

Analisis ergonomi desain Tactical Commander Console (TACCO) pada pesawat jarak menengah bermesin dua varian Maritime Patrol Aircraft (MPA) dalam virtual environment = The analysis of ergonomic design of Tactical Commander Console (TACCO) in the virtual environment of medium ranged twin engined Maritime Patrol Aircraft (MPA).

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Abstrak

Penelitian ini dilakukan untuk mengkaji aspek ergonomis pada desain Tactical Commander Console (TACCO) pada pesawat jarak menengah bermesin dua dalam virtual environment. Analisis dilakukan dengan menggunakan software Jack 6.0. Metode evaluasi yang digunakan dalam penelitian ini adalah metode Posture Evaluation Index (PEI) yang mengintegrasikan hasil analisis dari tiga buah metode: Lower Back Analysis (LBA), Ovako Working Posture Analysis (OWAS), dan Rapid Upper Limb Assessment (RULA).

Tujuan penelitian ini adalah mengevaluasi desain aktual Tactical Commander Console (TACCO) dan mencari konfigurasi desain ulang paling ergonomis ditinjau dari jarak panel, kemiringan panel, dan tinggi kursi. Hasil penelitian menunjukkan bahwa desain Tactical Commander Console (TACCO) yang ergonomis adalah jarak panel sebesar 10 cm, kemiringan panel sebesar 60, dan tinggi kursi sebesar 29,5 cm.

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This study is done to examine ergonomic aspect on the design of Tactical Commander Console (TACCO) in the virtual environment of medium-ranged twin-engined aircraft. The analysis conducted using Jack 6.0 software. The evaluation method being used in this study is the Posture Evaluation Index (PEI) method which integrates the results of analysis from three methods: Lower Back Analysis (LBA), Ovako Working Posture Analysis (OWAS), and Rapid Upper Limb Assessment (RULA).

The purpose of this study is to evaluate the actual design of Tactical Commander Console (TACCO) and to search the most ergonomic design configuration; which reviewed from the distance and the tilt angle of panel and the height of chair. The result of this study shows that the ergonomic design of Tactical Commander Console (TACCO) are: panel with the distance of 10 cm and the tilt angle by 60, and the chair height of 29,5 cm.