INTERNATIONAL CIVIL AVIATION ORGANIZATION

TWENTY SIXTH MEETING OF THE ASIA/PACIFIC AIR NAVIGATION PLANNING AND IMPLEMENTATION REGIONAL GROUP (APANPIRG/26)

Bangkok, Thailand, 7 – 10 September 2015

Agenda Item 3: **Performance Framework for Regional Air Navigation Planning and Implementation**

3.1: **AOP**

REPORT ON THE THIRD MEETING OF AOP WORKING-GROUP

(Presented by Chairman AOPWG)

SUMMARY

This paper presents the report of the Third Meeting of the AOP Working-Group (AOPWG/3) held in Putrajaya, Malaysia from 2 to 4 June 2015 which was reviewed by ATMSG/3 (3 to 7th August 2015, Bangkok, Thailand). APANPIRG is invited to review and adopt the draft conclusions proposed by AOPWG/3 and endorsed by ATMSG/3.

This paper relates to –

Strategic Objectives:

A: ***Safety*** *– Enhance global civil aviation safety*

B: **Air Navigation Capacity and Efficiency** — *Increase the capacity and improve the efficiency of the global aviation system*

E*:* **Environmental Protection** — *Minimize the adverse environment effects of civil aviation activities*

1. INTRODUCTION

1.1 The Third Meeting of the AOP Working-Group was held from 2 to 4 June 2015 in Malaysia. A Seminar on Aerodrome related Elements of the Seamless ATM Plan was held in conjunction with the meeting on 1 June 2015. The meeting was attended by 63 participants from 12 Administrations, 2 Special Administrative Regions of China and 2 International Organizations. Full Report of the Working-Group has been posted on the ICAO APAC Office website and can be accessed on the following webpage:
http://www.icao.int/APAC/Meetings/2015%20AOPWG3/!Final%20Report%20rev%201.pdf

1.2 A total of 23 Working Papers, 7 Information Papers and 3 presentations covering its 8 Agenda Items was considered by the AOPWG Meeting. Based on the outcome of discussions on various Agenda Items, the meeting formulated 5 Draft Conclusions which were endorsed by ATM/SG/3 for further consideration by APANPIRG/26.

2. DISCUSSION

2.1 The ATMSG/3 meeting held from 3 to 7 August 2015 in Bangkok reviewed the outcomes of the AOPWG/3 Meeting and noted the following:

2.2 Air Traffic Flow Management Steering Group outcomes on Airport Collaborative Decision-Making

2.2.1 The AOPWG/3 noted that the ATFM Framework included a number of items of interest to AOP/WG; most importantly those related to the harmonized, interoperable exchange of ATFM and related A-CDM information. The AOPWG/3 also noted that A-CDM aimed to improve the sharing of information between A-CDM partners and was an enabler of Air Traffic Flow Management (ATFM) at airports, reducing delays, improving the predictability of events and optimizing the utilization of resources.

2.2.2 The AOPWG/3 further noted that A-CDM was being progressively implemented in some Asia/Pacific Region airports and that the ICAO Aerodrome Design and Operations Panel (ADOP, formerly the Aerodromes Panel), was developing a ICAO A-CDM guidance material. The AOPWG?3 encouraged States to implement ACDM considering the benefits it provided to all airport stakeholders and supported promoting the terminology and FIXM version 3.0 or later as the standard for use in A CDM interfaces with ATFM, AMAN, and DMAN systems.

2.3 Progress on the Alignment of Air Navigation Plans with the Global Air Navigation Plan

2.3.1 The AOPWG/3 noted that the ICAO Regional Office had populated the eANP Volume I and II with existing data taken from Doc 9673 Volume I (Basic) and Volume II (FASID) and agreed with the AOP contents of the eANP in Volume I and volume II respectively. AOP Volume I and AOP Volume II attached at **Appendix A** and **B** to this paper.

2.4 Reporting on the Progress of Seamless ATM Implementation

2.4.1 The AOPWG/3 noted the items of interest to AOP in the APAC Seamless ATM Plan were in the first group named Optimal capacity – Apron Management, Aerodrome Capacity, Safety and Efficiency of Aerodrome Operations, ATM – Aerodrome Coordination and Aerodrome collaborative Decision Making. The AOPWG/3 encouraged States to review the outcomes of the first cycle of reporting, nominate their point of contact if not yet done and to submit their first report online.

2.5 Proposals for the Amendment to Annex 14, Volume I and Volume II

2.5.1 The AOPWG/3 noted that even though the information on the availability of RESAs was published by States/Administrations in their State AIP, it would be helpful to Pilots if the information was also made available in Aerodrome Charts considering that most Pilots refer to Aerodrome Charts for aeronautical information. The AOPWG/3 formulated the following draft Conclusion which was endorsed by ATMSG/3 for further consideration by APANPIRG/26.

Draft Conclusion APANPIRG/26/xx: Publication of RESA availability on Aerodrome Charts

That, States/Administrations are encouraged to publish information on the availability of RESA on Aerodrome Charts, considering that most pilots refer to Aerodrome Charts for aeronautical data/information, and report action taken to ICAO Regional Office by 31 December 2015.

2.6 **Sample APAC Regulations for Water Aerodromes**

2.6.1 The AOPWG/3 reviewed the draft sample regulations and formulated the following Draft Conclusion which was endorsed by the ATMSG/3 for further consideration by APANPIRG/26.

Draft Conclusion APANPIRG/26/xx: Sample Regulations for Water Aerodromes

That, in accordance with Decision ATMSG/2-7, the sample regulations for water aerodromes developed by the Small Working Group be adopted for use as a reference document in the Asia/Pacific Region.

2.6.2 The ATM/SG noted the AOP/WG's Decision to amend the Water Aerodromes Small Working Group's (WASWG) TOR.

2.7 **First Edition of the Procedures for Air Navigation Services – Aerodromes (PANS–Aerodromes, Doc 9981)**

2.7.1 The AOPWG/3 had urged States to implement the provisions of the PANS–Aerodromes and to publish up to date lists of significant differences from this document in their AIP by 10 November 2016. The AOPWG formulated the following Draft Conclusion, which was endorsed by the ATM/SG, for further consideration by APANPIRG/26:

Draft Conclusion APANPIRG/26/xx: Roll out of PANS–Aerodromes

That, ICAO be invited to organize a seminar/workshop in the Asia/Pacific Region to roll out the first edition of PANS Aerodromes (Doc 9981) during first quarter of 2016.

2.8 **Airport Airside Land Master Plan**

2.8.1 The AOP/WG agreed to the following Draft Conclusion regarding the development of Airport Master Plans to support the modernisation of existing airports and creation of new airports, regardless of size, complexity, and role. The Draft Conclusion was endorsed by the ATM/SG/3 for further consideration by APANPIRG/26:

Draft Conclusion APANPIRG/26/xx: Airport Master Plans

That, recognizing the importance of long term development of an airport to cater to the growing traffic, States should encourage airport operators to develop long term airport master plan to assist in the timely phased airport expansions, thereby increasing capacity and enhancing the safety and regularity of aircraft operations, and report progress to AOPWG/4.

2.9 Airport Carbon Emissions Management

2.9.1 The AOPWG/3 noted the benefits of the products and services provided by ACI in respect of guidance materials, training, measuring tool and accreditation service to help airports reduce greenhouse gas emissions and urged APAC States to encourage their airports to use them. The AOPWG/3 invited States to include Airport Carbon Accreditation, in their State Action Plans on Climate Change and formulated the following draft conclusion which was endorsed by ATMSG/3 for further consideration by APANPIRG/26**.**

Draft Conclusion APANPIRG/26/xx: Aerodrome Carbon Emissions Management

That States:

a) Support the inclusion of Aerodrome Carbon Accreditation into their State Action Plans for CO_2 reduction; and

b) encourage aerodrome operators to consider adopting the ACERT (Airport Carbon and Emission Reporting Tool), and to participate in the ACI Airport Carbon Accreditation Programme.

2.10 The AOPWG/3 had reviewed the list of Air Navigation Deficiencies noted by APANPIRG/24 in the AOP field and urged concerned States to provide the necessary resources for the elimination of deficiencies and submit the update to ICAO.

2.11 The AOPWG/3 had reviewed the results taken from the USOAP CMA online framework in the compliance with ICAO SARPs and the common findings identified in the APAC Region.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

a) review the outcomes of the AOPWG/3 Meeting; and

b) consider adoption of the draft Conclusions developed by the AOP Working-Group which were endorsed by ATMSG/3.

