

TITLE: Six sigma approach to fighter fleet's health management

ABSTRACT:

Time and materials contract has been used for the operations and maintenance of most weapon systems. The mechanism of this contractual vehicle is that the more systems break down, the more opportunities of revenue are created for service providers. That is, suppliers are not incentivized to improve the reliability and quality of their products. In this study we address how the Korean Air Force has adopted a performance-based contract to align the business goals of the US defense contractor to its own around the fleet management of F-15 fighter jets under the Six-Sigma approach.

Key Words: Six-Sigma, performance-based contract, operations, maintenance, reliability