



*International Civil Aviation Organization*

**The Twentieth Meeting of the APANPIRG ATM/AIS/SAR Sub-Group  
(ATM/AIS/SAR/SG/20)**

Singapore, 05 – 09 July 2010

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**Agenda Item 9: Deficiencies in the Air Navigation Field**

**LIST OF AIR NAVIGATION DEFICIENCIES IN THE ATM/AIS/SAR FIELDS**

(Presented by the Secretariat)

**SUMMARY**

One of the main objectives of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) is to identify and address specific deficiencies in the Air Navigation field. This paper presents a list of Air Navigation Deficiencies identified by APANPIRG/20 in the ATM/AIS/SAR fields for review by the meeting. The list is based on the uniform methodology for the identification, assessment and reporting of such deficiencies as described in Part V of the *APANPIRG Procedural Handbook*.

This paper relates to

**Strategic Objectives:**

*A: Safety – Enhance global civil aviation safety*

*D: Efficiency – Enhance the efficiency of aviation operations*

**Global Performance Indicators:**

*All*

**1 INTRODUCTION**

1.1 Under the Terms of Reference of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG), one of the primary objectives of the Group is to identify and address specific deficiencies in the Air Navigation field. In meeting this objective, APANPIRG facilitates the development and implementation of action plans by States to resolve identified deficiencies, where necessary. Consequently, APANPIRG and its Sub-Groups regularly review deficiencies in their respective fields and develop recommendations for remedial actions.

**2 DISCUSSION**

2.1 The 19<sup>th</sup> meeting of APANPIRG (APANPIRG/19, September 2009) placed highest priority in its future work programme for the urgent elimination of the safety-related deficiencies in the region, and urged States to establish action plans with target dates and inform the Regional Office of their plans. In order to facilitate implementation, APANPIRG, in its Conclusion 18/58 had adopted the establishment of Asia/Pacific On-Line Air Navigation Deficiency Data Base linked to the ICAO Regional Office's website with the provision of secured access to the data base to all civil aviation administrations and other authorities concerned in the Asia/Pacific States.

2.2 Recognizing the importance of safety in aviation the APANPIRG has been urging States to resolve their Air Navigation Deficiencies. In accordance with Conclusion 18/60 of APANPIRG/18 (September 2008, Bangkok), only 15 States and one Administration have provided the focal point contact person to coordinate with the Regional Office on matters relating to deficiencies. States that have not done so yet are required to designate the focal point of contact person to Regional office at the earliest.

#### Deficiencies in the ATM/AIS/SAR Fields

2.3 The 11<sup>th</sup> Meeting of the Regional Airspace Safety Monitoring Advisory Group (RASMAG/11, June 2009), while reviewing the list of the Air Navigation Deficiencies in the ATM, AIS and SAR fields, noted that Myanmar and Papua New Guinea (PNG) had previously been included in the list as a result of the non-submission of safety data to a Regional Monitoring Agency (RMA). In the case of Myanmar, the difficulties had been resolved and APANPIRG had accepted RASMAG's recommendation that Myanmar be removed from the list. However, although the situation with PNG had improved, data submission was still not fully reliable, so PNG has been retained on the list. Additionally, data submission from Bangladesh and Lao PDR has been incomplete or absent, so APANPIRG/20 included these two States, as additions, to the Deficiencies List. In this respect, Bangladesh informed that the administration was aware of the difficulty and had assured to have arrangements in place for the data to be transmitted to the RMA at an earliest date. The updated List of Air Navigation Deficiencies in the ATM, AIS and SAR fields is provided in the **Attachment** hereto for review by the meeting.

### **3 ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) review and update the attached list of the Air Navigation Deficiencies in the ATM/AIS/SAR fields, for further review by APANPIRG/21 to be held from 6 to 10 September 2010; and
- b) identify actions to be taken by ATM/AIS/SAR/SG or States concerned to correct the identified deficiencies.

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AIR NAVIGATION DEFICIENCIES IN THE ATM/AIS/SAR FIELDS IN THE ASIA/PACIFIC REGION

