Abstract

CONDITIONAL MONITORING BASE ROTOR GENERATOR BASED VIBRATION WITH NEURAL-NETWORK SOM-KOHONEN APPROACHING IN GENERATOR 125.5 MVA [i]STUDY CASE.

By:

Bagus Sulistyo

In order to keep an ongoing electricity generating business, it is crucial to optimize the maintenance of the power equipment and auxiliary, especially in predictive maintenance. With a proper predictive maintenance, early failure of the equipment could be detected so that, a catastrophic damage could be prevented.

In this paper, the predictive maintenance of conditional monitoring base rotor generator with neural network som-kohonen (som-kohonen). Is examining are use as the main information of conditional monitoring base rotor generator as input parameter of som-kohonen. Som-Kohonen is an unsupervised learning so that no prior knowledge of a trainer is needed. Som-Kohonen could simplify the complex and high dimensional data input into low dimensional data output in an iterative and adaptive learning way, and the right information would appear from this extraction.

The goal of this paper is to acquire the index of failure of condition monitoring base rotor generator, and to make it a prior knowledge and standard of the next predictive maintenance of condition monitoring base rotor generator.

Keyword:Predictive maintenance, Som-kohonen, vibration rotor-generator, indeks of failure

---

[i] UNIT 3 PLTU Tarahan ,Lampung Indonesia