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Aircraft Line Maintenance Equipped with Decision Support System

Authors : B. Sudarsan Baskar, S. Pooja Pragati, S. Raj Kumar

Abstract : The cost effectiveness in aircraft maintenance is of high privilege in the recent days. The cost effectiveness can be effectively made when line maintenance activities are incorporated at airports during Turn around time (TAT). The present work outcomes the shortcomings that affect the dispatching of the aircrafts, aiming at high fleet operability and low maintenance cost. The operational and cost constraints have been discussed and a suggestive alternative mechanism is proposed. The possible allocation of all deferred maintenance tasks to a set of all deferred maintenance tasks to a set of suitable airport resources have termed as alternative and is discussed in this paper from the data's collected from the kingfisher airlines.

Keywords : decision support system, aircraft maintenance planning, maintenance-cost, RUL(remaining useful life), logistics, supply chain management
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