

# 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	<b>Preferential Runway Usage</b>	
		Do you have any restrictions on the runway usage?
		What time are the restrictions applied?
		How do you notify the airlines?
	<b>Preferential Routes</b>	
		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	<b>Restriction on the operation of the certain type of aircraft</b>	
		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?
	<b>Concession on the operation</b>	
		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	<b>Noise Quota (Day)</b>	
		Do you have any restrictions on the number of aircraft operations for a day?
		How many aircraft operations are allowed for a day?
	<b>Noise Quota (Day Time)</b>	
		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	<b>Noise Quota (Night Time)</b>	
		Do you have any restrictions on the number of aircraft operations during the night time?
		How many aircraft operations are allowed for an hour?
	<b>Curfew</b>	
	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)

