EXAMINING THE EFFECT OF CONTRACTOR LOGISTICS SUPPORT ON THE RELIABILITY OF MILITARY AIRCRAFT

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ABSTRACT

This study utilizes survival analysis for examining the effect of Contractor Logistics Support (CLS) on the reliability of military aircraft. The CLS provider in this study is the original equipment manufacturer that has designed and produced the target aircraft of this study or A-29 Super Tucano. We assume that the effect of CLS on the reliability is at least same as or better than organic maintenance conducted by the Brazilian Air Force. Aircraft failures are compared before and after implementing CLS by using non-parametric and semi-parametric survival models. This study found that CLS alone was inclusive for explaining aircraft failures.

Keywords: Contractor Logistics Support; Survival Analysis; Maintenance; Reliability; Military