



International Civil Aviation Organization

Sixth Meeting of CNS/MET Sub-Group of APANPIRG

Bangkok, Thailand, 15 – 19 July 2002

Agenda Item 15: Deficiencies in the COM/NAV/SUR and MET fields

LIST OF NOTED DEFICIENCIES IN THE CNS AND MET FIELDS

(Presented by the Secretariat)

SUMMARY

This paper presents a list of noted deficiencies in the CNS and MET fields for review by the Meeting.

1. INTRODUCTION

1.1 The list of deficiencies in the CNS and MET fields are provided in the Attachment for review by the Meeting.

2. DISCUSSION

2.1 The ICAO Council on 30 November 2001 approved the single definition of the shortcoming and deficiency as “Deficiency”

2.2 A deficiency is defined as a facility, service or procedure does not comply with a regional air navigation plan or with related ICAO SARPs and which situation has a negative impact on the safety, regularity and/or efficiency of international civil aviation.

2.3 The list of deficiencies in the CNS and MET fields was reviewed and updated by APANPIRG/12 Meeting held in Bangkok from 20-24 August 2001. The list needs to be further updated to indicate progress made towards overcoming the implementation problems and to update the list.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review the deficiencies listed in the Attachment;
- b) update it based on actions taken by States concerned to overcome the problems;
- c) identify additional deficiencies, if any; and
- d) recommend actions for early implementation of required facilities or services.

**Sixth Meeting of CNS/MET/ Sub-Group of APANPIRG
Air Navigation Deficiencies in the CNS Field
in the ASIA/PAC Region**

Attachment to CNS/MET/SG/6-WP/6-1

Identification		Deficiencies				Corrective action			
Requirements	States/facilities	Description	Date first reported	Implementation status	Remarks	Description	Executing body	Target date for completion	Priority for action* *
VHF coverage to be provided in the Southern Part of Dhaka FIR and withdrawal of HF	Bangladesh	No requirement for HF except for smaller portion of FIR.HF used for ground-to-ground COM due to lack of ER VHF and reliable ATS DSCs.	1992	No change	HF air ground channels are used to exchange co-ordination messages causing frequency congestion	Survey of the installation sites for RCAG stations has been completed and other formalities are in progress.	Civil Aviation Authority of Bangladesh	Target date being changed each time the status was reviewed and currently established for June 2002.	A
Reliable AFS communications between Kolkata and Dhaka FIRs.	Bangladesh and India	Performance of the Kolkata/Dhaka HF RTT AFTN Circuit has been far below the required reliability of 97%. ATS DSC not implemented. IDD service used for ATS coordination not meeting operational requirement. Agartala/Dhaka and Dhaka/Guwahati. ATS DSCS not implemented.	ATS DSC 1993 AFTN 1995	No change	HF RTT circuit needs to be upgraded to LTT. Corrective action required to improve performance of the IDD services initially. A dedicated circuit should be established between Kolkata and Dhaka. IDD service to be provided for Agartala/Dhaka and Dhaka/Guwahati ATS DSC.	Action is being initiated to upgrade the HF RTT circuit and also to introduce Hotline IDD to enhance reliability pending, establishment of a dedicated circuit. Requirement for Agartala/Dhaka yet to be commissioned. Dhaka/Guwahati and Dhaka/Kolkata ATS DSCs. implemented on IDD. India is ready to upgrade the HF RTT circuit to LTT.	CAA Bangladesh and Airports Authority of India	10/01 06/02	A

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Identification		deficiencies				Corrective action			
Requirements	States/facilities	Description	Date first reported	Implementation status	Remarks	Description	Executing body	Target date for completion	Priority for action* *
Reliable HF/VHF and ATS direct speech circuits in India FIRs	India	RCAG VHF not reliable. HF congested. Some of the ATS DSCs use IDD and operational requirement is not met.	1999	Implementation Completed	Provision for a reliable link to RCAG stations is required to improve quality of VHF. Implementation of reliable ATS-DSC is required to satisfy 15 second access time. HF congestion will be reduced upon improvement in coverage of VHF and availability of reliable of ATS DSCs.	VSAT progressively introduced for RCAG VHF stations. RCAG VHF stations at Porbandar and Agatti controlled from Mumbai is established in October 2001. RCAG VHF station at Vishakhapatnam controlled by both Chennai and Kolkata is established on 10 Oct. 2000. IDD Hotlines have been introduced for ATS DSC communication, satisfying requirements in most cases. HF congestion reduced due to enhancement in IDD communication and also to some extent due to the use of CPDLC.	Airports Authority of India	Implemented	A

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Attachment to CNS/MET/SG/6-WP/6-3

Identification		deficiencies				Corrective action			
Requirements	States/facilities	Description	Date first reported	Implementation status	Remarks	Description	Executing body	Target date for completion	Priority for action* *
Adequate and reliable VHF COM	Myanmar	Quality and reliability of RCAG VHF inadequate and unavailability of required coverage	1998	No change	Improvements in the quality of link to RCAG stations and power supply system are required.	Action should be taken to provide reliable links between the RCAG stations and Yangon ACC. Power supply to the RCAG sites needs improvement.	DCA Myanmar	Established target date of end 1999 was not achieved. Revised target date is end of 2002	A

