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Международная
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منظمة الطيران
المدني الدولي

国际民用
航空组织

Ref: APAC 10/12 - CNS: AP057/10 (CNS)

29 March 2010

Subject: Proposal for amendment of
ASIA/PAC Facilities and Services Implementation
Document (FASID) (Serial No.: APAC 10/12 – CNS)

Action Req'd: Reply at your earliest convenience
preferably, **not later than 6 May 2010**

Sir/Madam,

I have the honour to communicate to you the attached proposal for amendment of the ICAO ASIA/PAC Facilities and Services Implementation Document (FASID) originated by the Asia Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG).

In accordance with the established procedure for the amendment of FASID, I am to inquire whether your Government has any objection to the proposal.

Since it is desirable to finalize this proposal with minimum of delay, I shall be grateful if you will let me have your reply by the earliest practicable date and, in any event, **not later than 6 May 2010**.

In the event that the views of your Government are not received by that date, it will be presumed that it has no objection to the proposed changes and the proposal will be processed accordingly.

Accept, Sir/Madam, the assurances of my highest consideration.


Mokhtar A. Awan
ICAO Regional Director

Enclosures: Proposal for Amendment of ASIA/PAC FASID
Vol. II, (Serial No.: APAC 10/12 – CNS)
Table CNS 4B – ATS Automation Systems

Proposal for amendment of Facilities and Services
Implementation Document (FASID)

(Serial No.: APAC 10/12 - CNS)

- a) **Plan:** ASIA/PAC FASID Doc 9673
- b) **Proposal amendment:** Replace the existing Table CNS 4B – ATS Automation Systems with an updated Table provided in the attachment.

(cf. Doc 8673, Part IV, Table CNS 4B)
- c) **Originated by:** Asia Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG).
- d) **Originator's reason:** APANPIRG/20 noted that FASID Table ATS 3 had been renamed as Table CNS 4B and observed that requirements specified in existing Table for ATS Automation Systems of some States were either out of date or lack adequate information on their plans for implementation of ATS Automation Systems.

APANPIRG/20 reviewed an updated Table CNS 4B and proposed to replace the existing Table with the updated Table in accordance with the established procedure.
- e) **Intended date of Implementation:** To be implemented progressively commencing early 2010.
- f) **Proposal circulated to the following States and Organization:**
- | | |
|-----------------------------|--------------------------------|
| Afghanistan | Micronesia, Federated State of |
| Australia | Nepal |
| Bangladesh | Nauru |
| Bhutan | New Zealand |
| Brunei Darussalam | Pakistan |
| Cambodia | Palau |
| China | Papua New Guinea |
| <i>cc: Hong Kong, China</i> | |
| <i>Macao, China</i> | |
| Cook Islands | Philippines |
| DPR Korea | Republic of Korea |
| France | Samoa |
| Fiji | Singapore |
| India | Solomon Islands |
| Indonesia | Sri Lanka |
| Japan | Timor Laste |
| Kiribati | Thailand |
| Lao PDR | Tonga |
| Malaysia | Vanuatu |
| Maldives, Republic of | Viet Nam |
| Marshall Islands | United States |
| IFALPA | IATA |
- g) **Secretariat comment:** This proposal is processed in accordance with Conclusion 20/52 of APANPIRG/20 to replace the existing Table CNS 4B with the updated Table.

TABLE CNS 4B**ATS AUTOMATION SYSTEMS**

EXPLANATION OF THE TABLE

Column

- | | | | | | | | | | | | |
|--|---|--|--------------------------------|---|-----------------------------|------------------------|-----------------------------|----------------------|---------------------|----------------------------------|--|
| 1 | Name of State/Territory and location of ATS automation systems within the State | | | | | | | | | | |
| 2 | Air traffic services unit served by the ATS automation systems | | | | | | | | | | |
| | <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">AACC — Area approach control centre</td> <td style="width: 50%;">SMC — Surface movement control</td> </tr> <tr> <td>ACC — Area control</td> <td>TCU — Terminal control unit</td> </tr> <tr> <td>APP — Approach control</td> <td>TMA — Terminal control area</td> </tr> <tr> <td>EC — En-route centre</td> <td>TWR — Tower control</td> </tr> <tr> <td>FIS — Flight information service</td> <td></td> </tr> </table> | AACC — Area approach control centre | SMC — Surface movement control | ACC — Area control | TCU — Terminal control unit | APP — Approach control | TMA — Terminal control area | EC — En-route centre | TWR — Tower control | FIS — Flight information service | |
| AACC — Area approach control centre | SMC — Surface movement control | | | | | | | | | | |
| ACC — Area control | TCU — Terminal control unit | | | | | | | | | | |
| APP — Approach control | TMA — Terminal control area | | | | | | | | | | |
| EC — En-route centre | TWR — Tower control | | | | | | | | | | |
| FIS — Flight information service | | | | | | | | | | | |
| 3 | Surveillance sensor linked to the ATS automation systems. Four-letter FIR identifier, enclosed in parenthesis, shown for surveillance sensors outside the FIR. | | | | | | | | | | |
| 4 | Radar data processing system | | | | | | | | | | |
| 5 | Flight data processing system | | | | | | | | | | |
| 6 | Minimum safe altitude warning system | | | | | | | | | | |
| 7 | Automatic dependent surveillance | | | | | | | | | | |
| | <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">ADS B — Automatic dependent surveillance broadcast</td> <td style="width: 50%;"></td> </tr> <tr> <td>ADS C — Automatic dependent surveillance contract</td> <td></td> </tr> </table> | ADS B — Automatic dependent surveillance broadcast | | ADS C — Automatic dependent surveillance contract | | | | | | | |
| ADS B — Automatic dependent surveillance broadcast | | | | | | | | | | | |
| ADS C — Automatic dependent surveillance contract | | | | | | | | | | | |
| 8 | Controller-pilot data link communications | | | | | | | | | | |
| 9 | ATS interfacility data link communications | | | | | | | | | | |
| 10 | Processing area of the radar data processing system in nautical miles | | | | | | | | | | |
| 11 | Number of ATS positions | | | | | | | | | | |

