

ABSTRACT

Analysis The Capacity of Apron and Optimization Parking Stand in Terminal Cargo Soekarno Hatta Airport, Octo Ahmad Qomarullah, 41115120199, Ir. Zainal Arifin, MT 2017

The increasing number of the passengers movement and freight are significant from time to time especially in Soekarno-Hatta Airport. In addition to the number of passengers, there are also increasing freight movements, both baggage, post and also cargo, this is related to the facilities which provided by Soekarno-Hatta Airport Management.

This research aims to understand the needs of Parking Stand for the next five years and the Capacity of Apron in Terminal Cargo, Soekarno Hatta Airport and also to optimize the Apron right now in order to complies Parking stand cargo planes during operation hour, both in normal or in rush time. This research adapts analysis linear regression method (forecasting).

The result of this analysis by using linear regression method, the needs plan contact are 3 contact stands which additional 3 contact stands for the type 4E based on existing situation. For the width land recommended, the distance between landscapes of 1 plane 68.4m are based on calculations from Civil Aviation Safety Regulations – 139 (Manual Of Standard CASR – Part 139) Volume 1 Bandar Udara (Aerodromes) 3.61 contact stand (3 contact stand) The airport (Aerodromes), is obtained in sufficient for 3.61 contact stand (3 contact stands). But in planning can only made 2 contact stands because of the roads are inspection for the Airport operation.

Key words : *Apron, Parking Stand, Cargo, Airport, Civil, Aviation, Plane, Regression, Forecasting, Parking, and Movements.*

ABSTRAK

Analisa Kapasitas Apron dan Optimalisasi Parking Stand Di Teminal Kargo Bandar Udara Soekarno - Hatta, Octo Ahmad Qomarullah, 41115120199, Ir. Zainal Arifin, MT 2017

Peningkatan jumlah pergerakan penumpang dan barang khususnya di Bandara Soekarno-Hatta dirasakan semakin bertambah dari waktu ke waktu dengan cukup signifikan. Selain jumlah penumpang juga terdapat pergerakan barang, baik bagasi maupun pos dan juga kargo, hal ini akan terkait dengan fasilitas yang disediakan pihak pengelola Bandara Soekarno-Hatta.

Penelitian ini bertujuan untuk mengetahui kebutuhan *parking stand* lima tahun kedepan dan kapasitas apron di area terminal kargo bandara soekarno – hatta, serta untuk mengoptimalkan apron yang ada saat ini sehingga mampu memenuhi kebutuhan parkir stand pesawat kargo saat beroperasi pada jam normal maupun jam sibuk. Penelitian ini menggunakan pendekatan metode analisa regresi linear (*forecasting*).

Hasil dari analisis dengan metode analisa regresi linear, kebutuhan contact stand tahun rencana sebanyak 3 contact stand dimana diperlukan penambahan 3 contact stand untuk pesawat tipe 4E berdasarkan kondisi eksisting. Dengan luas lahan yang direkomendasikan maka dengan jarak antar bentang 1 pesawat 68.4m dengan dasar perhitungan dari Peraturan Keselamatan Penerbangan Sipil – 139 (Manual Of Standard CASR – Part 139) Volume 1 Bandar Udara (Aerodromes) maka didapatkan mencukupi untuk 3.61 contact stand (3 contact stand). Tetapi dalam perencanaannya hanya bisa dibuat 2 contact stand \ dikarenakan terdapat jalan inspeksi untuk operasional bandara.

Kata kunci : *Apron, Parking Stand, Kargo, Bandar Udara, Teknik Sipil, Penerbangan, Pesawat, Regresi Linier, Forecasting, Parkir dan Pergerakan.*



UNIVERSITAS
MERCU BUANA