



International Civil Aviation Organization

**The Twelfth Meeting of the South East Asia ATS Coordination Group
(SEACG/12)**

Bangkok, Thailand, 3 – 5 May 2005

Agenda Item 7: Any other business

**REVIEW OF APANPIRG/15 LIST OF AIR NAVIGATION DEFICIENCIES IN THE
ATM/AIS/SAR FIELDS IN THE ASIA/PACIFIC REGION**

(Presented by the Secretariat)

SUMMARY

This paper presents the *List of Air Navigation Deficiencies in the ATM/AIS/SAR Fields in the ASIA/PACIFIC Region* updated at the APANPIRG/15 Meeting held at Bangkok on 23-27 August 2004.

1. INTRODUCTION

1.1 The APANPIRG/15 Meeting under Agenda Item 4 updated the *List of Air Navigation Deficiencies in the ATM/AIS/SAR Fields in the ASIA/PACIFIC Region* as shown in the Appendix to this paper.

2. DISCUSSION

ATS routes

2.1 In regard to the ATS routes contained in the Asia/Pacific Air Navigation Plan (Basic ANP), the APANPIRG/15 meeting noted that thirty (30) ATS route related entries were recorded on the List, mainly as priority 'B' status. ANP amendment procedures had commenced for about half of these and the remainder had been allocated to the ATS Route Network Review Task Force (ARNR/TF) for review. However, the deficiency status on the ATS routes would be retained as currently reflected until the ARNR/TF had undertaken a suitable review. The ARNR/TF had been established by APANPIRG/14 (Conclusion 14/5) to conduct a review of the ATS route requirements in the region and to amend the APAC ANP as appropriate.

2.2 The meeting should note that the ARNR/TF/3 meeting that preceded this meeting on 2 -3 May 2005 was expected to finalize an *Asia/Pacific ATS Route Catalogue* as a supplement to the BANP, and includes a lists of the ATS routes in the BANP, and provides detailed information on the status of these routes. This includes the routes contained on the APANPIRG Deficiency List. By listing these routes in the Catalogue, which was intended to be a living document, a permanent record would be kept of their status and of action being taken.

2.3 The ARNR/TF intends to recommend to APANPIRG/16 to be held on 22-26 August 2005, that the routes on the Deficiency List be removed and subsequent action to be taken through the management of the Catalogue, which would require States to update route status periodically, and any outstanding matters would be referred to the appropriate ATS coordination group by the Regional Office who is responsible for the Catalogue.

2.4 In view of the action being taken to address the routes on the APANPIRG Deficiency List, the meeting is not required to take further action. However, if there are any changes to the status of the routes concerned, this information should be provided and referred to the ARNR/TF.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the development by ARNR/TF of an ATS Route Catalogue to supplement the BANP;
- b) review the status of the routes on the APANPIRG List of Deficiencies and provide any update to ARNR/TF; and
- c) note that ARNR/TF intends to recommend to APANPIRG/16 to adopt the Catalogue and remove the ATS routes from the Deficiency List and retain them in the Catalogue for further follow up action.

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

Identification					Deficiencies				Corrective action			
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**				
Requirements												
Requirements of Part V.III, Table ATS 1 of the air navigation plan	Hong Kong, China/Japan	A202 - Partially implemented	24/11/93	Hong Kong-Bangkok segment was implemented on 1 November 2001. Japan considering implementation as a conditional route	Japan - co-ordinate Hong Kong, China	Hong Kong, China/ Japan	HongKong-Bangkok segment 1/11/2001; Hong Kong-Chitose segment TBD <u>Review by ARNR/TF</u>	B				
	China/Hong Kong, China	A203 - Not implemented	24/11/93	China advises no international flight requirements.	China requested deletion and amendment to ANP	China/Hong Kong, China	Subject to ANP amendment	B				
	Indonesia	A211 - Partially implemented	24/11/93	ICAO has requested Malaysia to co-ordinate the early implementation of A211 with States concerned. Malaysia has advised at SEACG/10 of the implementation of the route within Malaysia on 29 November 2001.	Indonesia - implement the missing segment ICAO- coordinate the implementation with Indonesia	Indonesia ICAO	29/11/2001 (by Malaysia) TBD by Indonesia <u>Review by ARNR/TF</u>	B				

