

Asia/Pacific Airport Coordinators Association (APACA)

Agenda Item 7

Any Other Business (1)

Proposal to Survey the Constraints on the aircraft operations
In terms of Environment Protection

3rd APACA meeting
17 November, 2011
Singapore

Proposal to survey the constraints on aircraft operations (1)



Hong Kong International Airport



Incheon International Airport



Macau International Airport



Kansai International Airport

Example of Noise Free Airports ;
Ideal Airports

Proposal to Survey the constraints on aircraft operations (2)

The General Concept of Mitigation of Aircraft Noise

1. Reduction of Noise at Source

- (1) Non-Noise Certificated (NNC) (B707, DC-8 etc.)
- (2) Chapter 2 Aircraft (B727, DC-9 etc.)
- (3) Chapter 3 Aircraft (B737-300/400, B767, A319 etc.)
- (4) Chapter 4 Aircraft

2. Noise Abatement Procedures

- (1) Preferential use of runways and routes
- (2) Noise abatement procedures (take-off, approach and landing)

3. Operating Restrictions

- (1) Restriction on the operation of certain type of aircraft
- (2) Constraints on aircraft operations (No of operations/time and day)
- (3) Night curfew

4. Land Use Planning and Management

- (1) Forecasting the noise contours (WECPNL, Lden)
- (2) Definition of zones with different noise levels
- (3) Countermeasures for each zone such as compensation for removal, sound-proofing renovation

Proposal to Survey the constraints on aircraft operations (3)

2. (1) Preferential runways and routes	Preferential Runway Usage	
		Do you have any restrictions on the runway usage?
		What time are the restrictions applied?
		How do you notify the airlines?
	Preferential Routes	
		Do you have any preferential routes?
	What time are the preferential routes applied?	
	How do you notify the airlines?	
3. (1) Restriction on the operation of certain type of aircraft	Restriction on the operation of the certain type of aircraft	
		Do you have any restriction on the operations of certain type of aircraft?
		What are the types of aircraft?
		How do you notify the airlines?
	Concession on the operation	
		Is there an concession for any particular type of aircraft?
	What is the content of concession?	

Proposal to Survey the constraints on aircraft operations (4)

Draft Content of Questionnaire

3. (2) Constraints On Aircraft Operations	Noise Quota (Day)	
		Do you have any restrictions on the number of aircraft operations for a day?
		How many aircraft operations are allowed for a day?
	Noise Quota (Day Time)	
		Do you have any restrictions on the number of aircraft operations during the day time?
		How many aircraft operations are allowed for an hour?
3. (3) Curfew	Noise Quota (Night Time)	
		Do you have any restrictions on the number of aircraft operations during the night time?
		How many aircraft operations are allowed for an hour?
	Curfew	
	Do you have a night curfew?	
	From what time to what time is the airport closed for operation?	

Proposal to Survey the constraints on aircraft operations (5)

