ABSTRACT

The continuity of electricity power especially in the industry loading can be a crucial problem. It is because the consumption of the electricity power used by the industry lasts in a long time. There are some loadings in industry can be categorized into the dangerous load which is not allowed to stop suddenly or pass the time which is fixed. Moreover, the electric appliances which are used as a controller or as a data recorder need good voltage performance.

The example above is one of the power system quality. The voltage variation, the frequency variation, the harmonic distortion, the voltage imbalance and also the power factor are the factors which can be used as an aim to decide the quality of the electricity power. If some factors above show good performance in a range that is agreed as reference, it can be said that the quality of the electricity power is good and vice versa if the factors above show the contrary action, the quality of the electricity power is bad.

Another important factor is the capability of the electric appliances itself. Its capability in supplying the electricity power will influence to the continuity of the electricity power supplying and also the security appliances in securing the appliances. They should be in good condition and work well.

All of them are the subject that will be evaluated by the study area in PT. Petrokimia Gresik especially in the factory II.