ABSTRACT

Tool Manufacturing Services Department is one department of PT Dirgantara

Indonesia, which is giving priority to quality of products. There are kind of proportion

levels at each production periods which are according to target of defective tolerance or

not. Bushing is a tool that gives some defectives at 12,74% with a fairly large

proportion of defect about 7,621%. This condition must be evaluated and be improved

to get tolerance target which is deciced by company.

At this research, AFD is used as an analysis method of failure. This method] will be

supported by other quality control tools to support the final result of analysis. The final

result of AFD analysis is kind of improvement action to reduce the defect to the

Bushing.

Based on research, performance of production process of Bushing which is covering the

(1) stability of the process that has not been controlled and (2) process capability by

sigma 3.315. Type of defect was identified is dimension defect and hardness defect.

These results show a good performance but the process still needs to be improved

continuously. Continuous improvement is done by reducing defects. Types of defects

identified are handicapped and disabled Hardness dimension. The root causes of

dimensions defects found in as many as 32 of the causes and Hardness defect as many

as 7 causes. Improvement proposals which are given to dimensions defect, are using

mandrel based on specification, support center and finishing at the beginning process.

Improvement proposals which is given to Hardness defect, are using system labeling

and adding material inspectorate operation before lathe process.

Key Words: quality, Bushing, Anticipatory Failure Determination