



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**TWENTY-SECOND MEETING OF THE
ASIA/PACIFIC AIR NAVIGATION PLANNING AND
IMPLEMENTATION REGIONAL GROUP (APANPIRG/22)**

Bangkok, Thailand, 5-9 September 2011

**Agenda Item 3:
3.1**
**Performance Framework for Regional Air Navigation Planning
and Implementation-AOP**
**PERFORMANCE-BASED APPROACH AND MEASUREMENT
AOP RELATED PFF**

(Presented by the Secretariat)

SUMMARY

This paper provides updated Performance Framework Forms in the AOP field for review by the meeting.

This paper relates to

Strategic Objectives:

A: Safety – Enhance global civil aviation safety

C: Environmental Protection and Sustainable Development of Air Transport – Foster harmonized and economically viable development of international civil aviation that does not unduly harm the environment

Global Plan Initiatives:

GPI/13- Aerodrome Design and Management

GPI/14- Runway Operations

Action by the meeting is at Para 3 to this paper.

1. INTRODUCTION

1.1 The ICAO planning objective is to achieve a performance based global air traffic management system through the implementation of air navigation systems and procedures in a progressive, cost-effective and cooperative manner. One of the key aspects of the performance based approach is the development of regional performance objectives with measurable outcomes and metrics. The Twentieth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/20) adopted Asia Pacific Regional Performance Objectives and the associated Performance Framework Forms (PFFs) under Conclusion 20/2.

Conclusion 20/2 – Asia Pacific Regional Performance Objectives

That, the Asia Pacific Regional Performance Objectives and associated Performance Framework Forms (PFFs) as contained in Appendix A to APANPIRG/20 Report on Agenda Item 3.0 be adopted.

1.2 The adoption of APANPIRG/20 Conclusion 20/2 supports the ICAO planning objective to achieve a performance based global air traffic management system (ATM).

2. DISCUSSION

2.1 The meeting will recall that the following Regional Performance Objectives in the AOP field based on the current regional work programme were developed by APANPIRG/20.

APAC Objective 16 - Enhance safety and efficiency of aerodrome operations
APAC Objective 17 - Improve contingency measures for aerodrome operations

2.2 The **Attachment 1** to this paper contains the Performance Framework Forms associated with these Regional Performance Objectives to be reviewed by the meeting and updated if necessary.

2.3 APANPIRG/20 also adopted Conclusion 20/3 to encourage States to use the similar template format from the regional objectives as the basis for their national objectives to align with Regional & National Performance Objectives.

2.4 The Regional Office in letter ref AN 3/3- AP003/11 (AGA) dated 13 January 2011 urged States to update the status for assessment of progress made in meeting the plan objectives. In all, 9 member States [Australia, Fiji, Japan, Malaysia, Maldives, Mongolia, New Zealand, Pakistan, Philippines, Republic of Korea, Singapore, and Thailand], and one Administration (Hong Kong China) provided the updated status.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review the Performance Framework Forms in the Attachment; and
- b) provide updates if necessary;

ATTACHMENT 1

ASIA/PACIFIC REGION

*PERFORMANCE FRAMEWORK FORM
(REGIONAL)*

(Amended 11 September 2009)

<i>REGIONAL PERFORMANCE OBJECTIVE: <u>APAC Objective 16</u> ENHANCE SAFETY AND EFFICIENCY OF AERODROME OPERATIONS</i>				
Benefits				
Safety	<ul style="list-style-type: none"> • Ensure continued safety, regularity and efficiency of aircraft operations at aerodromes • Ensure the aerodromes are in compliance with the relevant ICAO SARPS and Civil Aviation Regulations. • Prevention of accidents • Reduction/elimination of deficiencies • Uniform conditions for aircraft of all other contracting states 			
Efficiency	<ul style="list-style-type: none"> • improved aerodrome capacity 			
Strategy Short term (2009-2012)/medium term (2009-2015)				
ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
AO (Aerodrome operations), CM (conflict management), TS (Traffic synchronization), AUO (Airspace user operations)	<u>AERODROME CERTIFICATION</u>			
	<ul style="list-style-type: none"> • Facilitate the implementation of Aerodrome Certification by conduct of courses and seminars. 	2009 , 2010, 2011 & 2012	ICAO APAC Office	Completed in 2009/10
	<ul style="list-style-type: none"> • Establish a regulatory framework specifying the criteria for the certification of aerodromes. 	2009-2011	State	In Progress[30 States have confirmed the existence of a basic aviation law
	<ul style="list-style-type: none"> • Establish a regulatory authority [CAA] 	2009-2012	State	In progress
	<ul style="list-style-type: none"> • Develop and approve aerodrome certification regulations and standards 	2009-2012	State	In progress [Aerodrome certification regulations have been promulgated in 28 States, including 1 Territory (French Polynesia) and one Administration (Hong Kong).
	<ul style="list-style-type: none"> • Develop, issue and maintain guidance material and Advisory circulars on aerodrome certification for service providers. 	2009-2012	State	In progress

ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
	<ul style="list-style-type: none"> Develop, issue and maintain guidance material and Advisory circulars on aerodrome certification for service providers. 	2009-2012	State	In progress
	<ul style="list-style-type: none"> Establish an entity within CAA responsible for aerodrome safety oversight and staffing requirements. Develop Manual of Aerodrome oversight procedures and Aerodrome Inspector Handbook 	2009-2012	State	In progress
	<u>SMS AT CERTIFIED AERODROMES</u>			
	<ul style="list-style-type: none"> Facilitate the implementation of SMS by the conduct of courses 	2010, 2013	ICAO	ICAO SMS Course conducted from 20 to 24 June 2011
	<ul style="list-style-type: none"> Develop SMS regulations & guidance material for the implementation of SMS, staff training, enforcement policy and communication means; 	2009-2014	State	In progress [. SMS regulations have been promulgated in 16 States, including one Territory and one Administration. 57 airports have stated that an SMS is in place at the certified aerodrome.
	<ul style="list-style-type: none"> Develop and establish the action plan on safety targets, hazard reporting, staff training, safety oversight, guidance material and accepted level of safety 	2009-2015	State	In progress
	<u>WILDLIFE HAZARD CONTROL AND REDUCTION</u>			
	<ul style="list-style-type: none"> Survey to collect information on state's practices with respect to airport wildlife control 	2010	ICAO APAC Office	Completed
	<ul style="list-style-type: none"> Establishment of a national procedure for recording and reporting wildlife strikes to aircraft; 	2010 -2012	State	In progress[15 States including one Administration have informed that a National Bird control committee has been established

ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
	<ul style="list-style-type: none"> Establishment of a national bird control committee 	2009-2012	State	In progress
	<ul style="list-style-type: none"> Conduct wildlife assessments and Implement wildlife control programmes. Airports develop and professionally implement management plan to reduce the risk of strikes. 	2009-2012	State	In progress
	<ul style="list-style-type: none"> Land use management inside and in the vicinity of airport 	2010 - 2015	State	In progress
	<ul style="list-style-type: none"> States collect wildlife strike reports and forward to ICAO for inclusion in the ICAO IBIS (data base) 	2009-2012	State	In progress
	<ul style="list-style-type: none"> Seminar on wildlife assessment /reduction 	2011	ICAO APAC Office	Completed in Dec 2010
	<ul style="list-style-type: none"> Wildlife hazard management training for airport personnel 	Continuous basis	State	In progress
	<u>AERODROME SAFETY MEASURES</u>			
	<ul style="list-style-type: none"> Monitoring the height of buildings or structures within the boundaries of OLS; 	2009-2015	State	In progress
	<ul style="list-style-type: none"> Measurement and reporting of friction characteristics of wet paved runways 	2011	State	In progress
	<ul style="list-style-type: none"> procurement of a friction measuring device 	2011	State	In progress
	<ul style="list-style-type: none"> establishment of maintenance friction level below which corrective action should be initiated; and 	2011	State	In progress
	<ul style="list-style-type: none"> establishment of minimum friction level below which information that a runway may be slippery when wet is made available. 	2011	State	In progress
	<ul style="list-style-type: none"> Provision of runway end safety area; 	2014	State	In progress

ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
	<ul style="list-style-type: none"> • Provision of runway end safety area; 	2014	State	In progress
	<ul style="list-style-type: none"> • Provision of enhanced visual aids and markings to help prevent runway incursions • Seminar on runway surface friction measurement 	2014 2011	State ICAO	In progress Targeted for 2013
Linkage to GPIs	GPI/13 Aerodrome Design and Management and GPI/14 Runway operations			
References	<ul style="list-style-type: none"> • <i>Annex 14, Volume I</i> • <i>Doc 9774 – Manual on certification of Aerodromes</i> • <i>Doc 9859 – Safety Management Manual</i> • <i>Doc 7300 – convention on International civil Aviation</i> • <i>Doc 9137 – Airport Services Manual, Part 3, bird control and reduction;</i> • <i>Doc 9332 – Manual on the ICAO Bird Strike information System (IBIS)</i> • <i>Doc 9184 – Airport Planning Manual Part 2, Land Use and Environmental Control.</i> • <i>Doc 9157 – Aerodrome Design Manual, Part 1, Runways</i> • <i>Doc 9157 – Aerodrome Design Manual, Part 3, Pavements</i> • <i>Doc 9157 – Aerodrome Design Manual, Part 4, Visual Aids</i> • <i>Doc 9137 – Airport Services Manual, Part 2, Pavement surface Conditions</i> • <i>Doc 9137 – Airport Services Manual, Part 6, Control of Obstacles</i> • <i>Doc 9137 – Airport Services Manual, Part 8, Airport Operational Services</i> • <i>Doc 9137 – Airport Services Manual, Part 9, Airport Maintenance Practices</i> 			

ASIA/PACIFIC REGION

*PERFORMANCE FRAMEWORK FORM
(REGIONAL)*

(Amended 11 September 2009)

REGIONAL PERFORMANCE OBJECTIVE: <u>APAC Objective 17</u>				
<i>IMPROVE CONTINGENCY MEASURES FOR AERODROME OPERATIONS</i>				
<i>Benefits</i>				
Safety	<ul style="list-style-type: none"> • Ensures better coordination between the different airport agencies and of those agencies in the surrounding community • Minimizes the effects of an emergency particularly in respect of saving lives and maintaining aircraft operations. • Safe continuation of aircraft operations 			
Efficiency	<ul style="list-style-type: none"> • Prompt response by RFF, police/security, medical services and other agencies 			
<i>Strategy Short term (2009 - 2012)</i>				
ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
AO (Aerodrome operations), CM (conflict management), TS (Traffic synchronization), AUO (Airspace user operations)	<u>AERODROME EMERGENCY PLANNING</u>			
	<ul style="list-style-type: none"> • Initiate a survey to assess the level of implementation on aerodrome emergency planning 	2012	ICAO APAC Office	
	<ul style="list-style-type: none"> • Establish aerodrome emergency plan document 	2009-2011	State	In progress
	<ul style="list-style-type: none"> • Conduct full scale aerodrome emergency exercise at intervals not exceeding two years; and • Partial emergency exercises in the intervening year to ensure that any deficiencies found during the full scale aerodrome emergency exercise have been corrected 	2009- 2012	State	In progress

ATM OC COMPONENTS	TASKS	TIME FRAME	RESPONSIBILITY	STATUS
	<ul style="list-style-type: none"> • Establish procedure for emergencies in difficult environments at those airports located close to water and/or swampy areas or difficult terrain. • Conduct seminar on AEP 	<p>2009-2011</p> <p>2011</p>	<p>State</p> <p>ICAO</p>	<p>In progress</p> <p>Rescheduled to 2013</p>
Linkage to GPIs	GPI/13 Aerodrome Design and Management and GPI/14 Runway operations			
References	<ul style="list-style-type: none"> • <i>Annex 14, Volume I</i> • <i>Doc 9137 – Airport Services Manual, Airport emergency Planning, Part 7</i> 			

REGIONAL PERFORMANCE FRAMEWORK

TASKS	Australia	Hong Kong, China	Fiji Islands	Japan	Maldives	Malaysia	Mongolia	New Zealand	Pakistan	Philippines	ROK	Singapore	Thailand	ICAO
APAC Objective 16														
<u>AERODROME CERTIFICATION</u>														
Facilitate the implementation of Aerodrome Certification by conduct of courses and seminars.														2009 & 10
Establish a regulatory framework specifying the criteria for the certification of aerodromes.	Yes	Yes	Yes	Yes	Yes	Yes	yes	Yes	Yes	Yes	Yes	Yes	In progress	
Establish a regulatory authority [CAA]	Yes	Yes	Yes	Yes	In progress	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Develop and approve aerodrome certification regulations and standards	Yes	Yes	In progress	Yes	Yes	Yes	yes	Yes	Yes	Yes	Yes	Yes	Yes. Review ongoing	In progress
Develop, issue and maintain guidance material and Advisory circulars on aerodrome certification for service providers.	Yes	Yes	In progress	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Ongoing	In progress
Establish an entity within CAA responsible for aerodrome safety oversight and staffing requirements. Develop Manual of Aerodrome oversight procedures and Aerodrome Inspector Handbook	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	In progress	
<u>SMS AT CERTIFIED AERODROMES</u>														
Facilitate the implementation of SMS by the conduct of courses														June 2011
Develop SMS regulations & guidance material for the implementation of SMS, staff training, enforcement policy and communication means;	Yes	Yes	In progress	Yes. 2013 with ICAO SMS 2nd edition	Yes	Yes	SSP In progress	In progress 2013	-	Yes	Yes	Yes	Yes. GM in progress	