<i>(updated 10 September 2009, deletions and additions are secretariat comments for ATM/AIS/SAR/SG/20's review)</i>								
Identification		Deficiencies			Corrective Action			
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
<u>ATS Routes</u>								
Requirements of Part VIII, Table ATS 1 of the Air Navigation Plan	India/Nepal	A473 - Not implemented	16/3/99	A new proposal was submitted in mid-2003 by Nepal. This is being coordinated by Airport Authority of India (AAI) with defense authorities.	Nepal - propose to delete A473 from BANP. India submitted the proposal in March 2008. Nepal <del>yet to</del> submitted the proposal in January 2010. The Regional Office has forwarded the proposal to the headquarter.	Nepal ICAO	Item captured in Chapter 2 of the Route Catalogue. APANPIRG/19 (September 2008, Bangkok) updated re progress.	B
	<del>Philippines/Thailand/ Viet Nam</del>	<del>G473 - Partially implemented</del>	<del>24/11/93</del>	<del>Co-ordination is in progress among States and ICAO.</del>	<del>ICAO - process the amendment the BANP. APAC 09/15 - ATS was approved in October 2010, thus being closed.</del>	<del>ICAO</del>	<del>Superseded by the re-structure of the South China Sea (SCS) route in 2001. Accordingly, the 15th Meeting of South East Asia ATS Coordination Group (SEACG/15, May 2008) was informed that Thailand and States concerned agreed with the deletion of G473. - CLOSED</del>	<del>B</del>
	China	R216 - Not implemented	24/11/93	China advised current the routing B215 KUQA A460 REVKI to Alma Ata met the requirements for traffic from Urumqi to Alma Ata and requests deletion of R216 from BANP (14 Apr 03).	CAAC will coordinate with Kazakhstan to delete R216 from BANP.	China/Kazakhstan ICAO	Captured in Chapter 2 of the Route Catalogue.	B

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Identification		Deficiencies			Corrective Action			
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Cambodia/Lao-PDR/Thailand	R345 - Not implemented. Coordination process completed.	24/11/93		APAC 09/15 - ATS was approved in October 2010, thus being closed.	Cambodia/Lao PDR/ Thailand needs to submit joint amendment proposal to Regional Office	Item captured in Chapter 2 of the Route Catalogue. -----CLOSED	B
	Indonesia	R459 - Implemented as W51 and W36	24/11/93	ICAO has requested Indonesia to implement as R459.	Indonesia, Singapore - consider implementation of the route with designator L504.	Indonesia/Singapore	To be implemented as L504. Target implementation date TBD	B

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Identification		Deficiencies			Corrective Action			
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
<u>WGS-84</u>								
Requirements of Paragraph 3.6.4 of Annex 15	Bhutan	WGS-84 - Not implemented	2/7/1999	Data conversion completed, but not published		Bhutan	TBD	A
	China	WGS-84 - Partially implemented * implemented in the Sanya FIR as of 1 Nov 2001	2/7/1999	Differences to Annex 15 - <i>Aeronautical Information Services</i> are notified		China	China advised APANPIRG/19 (September 2008, Bangkok) that WGS 84 implementation is in progress and planned to be completed in 2010 for all existing airports. All new airports will use WGS84 immediately.	A
	DPR Korea	WGS-84 - Not implemented				DPR Korea	DPRK advised ATM/AIS/SAR/SG/18 verbally that WGS 84 implementation was completed. The Regional Office is waiting for a formal report.	A
	Kiribati	WGS-84 - Not implemented				Kiribati	TBD	A
	Nauru	WGS-84 - Not implemented		Conferring with consultant		Nauru	TBD	A
	Solomon Islands	WGS-84 - Not implemented				Solomon Islands	1999	A
	Vanuatu	WGS-84 - Implemented at main airports	2/7/1999			Vanuatu	1999	A

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<u>Airspace Classification</u>								
Requirements of Paragraph 2.6 of Annex 11	China	Airspace Classification - Not implemented	7/7/99		Difference to Annex 11 is published in AIP, China.	China	APANPIRG/19 updated, implementation planned by end 2010.	A
	Kiribati	Airspace Classification - Not implemented	7/7/99			Kiribati	TBD	A
	Nauru	Airspace Classification - Not implemented	7/7/99			Nauru	TBD	A
	Papua New Guinea	Airspace Classification - Not implemented	7/7/99			Papua New Guinea	Project in place	A
	Solomon Islands	Airspace Classification - Not implemented	7/7/99			Solomon Islands	TBD	A
	Viet Nam	Airspace Classification - Not implemented	7/7/99			Viet Nam	<del>APANPIRG/19</del> ATM/AIS/SAR/SG/19 updated, for <del>first</del> fourth quarter 2009	A

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<u>AIP Format</u>								
Requirements of Chapter 4 of Annex 15	Cook Islands	AIP Format - Not implemented	7/7/99			Cook Islands	ATM/AIS/SAR/G/16 (June 2006) updated - AIP COOK ISLANDS in new format in progress with assistance of New Zealand, effective date by the end of 2008	A
	Kiribati	AIP Format - Not implemented	7/7/99			Kiribati	ATM/AIS/SAR/SG/18 (June 2009) was advised AIP in draft stage	A
	Nauru	AIP Format - Not implemented	7/7/99			Nauru	ATM/AIS/SAR/SG/18 (june 2008) was advised work soon to start	A
	Papua New Guinea	AIP Format - Not implemented	7/7/99			Papua New Guinea	TBA	A