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Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	China/Russian Federation	A218 - Partially implemented <u>in Russia and Alaska</u>	24/11/93	ICAO has taken action to co-ordinate with China/Russian Federation for implementation of Harbin-Ekimchan segment and to amend ANP. APAC 99/1-ATS was approved on 26/1/00. CAAC subsequently advises (14 Apr 03) that current route G212 meets the requirements and the proposed A218 is no longer required.	China requested deletion and amendment to ANP	China/Russian Federation ICAO	Subject to ANP amendment <u>Review by ARNR/TF</u>	B
	Japan	A223 - Not implemented	24/11/93	Japan has advised that a domestic route network covers the route.	Japan - consider implementation as a conditional route	Japan	TBD <u>Review by ARNR/TF</u>	B

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	China/Mongolia/Russian Federation	A335 - <u>Partially</u> implemented	24/11/93	China and Mongolia advised that this segment is covered by other ATS routes properly; thus will has proposed its deletion from ANP. <u>China reported to APANPIRG/14 the portion between HOHHOH - TUMURTAI was implemented.</u>	China, Mongolia - propose ANP amendment	China/Mongolia	Deletion of A335 notified 9 Oct 01 Subject to ANP amendment	B
	Indonesia/Malaysia	A341 - Partially implemented	24/11/93	ICAO has requested Indonesia to co-ordinate implementation with Malaysia. Malaysia has advised that the existing route B584 fulfils sufficiently the requirement and would propose the deletion of the requirement for Surabaya-Kota Kinabalu segment.	Indonesia/Malaysia - consider full implementation	Indonesia/Malaysia	12/2001 <u>Review by ARNR/TF</u>	B
	Indonesia/United States	A450 - Partially implemented	24/6/94	ICAO has requested Indonesia to co-ordinate implementation with United States. United States has agreed to the implementation, and a response from Indonesia is being awaited.	Indonesia/United States - consider full implementation	Indonesia/United States	TBD <u>Review by ARNR/TF</u>	B

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	Viet Nam	A469 - Implemented as W9 before. As of 1 Nov 2001 implemented as L643.	19/8/94	ICAO has requested Viet Nam to implement as A469. Viet Nam advised that W9 was replaced with L643 on 1 November 2001.	Viet Nam - propose deletion of the requirement as A469 ICAO process ANP amendment	Viet Nam ICAO	Subject to ANP amendment	B
	India/Nepal	A473 - Not implemented	16/3/99	~~India and Nepal have advised that realignment is being co-ordinated and the route is to be implemented. A new proposal was submitted in mid 2003 by Nepal. This is being coordinated by AAI with defense authorities.~~	India/Nepal- implement the route	India/Nepal	~~Sep 2003~~ -TBD <u>Review by ARNR/TF</u>	B
	Thailand	A581 - Partially implemented	17/2/97	China, Lao PDR and Thailand proposed an amendment to ANP. ICAO processed APAC99/11 in co-ordination with China/Myanmar/Thailand. APAC99/1 was approved on 15 December 2000.	Thailand - implement accordingly.	Thailand	11/2002 <u>Review by ARNR/TF</u>	B
	United States	A584 - Partially implemented	24/6/94	ICAO has requested United States to implement the missing segment. United States has proposed deletion of the missing segment, and the proposal is under preparation.	ICAO - process an amendment in co-ordination with United States	United States ICAO	Subject to ANP amendment	B