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APAC ANP, VOLUME I

PART II – AERODROMES / AERODROME OPERATIONS (AOP)

1. INTRODUCTION

1.1 This part of the APAC ANP constitutes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of aerodromes operations (AOP) facilities and services in the Asia and Pacific Regions and complements the provisions of ICAO SARPs and PANS related to AOP. It contains stable plan elements related to the assignment of responsibilities to States for the provision of aerodrome facilities and services within the Region(s) in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300) and mandatory requirements related to the AOP facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.2 The dynamic plan elements related to the assignment of responsibilities to States for the provision of the aerodrome facilities and services including the mandatory requirements based on regional air navigation agreements related to the AOP are contained in the APAC ANP Volume II Part II - AOP.

1.3 The APAC ANP Volume III contains dynamic/flexible plan elements related to the implementation of air navigation systems and their modernization in line with the ICAO Aviation System Block Upgrades (ASBUs) methodology and associated technology roadmaps described in the Global Air Navigation Plan. The ASBU modules are aimed at increasing capacity and improving efficiency of the aviation system whilst maintaining or enhancing safety level, and achieving the necessary harmonization and interoperability at regional and global level. This includes the regionally agreed ASBU modules applicable to the specified ICAO region/sub-region and associated elements/enablers necessary for the monitoring of the status of implementation of these ASBU modules.

Standards and Recommended Practices and Procedures for Air Navigation Services

1.4 The SARPs and PANS and associated guidance material applicable to the provision of AOP are contained in:

a) Annex 14 — *Aerodromes*, Volumes I and II;

b) *Procedures for Air Navigation Services – Aerodromes* (PANS-Aerodromes) (Doc 9981) *(pending final approval)*;

c) *Airport Planning Manual* (Doc 9184);

d) *Aerodrome Design Manual* (Doc 9157);

e) *Airport Services Manual* (Doc 9137);

f) *Manual on Certification of Aerodromes* (Doc 9774);

g) *Assessment, Measurement and Reporting of Runway Surface Conditions* (Cir 329);

h) *Operation of New Larger Aeroplanes at existing aerodromes* (Cir 305);

i) *Advanced Surface Movement Guidance and Control Systems (A-SMGCS) Manual* (Doc 9830);

j) *Manual of Surface Movement Guidance and Control Systems (SMGCS)* (Doc 9476);

k) *Heliport Manual* (Doc 9261);

l) *Manual on the prevention of runway incursions* (Doc 9870);

m) *Stolport Manual* (Doc 9150);

n) *ICAO Bird Strike Information System Manual* (Doc 9332); and

o) *Manual on Civil Aviation Jet Fuel Supply* (Doc 9977).

2. GENERAL REGIONAL REQUIREMENTS

2.1 Regular aerodromes and their alternates required for international commercial air transport operations should be determined through regional agreements, based on the list of international aerodromes designated by States and the needs of the international commercial flights. Consideration should also be given to the needs of international general aviation flights as identified by user requirements. The alternate aerodromes should be planned/selected, to the greatest practicable extent, from the list of existing regular aerodromes used for international aircraft operations. However, where in specific cases the designation of another aerodrome in close proximity to a regular aerodrome would result in appreciable fuel conservation or other operational advantages, this aerodrome may be designated for use as an alternate aerodrome only. Planning of alternate aerodromes should be made on the basis of the following objectives:

a) to ensure that at least one suitable alternate is available for each international aircraft operation; and

b) to ensure that the facilities at the designated alternate aerodrome(s) are appropriate for the alternate aircraft operations.

2.2 The list of regular and alternate aerodromes (including their designations) required in the Region(s) to serve international civil aviation operations (international scheduled air transport, non-scheduled air transport and general aviation operations) is given in **Table AOP I-1**. Each Contracting State should ensure the provision of aerodrome facilities and services at the international aerodromes under its jurisdiction.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 None

Table AOP I-1
INTERNATIONAL AERODROMES REQUIRED IN THE ASIA AND PACIFIC REGIONS

EXPLANATION OF THE TABLE

City/Aerodrome:	Name of the city and aerodrome, preceded by the location indicator.
Designation:	Designation of the aerodrome as: RS — international scheduled air transport, regular use; RNS — international non-scheduled air transport, regular use; AS — international scheduled air transport, alternate use; ANS — international non-scheduled air transport, alternate use.

Note 1 — when an aerodrome is needed for more than one type of use, normally only the use highest on the above list is shown.

[Example — an aerodrome required for both RS and AS use would only be shown as RS in the list.]

Note 2 — when the aerodrome is located on an island and no particular city or town is served by the aerodrome, the name of the island is included instead of the name of a city.

Table AOP I-1

Location Indicator	Name of City/Aerodrome	Designation
AFGHANISTAN		
OAKB	KABUL/Kabul Intl	RS
OAKN	KANDAHAR/Kandahar Intl	AS
AMERICAN SAMOA (United States)		
NSTU	PAGO PAGO/Pago Pago Intl	RS
AUSTRALIA		
YPAD	ADELAIDE/Adelaide	RS
YBAS	ALICE SPRINGS/Alice Springs	AS
YBBN	BRISBANE/Brisbane	RS
YBCS	CAIRNS/Cairns	RS
YPXM	CHRISTMAS I./Christmas I.	RS
YPCC	COCOS I./Cocos I.	RS
YPDN	DARWIN/Darwin	RS
YMHB	HOBART/Hobart	RNS
YMML	MELBOURNE/Melbourne Intl	RS
YSNF	NORFOLK I./Norfolk I.	RS
YPPH	PERTH/Perth Intl	RS
YPPD	PORT HEDLAND/Port Hedland	RNS
YBRK	ROCKHAMPTON/Rockhampton	AS
YSSY	SYDNEY/Kingsford Smith Intl	RS
YPTN	TINDAL/Tindal	AS
YBTL	TOWNSVILLE/Townsville	RNS

Location Indicator	Name of City/Aerodrome	Designation
BANGLADESH		
VGEG	CHITTAGONG/Shah Amanat Intl	RS
VGHS	DHAKA/Hazrat Shahjalal Intl	RS
BHUTAN		
VQPR	PARO/Paro Intl	RS
BRUNEI DARUSSALAM		
WBSB	BRUNEI/Brunei Intl	RS
CAMBODIA		
VDPP	PHNOM PENH/Phnom Penh	RS
VDSR	SIEM REAP/Siem Reap	AS
CANADA[1]		
CYXX	ABBOTSFORD/Abbotsford	AS
CYYC	CALGARY/Calgary Intl	RS
CYQQ	COMOX/Comox	AS
CYEG	EDMONTON/Edmonton Intl	RS
CYVR	VANCOUVER/Vancouver Intl	RS
CYYJ	VICTORIA/Victoria Intl	RNS
CHINA		
ZBAA	BEIJING/Capital	RS
ZGHA	CHANGSHA/Huanghua	RS

Table AOP I-1

Location Indicator	Name of City/Aerodrome	Designation
ZUUU	CHENGDU/Shuangliu	AS
ZUCK	CHONGQING/Jiangbei	RS
ZYTL	DALIAN/Zhoushuizi	RS
ZSFZ	FUZHOU/Changle	RS
RCKH	GAOXIONG/Gaoxiong	RS
ZGGG	GUANGZHOU/Baiyun	RS
ZGKL	GUILIN/Liangjiang	RS
ZSHC	HANGZHOU/Xiaoshan	RS
ZYHB	HARBIN/Taiping	RS
ZSOF	HEFEI/Luogang	AS
ZBHH	HOHHOT/Baita	RS
ZSJN	JINAN/Yaoqiang	RS
ZWSH	KASHI/Kashi	AS
ZPPP	KUNMING/Wujiaba	RS
ZLLL	LANZHOU/Zhongchuan	AS
ZSNJ	NANJING/Lukou	RS
ZGNN	NANNING/Wuxu	AS
ZSQD	QINGDAO/Liuting	RS
ZJSY	SANYA/Phoenix	RS
ZSSS	SHANGHAI/Hongqiao	RS
ZSPD	SHANGHAI/Pudong	RS
ZYTX	SHENYANG/Taoxian	RS
ZGSZ	SHENZHEN/Bao'an	RS
RCSS	TAIBEI/Songshan	AS
RCTP	TAIBEI CITY/Taibei Intl	RS
ZBYN	TAIYUAN/Wusu	AS
ZBTJ	TIANJIN/Binhai	RS
ZWWW	URUMQI/Diwopu	RS
ZHHH	WUHAN/Tianhe	RNS
ZSAM	XIAMEN/Gaoqi	RS
ZLXY	XI'AN/Xianyang	RS
ZUXC	XICHANG/Qingshan	RNS
COOK IS.		
NCRG	RAROTONGA/Rarotonga Intl	RS
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA		
ZKPY	SUNAN/Sunan	RS
FIJI		
NFFN	NADI/Nadi Intl	RS
NFSU	SUVA/Nausori	RS
FRENCH POLYNESIA (France)		
NTAA	TAHITI/Faaa	RS
GUAM (United States)		
PGUA	GUAM I./Andersen AFB	AS
PGUM	GUAM I./Guam Intl	RS

