



*International Civil Aviation Organization*

**NINTH MEETING OF THE  
COMMUNICATIONS/NAVIGATION/SURVEILLANCE AND  
METEOROLOGY SUB-GROUP OF APANPIRG  
(CNS/MET SG/9)**

Bangkok, Thailand, 11–15 July 2005

**Agenda Item 5:**

**Navigation:**

**2) review States' input on amendment to FASID Table CNS-3 Radio Navigation Aids**

**REVIEW AND UPDATE FASID Table CNS 3 –NAVIGATION SYSTEM**

(Presented by the Secretariat)

**SUMMARY**

This paper presents FASID Table CNS-3 incorporating comments received from States. The meeting is expected to further update the Table and formulate a draft Conclusion to amend the ASIA/PAC FASID in accordance with the established procedure.

**1. INTRODUCTION**

1.1 The CNS/MET SG/8 Meeting considered a proposal to update the FASID Table CNS-3. It was observed that the entries of many States were either out of date or lack adequate information on their plans for transition to GNSS. The meeting considered it desirable that the information in the FASID should be comprehensive and current in order to facilitate regional planning and coordination. As an outcome of discussion, the meeting formulated a Draft Conclusion to urging States to review the Table.

**2. DISCUSSIONS**

2.1 APANPIRG/15 recognized the need to the conduct a review of the Table CNS-3 and adopted the following Conclusion;

**Conclusion 15/24 - Revision of FASID Table CNS-3 by States**

That, States review and revise FASID Table CNS-3 to reflect comprehensive descriptions of the future provision of radio navigation aids and that the revised entries be provided to the Regional Office by the end of May 2005.

2.2 As a follow-up of the APANPIRG Conclusion, a State letter T8/5.1:AP028/05 (CNS) was sent to States by the ICAO Regional Office on 8 March 2005. Replies were received from 13 States. The updated Table with proposed amendments is provided at Attachment to this paper for review by the meeting.

2.3 The requirements for radio navigation aids are specified in Table CNS-3 contained in Part IV of the First Edition of ASIA/PAC Facilities and Services Implementation Document (FASID) published in 2001. The respective national plan for the new navigation systems reflected in the bar chart contained in Chapter 8 of the ASIA/PAC Regional Plan for the new CNS/ATM system, issue 6 which are expected to be progressively incorporated in the FASID.

2.4 The meeting is expected to review and update the Table CNS-3 based on the current and future operational requirement and formulate a draft Conclusion for consideration by APANPIRG/16 to amend the ASIA/PAC FASID.

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

3.1 The meeting is invited to review and update the FASID Table CNS-3 and formulate the following draft Conclusion for Consideration by APANPIRG/16.

#### **Draft Conclusion XX/ – Amendment Table CNS-3 – Radio Navigation Aids**

That, the Table CNS-3 – Radio Navigation Aids provided in ASIA/PAC FASID, Part IV CNS be replaced with the updated Table CNS-3 shown in **Appendix XX** in accordance with the established procedure.

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TABLE CNS-3 – RADIO NAVIGATION AIDS

Explanation of the TableColumn

- 1 Name of the country and city (and airport if different name to the city) or, for en-route aids, the location of the facility
- 2 The function and runway designation number:  
  
 NAP – non-precision approach  
 PA-I – precision approach, Category I followed by designation of runway  
 PA-II – precision approach, Category II followed by designation of runway  
 PA-III – precision approach, Category III followed by designation of runway  
 T – terminal  
 E – en-route  
  
*Note: Precision approach category refers to the standard of facility performance to be achieved and maintained in accordance with the relevant Annex 10 specifications and not to the specifications of the ILS equipment itself, which are not necessarily the same.*
- 3 The distance and altitude to which signal protection of the VOR or VOR/DME is required, indicated in nautical miles (NM) and thousands of feet, or rated coverage of NDB expressed in nautical miles.
- 4 ILS – Instrument Landing System
- 5 L – Locator, either associated with an ILS or for use as an approach aid to an aerodrome.
- 6 DME – Distance Measuring Equipment. Aligned with the ILS shown in column 4 when the DME is required to serve as a substitute for a marker beacon. When aligned with VOR in column 7, indicates the DME to be collocated with the VOR.
- 7 VOR – Very High Frequency (VHF) Omni directional radio Range
- 8 NDB – Non Directional Beacon
- 9 MLS – Microwave Landing System
- 10, 11 DGNSS – Differential Global Navigation Satellite System: GBAS and SBAS. Where requirements for DGNSS for PA-I approach and landing are planned, function and runway designation numbers should be entered as described in Column 3 above with planned implementation date.

Column

- 12 GNSS – Global Navigation Satellite System. Where requirements for GNSS for NPA, terminal area and en-route functions are planned, function and/or runway designation number should be entered with implementation dates as described in column 3 above.
- 13 Remarks:

Note: The following codes are used in columns 5 to 12:

- I - required and implemented;
- X - required but implementation status undetermined;
- N - required but not implemented;
- A - existing facility, requirement for which is not specified;  
(‘A’ is used to show a substitute facility for the requirement that is not yet implemented ‘N’)
- F - Future plan, the requirement for which is not specified
- - the requirement for less than sole means facilities should be annotated with an asterisk;
- <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’