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	Fiji/New Zealand	B201 - Not implemented	24/11/93	Fiji/New Zealand have advised that they agreed to delete the requirement. ICAO will process ANP amendment as this was covered by routes B575, G457 and R327.	Fiji/New Zealand - propose an amendment to delete the requirement in ANP	Fiji/New Zealand ICAO	Subject to ANP amendment	B
	Maldives	B204 - The requirements for this route are not detailed in ANP	24/1/96		Maldives - propose an amendment to ANP to add the route	Maldives ICAO	Subject to ANP amendment	B
	Japan/Rep of Korea	B212 - Not implemented	24/11/93	Japan is considering implementation as a conditional route and will coordinate with Rep of Korea	Japan/Rep of Korea - consider implementation	Japan/Rep of Korea	12/2005 <u>Review by ARNR/TF</u>	B
	~~China~~	~~B213 - Not implemented~~	~~24/11/93~~	~~CAAC advises no international flight requirements - route H12 is available.~~	~~China - propose deletion and amendment to ANP~~	~~China, ICAO~~	~~Subject to ANP amendment~~	~~B~~
	Papua New Guinea	B456 - Partially implemented	24/11/93	Papua New Guinea has advised that they will formally propose ANP amendment for deletion of the missing segment.	Papua New Guinea - propose an amendment to ANP. ICAO-process ANP amendment.	Papua New Guinea ICAO	Subject to ANP amendment	B
	China	B591 - Partially implemented	22/7/97	Co-ordination is in progress among States and ICAO	ICAO - continue on-going implementation co-ordination related to the Revised South China Sea route structure with States	China	TBD <u>Review by ARNR/TF</u>	B

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	Malaysia	G211 - Not implemented	24/11/93	ICAO has requested Malaysia to implement G221. Malaysia has advised that G211 would be replaced with EMARSSH routes; thus would propose the deletion of the requirement when an ANP amendment relating to EMARSSH is prepared.	Malaysia propose deletion ICAO process ANP amendment deleted by APAC 04/3	Malaysia ICAO	28/11/2002 Subject to ANP amendment	B
	Indonesia	G461 - Implemented with different route specification	24/11/93	ICAO co-ordinated with Indonesia to amend ANP requirement. APAC00/1-ATS was approved on 15 January 2001.	Indonesia-implement the requirement accordingly.	Indonesia	TBD <u>Review by ARNR/TF</u>	B
	Cambodia /Philippines Thailand/Viet Nam	G473 - Partially implemented	24/11/93	Co-ordination is in progress among States and ICAO	ICAO - continue ongoing implementation co-ordination related to the Revised South China Sea route structure with States	Cambodia /Philippines Thailand/Viet Nam	TBD <u>Review by ARNR/TF</u>	B
	DPR Korea/ Rep of Korea	G589 - Not implemented	24/11/93		B467 established instead of G589 April 1998	DPR Korea/ Rep of Korea	April 1998 Completed <u>Review requirement for G589 by ARNR/TF</u>	B
	China/Kazakhstan	R216 - Not implemented	24/11/93	CAAC advises current routes B215 KUQA, A460 REVKI to Alma Ata meets the requirements for traffic from Urumqi to Alma Ata and requests deletion of R216 from ANP (14 Apr 03)	CAAC proposed deletion	China/Kazakhstan ICAO	Subject to ANP amendment <u>Review by ARNR/TF</u>	B

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Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action**
	~~Russian Federation~~	~~R221 implemented on 19 April 2001 in Malaysia in accordance with the requirement in ASIA/PAC ANP. The same route designator in use in Russian Federation~~	~~24/11/93~~	~~ICAO has requested Russian Federation to delete R221 and promulgate the route as R466 in AIP. Input from Russia is being awaited.~~	~~ICAO co-ordinate with Russian Federation to redesignate the route as R466 as already assigned as a matter of priority~~	~~Russian Federation~~	~~TBD~~	~~A~~
	China	R333 - Not implemented	24/11/93	China is considering future implementation	China co-ordinating with Hong Kong CAA	China	TBD <u>Review by ARNR/TF</u>	B
	China/Hong Kong, China	R335 - Not implemented	24/11/93	CAAC advises no international flight requirements and requests deletion from ANP (14 Apr 03)	China proposed deletion and amendment to ANP	China/Hong Kong, China ICAO	Subject to ANP amendment	B
	Cambodia/Lao PDR/Thailand	R345 - Not implemented	24/11/93	Cambodia has advised that the requirement is no longer valid and will propose the deletion of requirement in consultation with Lao PDR and Thailand.	ICAO - continue ongoing implementation co-ordination related to the Revised South China Sea route structure with States Camodia- coordinate the deletion with IATA as well as Lao PDR and Thailand	Cambodia/Lao PDR/ Thailand	TBD <u>Review by ARNR/TF</u>	B
	Indonesia	~~R455 Partially implk~~	~~24/11/93~~	~~ICAO has requested Malaysia to co-ordinate the implementation of R455 with States concerned. Malaysia has advised that R455 was implemented within Malaysia on 29 November 2001.~~	~~Indoensia implement the requirement~~	~~Indonesia~~	~~29/11/2001 (by Malaysia) TBD by Indoensia~~	~~B~~