Table AOP I-1

Location Indicator	Name of City/Aerodrome	Designation
HONG KONG, China		
VHHH	HONG KONG/Hong Kong Intl	RS
INDIA		
VAAH	AHMEDABAD/Sardar Vallabhai Patel International Airport	RS
VIAR	AMRITSAR/Rajasansi Airport	RS
VOBL	BANGALORE/Bangalore International Airport	RS
VOCL	CALICUT/Calicut International Airport	RS
VOMM	CHENNAI/Chennai International Airport	RS
VOCI	COCHIN/Cochin International Airport	RS
VOCB	COIMBATORE/Coimbatore Airport	RS
VEGY	GAYA/Gaya Airport	RS
VEGT	GUWAHATI/Lokpriya Gopinath Bordoloi Airport	RS
VOHS	HYDERABAD/Rajiv Gandhi International Airport	RS
VIJP	JAIPUR/Jaipur Airport	RS
VECC	KOLKATA/Netaji Subhash Chandra Bose International Airport	RS
VILK	LUCKNOW/Choudhry Charan Singh Airport	RS
VOML	MANGALORE/Mangalore Airport	RS
VABB	MUMBAI/Chatrapati Shivaji International Airport	RS
VANP	NAGPUR/DR Ambedkar Airport	RS
VIDP	NEW DELHI/Indira Gandhi International Airport	RS
VEPT	PATNA/Jai Prakash Narayan International Airport	RS
VOTR	THIRUCIRAPALLI/Thiruchirapalli Airport	RS
VOTV	TRIVANDRUM/Trivandrum International Airport	RS
VIBN	VARANASI/Lal Bahadur Shastri Airport	RS

Location Indicator	Name of City/Aerodrome	Designation
INDONESIA		
WAPP	AMBON/Pattimura	RNS
WADD	BALI/Ngurah Rai	RS
WALL	BALIKPAPAN/Sepinggan	RS
WAOO	BANJARMASIN/Syamsudin Noor	AS
WIDD	BATAM/Hang Nadim	RS
WABB	BIAK/Frans Kaisiepo	RS
WIHH	JAKARTA/Halimperdana Kusuma	RNS
WIII	JAKARTA/Soekarno Hatta	RS
WAJJ	JAYAPURA/Sentani	RS
WATT	KUPANG/El Tari	RS
WAAA	MAKASSAR/Sultan Hasanuddin	RS
WAMM	MANADO/Sam Ratulangi	RS
WIMM	MEDAN/Kualanamu	RS
WAKK	MERAUKE/Mopah	RNS
WIPT	PADANG/Minangkabau	RS
WIPP	PALEMBANG/Sultan Mahmud Badaruddin II	RS
WIBB	PEKANBARU/Sultan Syarif Kasim II	RS
WIOO	PONTIANAK/Supadio	RS
WARR	SURABAYA/Juanda	RS
WIDN	TANJUNG PINANG/Raja Haji Fisabilillah Int'l	RNS
WALR	TARAKAN/Juwata	RNS
JAPAN		
RJFF	FUKUOKA/Fukuoka	RS

Table AOP I-1

Location Indicator	Name of City/Aerodrome	Designation
RJCH	HAKODATE/Hakodate	RS
RJOA	HIROSHIMA/Hiroshima	RS
RJFK	KAGOSHIMA/Kagoshima	RS
RJBB	KANSAI/Kansai Intl	RS
RJFT	KUMAMOTO/Kumamoto	RS
RJFU	NAGASAKI/Nagasaki	RS
RJGG	NAGOYA/Chubu Centrair Intl	RS
ROAH	NAHA/Naha	RS
RJSN	NIIGATA/Niigata	RS
RJFO	OITA/Oita	RS
RJOB	OKAYAMA/Okayama	RS
RJOO	OSAKA/Osaka Intl	AS
RJCC	SAPPORO/New Chitose	RS
RJSS	SENDAI/Sendai	RS
RJOT	TAKAMATSU/Takamatsu	RS
RJAA	TOKYO/Narita Intl	RS
RJTT	TOKYO/Tokyo Intl	RS
JOHNSTON I. (United States)		
PJON	JOHNSTON ATOLL/Johnston I.	RS
KIRIBATI		
PLCH	KIRITIMATI I./Christmas I.	RS
NGTA	TARAWA/Bonriki Intl	RS

Location Indicator	Name of City/Aerodrome	Designation
LAO PEOPLE'S DEMOCRATIC REPUBLIC		
VLVT	VIENTIANE/Wattay	RS
MACAO, China		
VMMC	MACAO/Macao Intl	RS
MALAYSIA		
WMKJ	JOHOR BAHRU/Sultan Ismail	RS
WBKK	KOTA KINABALU/Kota Kinabalu Intl	RS
WBGG	KUCHING/Kuching	RS
WMKP	PENANG/Penang Intl	RS
WMKL	PULAU LANGKAWI/Pulau Langkawi	RS
WMKK	SEPANG/KL Intl	RS
MALDIVES		
VRMG	GAN/Gan International	AS
VRMH	HANIMAADHOO/Hanimaadhoo Intl	RS
VRMV	MAAMIGILI/Villa Intl	RS
VRMM	MALE/Ibrahim Nasir Intl	RS
MARSHALL IS.		
PKMJ	MAJURO ATOLL/Marshall Is. Intl	RS
MICRONESIA (FEDERATED STATES OF)		
PTPN	POHNPEI I./Pohnpei Intl	RS

Table AOP I-1

Location Indicator	Name of City/Aerodrome	Designation
PTKK	WENO I./FM Chuuk Intl	RS
PTYA	YAP I./Yap Intl	RS
MONGOLIA		
ZMUB	ULAANBAATAR/Ulaanbaatar	RS
MYANMAR		
VYYY	YANGON/Yangon Intl	RS
NAURU		
AUUU	NAURU I./Nauru I.	RS
NEPAL		
VNKT	KATHMANDU/Kathmandu	RS
NEW CALEDONIA (France)		
NWWW	NOUMEA/La Tontouta	RS
NEW ZEALAND		
NZAA	AUCKLAND/Auckland Intl	RS
NZCH	CHRISTCHURCH/Christchurch Intl	RS
NZWN	WELLINGTON/Wellington Intl	RS
NIUE (New Zealand)		
NIUE	NIUE/Hanan Intl	RS

Location Indicator	Name of City/Aerodrome	Designation
NORTHERN MARIANA IS. (United States)		
PGSN	OBYAN/Saipan Intl	RS
PGRO	ROTA I./Rota Intl	RS
PAKISTAN		
OPGD	GWADAR/Gwadar	RS
OPRN	ISLAMABAD/Benazir Bhutto Intl	RS
OPKC	KARACHI/Jinnah Intl	RS
OPLA	LAHORE/Allama Iqbal Intl	RS
OPNH	NAWABSHAH/Nawabshah	AS
OPPS	PESHAWAR/Peshawar	RS
PALAU		
PTRO	BABELTHAUP I./Koror	RS
PAPUA NEW GUINEA		
AYPY	PORT MORESBY/Port Moresby	RS
AYVN	VANIMO/Vanimo	RS
PHILIPPINES		
RPMD	DAVAO/Francisco Bangoy Intl	RNS
RPLI	LAOAG/Laoag Intl	AS
RPVM	LAPU-LAPU/Mactan Cebu	RS
RPLL	MANILA/Ninoy Aquino Intl	RS
RPLC	PAMPANGA/Clark Intl	RNS

Table AOP I-1

Location Indicator	Name of City/Aerodrome	Designation
RPLB	SUBIC BAY/Subic Bay Intl	RNS
RPMZ	ZAMBOANGA/Zamboanga Intl	RNS
RPMR	GENERAL SANTOS/Tambler Intl	RNS
RPVI	ILOILO/Iloilo Intl	RNS
REPUBLIC OF KOREA		
RKTU	CHEONGJU/Cheongju Intl	RS
RKTN	DAEGU/Daegu Intl	RS
RKPK	GIMHAE/Gimhae Intl	RS
RKSS	GIMPO/Gimpo Intl	RNS
RKSI	INCHEON/Incheon Intl	RS
RKPC	JEJU/Jeju Intl	RS
RKNY	YANGYANG/Yangyang Intl	RS
RKJB	MUAN/Muan Intl	RS
SAMOA		
NSFA	FALEOLO/Faleolo Intl	RS
SINGAPORE		
WSAP	PAYA LEBAR/Paya Lebar (RSAF)	AS
WSSL	SELETAR/Seletar	RS
WSSS	SINGAPORE/Changi	RS
SOLOMON IS.		
AGGH	HONIARA/Henderson	RS

