generator got overload. It will effected the busbar Power Distribution Control GTG Unitthatin charge of essential part to support Heat Recovery Steam Generator got undervoltage supply. For the preventive action, it could use undervoltage relay for transfer switch from 52 UAT to 52 PDC.

Keyword : Heat Steam Recovery Generator, Steam Turbine Generator, Undervoltage, busbar Power Distribution Control GTG Unit, undervoltage relay.