International Civil Aviation Organization

Fourteenth Meeting of the APANPIRG ATM/AIS/SAR Sub-Group (ATM/AIS/SAR/SG/14)

Bangkok, Thailand, 28 June – 2 July 2004

Agenda Item 2:   **Review the APANPIRG/14 Report and subsequent ANC/Council Actions with respect to ATM/AIS/SAR issues**

KEY PRIORITIES FOR CNS/ATM IMPLEMENTATION IN THE ASIA/PACIFIC REGION

(Presented by the Secretariat)

SUMMARY

This paper presents for review by the meeting Key Priorities for CNS/ATM Implementation in the Asia/Pacific Region.

1. INTRODUCTION

1.1   The APANPIRG/14 meeting held in Bangkok, Thailand from 4 – 8 August 2003 reviewed and updated a number of Key Priorities for the CNS/ATM Implementation in the Asia/Pacific Region.

2. DISCUSSION

2.1   A copy of the Key Priorities for CNS/ATM Implementation in the Asia/Pacific Region is provided at Appendix A.

3. ACTION BY THE MEETING

3.1   The meeting is invited to review the appended Key Priorities for CNS/ATM Implementation.

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Key Priorities for CNS/ATM Implementation in the Asia/Pacific Region

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
1	ATN Implementation	Implementation of Ground-to-Ground element of ATN is required.	2005	CNS/MET ATN Transition Task Force	2005
2	Incorporation of CNS/ATM Material into Regional ANP & FASID	Incorporation of CNS/ATM Material into Regional ANP & FASID	APANPIRG/13	ATS/AIS/SAR	On-going
3	WGS-84 Implementation	To achieve uniformity in aeronautical data publication across the Region in order to ensure a standard reference system for CNS/ATM.	Immediate (Effective Date was 1 Jan 1998)	ATS/AIS/SAR	Implementation is monitored at each meeting using the uniform format for the reporting of WGS-84 implementation. Report progress to APANPIRG/14
4	RVSM Implementation	To provide more efficient flight profiles and to increase airspace capacity in conjunction with the implementation of CNS/ATM.	Bay of Bengal – 27 November 2003	ATS/AIS/SAR	

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
5	RNP Implementation En-route RNP 10 & 4 Terminal RNP 4& 1 Approach RNP 0.3	*Implement RNP based navigation, operation and procedures to improve the efficiency and flexible use of airspace.*	On Going Report to APANPIRG	ATS/AIS/SAR & CNS/ATM/IC	Phased implementation.
6	ADS-C	The implementation of ADS in oceanic or remote areas in accordance with the Regional CNS/ATM Plan is required for the enhancement of safety and ATM.	APANPIRG	ATS/AIS/SAR	-Phased implementation. Revised Regional CNS/ATM Guidance Material developed containing ADS section. -Implementation focus and timetable need to be developed. -States are gaining experience in the use of ADS.
7	Technical Co-operation in Regional CNS/ATM Planning & Implementation	The continuation and enhancement of ICAO's co-ordinating role of technical co-operation in CNS/ATM planning and implementation, in close co-operation with all partners and taking into account the regional approach, is required.	APANPIRG/14	All	Sub-groups to identify requirements.
8	Preparation for WRC-2007	The co-operative participation of States is required with their respective telecommunications regulatory authorities, regional groups such as the APT and at the WRC, preparatory meetings and study groups to ensure that aviation spectrum requirements	WRC-2007	All	

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
		are fulfilled including GNSS spectrum requirements are protected.			
9	GNSS Implementation • ABAS • SBAS • GBAS	To implement GNSS in accordance with the Asia Pacific Regional Strategy. Develop regional GNSS Augmentation requirements Ensure region wide awareness of developing GNSS systems integrate into Regional Plan.	On Going. Report to APANPIRG	All	*SBAS – WAAS IOC announced on 10 July 2003* *SBAS receiver - TSO C145/6 receivers now available* *GBAS – FAA LAAS contract for delivery in 2006*
10	ATS route implementation	To review and develop new requirements for ATS routes.	APANPIRG/15	ATS/AIS/SAR	*2004*

NO.	KEY PRIORITIES	DESCRIPTION	MILESTONES	SUB-GROUP	STATUS
11	Final phase of WAFS	To implement transition to the final phase of WAFS to support the CNS/ATM system.	2004	CNS/MET SG	• WAFS Transition Plan and Procedures has been developed and is being successfully implemented. • Transfer of responsibility of RAFCs to WAFCs London and Washington has been implemented. • Closure of RAFCs has been implemented.
12	MET Chapter 8 of the ASIA/PAC Regional Plan for New CNS/ATM System	To develop MET components of the ASIA/PAC CNS/ATM concept/strategy To develop MET Chapter of the Regional CNS/ATM Plan	2003 2004	CNS/MET SG with assistance of the ATS/AIS/SAR SG METATM TF	• The first draft of MET Chapter of the Regional CNS/ATM Plan has been developed. • METATM TF to develop MET components of the ASIA/PAC CNS/ATM concept/strategy.
13	Data – link Communications	Implementation of CPDLC. AIDC to be introduced where ATS automated systems are implemented.	On -going 2005	All All	Sub – Groups to review progress of implementation. Implementation focus and time table need to be developed.

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14	ADS-B	Data Link Selection for ADS/B recommended by ADS-B Task Force	2003	CNS/MET	APANPIRG/14 adopted 1090 MHz ES as the data link for ADS-B in ASIA/PAC region.
		Target date of Implementation: States, where appropriate, implement "ADS-B out" for ground-based surveillance services on a sub-regional basis. ADS-B Task Force to develop implementation plan and sub-groups foster implementation.	2006	All	
15	Implementation of APV and RNP Approaches	Review applicability of APV and RNP Approach Design Standards for Asia Pacific. Develop implementation strategy.	On Going. Report to APANPIRG	ATS/AIS/SAR	APV and RNP Design standards now in PANS OPS. Aircraft certified for RNP and APV approaches.

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16	Data Link Flight Information Services (DFIS) applications	To implement the following applications via request/response mode of data link in the Asia and Pacific Regions: a) Data link –automatic terminal information services (D-ATIS); b) VOLMET data link service (D-VOLMET); c) Pre-Departure Clearance (PDC) delivery via data-link;	2008	All	Trials and demonstrations are conducted and some operational services are provided by States; D-VOLMET to be implemented by VOLMET Broadcast Stations specified in the FASID.
17	Safety Management Systems	States to establish national safety management systems and effective application of safety programmes which are required for the provision of air traffic services.	APANPIRG/14	CNS/ATM/IC RASMA/SG (Subject to APANPIRG/14)	Annex 11 provision effective 27 November 2003.