



International Civil Aviation Organization

**The Second Meeting of the APANPIRG ATM Sub-Group
(ATM /SG/2)**

Hong Kong, China, 04 – 08 August 2014

Agenda Item 7: 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 24th meeting of Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/24, 24 – 26 June 2013) 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*.

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.

1.2 The ANS Deficiency information has been populated into the ICAO iSTARS (Integrated Safety Trend Analysis and Reporting System) database and is accessible through the Secure Portal. The intention is to merge this data with the Continuous Monitoring Approach (CMA) Data, and manage the deficiencies using a single web-based process.

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 are requested to provide updates on their progress in closing the deficiencies noted:

- **Afghanistan**
 - AIS QMS
 - WGS-84
- **Bangladesh**
 - AIS QMS
 - Provision of data for monitoring height-keeping performance of aircraft
 - SAR Capability (to be added in 2015¹)
 - WGS-84
- **Bhutan**
 - AIS QMS
 - SAR Capability (to be added in 2015)
 - WGS-84
- **Brunei Darussalam**
 - AIS QMS
 - WGS-84
- **Cambodia**
 - AIS QMS
 - SAR Capability (to be added in 2015)
- **China:**
 - Airspace Classification
- **Cook Islands**
 - AIP format
 - AIS QMS
 - SAR Capability
 - WGS-84
- **DPR Korea**
 - AIS QMS
 - SAR Capability (to be added in 2015)
- **Fiji**
 - SAR Capability (to be added in 2015)
- **India**
 - SAR Capability (to be added in 2015)
- **Indonesia**
 - AIS QMS
- **Kiribati**
 - AIP format
 - Airspace Classification
 - AIS QMS
 - SAR Capability (to be added in 2015)
 - WGS-84
- **Lao PDR**
 - AIS QMS
 - WGS-84
- **Maldives**

¹ According to the information presented to the APSAR/TF/1, a large number of other administrations have serious SAR deficiencies but are not on the APANPIRG Deficiency List: Bangladesh, Bhutan, Cambodia, DPRK, Fiji, India, Kiribati, Micronesia, Myanmar, Nauru, Pakistan, Palau, Papua New Guinea, Samoa, Solomon Islands, Timor-Leste, Tonga and Vanuatu. The status of these States would be discussed at APSAR/TF/3 and they would be added to the Deficiency List in 2015 if still found deficient.

- AIS QMS
 - SAR Capability
 - WGS-84
- **Marshall Islands**
 - AIS QMS
 - WGS-84
- **Micronesia**
 - AIS QMS
 - SAR Capability (to be added in 2015)
 - WGS-84
- **Myanmar**
 - SAR Capability (to be added in 2015)
- **Nauru**
 - AIP format
 - Airspace Classification
 - AIS QMS
 - SAR Capability (to be added in 2015)
 - WGS-84
- **Nepal**
 - AIS QMS
- **Pakistan**
 - AIS QMS
 - SAR Capability (to be added in 2015)
 - WGS-84
- **Palau**
 - AIS QMS
 - SAR Capability (to be added in 2015)
 - WGS-84
- **Papua New Guinea**
 - AIP format
 - Airspace Classification
 - AIS QMS
 - SAR Capability (to be added in 2015)
- **Philippines**
 - AIS QMS
 - WGS-84
- **Samoa**
 - AIS QMS
 - SAR Capability (to be added in 2015)
 - WGS-84
- **Solomon Islands:**
 - Airspace Classification
 - AIS QMS
 - SAR Capability (to be added in 2015)
- **Sri Lanka**
 - AIS QMS
 - WGS-84
- **Thailand**
 - AIS QMS
 - WGS-84
- **Timor Leste**
 - AIS QMS

- SAR Capability (to be added in 2015)
- **Tonga**
 - AIS QMS
 - SAR Capability (to be added in 2015)
 - WGS-84
- **Vanuatu**
 - AIS QMS
 - SAR Capability (to be added in 2015)
 - WGS-84
- **Viet Nam:**
 - AIS QMS

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

2.4 The ATM/SG should note that the Annex 6 Deficiencies (Carriage of ACASII and Carriage of Pressure Altitude Responding Transponder) listed have been transferred to APRAST/RASG for further monitoring and resolution, as a result of a decision made by the Chairs of APANPIRG chair and RASG, in coordination with ICAO. It should be noted that the deficiencies regarding Requirement of Paragraph 3.3.5.1 of Annex 11 (provision of data for monitoring the height-keeping performance of aircraft) for Lao PDR and Papua New Guinea were reviewed by the Regional Monitoring Agencies and the Chair of RASMAG prior to the ATM/SG meeting and assessed as OK, so these may be removed.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) review and update the list of Air Navigation Deficiencies in the ATM/AIS/SAR fields, for further review by APANPIRG/25;
- b) if possible, identify actions to be taken to correct the identified deficiencies; and
- c) discuss any relevant matters as appropriate.

