

ABSTRAK

Generator merupakan komponen paling penting dalam memproduksi tenaga listrik. Generator mengubah energi mekanik menjadi energi listrik. Pesawat membutuhkan tegangan, arus, dan frekuensi yang konstan. *Constant speed drive* akan membuat generator mendapat input konstan dari mesin.

Jika frekuensi dalam kondisi *over* atau *under*. Itu menandakan bahwa terdapat masalah dengan CSD. Indikator menunjukkan frekuensi sebesar 390 Hz. *adjustment* dibutuhkan untuk menyelesaikan permasalahan tersebut. *Adjustment* dilakukan dengan memutar *adjustment screw* yang terdapat di *governor section*. *Governor* akan mempengaruhi CSD. CSD akan mengeluarkan RPM sebesar 6000.

Putar *screw* searah jarum jam akan menambah 18 Hz dan berlawanan jarum jam akan menambah 18 Hz. Perlu dipastikan bahwa generator mengeluarkan frekuensi sebesar 400Hz.

Kata kunci : *frequency, CSD, Governor*

ABSTRACT

Generator is the most important component for producing electrical power. It changes the mechanical energy into electricity. Aircraft requires a constant voltage, current, and frequency. Constant speed drive will make generator have a constant input from engine.

If the frequency is in over or under conditions, it means that there is a problem with the constant speed drive. Indicator showed 390 Hz frequency. Adjustment is needed in order to solve that problem. Adjustment could be done by turn the adjustment screw. Adjustment screw is located in governor section. governor will affect the constant speed drive. It will make constant speed drive have a 6000 RPM.

Turn the screw clockwise will add 18 Hz and turn the screw counter clockwise will subtract 18 Hz of frequency. It is importance to make sure the frequency is 400Hz after adjustment.

Keyword : frequency, CSD, Governor