

Febrina Kusumaningati, 2019. **Analysis of Quality Control in Plywood Production Process at PT Sumber Graha Sejahtera Based on Fuzzy Linguistic Control Chart Method.** This research is under supervised Dr. Ardi Kurniawan, M.Si and Drs. H. Sediono, M.Si, S-1 Statistika Major, Mathematics Department, Faculty of Science and Thecnology, Airlangga University, Surabaya

ABSTRACT

Quality is very important because it can maintain improving the company's market. Factors that determine or influence the good and quality of a company's products will consist of several types, such as raw materials, labor, machinery and production equipment used, where these factors will have different influences, both in terms of the influence and magnitude of the influence caused. With quality supervision, the company or producer strives to always improve the quality at the same low cost or even to achieve quality that remains at a low cost. Quality control is an activity to ensure that the process meets the standards. In addition, quality control can also help companies maintain and improve the quality of their products. A control chart is a process control technique on a widely used path to rapidly investigate the occurrence of unexpected causes or processes so that investigations into the process and corrective actions can be carried out before too many units that are not suitable are produced. Fuzzy sets are parts that represent a condition in fuzzy variables. To determine fuzzy sets can be done by calculating the degree of membership. The degree of membership in the fuzzy set can be determined using a triangle curve. In the previous study showed that linguistic fuzzy control maps can use different samples at each time of production, besides that the control map also produces more out of control data than other attribute control charts. Quality control of plywood production at PT Sumber Graha Sejahtera shows that there are production data out of control or it can be said that the production process has not been controlled.

Keywords : Quality, Quality Control, Control Chart, Fuzzy, Fuzzy Linguistic's Control Chart