

INTISARI

Sebagai perusahaan *maintenance, repair, dan overhaul* pesawat udara, PT MNO dipercaya oleh Maskapai ABC untuk merawat seluruh armada pesawatnya. Salah satu armada pesawat milik Maskapai ABC adalah Boeing 737-800NG. Pesawat jenis ini memiliki kontrak perawatan dengan PT MNO dalam jangka waktu 12 tahun. Namun berdasarkan data sejak tahun 2015 sampai dengan 2018, banyak dilakukan perawatan pesawat dibawah jangka waktu yang direncanakan diawal. Semakin banyak perawatan yang dilakukan, maka semakin besar biaya perawatan yang dikeluarkan oleh PT MNO. Penelitian ini bertujuan untuk melakukan analisis dampak akibat selisih jumlah *maintenance* pada pesawat Boeing 737-800NG milik maskapai PT MNO.

Penelitian ini dilakukan dengan seleksi sebuah pesawat yang dijadikan objek analisis biaya. Pesawat tersebut dipilih berdasarkan uji statistik terhadap data sampel dan populasi yang dilakukan pada seluruh pesawat Boeing 737-800NG milik Maskapai ABC. Perhitungan selisih jumlah *maintenance* dilakukan pada pesawat terpilih. Biaya selisih *maintenance* diperoleh melalui perhitungan antara jumlah *overmaintenance* dan biaya per *maintenance*.

Hasil penelitian ini menunjukkan 37% dari *continuous airworthiness maintenance planning number* dilakukan sesuai dengan rencana awal. Besaran selisih biaya yang terhitung adalah US\$ 894.542.

Kata Kunci: *preventive maintenance, cost analysis, aircraft maintenance, Boeing 737-800NG*

ABSTRACT

As an aircraft maintenance, repair and overhaul company, PT MNO is trusted by ABC Airlines to maintain its entire aircraft fleet. One of the aircraft fleets owned by ABC Airlines is the Boeing 737-800NG. This type of aircraft has a maintenance contract with PT MNO within a period of 12 years. However, based on data from 2015 to 2018, many aircraft maintenance is carried out under the planned time period. The more care that is done, the greater the maintenance costs incurred by PT MNO. This study aims to conduct a cost analysis due to the difference in the amount of maintenance on the Boeing 737-800NG aircraft owned by PT MNO.

This research was conducted by selecting an aircraft that will be used as the object of cost analysis. The aircraft was selected based on statistical tests of sample and population data carried out on all ABC Boeing 737-800NG aircraft. Calculation of the difference in the number of maintenance is carried out on selected aircraft. Maintenance difference costs are obtained by calculating the amount of maintenance and maintenance costs.

The results of this study show that 37% of continuous airworthiness maintenance planning numbers were carried out according to the original plan. The amount of the difference in costs calculated is US \$ 894,542.

Keywords: *preventive maintenance, cost analysis, aircraft maintenance, Boeing 737-800NG*