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Attachment A

ATM/AIS/SAR Deficiencies List (Updated 30 July 2014)

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 3.7.1 of Annex 15	Afghanistan	WGS-84 - Not implemented	24/6/2014			Afghanistan	TBD	A
	Bangladesh	WGS-84 - Not implemented	24/6/2014			Bangladesh	TBD	A
	Bhutan	WGS-84 - Not implemented	2/7/1999	Data conversion completed, but not published		Bhutan	TBD	A
	Brunei Darussalam	WGS-84 - Not implemented	24/6/2014			Brunei Darussalam	TBD	A
	Cook Islands	WGS-84 - Not implemented	24/6/2014			Cook Islands	TBD	A
	Kiribati	WGS-84 - Not implemented				Kiribati	TBD	A
	Lao PDR	WGS-84 - Not implemented	24/6/2014			Lao PDR	TBD	A
	Maldives	WGS-84 - Not implemented	24/6/2014			Maldives	TBD	A

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Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Marshall Islands	WGS-84 - Not implemented	24/6/2014			Marshall Islands	TBD	A
	Micronesia	WGS-84 - Not implemented	24/6/2014			Micronesia	TBD	A
	Nauru	WGS-84 - Not implemented		Conferring with consultant		Nauru	TBD	A
	Pakistan	WGS-84 - Not implemented	24/6/2014			Pakistan	TBD	A
	Palau	WGS-84 - Not implemented	24/6/2014			Palau	TBD	A
	Philippines	WGS-84 - Not implemented	24/6/2014			Philippines	TBD	A
	Samoa	WGS-84 - Not implemented	24/6/2014			Samoa	TBD	A
	Sri Lanka	WGS-84 - Not implemented	24/6/2014			Sri Lanka	TBD	A
	Thailand	WGS-84 - Not implemented	24/6/2014			Thailand	TBD	A
	Tonga	WGS-84 - Not implemented	24/6/2014			Tonga	TBD	A

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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**
	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

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Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
<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/1 6 (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/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
<u>AIS Quality Management System</u>								
Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not	<u>Afghanistan</u>	AIS Quality Management System - Not implemented	24/6/2014			Afghanistan	TBD	A

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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**
implemented	Bangladesh	AIS Quality Management System - Not implemented	24/6/2014			Bangladesh	TBD	A
	Bhutan	AIS Quality Management System - Not implemented	24/6/2014			Bhutan	TBD	A
	Brunei Darussalam	AIS Quality Management System - Not implemented	24/6/2014			Brunei Darussalam	TBD	A
	Cambodia	AIS Quality Management System - Not implemented	24/6/2014			Cambodia	TBD	A
	Cook Islands	AIS Quality Management System - Not implemented	24/6/2014			Cook Islands	TBD	A

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Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	DPR Korea	AIS Quality Management System - Not implemented	24/6/2014			DPR Korea	TBD	A
	Indonesia	AIS Quality Management System - Not implemented	24/6/2014			Indonesia	TBD	A
	Kiribati	AIS Quality Management System - Not implemented	24/6/2014			Kiribati	TBD	A
	Lao PDR	AIS Quality Management System - Not implemented	24/6/2014			Lao PDR	TBD	A
	Maldives	AIS Quality Management System - Not implemented	24/6/2014			Maldives	TBD	A

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Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Marshall Islands	AIS Quality Management System - Not implemented	24/6/2014			Marshall Islands	TBD	A
	Micronesia	AIS Quality Management System - Not implemented	24/6/2014			Micronesia	TBD	A
	Nauru	AIS Quality Management System - Not implemented	24/6/2014			Nauru	TBD	A
	Nepal	AIS Quality Management System - Not implemented	24/6/2014			Nepal	TBD	A
	Pakistan	AIS Quality Management System - Not implemented	24/6/2014			Pakistan	TBD	A

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Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Palau	AIS Quality Management System - Not implemented	24/6/2014			Palau	TBD	A
	Papua New Guinea	AIS Quality Management System - Not implemented	24/6/2014			Papua New Guinea	TBD	A
	Philippines	AIS Quality Management System - Not implemented	24/6/2014			Philippines	TBD	A
	Samoa	AIS Quality Management System - Not implemented	24/6/2014			Samoa	TBD	A
	Solomon Islands	AIS Quality Management System - Not implemented	24/6/2014			Solomon Islands	TBD	A

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Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Sri Lanka	AIS Quality Management System - Not implemented	24/6/2014			Sri Lanka	TBD	A
	Thailand	AIS Quality Management System - Not implemented	24/6/2014			Thailand	TBD	A
	Timor Leste	AIS Quality Management System - Not implemented	24/6/2014			Timor Leste	TBD	A
	Tonga	AIS Quality Management System - Not implemented	24/6/2014			Tonga	TBD	A
	Vanuatu	AIS Quality Management System - Not implemented	24/6/2014			Vanuatu	TBD	A

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Attachment A

Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	Viet Nam	AIS Quality Management System - Not implemented	24/6/2014			Viet Nam	TBD	A

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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>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
<u>Non Provision of Safety-related Data</u>								

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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**
Requirement of Paragraph 3.3.5.1 of Annex 11 (provision of data for monitoring the height-keeping performance of aircraft)	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	Status confirmed OK by MAAR and RASMAG Chair 30/07/2014	Lao PDR - provide the safety-related data as required.	Lao PDR		U
	Papua New Guinea	Annex 11 requirement not implemented.	21/8/06	Status confirmed OK by AAMA and RASMAG Chair 30/07/2014	Papua New Guinea - provide the safety-related data as required.	Papua New Guinea	TBD	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

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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**
	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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Identification		Deficiencies			Corrective Action			
Requirements	States/ facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	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

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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**
	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