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
AMERICAN SAMOA												
PAGO PAGO	PA-I 05		X	X	X	X						
	T				X	X						
	E				X	X						
AUSTRALIA	GA1											
	GA2											
	GA7											
	GA8											
ADELAIDE		PA-I 23		I>2020	I>2020	I	I>2020					
		NPA				I	I>2020					
		T				I	I>2020					
		E				I	I>2020					
ALICE SPRINGS		PA-I 12		I>2020		I	I>2020					
		NPA				I	I>2020					
		T				I	I>2020					
		E				I	I>2020					
AVALON*		PA-I 18		I>2020		I	I>2020					
		NPA				I	I>2020					I*
		T				I	I>2020					
		E				I	I>2020					
BALLIDU		E					I>2010					
BINDOOK		E				I	I>2010					
BRISBANE		PA-I 01		I>2020	I>2010	I	I>2020					
		PA-I 19		I>2020		I	I>2020					
		NPA				I	>2020				I*	
		T				I	I>2020					
		E				I	I>2010					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
BROOME		NPA				I		I>2020			I*	
		T				I		I>2020				
		E				I		I>2020				
CAIGUNA		E				I	I>2010					
CAIRNS		PA-I 15		I>2020		I	I>2020					
		NPA-33		I>2020*		I	I>2020				I*	* LLZ only
		T				I	I>2020					
		E				I	I>2020					
CANBERRA*		PA-I 35		I>2020		I	I>2020					
		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					
CARNARVON		E					I>2020					
CHRISTMAS IS		NPA				I	I>2020					
		T				I	I>2020					
		E				I	I>2020					
COCOS IS		NPA				I	I>2020					
		T				I	I>2020					
		E				I	I>2020					
COFFS HARBOUR*		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					
CURTIN		E				I	I>2020					
DARWIN		PA-I 29		I>2020		I	I>2020					
		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
DUBBO		NPA				I	I>2010	I>2020			I*	
		T				I	I>2010	I>2020				
		E				I	I>2010	I>2020				
ESPERANCE		E				I	I>2010					
GOLD COAST*		NPA				I	I>2020					I*
		T				I	I>2020					
		E				I	I>2020					
GOVE		E					I>2020					
HOBART		PA-I 12		I>2020		I	I>2020					
		NPA				I	I>2020					
		T				I	I>2020					
		E				I	I>2020					
HORN ISLAND*		NPA						I>2020				I*
		T						I>2020				
		E						I>2020				
KALGOORLIE*		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					
KUNUNURRA		E				I	I>2010					
LAUNCESTON		PA-I 12		I>2020		I	I>2020					
		NPA				I	I>2020					
		T				I	I>2020					
		E				I	I>2020					
LEARMONTH		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					
LEIGH CREEK		E					I>2010					
LONGREACH		E					I>2010					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
LORD HOWE IS*		NPA				I		I>2020				
		T				I						
		E				I						
MALLACOOTA		E				I	I>2010					
MELBOURNE		PA-I 16		I>2020		I	I>2020					
		PA-I 27		I>2020		I	I>2020					
		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					
MILDURA		E				I	I>2020					
MOUNT GAMBIER		E					I>2020					
MOUNT HOPE		E				I	I>2010					
MOUNT ISA		E				I	I>2020					
NORFOLK IS		NPA				I	I>2020					
		T				I	I>2020					
		E				I	I>2020					
PARKES		E				I	I>2020					
PERTH		PA-I 03		I>2020		I	I>2020					
		PA-I 21		I>2020		I	I>2020					
		PA-I 24		I>2020		I	I>2020					
		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					
PORT HEDLAND		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					
ROCKHAMPTON		NPA				I	I>2020				I*	



COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
		T				I	I>2020					
		E				I	I>2020					
SYDNEY		PA-I 07		I>2020		I	I>2020					
		PA-I 16L		I>2020		I						
		PA-I 16R		I>2020		I	I>2020					
		PA-I 25		A>2010		I	I>2020					
		PA-I 34L		I>2020		I	I>2020					
		PA-I 34R		I>2020		I						
		NPA				I	I>2020					
		T				I	I>2020					
		E				I	I>2020					
TINDAL		PA-I 14		I>2020		I	I>2020					
		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					
TOWNSVILLE		PA-I 01		I>2020		I						
		NPA				I	I>2020				I*	
		T				I	I>2020					
		E				I	I>2020					
WEIPA*		E				I	I>2020	A				
WILLIAMSTOWN (NEWCASTLE)		PA-I 12		I>2020								
		NPA					I>2020	I				
<b>BANGLADESH</b>												
CHITTAGONG	PA-I 23		I		I	I						
	T				I	I						
	E	300/45			I	I						
COMILLA	E	300/45				I						
DHAKA (ZIA)	PA-I 14		I	I	I	I						
	PA-I 32		N		I	I						
	T				I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
	E	300/45			I	I						
RAJSHAHI	E	200/45				I						
SAIDPUR	E	200/45				I						
SYLHET	PA-I 11		I		F	I						
	T				F	I						
	E	200/45			F	I						
<b>BHUTAN</b>												
PARO	NAP			X		X						
	T			I		X	A					
	E	200/45				X						
<b>BRUNEI DARUSSALAM</b>												
BRUNEI	PA-I 21		I	I	I	I						
	T				I	I						
	E	200/45			I	I						
<b>CAMBODIA</b>												
PHNOM PENH (Pochentong)	PA-I 23		X	X	I	I						
	T				X	X						
	E	300/45			X	X						
SIEM REAP (Ankor)	NPA			X	I	I	X					
	T				X	X						
	E	300/45			X	X	X					
<b>CHINA</b>												
ALTAY	E						I					
BOSE	E	200/45			I	I	I					
BAOTOU	E	200/45			I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
BANTAJI	E						I					
BEIJING (Capital)	PA-I 18R		I	I	I							
	PA-I 36L		I	I								
	PA-I 18L		I	I								
	PA-II 36R		I	I	I	I						
	T/E	200/45			I	I						
CHANGCHUN	E	200/45			I	I						
CHANGSHA	PA-I 36		I	I	I	I						
	PA-I 18		I	I								
	T/E	200/45			I	I						
CHANGWU	E						I					
CHAOYANG	E	200/45			I	I						
CHENGDU	PA-I 20		I	I	I	I						
	PA-I 02		I	I								
	T/E	200/45			I	I						
CHONGQING	PA-I 02		I	I	I	I						
	PA-I 20		I	I								
	T/E	200/45			I	I						
DAHUSHAN	E	200/45			I	I						
	E	100					I					
DALIAN	PA-I 28		I	I	I	I						
	PA-I 10		I	I								
	T/E	200/45			I	I						
DANDONG	E	200/45			I	I	I					
DARONGJIANG	E						I					
DAWANGZHUANG	E	200/45			I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
DENGKOU	E	200/45			I	I						
DONGYANGJIAO	E	100					I					
DOUJIANG	E	100					I					
EREN	E	200/45			I	I						
ERTANG	E	100					I					
FENGNING	E	100					I					
FUJIACHANG	E	200/45			I	I	I					
FUKANG	E	200/45			I	I						
FUQING	E				I	I						
FUZHOU	PA-I 03		I	I	I	I						
	PA-I 21		I	I	I							
	T/E	200/45			I	I						
GANZHOU	E	200/45			I	I	I					
GAOXIONG	PA-I 09		X	X	X	X						
	T				X	X						
	E	300/45			X	X						
GAOYAO	E	200/45			I	I						
GENGMA	E	200/45			I	I						
GUANGZHOU (Baiyun)	PA-I 02L		I	I	I							
	PA-I 02R		I	I	I							
	PA-II 02R		I	I	I							
	PA-II 20L		I	I	I							
GUBEIKOU	E	80					I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
GUILIN	PA-I 01		I	I	I	I						
	PA-I 19		I	I	I							
	T/E	200/45			I	I						
GUIYANG	E	200/45			I	I						
HAILAR	E	200/45			I	I						
HAMI	E	200/45			I	I						
HANGZHOU	PA-I 07		I	I	I	I						
	NPA			I	I	I	I					
	T/E	200/45			I	I						
HARBIN (Taiping)	PA-I 23		I	I	I	I						
	PA-I 05		I	I								
	T/E	200/45			I	I						
HEFEI (Luogang)	PA-I 14		I	I	I	I						
	NPA			I			I					
	T/E	200/45			I	I						
HEKOU	E	80					I					
HOHHOT	PA-I 08		I	I	I	I						
	NPA			I			I					
	T/E	200/45			I	I						
HOULUNG	E	300/45			X	X						
HUAILAI	E	80					I					
HUAIROU	E	200/45			I	I						
HUALIAN	E	300/45			I	I						
HUAYUAN	E	200/45			I	I	I					
HUGUANG	E						I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
JINAN (Yaoqiang)	PA-I 01 T/E	200/45	I	I	I I	I I						
JINGHONG	E	200/45			I	I						
JINGNING	E	200/45			I	I	I					
JINGTAI	E	200/45			I	I						
JIUQUAN	E				I	I						
KAIYUAN	E	200/45			I	I						
KASHI	PA-I 08 PA-I 26 T/E	200/45	I I	I I	I I	I I						
KUNMING (Wujiaba)	PA-I 03 PA-I 21 T/E	200/45	I I	I	I I	I I						
KUQA	E	200/45			I	I						
LAIBIN	E	200/45			I	I						
LANZHOU(Zhongchuan)	PA-I 36 NPA T/E	200/45	I	I	I I	I I	I					
LAOLIANGCHANG	E	200/45			I	I						
LIANGCHENG	E	100					I					
LIANJIANG	E	200/45			I	I						
LIANSHENGWEI	E	200/45			I	I	I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
LILING	E	200/45			I	I						
LINLI	E	80					I					
LISHUI	E	80					I					
LONGKOU	E	200/45			I	I	I					
LONGMEN	E	80					I					
LONGZHOU	E	80					I					
LUXI	E	200/45			I	I	I					
MAGUOHE	E	80					I					
MAKUNG	E	300/45			X	X						
	E	80					X					
NANHUI	E	200/45			I	I						
NANNING (Lukou)	PA-I 06		I	I	I	I						
	PA-I 24		I	I								
	T/E	200/45			I	I						
NANNING (Wuxu)	PA-I 05		I	I	I	I						
	NPA			I			I					
	T/E	200/45			I	I						
NANTONG	E	200/45			I	I	I					
NANXIONG	E	80					I					
NANXUN	E	80					I					
PINGZHOU	E	200/45			I	I	I					
PEIXIAN	E	200/45			I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
POTOU	E	100			I	I						
QIANXI	E	200/45			I	I						
QIEMO	E	200/45			I	I						
QINGBAIKOU	E	80					I					
QINGDAO	PA-I 35		I	I	I	I						
	PA-I 17		I	I								
	T/E	200/45			I	I						
QIQIHAR	E	200/45			I	I	I					
SANYA	PA-I 08	200/45	I	I	I	I						
	PA-I 26		X	I		X	I					
	T/E	200/45			I	I						
SHACHE	E	200/45			I	I						
SHANGRAO	E	200/45			I	I						
SHANGHAI (Hongqiao)	PA-I 18		I	I	I	I						
	PA-I 36		I	I	I	I						
	T/E	200/45			I	I						
SHANGHAI (Pudong)	PA-I 17		I	I	I	I						
	PA-I 35		I	I	I	I						
	PA-II 16		I	I	I							
	PA-II 34		I	I	I							
	T				I	I						
SHENTOU	E	200/45			I	I	I					
SHENYANG (Taoxian)	PA-I 06		I	I	I	I						
	PA-I 24		I	I								
	T/E	200/45			I	I						
SHENZHEN	PA-I 33	200/45	I	I	I	I						



COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
	PA-I 15		I	I	I							
	T/E	200/45			I	I						
SHILONG	E	200/45			I	I	I					
TACHENG	E				I		I					
TAIBEI (Songshan)	PA-I 10		X	X								
TAIBEI (Taoyuan)	PA-II 05L		X	X	X	X						
	PA-II 23R		X	X	X							
	PA-I 06		X		X	X						
	PA-I 24		X		X	X						
	T				X	X						
	E				X	X						
TAIYUAN (Wusu)	PA-I 31		I	I		I						
	PA-I 13		I	I								
	T/E	200/45			I	I						
TIANJIN (Binhai)	PA-I 34		I	I	I	I						
	PA-I 16		I	I	I							
	T/E	200/45			I	I						
TANGHEKOU	E	80					I					
TIANZHEN	E	80					I					
TONGLIAO	E	200/45			I	I	I					
TONGLU	E	200/45			I	I						
TUMURTAI	E	200/45			I	I						
	E	100					I					
ULANHOT	E	200/45			I	I	I					
URUMQI (Diwopu)	PA-I 25		I	I	I	I						
	PA-I 07		I	I								

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
	T/E	200/45			I	I						
WAFANGDIAN	E	80					I					
WANGBINGOU	E	80					I					
WANGQING	E	200/45			I	I						
WEIXIAN	E	200/45			I	I						
WONGYUAN	E	200/45			I	I	I					
WUFENGXI	E	200/45			I	I	I					
WUHAN (Tianhe)	PA-I 04		I	I	I	I						
	PA-I 22		I	I	I							
	T/E	200/45			I	I						
WUXI	E	200/45			I	I						
XIAMEN (Gaoqi)	PA-I 05	200/45	I	I	I	I						
	PA-I 23		I	I	I							
	NPA			I			I					
	T/E	200/45			I	I						
XI'AN (Xianyang)	PA-I 05		I	I	I	I						
	PA-I 23		I	I								
	T/E	200/45			I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
XICHANG (Qingshan)	PA-I 36		I	I	I	I						
	NPA			I			I					
	T/E	200/45			I	I						
XINGLIN	E	80					I					
XINGTANG	E	80					I					
XUEJIADAO	E	200/45			I	I						
XUYONG	E	200/45			I	I						
YABRAI	E	100					I					
YINGDE	E	200/45			I	I	I					
YINCHUAN	E	200/45			I	I	I					
YUNHE	E	80					I					
ZHOUKOU	E	200/45			I	I	I					
<b>HONG KONG, CHINA</b>												
HONG KONG INT'L AIRPORT	PA-II 07R		I		I	I	I	F	F			
	PA-II 25L		I		I	I	I	F	F			
	PA-II 07L		I		I	I		F	F			
	PA-III 25R		I		I	I		F	F			
	NPA								F			
	T				I	I						
	E	200/45			I	I						
	E	500					I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>MACAU, CHINA</b>												
MACAU	PA-II 34		I	N	I	I						
	IGS 16		A		A							
	T				I	I						
	E	200/45			I	I	N					
<b>COOK ISLANDS</b>												
AVARUA (Rarotonga Intl)	NPA			X	X	X						
	T				X	X						
	E	300/45			X	X						
<b>DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA</b>												
PYONGYANG (Sunan)	NPA			I	X	X						
	PA-I 35		I	I								
	PA-I 01		I	I								
	PA-I 19		I	I								
	T				I	I						
	E	300/45			I	I	I					
<b>FIJI</b>												
NADI	PA-I 02		I									
	NPA 02			I	I	I	I				I	
	T				I	I	I					
	E	300/45			I	I						
SUVA (Nausori)	NPA			I	I	I						
	T				I	I						
	E	300/45			I	I						
NAUSORI	NPA 10				I	I	I				I	
	NPA 28				I	I	I				I	
	T				I	I	I					
	E	300/45			I	I	I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>FRENCH POLYNESIA</b>												
RANGIROA	NPA			I	I	I>2010	I					
	T				I	I>2010	I					
	E	300/45			I	I>2010						
TAHITI (Faaa)	PA-I 04		I>2010	I	I	I>2010	I					
	T				I	I>2010	I					
	E	300/45			I	I>2010						
<b>GUAM (U.S.A)</b>												
GUAM I. (Guam Int'l.)	PA-I 06L		X	X	X	X						
	T				X	X						
	E	300/45			X	X						
	NPA										I	
GUAM I. (Anderson AFB)	PA-I 06R		X		X	X						
	T				X	X						
	E	300/45			X	X						
ROTA I. (Rota Int'l )	NPA						I				I	
<b>INDIA</b>												
AHMADABAD	PA-I 23		I	I	I	I						
	T				I	I						
	E	300/45			I	I						
AMRITSAR	PA-I 34		I		I	I						
	T				I	I						
	E	300/45			I	I						
BELGAUM	E	300/45			I	I						
BHUBANESHWAR	PA-I 14		I									
	E	300/45			I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
KOLKATA	PA-I 19L		I	I	I	I						
	PA-I 01R		I	I								
	T				I	I						
	E	300/45			I	I						
COIMBATORE	PA-I 23		I									
	E	300/45			I	I						
CALICUT	PA-I 28		I									
	NPA			X	I	I						
CHENNAI	PA-I 07		I	I	I	I						
	T				I	I						
	E	300/45			I	I						
DELHI (Indira Ghandi Int'l)	PA-II 28		I	I	I	I						
	PA-I 27		I		I	I						
	PA-I 10											
	T				I	I						
LUCKNOW	E	300/45	I		I	I						
	PA-I 27	300/45	I		I	I						
	T				I	I						
	E				I	I						
MADURAI	E	300/45				I						
					I							
	MUMBAI (Jawahalah Nehru Int'l)	PA-I 27		I	I	I	I					
NAGPUR	T				I	I						
	E	300/45			I	I						
	PA-I 32		I		I	I						
	T				I	I						
	E	300/45			I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
PATNA	NPA 25		I		I	I						
	T				I	I						
	E	300/45			I	I						
PORT BLAIR	E	300/45			I	I						
PRATAPGARH	E	300/45			I	I						
TIRUCHCHIRAPPALLI	PA-I 27		I		I	I						
	T				I	I						
	E	300/45			I	I						
TRIVANDRUM	PA-I 32		I		I	I						
	T				I	I						
	E	300/45			I	I						
VARANASI	PA-I 27		I		I	I						
	T				I	I						
	E	300/45			I	I						
VISHAKHAPATNAM	E	300/45			I	I						
INDONESIA												
AMBON (Patimura)	PA-I 22		I	I	I	I						
	T				I	I						
	E	300/45			I	I						
BALI (Ngurah Rai)	PA-I 27		I		I	I						
	T				I	I						
	E	300/45			I	I						
BALIKPAPAN (Sepinggan)	PA-I 25		I		I	I					(I) NPA	GNSS/2001
	T/E	200/45			I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
BANJARMASIN (Syamsuddin Noor)	PA-I 10		I			I						
	E	200/45			I	I						
BATAM (Hang Naidin)	PA-I 04		I		I	I						
	T/E	200/45			I	I						
BIAK (Frans Kaiseipo)	PA-I 11		I		I	I						
	T/E	300/45			I	I						
JAKARTA (Halim Perdanakusuma)	PA-I 24		I	I	I	I						
	T				I	I						Note A
	E	300/45			I	I						
JAKARTA ( Soekarno Hatta Int'l)	PA-I 07R		I	I		I						
	PA-I 07L		I	I		I						
	PA-I 25R		I	I	I	I						
	PA-I 24L		I	I	I	I						
	T			I	I	I						
	E	300/45			I	I						
JAYAPURA (Sentani)	PA-I 30		I	X	I	I						
	T/E	300/45			I	I						
KETAPANG	PA-I 34		N		N	N						
	T				N	N	A					
	E	300/45			N<1996	N<1996						
KUPANG (El Tan)	NPA						I					
	T/E	300/45			I	I						



COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
MANADO ( Sam Ratulangi)	PA-I 36 T/E	300/45	I	X	I	I						
					I	I						
MEDAN (Polonia)	PA-I 05 T		I		X	X	I					
	E	300/45			I	I	I					
					I	I						
MERAUKE (Mopuh)	NPA T			X	I	I	I					
	E	300/45			I	I						
					I	I						
PADANG (Tabing)	NPA T/E	300/45		X	I	I	I					
					I	I						
PALEMBANG (Sultan Mahmud Badaruddin)	PA-RW T/E	300/45	I	X	X	I						
					I	I						
PANGKALPINANG	NPA T/E	300/45			I	I						
					I	I						
PEKANBARU	PA-I 36 T/E	300/45	I	X	I	I						
					I	I						
PONTIANAK (Supadio)	PA-I 15 E	300/45	I	X	X	I	I					
					I	I						
SURABAYA (Juanda)	PA-I 10 T		I	X	X	I	I					
	E	300/45			I	I						
					I	I						
TANJUNG PINANG (Kijang)	NPA E	300/45		X	I	I	I					
					I	I						
TARAKAN	NPA			X	I	I	I				NPA	

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COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
HIROSHIMA	PA-I 10		I		I	I						
	NPA			I	I	I						
	T				I	I						
	E	200/45			I	I						
IKISHIMA	E	200/45			I	I						
IWAKI	E	200/45			I	I						
KAGOSHIMA	PA-I 34		I	X	I	I						
	T				I	I						
	E	200/45			I	I						
KOMATSU	E	200/45			I	I						
KOWA	E	200/45			I	I						
KUGA	E	200/45			I	I						
KUMAMOTO	PA-III 07		I									
	PA-I 07		I	I	I	I						
	T				I	I						
	E	200/45			I	I						
KUSHIMOTO	E	200/45			I	I						
MIHO	E	200/45			I	I						
MINAMI DAITO	E	100					I					
MIYAKE JIMA	E	200/45			I	I						
MIYAZU	E	200/45			I	I						
NAGASAKI	PA-I 32		I	I	I	I	I					
	T				I	I						
	E	200/45			I	I						
NAGOYA	PA-I 34		I	I	I	I	I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
	T				I	I						
	E	200/45			I	I						
NAHA	PA-I 36		I	I	I	I	I					
	T				I	I						
	E	200/45			I	I						
NIIGATA	PA-I 28		I	X	x	I						
	T				x	I						
	E	200/45			x	I						
OITA	PA-I 01		I	X	I	I						
	T				I	I						
	E	200/45			I	I						
OKAYAMA	PA-I 07		I		I	I						
	T				I	I						
	E	200/45			I	I						
OKINAWA	E	200/45			I	I						
ONJUKU	E	200/45			I	I						
OSAKA	PA-I 32L		I	I	I	I						
	T				I	I						
	E	200/45			I	I						
OSAKA (Kansai Int'l)	PA-II 06		I		I							
	PA-II 24		I	I	I							
	T				I	I						
OSHIMA	E	200/45			I	I						
OTSU	E	200/45			I	I						
REBUN	E	200/45			X	X						
SAPPORO (New Chitose)	PA-I 01R		I		I	I	I					
	PA-I 01L		I	X								