Location Indicator	Name of City/Aerodrome	Designation
SRI LANKA		
VCBI	COLOMBO/Bandaranaike Intl	RS
VCRI	MATTALA/Mattala Rajapaksa Intl	RS
	RS	
THAILAND		
VTBD	BANGKOK/Don Meuang Intl	RS
VTBS	BANGKOK/Suvarnabhumi Intl	RS
VTCC	CHIANG MAI/Chiang Mai Intl	RS
VTCT	CHIANG RAI/ Mae Fah Luang-Chiang Rai Intl	RS
VTUK	KHON KAEN/Khon Kaen	RS
VTSG	KRABI/ Krabi	RS
VTPP	PHITSANULOK/Phitsanulok	RS
VTSP	PHUKET/Phuket Intl	RS
VTBU	RAYONG/U-Taphao Pattaya Intl	RS
VTSS	SONGKHLA/Hat Yai Intl	RS
VTSB	SURAT THANI/Surat Thani	RS
VTUU	UBON RATCHATHANI/Ubon Ratchathani	RS
TONGA		
NFTF	FUA'AMOTU/Fua'amotu Intl	RS
NFTV	VAVA'U/Vava'u	RS
TUVALU		
NGFU	FUNAFUTI/Funafuti Intl	RS

Table AOP I-1

Location Indicator	Name of City/Aerodrome	Designation
UNITED STATES[1]		
PANC	ANCHORAGE/Anchorage Intl	RS
PAED	ANCHORAGE/Elemendorf AFB	AS
PACD	COLD BAY/Cold Bay	AS
KPAE	EVERETT/Snohomish County-Paine Field	AS
PAEI	FAIRBANKS/Eielson AFB	AS
PAFA	FAIRBANKS/Fairbanks Intl	RS
KFAT	FRESNO/Fresno Air Terminal	AS
PHTO	HILO/Hilo Intl	AS
PHNL	HONOLULU/Oahu Intl	RS
PHOG	KAHULUI/Kahului	AS
PAKN	KING SALMON/King Salmon	AS
KLAX	LOS ANGELES/Los Angeles Intl	RS
KOAK	OAKLAND/Metropolitan Oakland	AS
KONT	ONTARIO/Ontario Intl	AS
KPMD	PALMDALE/Palmdale P.F.T.I.	AS
KPDX	PORTLAND/Portland Intl	AS
KSMF	SACRAMENTO/Metropolitan	AS
KSAN	SAN DIEGO/San Diego (AFSS)	AS
KSFO	SAN FRANCISCO/San Francisco Intl	RS
KSJC	SAN JOSE/San Jose Intl	RS
KBFI	SEATTLE BOEING FIELD/King County Intl	AS
KSEA	SEATTLE/Seattle-Tacoma Intl	RS
KGEG	SPOKANE/Spokane Intl	AS
KSCK	STOCKTON/Metropolitan	AS
KIAD	WASHINGTON/Dulles Intl	RS
VANUATU		
NVVV	PORT VILA/Bauerfield	RS
NVSS	SANTO/Pekoa	RS
VIET NAM		
VVCT	CAN THO/Can Tho	RS
VVDN	DA NANG/Da Nang	RS
VVNB	HA NOI/Noi Bai	RS
VVTS	HO CHI MINH/Tan Son Nhat	RS
VVPB	HUE/Phu Bai	RS
VVCR	KHANH HOA/Cam Ranh	RS
VVPQ	KIEN GIANG/Phu Quoc	RS
WALLIS AND FUTUNA IS. (France)		
NLWW	WALLIS/Hihifo	RS

Note 1.— Outside ASIA/PAC. Indicated for coordination

APAC ANP, VOLUME II

PART II – AERODROMES / AERODROME OPERATIONS (AOP)

1. INTRODUCTION

1.1 This part of the APAC ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to aerodrome design and operations (AOP). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of AOP facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to AOP facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

2.1 **Table AOP II-1** contains the list of facilities and services to be provided by the State concerned at each aerodrome that is listed in **Table AOP I-1** in Volume I. Table AOP II-1 shows the operational requirements at each aerodrome to be considered in planning the facilities and services for safe and efficient aircraft operations.

Visual aids for low visibility aerodrome operations

2.2 At aerodromes where there is a requirement to conduct low visibility operations, the appropriate visual and non-visual aids should be provided.

Non-precision approach aids

2.3 Where required by the topographic and/or environmental situation of an aerodrome, improved track guidance during departure and/or approach by specific non-visual and/or visual aids should be provided even if such aids would not normally be required in accordance with the SARPs.

Reduced runway declared distances for take-off

Note. — In the following operational requirements the term "intersection" is used to cover both intersection and junction concepts.

2.4 The reduced runway declared distances for take-off, as for those used for full runway declared distances, should consist of take-off run available (TORA), take-off distance available (TODA) and accelerate-stop distance available (ASDA).

2.5 The datum-line from which the reduced runway declared distances for take-off should be determined is defined by the intersection of the downwind edge of the specific taxiway with the runway edge. The loss, if any, of runway length due to alignment of the aircraft prior to take-off should be taken into account by the operators for the calculation of the aircraft's take-off weight.

2.6 Intersections used as intermediate take-off positions should be identified by the "taxiway designator" to which the datum-line of the associated reduced runway declared distance for take-off refers.

2.7 At each international aerodrome, specific minima visibility for take-off should be established, regulating the use of intersection take-off positions. These minima should permit the appropriate ATC unit to maintain a permanent surveillance of the ground movement operations, and the flight crews to constantly secure their position on the manoeuvring area, so as to exclude any potential risk of confusion as to the identification of the aircraft and intersections used for take-off. The minima should be consistent with the surface movement guidance and control system (SMGCS) provided at the aerodrome concerned.

2.8 The provision of marking and lighting aids together with signs should ensure the safe control and guidance of aircraft towards and at take-off intersections appropriate to the minima visibility criteria retained. At the runway holding position of the associated intersection take-off position, such signs should indicate the runway heading and the remaining TORA in metres.

2.9 At aerodromes regularly used by international commercial air transport, take-offs from runway/taxiway intersections may be justified for the following reasons:

a) runway capacity improvement;
b) taxi routes distances reduction;
c) noise alleviation; and
d) air pollution reduction.

2.10 The appropriate authorities should, upon prior consultation with aircraft operators, agree on the selection of suitable intermediate intersection take-off positions along the runway(s). Accordingly, authorities should determine the reduced runway declared distances for take-off associated with each selected intersection take-off position and establish the specific ATC rules and operational procedures/limitations. Such provisions should be published in the State aeronautical information publications (AIP).

Aerodrome capacity management

2.11 As an integral part of the air navigation system, the aerodrome should provide the needed ground infrastructure including, *inter alia*, lighting; taxiways; runway, including exits; aprons and precise surface guidance to improve safety and to maximize aerodrome capacity in all weather conditions. An efficient aerodrome capacity planning and management should include:

a) reduction of runway occupancy time;
b) the capability to safely manoeuvre in all weather conditions whilst maintaining capacity;
c) precise surface guidance to and from a runway required in all conditions; and
d) availability of information on the position (to an appropriate level of accuracy) and intent of all vehicles and aircraft operating on the movement area for the appropriate ATM community members.

2.12 States should ensure that adequate consultation and, where appropriate, cooperation between airport authorities and users/other involved parties are implemented at all international aerodromes to satisfy the provisions of aerodrome capacity assessment and requirement.

2.13 When international aerodromes are reaching designed operational capacity, a better and more efficient utilization of existing runways, taxiways and aprons is required. Runway selection procedures and standard taxi routes at aerodromes should ensure an optimum flow of air traffic with a minimum of delay and a maximum use of available capacity. They should also, if possible, take account of the need to keep taxiing times for arriving and departing aircraft as well as apron occupancy time to a minimum. The airport collaborative decision making (A-CDM) concept should be implemented to improve airport capacity as early as possible.

Aerodrome capacity assessment and requirement

2.14 The declared capacity/demand condition at aerodromes should be periodically reviewed in terms of a qualitative analysis for each system component and, when applicable, the result of the qualitative assessment upon mutual agreement be used for information.

2.15 The future capacity/demand, based on a forecast for the next five years, should be agreed upon after close cooperation between aerodrome authorities and affected users.

