



International Civil Aviation Organization

**The Twenty-Second Meeting of the APANPIRG ATM/AIS/SAR Sub-Group
(ATM/AIS/SAR/SG/22)**

Bangkok, Thailand, 25 – 29 June 2012

Agenda Item 6: Air Navigation Service Deficiencies

AIR NAVIGATION SERVICE DEFICIENCIES LIST

(Presented by the Secretariat)

SUMMARY

This paper presents a list of Air Navigation Deficiencies noted by the 22nd meeting of Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/22, 5-9 September 2011) 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*

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-4 Alignment of upper airspace classifications
- GPI-5 RNAV and RNP (Performance-based navigation)
- GPI-9 Situational awareness
- GPI-18 Aeronautical information
- GPI-20 WGS-84
- GPI-21 Navigation systems

1. INTRODUCTION

1.1 Under the Terms of Reference of APANPIRG, one of the primary objectives 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 21st meeting of APANPIRG (APANPIRG/21, September 2010) reviewed the updated List based on information provided by concerned States to ATM/AIS/SAR/SG/20 (July 2010, Singapore). The meeting urged States who had not taken firm corrective action to eliminate the deficiencies, and adopted the following Conclusion.

Conclusion APANPIRG21/ 53 –Elimination of ATM Air Navigation Deficiencies

That, States concerned

a) be urged to take urgent actions to correct the deficiencies in the ATM/AIS/SAR fields identified in Attachment A to the Report on Agenda Item 4;

b) notify details of the problems/difficulties to the Regional Office; and

c) designate a point of contact in each State to deal with deficiencies and provide details to the Regional Office by 22 October 2010.

2.2 The following States have submitted requests to close ATM/AIS/SAR Deficiencies.

- **China:**

- advised the ATM/AIS/SAR/SG/21 that the current the routing B215 KUQA A460 REVKI to Alma Ata met the requirements for traffic from Urumqi to Alma Ata (Almata) and requested deletion of R216 from the BANP (14 April 03). China coordinated with Kazakhstan to delete R216 from the BANP; no information has since been received from the EUR/NAT Office regarding concerns from Kazakhstan.

- advised the AAITF/7 meeting that WGS-84 had been fully implemented.

- **Democratic People’s Republic of Korea:**

- advised at the AAITF/7 meeting and by letter dated 20 March 2012 that WGS-84 implementation was complete, and effective 03 May 2012.

- **Solomon Islands:**

- advised on 14 March 2012 at the AAITF/7 meeting that WGS-84 had been implemented on 31/01/2011.

- **Timor-Leste:**

- advised by email dated 24 April 2012 that WGS-84 implementation was complete (note: this item was not on the Deficiencies List).

- **Tonga:**

- advised by letter dated 12 July 2011 that the requirements for Annex 6 (Carriage of ACAS II and Carriage of Pressure Altitude Reporting Transponder) were published in the AIP August 2006.

2.3 The updated List of Air Navigation Deficiencies in the ATM, AIS and SAR fields is appended at **Attachment A** to this paper.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) review and agree to update the list of Air Navigation Deficiencies in the ATM/AIS/SAR fields, for further review by APANPIRG/23 (10 to 14 September 2012);
- c) if possible, identify actions to be taken by ATM/AIS/SAR/SG or States concerned to correct the identified deficiencies; and
- d) discuss any relevant matters as appropriate.

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ATM/AIS/SAR Deficiencies List

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>								
-	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).	China will coordinate with Kazakhstan to delete R216 from BANP. No information received from the European Office regarding concerns by Kazakhstan.	China/ Kazakhstan ICAO	Captured in Chapter 2 of the Route Catalogue.	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. Singapore advised ATM/AIS/SAR/SG/20 (July 2010, Singapore) that a holistic sub-regional review of ATS routes were being undertaken by Indonesia and	Indonesia/ Singapore	To be implemented as L504. Target implementation date TBD	B

					Singapore.			
<u>WGS-84</u>								
Requirements of Paragraph 3.7.1 of Annex 15	Bhutan	WGS-84 - Not implemented	2/7/1999	Data conversion completed, but not published		Bhutan	TBD	A
-	China	WGS-84 - Not implemented	2/7/1999	Differences to Annex 15 - <i>Aeronautical Information Services</i> are notified	-	China	China advised the AAITF/7 that WGS-84 had been implemented.	A
-	DPR Korea	WGS-84	-	-	-	DPR Korea	DPRK advised by letter dated 20 March 2012 that implementation would be effective on 3 May 2012.	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	The Solomon Islands advised on 14 March 2012 that WGS-84 had been implemented on 31/01/2011.	A
	Vanuatu	WGS-84 - Implemented at main airports	2/7/1999			Vanuatu	1999	A
<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	ATM/AIS/SAR/S G/19 updated, for fourth quarter 2009. ATM/AIS/SAR/S G/20 updated, for 2010.	A
<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/S G/16 (June 2006) updated - AIP COOK ISLANDS in new format in progress with assistance of New Zealand	A
	Kiribati	AIP Format - Not implemented	7/7/99			Kiribati	ATM/AIS/SAR/S G/18 (June 2009) was advised AIP in draft stage	A
	Nauru	AIP Format - Not implemented	7/7/99			Nauru	ATM/AIS/SAR/S G/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

SAR capability

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
<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
Tonga	Annex 6 requirement not implemented.	26/8/05		Tonga - implement Annex 6 as required.	Tonga	Tonga-advised by letter of 12 July 2011 that the requirements were published in the AIP August 2006	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

<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
Tonga	Annex 6 requirement not implemented.	26/8/05	ACAS II required.	Tonga - implement Annex 6 as required.	Tonga	Tonga-advised by letter of 12 July 2011 that the requirements were published in the AIP August 2006	U
<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 advised ATM/AIS/SAR/SG/20 that the data were submitted to MAAR in 2008 and 2009. Thailand to confirm.	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