

Assignment 3: Air Traffic Control and Runway Separations

Date Due: June 29, 2016

Instructor: Trani

Problem 1

Analysis of flight operations at the Pudong International Airport. Use baidu.com or bing.com mapping applications to answer the following:

- a) Measure the distances between all four runways to help you answer the following questions.
- b) Can the airport conduct simultaneous instrument arrival operations? State the ICAO rule needed to satisfy independent instrument arrival operations to the airport. State the runways that could be used simultaneously.
- c) Can the airport conduct simultaneous arrivals to runway 34R and departures on runway 34L? State the ICAO rule needed to satisfy independent instrument arrival operations to the airport.

Problem 2

Analysis of flight operations at the Beijing International Airport. Use baidu.com or bing.com mapping applications to answer the following:

- a) Measure the distances between all three runways to help you answer the following questions.
- b) Can the airport conduct simultaneous instrument arrival operations? State the ICAO rule needed to satisfy independent instrument arrival operations to the airport. State the runways that could be used simultaneously.
- c) Using US rules for triple independent approaches, can the airport conduct simultaneous triple arrivals from the South?

Problem 3

Analysis of flight operations at the Hong Kong International Airport. Use baidu.com or bing.com mapping applications to answer the following:

- a) Measure the perpendicular distance between the two runways to help you answer the following questions.
- b) Can the airport conduct simultaneous instrument arrival operations? State the ICAO rule needed to satisfy independent instrument arrival operations to the airport. State the runways that could be used simultaneously.

Problem 4

Analysis of flight operations at the Chengdu International Airport. Use baidu.com or bing.com mapping applications to answer the following:

- a) Measure the perpendicular distance between the two runways to help you answer the following questions.
- b) Can the airport conduct simultaneous instrument arrival operations? State the ICAO rule needed to satisfy independent instrument arrival operations to the airport.
- c) Can the airport conduct simultaneous departure operations from the two existing runways? State the ICAO rule needed to satisfy independent instrument arrival operations to the airport.