2.16 Operators should consult with aerodrome authorities when future plans indicate a significant increased requirement for capacity resulting in one of the elements reaching a limiting condition.

2.17 Aerodrome capacity should be assessed by aerodrome authorities in consultation with the parties involved for each component (terminal/apron/aircraft operations) using agreed methods and criteria for level of delays.

2.18 Where restrictions in aerodrome capacity are identified, a full range of options for their reduction or removal should be evaluated by the aerodrome authority, in close cooperation with the operators and other involved parties. Such options should include technical/operational/procedural and environmental improvements and facility expansion.

2.19 At many aerodromes, airspace capacity has influence on the aerodrome capacity. If the declared capacity of a specified airspace has influence on aerodrome operations, this should be indicated and action undertaken to reach a capacity in this airspace corresponding to the aerodrome capacity.

2.20 The possibility of overcoming capacity limitations should also take the use of other aerodromes in the vicinity into consideration.

Closure of regular aerodromes

2.21 When a regular aerodrome is to be closed, States should ensure that sufficient alternate aerodromes remain open to provide for the safety and efficiency of aircraft approaching the regular aerodrome that may be required to divert to an alternate.

Scheduling aerodrome maintenance

2.22 States, when planning major aerodrome maintenance work that would affect the regularity of international aircraft operations, should consider the need to notify aircraft operators sufficiently in advance prior to undertaking the scheduled work.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 Special Regional Requirements-Alternate Aerodromes

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
AFGHANISTAN			
OAKB	KABUL/Kabul intl	VIAR	Amritsar
	RS	VIDP	Delhi
		OPRN	Islamabad
		OAKN	Kandahar
		OPKC	Karachi

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
		OPPS	Peshawar
		UTTT	Tashkent
OAKN	KANDAHAR/Kandahar Intl	OAKB	Kabul
	AS		
AMERICAN SAMOA (United States)			
NSTU	PAGO PAGO/Pago Pago Intl	NIUE	Niue
	RS	NSAP	Faleolo
		NFFN	Nadi
		NLWW	Wallis
AUSTRALIA			
YPAD	ADELAIDE/Adelaide	YBBN	Brisbane
	RS	YMML	Melbourne
		YPPH	Perth
		YSSY	Sydney
YBAS	ALICE SPRINGS/Alice Springs	YBBN	Brisbane
	AS	YPDN	Darwin
		YSSY	Sydney
YBBN	BRISBANE/Brisbane	YPAD	Adelaide
	RS	YBAS	Alice Springs
		YMML	Melbourne
		NWWW	Noumea
		YSSY	Sydney
		YBTL	Townsville
YBCS	CAIRNS/Cairns	YBTL	Townsville
	RS		
YPXM	CHRISTMAS I./Christmas I.	YPCC	Cocos I.
	RS		
YPCC	COCOS I./Cocos I.	YPXM	Christmas I.
	RS		
YPDN	DARWIN/Darwin	YBAS	Alice Springs
	RS	WATT	Kupang
		AYPY	Port Morseby
		YPTN	Tindal
		YBTL	Townsville
YMHB	HOBART/Hobart	YPAD	Adelaide
	RNS	YMML	Melbourne

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
YMML	MELBOURNE/Melbourne Intl	YPAD	Adelaide
	RS	YBBN	Brisbane
		YSSY	Sydney
YSNF	NORFOLK I./Norfolk I.	NZAA	Auckland
	RS	NWWW	Noumea
YPPH	PERTH/Perth Intl	YPAD	Adelaide
	RS	YPDN	Darwin
		YPLM	Learmonth
		YPPD	Port Hedland
YPPD	PORT HEDLAND/Port Hedland	YBRM	Broome
	RNS	YPLM	Learmonth
		YPPH	Perth
YBRK	ROCKHAMPTON/Rockhampton	YBCS	Carins
	AS	YBTL	Townsville
YSSY	SYDNEY/Kingsford Smith Intl	YPAD	Adelaide
	RS	YBAS	Alice Springs
		YBBN	Brisbane
		YSDU	Dubbo
		YMML	Melbourne
		NWWW	Noumea
YPTN	TINDAL/Tindal	YPDN	Darwin
	AS	YBTL	Townsville
YBTL	TOWNSVILLE/Townsville	YBBN	Brisbane
	RNS	YBCS	Cairns
		YPDN	Darwin
		AYPY	Port Moresby
		YPTN	Tindal
BANGLADESH			
VGEG	CHITTAGONG/Shah Amanat Intl	VGHS	Dhaka
	RS		
VGHS	DHAKA/Hazrat Shahjalal Intl	VTBS	Bangkok
	RS	VTBD	Bangkok
		VECC	Kolkata
		VGEG	Chittagong
		VIDP	Delhi
		VNKT	Kathmandu
		VYYY	Yangon

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
BHUTAN			
VQPR	PARO/Paro Intl	VECC	Kolkata
	RS	VGHS	Dhaka
BRUNEI DARUSSALAM			
WBSB	BRUNEI/Brunei Intl	WBKK	Kota Kinabalu
	RS	WMKK	Sepang
		WBGG	Kuching
		RPLL	Manila
		WSSS	Singapore
CAMBODIA			
VDPP	PHNOM PENH/Phnom Penh	VTBS	Bangkok
	RS	VTBD	Bangkok
		VVTS	Ho Chi Minh
		VDSR	Siem Reap
VDSR	SIEM REAP/Siem Reap	VDPP	Phnom Penh
	AS		
CANADA[1]			
CYXX	ABBOTSFORD/Abbotsford	CYYC	Calgary
	AS	CYYQ	Comox
		CYEG	Edmonton
		KSEA	Seattle
		CYVR	Vancouver
		CYYJ	Victoria
CYYC	CALGARY/Calgary Intl	CYXX	Abbotsford
	RS	CYQQ	Comox
		CYEG	Edmonton
		KSEA	Seattle
		CYVR	Vancouver
		CYYJ	Victoria
CYQQ	COMOX/Comox	CYXX	Abbotsford
	AS	CYYC	Calgary
		CYEG	Edmonton
		KSEA	Seattle
		CYVR	Vancouver
		CYYJ	Victoria
CYEG	EDMONTON/Edmonton Intl	CYXX	Abbotsford
	RS	CYYC	Calgary
		CYQQ	Comox
		KSEA	Seattle
		CYVR	Vancouver
		CYYJ	Victoria

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
CYVR	VANCOUVER/Vancouver Intl	CYXX	Abbotsford
	RS	CYYC	Calgary
		CYQQ	Comox
		CYEG	Edmonton
		KSEA	Seattle
		CYYJ	Victoria
CYYJ	VICTORIA/Victoria Intl	CYXX	Abbotsford
	RNS	CYYC	Calgary
		CYQQ	Comox
		CYEG	Edmonton
		KSEA	Seattle
		CYVR	Vancouver
CHINA			
ZBAA	BEIJING/Capital	ZYTL	Dalian
	RS	ZSSS	Shanghai
		ZSPD	Shanghai
		ZYTX	Shenyang
		ZBYN	Taiyuan
		ZBTJ	Tianjin
ZGHA	CHANGSHA/Huanghua	ZUUU	Chengdu
	RS	ZGGG	Guangzhou
		ZGKL	Guilin
		ZHHH	Wuhan
ZUUU	CHENGDU/Shuangliu	ZUCK	Chongqing
	AS	ZPPP	Kunming
		ZUXC	Xichang
ZUCK	CHONGQING/Jiangbei	ZUUU	Chengdu
	RS	ZPPP	Kunming
		ZUXC	Xichang
ZYTL	DALIAN/Zhoushuizi	ZBAA	Beijing
	RS	ZSQD	Qingdao
		ZYTX	Shenyang
		ZBTJ	Tianjin
ZSFZ	FUZHOU/Changle	ZGGG	Guangzhou
	RS	ZSHC	Hangzhou
		ZSSS	Shanghai
		ZSPD	Shanghai
		ZSAM	Xiamen
RCKH	GAOXIONG/Gaoxiong	VHHH	Hong Kong