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	Indonesia	R459 - Implemented as W51 and W36	24/11/93	ICAO has requested Indonesia to implement as R459	Indonesia - consider promulgation of the route with designator R459 in AIP	Indonesia	TBD <u>Review by ARNR/TF</u>	B
	Russian Federation	R466 - Implemented as ~~R221~~ R446 in Russian Federation. Route requirement is listed in EUR/NAT ANP	24/11/93	ICAO has requested Russian Federation to delete R221 and promulgate the route as R466 in AIP. Implemented as R446.	~~ICAO co-ordinate with Russian Federation to redesignate the route as R466 as already assigned as a matter of priority~~	Russian Federation ICAO	~~TBD~~ <u>Coordination with the Paris Office to amend ANP</u>	A
	Indonesia/Malaysia	R579 - Not implemented	24/11/93	ICAO has requested Malaysia to co-ordinate with Indonesia for implementation. Malaysia considered there was no longer requirement due to a low traffic movement; thus will propose the deletion.	Indonesia/Malaysia - consider implementation	Indonesia/Malaysia	12/2001 <u>Review by ARNR/TF</u>	B
	India/Oman	R593 - Not implemented	24/11/93	India advised <u>ATM/AIS/SAR/SG/14 that India and Oman had agreed to delete.</u>	~~India Oman are of the view that the proposed route is not considered as a requirements in view of availability of new ATS routes under EMARSSH project which provide connectivity from Mumbai and Oman. India and Oman suggested deletion of this item. India proposed deletion and amendment to ANP~~	~~India/Oman (SWACC) ICAO~~	Subject to ANP amendment	B

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<u>WGS-84</u>								
Requirements of Paragraph 3.6.4 of Annex	Bhutan	WGS-84 - Not implemented	2/7/1999	Data conversion completed, but not published		Bhutan	TBD	A
	Cambodia	WGS-84 - <u>Partially implemented</u>	28/6/2001	~~Cambodia has previously informed ICAO that their WGS-84 conversion had been completed. Cambodia has now informed ICAO of flaws in their conversion and their intention to start all over again. Cambodia reported ICAO on 22 June 2004 that the WGS-84 coordinates has been implemented in international airports, airspace and international routing.~~		Cambodia	TBD	A
	China	WGS-84 - Not implemented * implemented in the Sanya AOR as of 1 Nov 2001	2/7/1999	Differences to Annex 15 - <i>Aeronautical Information Services</i> are notified		China		A
	DPR Korea	WGS-84 - Not implemented				DPR Korea	~~TBD 2004~~	A
	~~French Polynesia~~	~~WGS 84 – Implemented at main airports~~		~~in progress~~		~~French Polynesia~~	~~2003~~	~~A~~
	Kiribati	WGS-84 - Not implemented				Kiribati	TBD	A

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	~~Lao PDR~~	~~WGS-84 - Partially implemented~~		<u>Notified by letter No.650 dated 29 June 2004</u>		~~Lao PDR~~	~~TBD~~	~~A~~
	Malaysia	WGS-84 - Partially implemented		In progress. Updated information received. Confirmation of completion date required.		Malaysia	December 2002	A
	Nauru	WGS-84 - Not implemented		Conferring with consultant		Nauru	TBD	A
	Philippines	WGS-84 - Implemented at main airports		on-going		Philippines	~~2003~~ <u>2004</u>	A
	Solomon Islands	WGS-84 - Not implemented				Solomon Islands	1999	A
	Vanuatu	WGS-84 - Implemented at main airports	2/7/1999			Vanuatu	1999	A
<u>Type of ATS</u>								
Requirements of Part II, Table ATS 3D of the air navigation plan	India	Some ATS route segments in part of Mumbai FIR are subject to Advisory Services	24/11/93	Co-ordination in progress through BBACG. HF radio being modernized and datalink being installed ~~by December 2003.~~	India - implement Area Control Services	India	<u>Modernization of HF radio by the end of 2004</u> <u>CPDLC by the end of 2005</u>	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		A
	Cook Islands	Airspace Classification - Not implemented	7/7/99			Cook Islands	TBD	A