TASKS	Australia	Hong Kong, China	Fiji Islands	Japan	Maldives	Malaysia	Mongolia	New Zealand	Pakistan	Philippines	ROK	Singapore	Thailand	ICAO
Develop and establish the action plan on safety targets, hazard reporting, staff training, safety oversight, guidance material and accepted level of safety	Yes	Yes	In progress	Yes. As above	SSP 2012	Yes	SSP manual in progress	In progress 2015	-	Yes	Yes	Yes		
<u>WILDLIFE HAZARD CONTROL AND REDUCTION</u>														
Survey to collect information on state's practices with respect to airport wildlife control														2010
Establishment of a national procedure for recording and reporting wildlife strikes to aircraft;	Yes	Yes	In progress	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	Yes	
Establishment of a national bird control committee	Yes	Yes	YES. 2010	Yes	Yes 2008	Yes 2009	2012	Yes	Yes	In progress	Yes	Yes 2010	Yes	
Conduct wildlife assessments and Implement wildlife control programmes. Airports develop and professionally implement management plan to reduce the risk of strikes.	Yes	Yes	Yes, under review	Yes	in progress	In progress 2012	2012	Yes	In progress	On-going	Yes	Yes		
Land use management inside and in the vicinity of airport	Yes	Yes	Yes	Yes	Yes	In progress 2013	2012-2015	Yes	-	On-going	Yes	Yes		
States collect wildlife strike reports and forward to ICAO for inclusion in the ICAO IBIS (data base)	Yes	Yes	In progress	On going	yes	In progress 2012	Yes. In progress		In progress	On-going	yes	yes		
Seminar on wildlife assessment/reduction														2010
Wildlife hazard management training for airport personnel	Yes	Yes	In progress	On going	Yes	On going	-	Yes	In progress	On-going	Yes	On-going		

TASKS	Australia	Hong Kong, China	Fiji Islands	Japan	Maldives	Malaysia	Mongolia	New Zealand	Pakistan	Philippines	ROK	Singapore	Thailand	ICAO
<u>AERODROME SAFETY MEASURES</u>														
Monitoring the height of buildings or structures within the boundaries of OLS;	Yes	Yes	Yes	Yes	In progress 2012	Yes	Yes	Yes	In progress 2015	yes	Yes	On-going		
Measurement and reporting of friction characteristics of wet paved runways	Yes	Yes	Jan 2011	Yes	In progress	Yes	yes	Yes	Yes	yes	Yes	On-going		
procurement of a friction measuring device	Yes	Yes	Jan 2011	Yes	In progress Sep 2011	Yes	yes	Yes	Yes	In progress	Yes	Yes		
establishment of maintenance friction level below which corrective action should be initiated	Yes	Yes	Jan 2011	Yes	In progress	Yes	In progress	Yes	-	NIL	Yes	Yes		
Establishment of minimum friction level below which information that a runway may be slippery when wet is made available.	Yes	Yes	Jan 2011	Yes	In progress	Yes	In progress	Yes	-	In progress	Yes	Yes		
Provision of runway end safety area;	Yes	Yes	In progress	Yes	2014	Yes	2011-2014	Yes	In progress	Yes	Yes	Yes		
Provision of enhanced visual aids and markings to help prevent runway incursions	In progress	Mid 2011	In progress	Yes	In progress	Yes	2011-2014	Yes	In progress	Yes	Yes	Yes 2009		
Seminar on runway surface friction measurement														2012
<u>APAC OBJECTIVE 17-AERODROME EMERGENCY PLANNING</u>														
•Initiate a survey to assess the level of implementation on aerodrome emergency planning														
Establish aerodrome emergency plan document	Yes	Yes	Implemented under review	Yes	MIA-yes GIA-in progress	Yes	Yes	Yes	-	On-going	Yes	Yes		