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
	RS	RPLL	Manila
		VMMC	Macao
		RCSS	Taibei
		RCTP	Taibei City
ZGGG	GUANGZHOU/Baiyun	ZSHC	Hangzhou
	RS	VHHH	Hong Kong
		VMMC	Macao
		ZGNN	Nanning
		ZSSS	Shanghai
		ZSPD	Shanghai
ZGKL	GUILIN/Liangjiang	ZGHA	Changsha
	RS	ZGGG	Guangzhou
		ZGNN	Nanning
		ZHHH	Wuhan
ZSHC	HANGZHOU/Xiaoshen	ZSFZ	Fuzhou
	RS	ZSOF	Hefei
		ZSNJ	Nanjing
		ZSSS	Shanghai
		ZSPD	Shanghai
		ZSAM	Xiamen
ZYHB	HARBIN/Taiping	ZBAA	Beijing
	RS	ZYTL	Dalian
		ZYTX	Shenyang
		ZBTJ	Tianjin
ZSOF	HEFEI/Luogang	ZSHC	Hangzhou
	AS	ZSNJ	Nanjing
		ZSSS	Shanghai
		ZSPD	Shanghai
		ZHHH	Wuhan
ZBHH	HOHHOT/Baita	ZBAA	Beijing
	RS	ZBYN	Taiyun
		ZBTJ	Tianjin
ZSJN	JINAN/Yaoqiang	ZBAA	Beijing
	RS	ZSOF	Hefei
		ZSQD	Qingdao
		ZBTJ	Tianjin
ZWSH	KASHI/Kashi	ZWWW	Urumqi
	AS		
ZPPP	KUNMING/Wujiaba	ZUUU	Chengdu

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
	RS	ZUCK	Chongqing
		ZGNN	Nanning
ZLLL	LANZHOU/Zhongchuan	ZBYN	Taiyun
	AS	ZWWW	Urumqi
		ZLXY	Xi'an
ZSNJ	NANJING/Lukou	ZSHC	Hangzhou
	RS	ZSOF	Heifei
		ZSJN	Jinan
		ZSSS	Shanghai
		ZSPD	Shanghai
ZGNN	NANNING/Wuxu	ZUCK	Chongqing
	AS	ZGGG	Guangzhou
		ZPPP	Kunming
ZSQD	QINGDAO/Liuting	ZYTL	Dalian
	RS	ZSJN	Jinan
		ZSSS	Shanghai
		ZSPD	Shanghai
ZJSY	SANYA/Phoenix	ZGGG	Guangzhou
	RS	VHHH	Hongkong
		VMMC	Macao
		ZGNN	Nanning
ZSSS	SHANGHAI/Hongqiao	ZBAA	Beijing
	RS	ZSHC	Hangzhou
		ZSOF	Hefei
		ZSNJ	Nanjing
		ZSPD	Shanghai
ZSPD	SHANGHAI/Pudong	ZBAA	Beijing
	RS	ZSHC	Hangzhou
		ZSOF	Hefei
		ZSNJ	Nanjing
		ZSPD	Shanghai
ZYTX	SHENYANG/Taoxian	ZBAA	Beijing
	RS	ZYTL	Dalian
		ZYHB	Harbin
		ZBTJ	Tianjin
ZGSZ	SHENZHEN/Bao'an	ZGGG	Guangzhou
	RS	VHHH	Hong Kong
		VMMC	Macao

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
RCSS	TAIBEI/Songshan	RCKH	Gaoxiong
	AS	RCTP	Taibei City
RCTP	TAIBEI CITY/Taibei Intl	RCKH	Gaoxiong
	RS	VHHH	Hong Kong
		RPLL	Manila
		VMMC	Macao
		RJBB	Kansai
		RJOO	Osaka
		RCSS	Taibei
ZBYN	TAIYUAN/Wusu	ZBAA	Beijing
	AS	ZBHH	Hohhot
		ZBTJ	Tianjin
		ZLXY	Xi'an
ZBTJ	TIANJIN/Binhai	ZBAA	Beijing
	RS	ZYTL	Dalian
		ZSJN	Jinan
		ZSQD	Qingdao
		ZBYN	Taiyun
ZWWW	URUMQI/Diwopu	ZLLL	Lanzhou
	RS	ZWAK	Kashi
ZHHH	WUHAN/Tianhe	ZBAA	Beijing
	RNS	ZGHA	Changsha
		ZGGG	Guangzhou
		ZGKL	Guilin
		ZSJN	Jinan
ZSAM	XIAMEN/Gaoqi	ZSFZ	Fuzhou
	RS	ZGGG	Guangzhou
		ZSSS	Shanghai
		ZSPD	Shanghai
ZLXY	XI'AN/Xianyang	ZBAA	Beijing
	RS	ZUUU	Chengdu
		ZBYN	Taiyuan
		ZLLL	Lanzhou
		ZHHH	Wuhan
ZUXC	XICHANG/Qingshan	ZUUU	Chengdu
	RNS	ZUCK	Chongqing
		ZPPP	Kunming
COOK IS.			
NCRG	RAROTONGA/Rarotonga Intl	NIUE	Niue
	RS	NSTU	Pago Pago

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
		NTAA	Tahiti
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA			
ZKPY	SUNAN/Sunan	ZBAA	Beijing
	RS	ZYYY	Shenyang
FIJI			
NFFN	NADI/Nadi Intl	NZAA	Auckland
	RS	NWWW	Noumea
		NSTU	Pago Pago
		NFSU	Suva
NFSU	SUVA/Nausori	NFFN	Nadi
	RS		
FRENCH POLYNESIA (France)			
NTAA	TAHITI/Faaa	NCRG	Rarotonga
	RS		
GUAM (United States)			
PGUA	GUAM I./Andersen AFB	PGUM	Guam I.
	AS	PGSN	Saipan I. (Obyan)
PGUM	GUAM I./Guam Intl	PGUA	Guam I.
	RS	PGSN	Saipan I. (Obyan)
HONG KONG, China			
VHHH	HONG KONG/Hong Kong Intl	RCKH	Gaoxiong
	RS	ZGGG	Guangzhou
		RPVM	Lapu-Lapu
		VMMC	Macau
		RPLL	Manila
		ROAH	Naha
		ZSSS	Shanghai
		ZGSZ	Shenzhen
		RCTP	Taibei City
INDIA			
VAAH	AHMEDABAD/Sardar Vallabhbhai Patel International Airport	VABB	Mumbai
	RS	VIDP	Delhi
VIAR	AMRITSAR/Amritsar Airport	VIDP	Delhi
	RS	OPLA	Lahore
VOBL	BANGALORE/Bangalore International Airport	VOMM	Chennai
	RS	VOHS	Hyderabad

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
VOCL	CALICUT/Calicut Airport	VOCI	Cochin
	RS	VOTV	Thiruvanthapuram
VOMM	CHENNAI/Chennai Airport	VABB	Mumbai
	RS	VECC	Kolkata
		VCBI	Colombo
		VOTR	Tiruchchirappalli
		VOTV	Thiruvanthapuram
		VOBL	Bangalore
		VOHS	Hyderabad
VOCB	COIMBATORE/Coimbatore Airport	VOMM	Chennai
	RS		
VOCI	COCHIN/Cochin Airport	VOTV	Thiruvananthapuram
	RS	VOMM	Chennai
VIDP	DELHI/Indira Gandhi Intl Airport	VAAH	Ahmadabad
	RS	VIAR	Amritsar
		VABB	Mumbai
		VECC	Kolkata
		OPKC	Karachi
		OPLA	Lahore
VEGY	GAYA/ Gaya Airport	VECC	Kolkata
	RS		
VEGT	GUWAHATI/Lokpriya Gopinath Bordolai International Airport	VECC	Kolkotta
	RS		
VOHS	HYDERABAD/Rajiv Gandhi International Airport	VOMM	Chennai
	RS	VOBL	Bangalore
		VABB	Mumbai
		VAHH	Ahmedabad
VIJP	JAIPUR/Jaipur Airport	VIDP	Delhi
	RS	VAAH	Ahmedabad
VECC	KOLKATA/Netaji Subhash Chandra Bose International Airport	VTBS	Bangkok
	RS	VTBD	Bangkok
		VGHS	Dhaka
		VIDP	Delhi
		VNKT	Kathmandu
		VOMM	Chennai
		VANP	Nagpur
		VEPT	Patna

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
VILK	LUCKNOW/Chaudhry Charan Singh Airport	VIDP	Delhi
	RS		
VOML	MANGALORE/ Mangalore Airport	VOTV	Thiruvananthapuram
	RS	VOMM	Chennai
VABB	MUMBAI/Chatrapati Shivaji International Airport	VAAH	Ahmadabad
	RS	VIDP	Delhi
		OPKC	Karachi
		VANP	Nagpur
		VOHS	Hyderabad
VANP	NAGPUR/Dr Ambedkar Airport	VABB	Mumbai
	RS	VECC	Kolkata
VEPT	PATNA/Patna Airport	VECC	Kolkata
	RS	VIDP	Delhi
VOTR	TIRUCHCHIRAPPALLI/ Tiruchchirappalli Airport	VCBI	Colombo
	RS	VOMM	Chennai
		VOBL	Bangalore
VOTV	THIRUVANANTHAPURAM/ Thiruvananthapuram Airport	VABB	Mumbai
	RS	VCBI	Colombo
		VOMM	Chennai
		VOTR	Tiruchchirappalli
VIBN	VARANASI/Lal Bahadur Shastri Airport	VIDP	Delhi
	RS	VILK	Lucknow
INDONESIA			
WAPP	AMBON/Pattimura	WAAA	Makassar
	RNS		
WADD	BALI/Ngurah Rai	WIHH	Jakarta
	RS	WIII	Jakarta
		WSSS	Singapore
		WARR	Surabaya
WALL	BALIKPAPAN/Sepinggan	WAAA	Makassar
	RS	WARR	Surabaya
		WAOO	Banjarmasin
WAOO	BANJARMASIN/Syamsudin Noor	WALL	Balikpapan