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	DPR Korea	Airspace Classification - Not implemented	7/7/99			DPR Korea	~~TBD~~ 2005	A
	Japan	Airspace Classification - ~~Not~~ Partially implemented	~~7/7/1999~~ 19/02/04		Implementation in oceanic airspace in progress, domestic airspace complete	Japan	~~2003-TBD~~ Official confirmation pending	A
	Kiribati	Airspace Classification - Not implemented	7/7/99			Kiribati	TBD	A
	~~Lao PDR~~	~~Airspace Classification - Not implemented~~	7/7/99		~~Area, Approach and Tower control services est. 1 Nov 2001~~	~~Lao PDR~~	~~Completed~~ ~~Official confirmation required~~	~~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	mid 2001 Official confirmation pending	A
	Samoa	Airspace Classification - Not implemented	7/7/99		CTR C and D Samoa Sector Class G	Samoa	Completed Official confirmation required	A
	Solomon Islands	Airspace Classification - Not implemented	7/7/99			Solomon Islands	TBD	A
	~~Tonga~~	~~Airspace Classification - Not implemented~~	~~7/7/99~~	Notified by letter dated 9 July 2004		~~Tonga~~	~~Completed,~~ ~~Official confirmation required.~~	~~A~~
	Viet Nam	Airspace Classificatio - Not implemented	7/7/99			Viet Nam	2003/2004	A

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<u>AIP Format</u>								
Requirements of Chapter 4 of	Cook Islands	AIP Format - Not implemented	7/7/99			Cook Islands	TBD	A
	~~Fiji~~	~~AIP Format - Not implemented~~	~~7/7/99~~	~~New Zealand is preparing AIP~~	~~Civil Aviation Authority of the Fiji Islands (CAAFI) authorised compliant AIP dated 10 June 2004~~	~~Fiji~~	~~Sep 2002 (to be confirmed) ——— 2004~~	~~A~~
	Kiribati	AIP Format - Not implemented	7/7/99			Kiribati		A
	Lao PDR	AIP Format - Not implemented	7/7/99			Lao PDR	<u>Sep 2003+H6</u>	A
	Myanmar	AIP Format - Not implemented	7/7/99			Myanmar	Completed 2003 (To be published)	A
	Nauru	AIP Format - Not implemented	7/7/99			Nauru	TBD	A
	~~New Zealand~~	~~AIP Format - Not implemented~~	~~7/7/99~~	~~Differences to Annex 15 – Aeronautical Information Services are notified~~		~~New Zealand~~	~~Revised format being prepared in line with ICAO requirements effective 4 Sep 03~~	~~A~~
	Papua New Guinea	AIP Format - Not implemented	7/7/99	under development		Papua New Guinea	TBA	A
	Samoa	AIP Format - Not implemented	7/7/99			Samoa	5/15/2003 (to be confirmed)	A
	Tonga	AIP Format - Not implemented	7/7/99		Under preparation	Tonga	2004	A

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<u>SAR capability</u>								
Requirements of Annex 12	Cambodia	Annex 12 requirements not implemented. No agreements with adjacent States.	20/2/97		Cambodia - implement Annex 12 requirements and co-ordinate LOA with adjacent States ICAO - assist to develop SAR capability and to co-ordinate with adjacent States	Cambodia	TBD	U
	Cook Islands	Annex 12 requirements not implemented. No agreements with adjacent States.	31/1/95	SAR agreement with New Zealand under development	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	2004	U
	Maldives	Annex 12 requirements not implemented. No agreements with adjacent States.	24/4/1997	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	2004	U