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COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
KIRIBATI												
KIRITIMATI I. (Christmas I.)	NPA				X	X						
	T				X	X						
	E	300/45			X	X						
TARAWA (Bonriki Int'l)	NPA			X	X	X						
	T				X	X						
	E	200/45			X	X						
LAO PEOPLE'S DEMOCRATIC REPUBLIC												
LUANGPRABANG	PA-I	100/35	I	N	I	I	I		F		F	
	T											
PAKSE	NPA	200/45	X		I	I	I		F		F	
	E					X						
SAVANNAKHET	NPA	100/35	N	N	I	I	I		F		F	
	T											
VIENTIANE (Wattay)	PA-I	100/35	I		I	I	I		F		F	
	T											
MALAYSIA												
ALOR SETAR (Sultan Abdul Halim)												
	NPA				I	I	I					
	T				I	I						
	E	200/45			I	I	I					
IPOH (Sultan Azian Shah)	PA-I 04		I	I	I	I						
	T				I	I						
	E	200/45			I	I	II					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
JOHOR BAHRU	PA-I 16		I		I	I	I					
	T				I	I	I					
	E	150/45			I	I	III					
KERTEH	NPA				I	I						
	T				I	I						
	E	200/45			I	I						
KOTA BHARU (Sultan Ismail Petra)												
	NPA				I	I	I					
	T				I	I						
	E	200/45			I	I	I					
KOTA KINABALU	PA-I 02		I	I	I	I						
	T				I	I						
	E	200/45			I	I						
SEPANG (Kuala Lumpur Int'l)												
	PA-I 32R		I		I	I						
	PA-I 14L		I		I	I						
	PA-I 32L		I		I	I						
	PA-I 14R		I		I	I						
	T				I	I						
	E	200/45			I	I						
SUBANG (Sultan Abdul Aziz Shah)												
	PA-I 33		I	I	I	I						
	PA-I 15		I	I	I	I						
	T				I	I						
	E	200/45			I	I						
KUANTAN	PA-I 18		I	I	*	I	I					*VOR/TACAN
	T				I	I						
	E	200/45			I	I						
KUCHING	PA-I 25		I	I	I	I	I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
	T				I	I						
	E	200/45			I	I	I					
LABUAN	NPA		X	I	I	I						
	T				I	I						
	E	200/45			I	I						
MALACCA	NPA			I	I	I	I					
	T				I	I						
	E	200/45			I	I	I					
MIRI	PA-I 02		I	I	I	I						
	T				I	I						
	E	200/45			I	I						
PENANG	PA-I 04		I	I	I	I						
	T				I	I						
	E	200/45			I	I						
PULAU LANGKAWI	PA-I 03		I		I	I	I					
	T				I	I						
	E	200/45			I	I	I					
SANDAKAN	PA-I 08		I		I	I	I					
	T				I	I						
	E	200/45			I	I	I					
SIBU	PA-I 13		I	I	I	I	I					
	T				I	I						
	E	200/45			I	I						
TAWAU	NPA		X	I	I	I						
	T				I	I						
	E	200/45			I	I						