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
	AS		
WIDD	BATAM/Hang Nadim	WIMM	Medan
	RS	WIBB	Pekanbaru
		WSSS	Singapore
WABB	BIAK/Frans Kaisiepo	WAJJ	Jayapura
	RS	WAAA	Makassar
WIHH	JAKARTA/HalimPerdana Kusuma	WADD	Bali
	RNS	WIII	Jakarta
		WSSS	Singapore
		WARR	Surabaya
WIII	JAKARTA/Soekarno Hatta	WADD	Bali
	RS	WIHH	Jakarta
		WSSS	Singapore
		WARR	Surabaya
WAJJ	JAYAPURA/Sentani	WABB	Biak
	RS	WABP	Timika
WATT	KUPANG/El Tari	WADD	Bali
	RS		
WAMM	MANADO/Sam Ratulangi	WAAA	Makassar
	RS		
WIMM	MEDAN/Kualanamu	WMKK	Sepang
	RS	WMKP	Penang
		WSSS	Singapore
WAKK	MERAUKE/Mopah	WAJJ	Jayapura
	RNS		
WIPT	PADANG/Minangkabau	WIBB	Pekanbaru
	RS	WIMM	Medan
		WIDD	Batam
WIPP	PALEMBANG/Sultan Mahmud Badaruddin II	WIHH	Jakarta
	RS	WIII	Jakarta
WIBB	PEKANBARU/Sultan Syarif Kasim II	WIMM	Medan
	RS	WSSS	Singapore
WIOO	PONTIANAK/Supadio	WBGG	Kuching
	RS	WSSS	Singapore

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
WARR	SURABAYA/Juanda	WADD	Bali
	RS	WIHH	Jakarta
		WIII	Jakarta
WIDN	TANJUNG PINANG/Raja Haji Fisabilillah	WIDD	Batam
	RNS	WSSS	Singapore
WALR	TARAKAN/Juwata	WBSB	Brunei
	RNS	WBKK	Kota Kinabalu
		WALL	Balikpapan
WAAA	MAKASSAR/Sultan Hasanuddin	WADD	Bali
	RS		
JAPAN			
RJFF	FUKUOKA/Fukuoka	RJFK	Kagoshima
	RS	RKPK	Gimhae
		RJFT	Kumamoto
		RJFU	Nagasaki
		RJGG	Nagoya
		RJBB	Kansai
		RJOO	Osaka
		RKSS	Gimpo
		RJAA	Narita
		RJTT	Tokyo
RJCH	HAKODATE/Hakodate	RJBB	Kansai
	RS	RJOO	Osaka
		RJCC	Sapporo
		RJAA	Narita
RJOA	HIROSHIMA/Hiroshima	RJFU	Nagasaki
	RS	RJBB	Kansai
		RJOO	Osaka
RJFK	KAGOSHIMA/Kagoshima	RJFF	Fukuoka
	RS	RKPK	Gimhae
		RJFT	Kumamoto
		RJFU	Nagasaki
		RJBB	Kansai
		RJOO	Osaka
RJBB	KANSAI/Kansai Intl	RJCC	New Chitose
	RS	ROAH	Naha
		RJOO	Osaka
		RJAA	Narita
		RJTT	Tokyo

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
RJFT	KUMAMOTO/Kumamoto	RJFF	Fukuoka
	RS	RJFK	Kagoshima
		RJFU	Nagasaki
		RJBB	Kansai
		RJOO	Osaka
RJFU	NAGASAKI/Nagasaki	RJFF	Fukuoka
	RS	RJFK	Kagoshima
		RJFT	Kumamoto
		RJBB	Kansai
		RJOO	Osaka
RJGG	NAGOYA/Chubu Centrair Intl.	RJSN	Niigata
	RS	RJBB	Kansai
		RJOO	Osaka
		RJAA	Narita
ROAH	NAHA/Naha	RJFF	Fukuoka
	RS	RCKH	Gaoxiong
		VHHH	Hong Kong
		RJBB	Kansai
		RJOO	Osaka
		RCTP	Taibei City
		RJAA	Narita
RJSN	NIIGATA/Niigata	RJGG	Nagoya
	RS	RJBB	Kansai
		RJOO	Osaka
		RJAA	Narita
		RJTT	Tokyo
RJFO	OITA/Oita	RJFF	Fukuoka
	RS		
RJOB	OKAYAMA/Okayama	RJFF	Fukuoka
	RS	RJFO	Oita
RJOO	OSAKA/Osaka Intl	RJFF	Fukuoka
	AS	RJCH	Hakodate
		RJFK	Kagoshima
		RKPK	Gimhae
		RJGG	Nagoya
		ROAH	Naha
		RJBB	Kansai
		RKSS	Gimpo
		RJAA	Narita
		RJTT	Tokyo

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
RJCC	SAPPORO/New Chitose	RJAA	Narita
	RS	RJCH	Hakodate
		RJSN	Niigata
RJSS	SENDAI/Sendai	RJSN	Niigata
	RS	RJTT	Tokyo
RJOT	TAKAMATSU/Takamatsu	RJBB	Kansai
	RS	RJOO	Osaka
		RJOA	Hiroshima
RJAA	TOKYO/Narita Intl	RJFF	Fukuoka
	RS	RJCH	Hakodate
		RJGG	Nagoya
		ROAH	Naha
		RJSN	Niigata
		RJBB	Kansai
		RJOO	Osaka
		RJCC	Sapporo
		RCTP	Taibei City
		RJTT	Tokyo
RJTT	TOKYO/Tokyo Intl	RJSN	Niigata
	RS	RJBB	Kansai
		RJOO	Osaka
		RJAA	Narita
JOHNSTON I. (United States)			
PJON	JOHNSTON ATOLL/Johnston I	PHNL	Honolulu
	RS	PKMJ	Majuro Atoll
KIRIBATI			
PLCH	KIRITIMATI I./Christmas I.	NGTA	Tarawa
	RS		
NGTA	TARAWA/Bonriki Intl	PKMJ	Nauru I.
	RS	PKMJ	Majuro Atoll
LAO PEOPLE'S DEMOCRATIC REPUBLIC			
VLVT	VIENTIANE/Wattay	VTBS	Bangkok
	RS	VTBD	Bangkok
		VTCC	Chiang Mai
		VVNB	Ha Noi
		VYYY	Yangon
MACAO, China			
VMMC	MACAO/Macao Intl	VTBS	Bangkok
	RS	VTBD	Bangkok
		ZGGG	Guanzhou

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
		RPLL	Manila
MALAYSIA			
WMKJ	JOHOR BAHRU/Sultan Ismail International	WMKK	Sepang
	RS	WSSS	Singapore
WBKK	KOTA KINABALU/Kota Kinabalu Intl	WBSB	Brunei
	RS	WBGG	Kuching
		RPLL	Manila
WBGG	KUCHING/Kuching International	WBKK	Kota Kinabalu
	RS	WSSS	Singapore
WMKP	PENANG/Penang Intl	VTBS	Bangkok
	RS	WMKK	Sepang
		WSSS	Singapore
WMKL	PULAU LANGKAWI/Pulau Langkawi	WMKP	Penang
	RS	WMKK	Sepang
WMKK	SEPANG/KL Intl	VTBS	Bangkok
	RS	WIII	Jakarta
		WMKP	Penang
		WSSS	Singapore
MALDIVES			
VRMG	GAN/Gan International	VRMM	Male
	AS		
VRMM	MALE/Ibrahim Nasir Intl Airport	VCBI	Colombo
	RS	VOTV	Trivandrum
VRMH	HANIMAADHOO/Hanimaadhoo Intl	VOTV	Trivandrum
	RS		
VRMV	MAAMIGILI/Villa Intl	VRMM	Malé
	RS		
MARSHALL IS.			
PKMJ	MAJURO ATOLL/Marshall I. Intl	PTPN	Pohnpei I.
	RS		
MICRONESIA (FEDERATED STATES OF)			
PTPN	POHNPEI I./Pohnpei Intl	PTKK	Weno I.
	RS	AUUU	Nauru I.
PTKK	WENO I./FM Chuuk Intl	PTPN	Pohnpei I.
	RS		

