

ABSTRACT

As a source of electrical energy in a power system, the generator has an important role, so the non-functioning of the PMT generator is very undesirable because it is very disturbing the system, especially a powerful generator. And also because of its location in the upstream, PMT generator should not be easy to trip but also must be safe for the generator, although in the system many disturbances occur. To maintain the reliability of the work of the generator, then complete the generator with protection equipment. Generator protection equipment should really prevent generator damage, because damage to the generator in addition to expensive repair costs are also very disrupt the operation of the system. Generator protection should also consider the protection of the driving machine, since the generator is driven by a prime mover. The propulsion machine in the center of electricity is closely related to the mechanical installation and electrical installation of the central power. Therefore it is very necessary protection system that secures the generator from the reversed power

Keyword: generator, protection, relay, reverse power

INTISARI

Sebagai sumber energi listrik dalam suatu sistem tenaga, generator memiliki peran yang penting, sehingga tidak berfungsinya PMT generator sangat tidak dikehendaki karena sangat mengganggu sistem, terutama generator yang berdaya besar. Dan juga karena letaknya di hulu, PMT generator tidak boleh mudah trip tetapi juga harus aman bagi generator, walaupun didalam sistem banyak terjadi gangguan. Untuk menjaga keandalan dari kerja generator, maka dilengkapi generator dengan peralatan-peralatan proteksi. Peralatan proteksi generator harus betul-betul mencegah kerusakan generator, karena kerusakan generator selain akan menelan biaya perbaikan yang mahal juga sangat mengganggu operasi sistem. Proteksi generator juga harus mempertimbangkan pula proteksi bagi mesin penggerakannya, karena generator digerakkan oleh mesin penggerak mula. Mesin penggerak dalam pusat listrik berkaitan erat dengan instalasi mekanis dan instalasi listrik dari pusat listrik. Oleh karena itu sangat diperlukannya sistem proteksi yang mengamankan generator dari daya yang berubah terbalik

Kata Kunci : generator, proteksi, relay, daya balik