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COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
YANGON	PA-I 21		X	X	X	X						
	T				X	X						
	E	300/45			X	X						
<b>NAURU</b>												
NAURU	NPA			X	X	X						
	T				X	X						
	E	300/45			X	X						
<b>NEPAL</b>												
BHAIRAHAWA	E	150/30			X	X						
BIRATNAGAR	E	300/45			X	X						
JANAKPUR	E	200/45				X						
KATHMANDU (Tribhuvan Intl)	NPA			X	X	X						
	T				X	X						
	E	300/45			X	X						
NEPALGUNJ	E	200/45			X	X						
SIMRA	E	300/45			X	X						
<b>NEW CALEDONIA (FRANCE)</b>												
NOUMEA (La Tontouta)	PA-I 11		I>2010	I	I	I>2005						
	T				I	I>2005						
	E	300/45			I	I>2005						
<b>NEW ZEALAND</b>												
AUCKLAND	PA-I 05		I	I	I							
	PA-I 23		I	I	I							
	T				I	I						
	E	300/45			I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
CHRISTCHURCH	PA-I 02		I	I	I	I						
	PA-I 20		I	I	I							
	T				I	I						
	E	300/45			I	I						
HOKITIKA	E	250			I		I					
WELLINGTON	NPA 16		I	I	I							
	NPA 34		I		I							
	T				I	I						
	E	200/45			I	I						
NIUE												
ALOFI (Niue Int'l)	NPA			X								
	T				X		X					
	E	250			X		X					
PAKISTAN												
BAHAWALPUR*	NPA						I					
	T	100					I					
	E						I					
BINDU	E					I						
CAPE MONZE	E	50					I					
CHORE	E	150					I					
DERA GHAZI KHAN*	NPA						I					
	T	100										
	E						I					
DERA ISMAIL KHAN*	NPA					I	I					
	T					I	I					
	E	200/45				I	I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
FAISALABAD*	PA-I		I		I							TDME/ILS
	T	100	I		I		I					
	E						I					
GHARO	E	50					I					
GILGIT*	NPA						I					
	T	100					I					
	E						I					
GAWADAR	NPA						I					
	T	100					I					
	E						I					
HYDERABAD	E	100					I					
ISLAMABAD (Chaklala)	PA-I 30		I		I	I						TDME/ILS
	T				I	I						DME/VOR
	E	200/45			I	I						
JIWANI	NPA				I	I	I					
	T				I	I	I					
	E	200/45			I	I	I					DME/VOR
KARACHI (Quaid E Azam Int'l)	PA-I 25R		I	I		I	I					MARKERS/ILS
	PA-I 25L		I		I	I	I					TDME/ILS
	T				I	I	I					
	E	200/45			I	I	I					DME/VOR
LAHORE	PA-II 36R		I	I	I	I	I					TDME/ILS
	T				I	I	I					DME/VOR
	E	200/45			I	I	I					
MULTAN*	PA-I36		I		I	I	I					TDME/VOR
	T					I	I					
	E	200/45				I	I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
MUZAFFARABAD*	NPA						I					Temp. closed
	T						I					
	E						I					
NAWABSHAH*	NPA				I	I	I					DVOR/DME
	T				I	I	I					
	E	200/45			I	I	I					
MOENJODARO*	NPA						I					
	T	150					I					
	E						I					
PANJGUR*	NPA				I	I	I					DME/VOR
	T				I	I	I					
	E	200/45			I	I	I					
PASNI*	NPA						I					
	T						I					
	E						I					
PESHAWAR	NPA				I	I						DME/VOR
	T				I	I						
	E	200/45			I	I						
QUETTA*	NPA				I	I						DME/VOR
	T	200/45			I	I						
	E				I	I						
RAHIM YAR KHAN*	NPA				I	I	I					DME/VOR
	T				I	I	I					
	E	200/45			I	I	I					
RAWLAKOT*	NPA						I					Temp. closed
	T						I					
	E						I					
SHEIKHUPURA	E	50					I					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
SIBBI*	NPA						I					
	T	50					I					
	E						I					
SKARDU*	NPA						I					
	T	100					I					
	E						I					
SUKKUR*	NPA						I					
	T	100					I					
	E						I					
TURBAT*	NPA						I					
	T	100					I					
	E						I					
ZHOB*	NPA				I	I	I					DME/VOR
	T				I	I	I					
	E				I	I	I					
PALAU												
KOROR/Koror	NPA	200/45		X	X	X	X					
					X		X					
PAPUA NEW GUINEA												
MADANG	E	300/45			X	X	A					
MOUNT HAGEN	NINST				X		A					
NADZAB		200/45		A	X	X						
PORT MORESBY (Jacksons)	PA-I 14L		X	X	X	X	A					
	PA-I 32R		X		X	X						
	T				X	X						
	E	200/45			X	X						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
VANIMO	NINST				X		A					
WEWAK	E	300/45			X	X	A					
<b>PHILIPPINES</b>												
CABANATUAN	E	300/45			I	I						
CLARK (Diosdado Macapagal Int'l)	PA-I 02R		I		I	I						
	PA-I 20L		I		I	I						
	T		I		I	I	I					
COTABATO	E	300/45			I	I						
DAVAO (Francisco Bangoy Int'l)	PA-I 05		I		I	I						
	PA-I 23		I		I	I						
	T				I		I					
	E	300/45			I	I	I					
JOMALIG	E	300/45			I	I						
LAOAG	NPA				I	I						
	T				I	I						
	E	300/45			I	I						
LAPU LAPU (Mactan Int'l)	PA-I 04		I		I	I						
	PA-I 22		I		I	I						
	T				I	I	I					
	E	300/45			I	I	I					
LUBANG	E	300/45			I	I						



COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
MANILA (Ninoy Aquino Int'l.)	PA-I 24		I		I	I						
	PA-I 06		I		I	I						
	T				I	I						
	E				I	I						
SUBIC BAY INT'L*	PA-07		I		I	I						
	T				I	I	I					
TACLOBAN	NPA				I	I						
	T				I	I						
	E	300/45			I	I						
<b>REPUBLIC OF KOREA</b>												
ANYANG	E	200/45			I	I						
BUSAN (Gimhae Int'l)	PA-II 36L		I		I	I						
	PA-I 36R		I		I	I						
	T											
	E	200/45			I	I						
CHEONGJU Int'l	PA-I 24R		I		I							
	NPA-24R				I	I						
	T				I	I						
DAEGU Int'l	PA-I 31L		I		I							
	NPA-31L				I	I						
	T				I	I						
DALSUNG	E	200/45			I	I						
GANGWON	E	200/45			I	I						
GIMPO Int'l	PA-II 14R		I		I							
	PA-I 14L		I	I	I							
	PA-I 32R		I	I	I							
	NPA- 32R				I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
	PA-I 32L		I		I							
	NPA-32L				I	I						
	T				I	I						
GIMHAE Int'l	NPA-36L				I	I						
	PA-I 36R		I		I							
	PA-I 36L		I		I							
	NPA-36R				I	I						
	T				I	I						
GUNSAN	PA-I 18		I		I	I						
	PA-I 36		I		I	I						
INCHEON (Int'l)	PA-III 15R		I		I							
	NPA-15L				I	I						
	PA-III 33L		I		I							
	NPA-33L				I	I						
	PA-III 15L		I		I							
	PA-III 33R		I		I							
	NPA 33R				I	I						
	T				I	I						
JEJU Int'l.	PA-I 06		I		I							
	PA-I 24		I		I							
	NPA 06				I	I						
	NPA 24				I	I						
	T				I	I						
	E	200/45			I	I						
KWANGJU	PA-I 04R		I		I							
	E	200/45			I	I						
KWAMGWON	E	200/45			I	I						
MUAN Int'l*	PA-I 18		X		X	X						I>2008
	PA-I 36		X		X	X						I>2008