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In the ASIA/PAC Region

AIR NAVIGATION DEFICIENCIES IN THE MET FIELD IN THE ASIA/PACIFIC REGION

Identification		Deficiencies				Corrective action			
Requirements	States/ facilities	Description	Date first reported	Implementat ion status	Remarks	Description	Executing body	Target date for completion	Priority for action *
Meteorological observations and reports. Provision of Annex 3, Chapter 4	Solomon I.	Weather information is inadequate and not provided on a regular basis	1996	No Change D	Reported by airlines operating to Solomon I.	Equipment to be upgraded and arrangements to be made for regular observations	Ministry of Transport, Works and Aviation, Solomon I.	To be determined	A
a) Requirements for forecasts to be provided. ASIA/PAC ANP, Part IV- Meteorology. Table MET 1A. b) Meteorological observations and reports. Provision of Annex 3, Chapter 4.	Kiribati	a) TAFs for Kiritimati not regularly provided by MET Centre of Fiji. b) MET observations from Kiribati not available on regular basis.	1998	S D	Reported by the National Weather Service concerned during introduction of the new flight operations. Fiji reported that MET observations not regularly available due to communication problems.	a) Temporary arrangements have been made for the Honolulu MET Office to issue 18-hour TAFs during special flight operations. b) Communication between Kiribati and Fiji required to be considered. c) Fiji issues TAFs for Kiribati on a regular basis. d) MET observations in Kiribati in process of implementation.	Directorate of Civil Aviation, Kiribati. Civil Aviation Authority, Fiji COM/MET/NAV/SUR SG	To be determined	A
a) Reporting of information on volcanic eruptions to civil aviation units. Provision of Annex 3. b) International airways volcano watch (IAVW) operational procedures.	Indonesia Philippines	Information on volcano activities not always reach civil aviation units due to lack of fixed communications with volcano observatories.	1995	D	a) Observed by States concerned. b) Reported at the WMO/ICAO Workshop on Volcanic Ash Hazards (Darwin, 1995)	a) MOU will be signed between Department of Transportation and Department of Mining and Energy, Indonesia b) Volcano observations and warnings will be made available on the Internet by Department of Mining and Energy.	a) Volcanic Ash Warning Study Group (VAWSG) to develop proposal. b) ICAO Regional Office to monitor developments on this subject.	2002 To be determined	A

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Attachment to CNS/MET/SG/6-WP/6-5

Identification		Deficiencies				Corrective action			
Requirements	States/ facilities	Description	Date first reported	Implementat ion status	Remarks	Description	Executing body	Target date for completion	Priority for action *
						c) It is expected that MOU between Air Transportation Office and the Philippines Institute of Volcanology and Seismology will be considered. Office and the Philippines Institute of Volcanology and Seismology will be considered.			
a) Service for operators and flight crew members Provision of Annex 3, Chapter 9. b) Requirements for WAFS products for flight documentation. ASIA/PAC ANP, Table MET 1A.	Cambodia Myanmar Papua New Guinea PAC States	VSATs for reception of the ISCS and SADIS satellite broadcasts not installed.	1999	D	Expected lack of products for flight documentation due to forthcoming implementation of the final phase of WAFS and cease of RAFCs operations.	States consider urgent action to be taken for implementation of the ISCS and/or SADIS to install VSATs.	Civil Aviation Administrations in co-ordination with Met. Authorities of the States concerned. COM/MET/NAV/SUR SG to monitor and coordinate.	2001 To be determined	A
a) Aerodrome meteorological Office meteorological watch office Provisions of Annex 3, Chapter 3. b) Requirement for aerodrome meteorological office to be established ASIA/PAC ANP, Table MET 1A	Cambodia	Requirements for Aerodrome meteorological office and meteorological watch office (WMO) to be established at Phnom-Penh international airport have not been met.	1992	No Change S	Requirements have not been met due to staffing and funding problems. MET briefing and flight documentation for return flights provided by the MET offices of other aerodromes.	The Authority concerned to take urgent actions to meet requirements of ANP. If MWO is not able to meet all its obligations, proposal to be considered for temporary transfer of its responsibilities to another MWO and a NOTAM to be issued to indicate such a transfer.	State Secretariat of Civil Aviation, Cambodia.	To be determined	A

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Identification		Deficiencies				Corrective action			
Requirements	States/ facilities	Description	Date first reported	Implementat ion status	Remarks	Description	Executing body	Target date for completion	Priority for action *
Requirements for meteorological watch office to be established ASIA/PAC ANP, Table MET 2A.									
a) SIGMET information Provision of Annex 3, Chapter 7. b) Requirements for dissemination of SIGMETs, including SIGMETs for volcanic ash. ASIA/PAC ANP (FASID) Table MET 2A. c) International airways volcano watch (IAVW) operational procedures.	Bangladesh Cambodia India Indonesia Lao Malaysia Myanmar Nepal Papua New Guinea Philippines Sri Lanka	Requirements for issuance and proper dissemination of SIGMETs, including SIGMET for volcanic ash, have not been fully implement.	2000	a) D b) S	a) Reported by airlines, b) Noted by Volcanic Ash Advisory Centres	a) ICAO to consider proposal for Special Implementation Project be established with the primary objective to improve implementation of SIGMET procedures. b) States to take urgent actions to implement the procedures.	a) ICAO to establish and implement the SIP. b) ICAO Regional Office to co-ordinate. c) Volcanic Ash Working Group to assist Secretariat with development of SIP and its implementation d) COM/MET/NAV/SUR SG to monitor.	2001 2002	A
METAR/TAF Provision of Annex 3, Chapters 4 and 6.	Nauru Solomon I. Papua New Guinea	Routine reports and aerodrome forecasts are issued using old WMO codes.	2001	D	Reported by airlines	a) Arrangements to be made for use of the new WMO codes. b) Training to be provided to staff as required.	Civil Aviation Administration in coordination with MET Services	2002	A