12 Remarks

Note.— The following codes are used in columns 4 to 11:

I — Required and implemented

X — Required but implementation status not determined

N — Required but not implemented

A — Existing facility provided to supplement or substitute the requirement

F — Future plan

< Year - Planned commissioning year, to be used as appropriate in conjunction with “F” and “N”

> Year - Planned decommissioning year, to be used as appropriate in conjunction with “A” and “I”

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
AFGHANISTAN											
AUSTRALIA											
Adelaide	TCU TWR	Adelaide PSR/SSR Summertown SSR				**	**	F<2011	Maximum 2600x3000	5	** Available – not used
Brisbane	EC	Brisbane PSR/SSR Darwin SSR Tindal SSR Mt. Alma SSR Mt. Boyce SSR Mt. Hardgrave SSR Mt. Somerville SSR Oakey SSR Sydney PSR/SSR Tabletop Mt. SSR The Round Mountain SSR							Maximum 2600x3000 2600x3000	47	
Brisbane	Brisbane and Coolangatta TMAs TWR	Brisbane PSR/SSR Mt. Boyce SSR Mt. Hardgrave SSR Mt. Somerville SSR Oakey SSR				**	**	F<2011	Maximum 2600x3000	8	
Cairns	TCU TWR	Hanns Tableland SSR Redden Creek PSR/SSR				**	**	F<2011	Maximum 2600x3000	5	
Melbourne	EC	Brisbane PSR/SSR Darwin SSR Tindal SSR Mt. Alma SSR Mt. Boyce SSR Mt. Hardgrave SSR Mt. Somerville SSR Oakey SSR Sydney PSR/SSR Tabletop Mt. SSR The Round Mountain SSR							Maximum 2600x3000	45	
Melbourne	Melbourne and Canberra TMAs TWRs	Gellibrand Hill PSR/SSR Adelaide SSR East Sale SSR Mt. Bobbara SSR Mt. Boyce SSR Mt. Macedon SSR Mt. Majura SSR Sydney SSR Summer town SSR				**	**	F<2011	Maximum 2600x3000	10	
Perth	TCU	Perth PSR/SSR							Maximum		

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
	TWR	Kalmunda SSR	I	I	I	**	**	F<2011	2600x3000	I	
Sydney	TCU TWR	Sydney PSR/SSR Mt. Boyce SSR Mt. Bobbara	I	I	I	**	**	F<2011	Maximum 2600x3000	6	
Sydney	TWR	Sydney surface movement radar	I						Aerodrome precincts	5	
Sydney	TCU	Parallel approach runway monitor	I						Sydney 34L & R and 16L & R approaches	2	
BANGLADESH											
BHUTAN											
BRUNEI DARUSSALAM											
Berakas			<1997	<1997					512x512		
Brunei	APP		2						150x150		
CAMBODIA											
CHINA											
Beijing	APP ACC		2						1024x1024		
Changchun	APP		2						1024x1024		
Changsha	APP		2						1024x1024		
Chengdu	APP ACC		2						1024x1024		
Chongqing	APP ACC		2						1024x1024		
Dalian	APP ACC		2						1024x1024		
Fuzhou	APP ACC		2						1024x1024		
Guangzhou	APP ACC		2						1024x1024		
Guilin	APP ACC		2						1024x1024		
Guiyang	APP ACC		2						1024x1024		
Haikou	APP		2						1024x1024		
Hangzhou	APP ACC		2						1024x1024		