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
POHANG*	NPA 10				I	I						
	T				I	I						
	E	200/45			I	I						
SACHEON	PA-I 24R		I		I	I						
SEOULGimpo Int'l	PA-II 14R		I		I	I						
	PA-I 14L		I		I	I						
	PA-I 32R		I		I	I						
	PA-I 32L		I		I	I						
	T				I	I						
TALSUNG	E	200/45			I	I						
ULJIN	PA-I 17		X		X	X						I>2008
	PA-I 35		X		X	X						I>2008
ULSAN	PA-I 36		I		I	I						
YANGJU	E	200/45			I	I						
YANGYANG Int'l	PA-I 33		I		I							
	NPA-33				I	I						
	T				I	I						
YECHEON*	PA-I-28		I		I							
	E	200/45			I	I						
YEOSU*	PA-I 17		I		I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>SAMOA</b>												
APIA (Faleolo Int'l)	NPA			X	X	X						
	T				X	X						
	E	300/45			X	X						
<b>SINGAPORE</b>												
SINGAPORE (Singapore Changi)	PA-II		I>2025		I				PA-II		NPA	
	02L								02L		02L	
									F<2015		F<2007	
	PA-I		I>2025		I				PA-I		NPA	
	20R								20R		20R	
									F<2015		F<2007	
	PA-I		I>2025		I	I>2013			PA-I		NPA	
	02C								02C		02C	
									F<2015		F<2007	
	PA-II		I>2025		I	I>2013			PA-II		NPA	
	20C								20C		20C	
									F<2015		F<2007	
	T				I	I>2013					F<2007	
	E	200/45			I	I>2013					F<2007	
SINGAPORE (Paya Lebar)	NPA				A	I>2013						
	T				A	I>2013						
SINGAPORE (Seletar)	NINST						A					
<b>SOLOMON ISLANDS</b>												
HONIARA (Henderson)	NPA			X	X	X						
	T				X	X						
	E	300/45			X	X						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>SRI LANKA</b>												
COLOMBO (Katunayake)	PA-I 04		N	I	I	I						
	PA-I 22		I	I	I	I						
	T				I	I						
	E	300/45			I	I						
MINNERIYA (Hingurakgoda)	PA-I 25		N		N	N						
	T				N	N						
	E	200/45			N	N						
<b>THAILAND</b>												
BANGKOK	PA-I 03L		I		I							
	PA-I 21L		I	I								
	PA-II 21R		I	I								
	T				I	I						
	E	200/35			I	I						
CHIANG MAI	PA-I 36		I	I	I							
	T				I	I	I					
	E	200/30			I	I						
CHIANG RAI	PA-I 03		I		I							
	T				I	I	I					
	E	200/45			I	I						
KHON KAEN	NPA				I	I	I					
	T				I	I						
	E	200/45			I	I						
PHITSANULOK	PA-I 32		I		I		I					
	T				I	I	I					
	E	200/30			I	I						

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
PHUKET	PA-I 27		I		I							
	T				I	I	I					
	E	200/35			I	I						
SONGKHLA (Hat Yai Int'l)	PA-I 26		I	I	I							
	T				I	I	I					
	E	200/45			I	I						
SURAT THANI (Surat Thani)	PA-I 22		I		I	I						
	T				I	I	I					
	E	200/45			I	I						
UBON- RATCHATHANI	PA-I 23		I		I							
	T				I	I	I					
	E	300/45			I	I						
UTAPAO	PA-I 18		I	I	I							
	T				I	I	I					
	E	200/45			I	I						
TONGA												
TONGATAPU (Fua'amotu Int'l)	NPA			X	X	X						
	T				X	X						
	E	200			X	X						
VAVA'U	NPA						X					
	T						X					
	E	200					X					
TUVALU												
FUNAFUTI	NPA						X					
	T						X					
	E	300					X					

COUNTRY CITY/LOCATION (Airport)	Function/ Runway	Coverage	ILS	L	DME	VOR	NDB	MLS	DGNSS		GNSS	Remarks
									GBAS	SBAS		
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>UNITED STATES</b>												
HONOLULU (Oahu I.)	PA-I 08L		X	X	X	X						
	PA-I 04R		X	X	X	X						
	T				X	X						
	E	300/45			X	X						
KAHULUI	PA-I 02		X		X	X						
	T				X	X						
	E	300/45			X	X						
<b>VANUATU</b>												
PORT VILA (Bauerfield)	NPA				X	X						
	T				X	X						
	E	300/45			X	X						
SANTO (Pekoa)	NPA						X					
	T						X					
	E	100					X					
<b>VIET NAM</b>												
DANANG	PA-I 35R		X	X	X	X						
	T				X	X						
	E	300/45			X	X						
HANOI (Noi Bai)	PA-I 11		X	X	X	X						
	T				X	X						
	E	300/45			X	X						
HO CHI MINH (Tan Son Nhut)	PA-I 25R		X	X	X	X						
	T				X	X						
	E	300/45			X	X						

[illegible]