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<u>SAR capability</u>								
Requirements of Annex 12	Cook Islands	Annex 12 requirements not implemented. No agreements with adjacent States.	31/1/95		Cook Islands - implement Annex 12 requirements and co-ordinate LOA with adjacent States ICAO - assist to develop SAR capability and to co-ordinate with adjacent States	Cook Islands	2009. SAR agreement with New Zealand completed 2007.	U
	Maldives	Annex 12 requirements not implemented. No agreements with adjacent States.	24/4/97	SAR services and facilities provided (details to be confirmed). SAR agreements with neighbouring States under development	Maldives - implement Annex 12 requirements and co-ordinate LOA with adjacent States ICAO - assist to develop SAR capability and to co-ordinate with adjacent States	Maldives	2009	U

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Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
<u>Carriage of ACAS II</u>								
Requirement of Chapter 6 of Annex 6	Bhutan	Annex 6 requirement not implemented.	26/8/05		Bhutan - implement Annex 6 as required.	Bhutan	TBD	U
	Cook Islands	Annex 6 requirement not implemented.	26/8/05		Cook Island - implement Annex 6 as required.	Cook Islands	TBD	U
	Kiribati	Annex 6 requirement not implemented.	26/8/05		Kiribati - implement Annex 6 as required.	Kiribati	TBD	U
	Marshall Islands	Annex 6 requirement not implemented.	26/8/05		Marshall Islands - implement Annex 6 as required.	Marshall Islands	TBD	U
	Micronesia	Annex 6 requirement not implemented.	26/8/05		Micronesia - implement Annex 6 as required.	Micronesia	TBD	U
	Nauru	Annex 6 requirement not implemented.	26/8/05		Nauru - implement Annex 6 as required.	Nauru	TBD	U
	Palau	Annex 6 requirement not implemented.	26/8/05		Palau - implement Annex 6 as required.	Palau	TBD	U
	Papua New Guinea	Annex 6 requirement not implemented.	26/8/05		Papua New Guinea - implement Annex 6 as required.	Papua New Guinea	TBD	U
	Solomon Islands	Annex 6 requirement not implemented.	26/8/05		Solomon Islands - implement Annex 6 as required.	Solomon Islands	TBD	U

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Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Tonga	Annex 6 requirement not implemented.	26/8/05		Tonga - implement Annex 6 as required.	Tonga	<del>TBD</del> <u>Tonga advised ATM/AIS/SAR/SG/19 verbally that ACAS II implementation was</u>	U
	Vanuatu	Annex 6 requirement not implemented.	26/8/05	Pressure altitude reporting transponder required in all airspace since 1/1/00.	Vanuatu - implement Annex 6 as required.	Vanuatu	TBD	U

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Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
<u>Carriage of Pressure Altitude Reporting Transponder</u>								
Requirement of Chapter 6 of Annex 6	Bhutan	Annex 6 requirement not implemented.	26/8/05		Bhutan - implement Annex 6 as required.	Bhutan	TBD	U
	Cook Islands	Annex 6 requirement not implemented.	26/8/05		Cook Island - implement Annex 6 as required.	Cook Islands	TBD	U
	Kiribati	Annex 6 requirement not implemented.	26/8/05		Kiribati - implement Annex 6 as required.	Kiribati	TBD	U
	Marshall Islands	Annex 6 requirement not implemented.	26/8/05	ACAS II required.	Marshall Islands - implement Annex 6 as required.	Marshall Islands	TBD	U
	Micronesia	Annex 6 requirement not implemented.	26/8/05		Micronesia - implement Annex 6 as required.	Micronesia	TBD	U
	Nauru	Annex 6 requirement not implemented.	26/8/05		Nauru - implement Annex 6 as required.	Nauru	TBD	U
	Palau	Annex 6 requirement not implemented.	26/8/05		Palau - implement Annex 6 as required.	Palau	TBD	U
	Papua New Guinea	Annex 6 requirement not implemented.	26/8/05		Papua New Guinea - implement Annex 6 as required.	Papua New Guinea	TBD	U
	Solomon Islands	Annex 6 requirement not implemented.	26/8/05		Solomon Islands - implement Annex 6 as required.	Solomon Islands	TBD	U

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	Tonga	Annex 6 requirement not implemented.	26/8/05	<u>ACAS II required.</u>	Tonga - implement Annex 6 as required.	Tonga	<del>TBD</del> <u>Tonga-advised ATM/AIS/SAR/SG/19 verbally that the pressure altitude reporting.</u>	U

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<u>Non Provision of Safety-related Data</u>								
Requirement of Paragraph 3.3.4.1 of Annex 11	Bangladesh	Annex 11 requirement not implemented.	11/9/09		Bangladesh - provide the safety-related data as required.	Bangladesh		U
	Lao PDR	Annex 11 requirement not implemented.	11/9/09		Lao PDR - provide the safety-related data as required.	Lao PDR		U
	Papua New Guinea	Annex 11 requirement not implemented.	21/8/06		Papua New Guinea - provide the safety-related data as required.	Papua New Guinea	TBD	U