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Xi'an	APP ACC		2						1024x1024		
Xiamen	APP ACC		2						1024x1024		
Zhanjiang	APP		2						1024x1024		
Zhengzhou	APP ACC		2						1024x1024		
Zhuhai	APP		2						1024x1024		
COOK IS.											
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA											
	APP ACC		1						Radius 200	6	
FIJI											
Nadi	ACC			I		ADSC-I ADSB-F<2010	I	I	250		
Suva/Nausori	APP/TWR					ADSB-F<2010					
FRENCH POLYNESIA (France)											
Tahiti	TWR APP ACC			2							
Tahiti	ACC					ADS-C <1998					
GUAM (United States)											
Anderson	ACC		2						200x200		
HONG KONG, China											
Hong Kong	APP ACC TWR		2	2	2000				250x250		
Hong Kong	ACC					ADS-C <TBA					
INDIA											
Chennai				2		I	I				
Delhi					I						
Kolkata						I	I				
Mumbai					I						

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
INDONESIA											
Bali	Bali ACC APP	N<2003	2						1024x1024	4	
Jakarta	Jakarta ACC APP Soekamo-Hatta TWR Jakarta FIC	1	2	2	I	I	I	N<2002	2048x2048	40	SSR (Banda Aceh/ Medan/Pekanbaru/ Tanjung Pinang/ Banjarmasin/ Yogyakarta/ Surabaya) Cengkareng MSSR will be connected to RDP F<2000
Medan	Medan ACC	F<2003	2								
Ujung Pandang	Ujung Pandang ACC APP	N<2003	2					N<2003	4036x4036	20	SSR(Balikpupen, Banjarhasin, Maiden, Surabaya, Bali, Waingapu, Kendar, Biak)
JAPAN											
Chubu	APP		2	2					70x70		
Fukuoka	APP		2	2					70x70		
Fukuoka	ACC		2	2					500x800		
Haneda	Tokyo APP		2	2					70x70		
Narita	APP		2	2					70x70		
Okinawa	Naha APP		2	2					360x700		
Osaka	APP		2	2					80x80		
Sapporo	ACC		2	2					500x700		
Tokyo	ACC		2	2					500x875		
KIRIBATI											
LAO PEOPLE'S DEMOCRATIC REPUBLIC											
MACAO, China											
Colanne	Macao TWR		2	2<2010					500x500	3	
MALAYSIA											
Kinabalu	ACC APP TWR		I	I	I				20 000x20 000	3	

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
Kuching	APP ACC TWR		I	I	I				20 00x20 00	3	
Langkawi	APP		I	I	I				20 00x20 00	1	
Subang	Kuala Lumpur ACC APP TWR		I	I	I	F<2002	F<2002		20 00x20 00	11	
MALDIVES											
MARSHALL IS.											
MICRONESIA (FEDERATED STATES OF)											
MONGOLIA											
MYANMAR											
Yangon	APP ACC		I	I	X				600x250	1 2	
NAURU											
NEPAL											
Kathmandu	APP		2<199 7			ADS-C <2000					
NEW ZEALAND											
Auckland	Auckland ACC TWR		I	I	<2003	ADS-C I	I	I	5500x2500		
Christchurch	Christchurch ACC TWR Wellington TWR		I	I	<2003				1024x1024		
PAPUA NEW GUINEA											
Port Moresby	ACC		2	2<199 9		ADS-C <2000			200 Radius		
PHILIPPINES											
Laoag	Manila ACC		2	2		ADS-C <TBA			1024x1024		
Mactan	APP		2			ADS-C			200x200		

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
						<TBA					
Manila	APP		2			ADS-C <TBA			200x200		
Mt. Majic	Manila ACC		2			ADS-C <TBA			1024x1024		
Subic	APP		2			ADS-C <TBA			200x200		
Tagaytay	Manila APP		2			ADS-C <TBA			1024x1024		
REPUBLIC OF KOREA											
Daegu or Incheon	ACC	8 PSRs/SSRs	3 <2001	3 <2001					Radius 200	6	
Gimhae	APP		2	2	1 (low altitude alert)				60x60	3	
Incheon	APP	2 PSRs/SSRs in Incheon 1 PSR/SSR in Gimpo	2	2	1				60x60	8	
Jeju	APP	PSR/SSR	2	2	1 (low altitude alert)				60x60	3	
SINGAPORE											
Singapore	ACC APP TWR		I	I	I	ADS-C - I	I		1024x1024		
SOLOMON IS.											
SRI LANKA											
Colombo	ACC		2	2<TBA		ADS-C & B TBA			200 Radius		
THAILAND											
Bangkok	APP ACC		2	2		ADS-B <1996			1024x1024		
Chiang Mai	Chang Mai APP Bangkok ACC		2						1024x1024		
Phuket	APP		2						1024x1024		
Hatyai	APP		2						1024x1024		
TONGA											

State/Territory Location	ATS unit served	Data source	RDP	FDP	MSAW	ADS	CPDLC	AIDC	Processing area (NM)	Operator positions	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
UNITED STATES											
Hilo	APP TWR		2						60x60		
Honolulu	ACC		2	2					500x500		
Honolulu	APP TWR		2						60x60		
VANUATU											
VIET NAM											
Ho Chi Minh	ACC		2	2	I	ADS-C I	I		1024x1024	16	
Hanoi	ACC		2	2	I				1024x1024	8	