

ABSTRACT

Quality control is needed by the whole company, and is no exception to the Aircraft Industry. This is because the airplane industry is required to produce a very high quality product, because it is closely related to the safety of the users of these industrial products. One method that can be used in quality control process is a method of Six Sigma DMAIC phases. Spirit PMO department responsible in the process of making components Drive Rib 2 Airbus A380 aircraft.

This study is about the application of Quality Control by using Six Sigma methods to improve the quality of the manufacture of components Drive Rib II Airbus A380 at the Department of PMO Spirit PT. Dirgantara Indonesia (Persero). This study aimed to find out the implementation stage of six sigma DMAIC method to improve the quality of the manufacture of components Drive Rib 2. The method used is descriptive and verification methods. Data collection techniques used are field research and library research.

Based on the results of this research is that the quality control with six sigma DMAIC method is not optimal because there are defects that are still high on the calculation of DPMO HSI HSI 0800 and 0100 amounted to 28240.74 and 11904.76 of one million opportunities and the average Level sigma High speed HSI inspecton 0100 and 0100 amounted to 3.4073 and 3760 have not reached six sigma but on a control chart p and u high speed and high speed inspection 0800 0100 inspection incontrol component is in a state no one is above the UCL and no LCL.sehingga given below was proposed improvements to the analyze phase and to control in the final stage at the time of return to the six sigma method terbut quality has improved quality.

Keywords: quality control, Six Sigma, Quality Improvement, Department PMO Spirit PT. Dirgantara Indonesia (Persero).