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
PTYA	YAP I./Yap Intl		
	RS		
MONGOLIA			
ZMUB	ULAANBAATAR/Ulaanbaatar	UIII	Irkutsk
	RS	ZBAA	Beijing
MYANMAR			
VYYY	YANGON/Yangon Intl	VTBS	Bangkok
	RS	VTBD	Bangkok
		VECC	Kolkata
		VTCC	Chiang Mai
		VGEG	Chittagong
		VLVT	Vientiane
		VYMD	Mandalay
NAURU			
AUUU	NAURU I./Nauru I.	PKMJ	Majuro Atoll
	RS	PTPN	Pohnpei I.
		NGTA	Tarawa
NEPAL			
VNKT	KATHMANDU/Kathmandu	VECC	Kolkata
	RS	VIDP	Delhi
		VGHS	Dhaka
		VEPT	Patna
		VIBN	Varanasi
NEW CALEDONIA (France)			
NWWW	NOUMEA/La Tontouta	YBBN	Brisbane
	RS	NFFN	Nadi
		NSTU	Pago Pago
		NVVV	Port-Vila
		YSSY	Sydney
NEW ZEALAND			
NZAA	AUCKLAND/Auckland Intl	NZCH	Christchurch
	RS	NFFN	Nadi
		YSNF	Norfolk I.
		NWWW	Noumea
		YSSY	Sydney
		NZWN	Wellington
NZCH	CHRISTCHURCH/Christchurch Intl	NZAA	Auckland
	RS	NZWN	Wellington
NZWN	WELLINGTON/Wellington Intl	NZAA	Auckland
	RS	NZCH	Christchurch

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
NIUE (New Zealand)			
NIUE	NIUE/ Hanan Intl	NSFA	Faleolo
	RS	NSTU	Pago Pago
NORTHERN MARIANA IS. (United States)			
PGRO	ROTA I/Rota Intl	PGUM	Guam I.
	RS	PGSN	Obyan
PGSN	OBYAN/Saipan Intl	PGUA	Guam I.
	RS	PGUM	Guam I.
PAKISTAN			
OPGD	GWADAR/Gwadar	OPKC	Karachi
	RS		
OPRN	ISLAMABAD/Benazir Bhutto intl	VIDP	Delhi
	RS	OPKC	Karachi
		OPLA	Lahore
		OPPS	Peshawar
		ZWWW	Urumqi
OPKC	KARACHI/Jinnah Intl	VAAH	Ahmedabad
	RS	VABB	Bombay
		VIDP	Delhi
		OPRN	Islamadab
		OPLA	Lahore
		OOMS	Muscat
		OPNH	Nawabshah
		ZWWW	Urumqi
OPLA	LAHORE/Allama Iqbal Intl	VIAR	Amritsar
	RS	VIDP	Delhi
		OPRN	Islamabad
		OPKC	Karachi
		OPPS	Peshawar
OPNH	NAWABSHAH/Nawabshah	OPKC	Karachi
	AS	OPLA	Lahore
OPPS	PESHAWAR/Peshawar	OPRN	Islamabad
	RS	OAKB	Kabul
		OPLA	Lahore
PALAU			
PTRO	BABELTHAUP I./Koror	PGUM	Guam I.
	RS		

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
PAPUA NEW GUINEA			
AYPY	PORT MORESBY/Port Moresby	YBCS	Cairns
	RS	YPDN	Darwin
AYVN	VANIMO/Vanimo	WAJJ	Jayapura
	RS		
PHILIPPINES			
RPMD	DAVAO/Francisco Bangoy Intl	RPMZ	Zamboanga
	RNS		
RPLI	LAOAG/Laoag Intl	RPLL	Manila
	AS		
RPVM	LAPU-LAPU/Mactan Cebu	VHHH	Hong Kong
	RS	RPLL	Manila
RPLL	MANILA/Ninoy Aquino Intl	RPMD	Davao
	RS	RCKH	Gaoxiong
		VHHH	Hong Kong
		RPLI	Laoag
		RPVM	Lapu-Lapu
		VMMC	Macau
		ROAH	Naha
		RPLB	Subic Bay
		RCTP	Taibei City
		RPMZ	Zamboanga
RPLC	PAMPANGA/Diosdado Macapagal Intl	RPLL	Manila
	RNS	RPLI	Laoag
		RPLB	Subic Bay
RPLB	SUBIC BAY/Subic Bay Intl	RPLL	Manila
	RNS	RPMI	Laoag
RPMZ	ZAMBOANGA/Zamboanga Intl	RPMD	Davao
	RNS		
RPMR	GENERAL SANTOS/Tambler Intl		
	RNS		
RPVI	ILOILO/ILOILO Intl		
	RNS		
REPUBLIC OF KOREA			
RKTU	CHEONGJU/Cheongju intl	RKTN	Daegu
	RS	RJFF	Fukuoka
		RKPK	Gimhae
		RKSS	Gimpo

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
		RKSI	Incheon
		RKPC	Jeju
		RKJB	Muan
		RJOO	Osaka
		RKNY	Yangyang
RKTN	DAEGU/Daegu Intl	RKTU	Cheongju
	RS	RKPK	Gimhae
		RKSS	Gimpo
		RKSI	Incheon
		RKPC	Jeju
		RKJB	Muan
		RKNY	Yangyang
RKPK	GIMHAE/Gimhae Intl	RKTU	Cheongju
	RS	RKSI	Incheon
		RKPC	Jeju
		RJFF	Fukuoka
		RKSS	Gimpo
		RKTN	Daegu
		RKNY	Yangyang
		RKJB	Muan
RKSS	GIMPO/Gimpo Intl	RKTU	Cheongju
	RNS	RKSI	Incheon
		RKTN	Daegu
		RKPK	Gimhae
		RKPC	Jeju
		RKNY	Yangyang
		RKJB	Muan
RKSI	INCHEON/Incheon Intl	RKPC	Jeju
	RS	RKPK	Gimhae
		RKSS	Gimpo
		RKTU	Cheongju
		RJAA	Tokyo
		RKTN	Daegu
		RJGG	Nagoya
		RJFF	Fukuoka
		RJOO	Osaka
		RKNY	Yangyang
		RKJB	Muan
RKPC	JEJU/Jeju Intl	RKTU	Cheongju
	RS	RKSI	Incheon
		RJFF	Fukuoka
		RKPK	Gimhae
		RKSS	Gimpo

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
		RKTN	Daegu
		RKNY	Yangyang
		RKJB	Muan
RKNY	YANGYANG/Yangyang Intl	RKSI	Incheon
	RS	RKSS	Gimpo
		RKPC	Jeju
		RKPK	Gimhae
		RKTN	Daegu
		RKJB	Muan
		RKTU	Cheongju
RKJB	MUAN/Muan Intl	RKTU	Cheonglu
	RS	RKTN	Daegu
		RKPK	Gimhae
		RKSS	Gimpo
		RKSI	Incheon
		RKPC	Jeju
		RKNY	Yangyang
SAMOA			
NSFA	Faleolo/Faleolo Intl	NSTU	Pago Pago
	RS	NLWW	Wallis
SINGAPORE			
WSAP	PAYA LEBAR/Paya Lebar (RSAF)	WSSS	Singapore
	AS		
WSSL	SELETAR/Seletar	WMKJ	Johor Bahru
	RS	WSSS	Singapore
WSSS	SINGAPORE/Changi	VTBS	Bangkok
	RS	VTBD	Bangkok
		WBSB	Brunei
		WIHH	Jakarta
		WIII	Jakarta
		WMKJ	Johor Bahru
		WMKK	Sepang
		WIMM	Medan
		WMKP	Penang
		WSAP	Paya Lebar
SOLOMON IS.			
AGGH	HONIARA/Henderson	AYKT	Kieta
	RS	NVVV	Port-Vila
SRI LANKA			
VCBI	COLOMBO/Bandaranaike Intl	VOMM	Chennai

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
	RS	VRMM	Male
		VOTV	Trivandrum
		VCRI	Mattala
VCRI	MATTALA/ Mattala Rajapaksa Intl	VCBI	Colombo
	RS	VOMM	Chennai
		VRMM	Male
		VOTV	Trivandrum
THAILAND			
VTBD	BANGKOK/Don Mueang Intl	VTBS	Bangkok
	RS	VTCC	Chiang Mai
		VHHH	Hong Kong
		WMKK	Sepang
		VMMC	Macao
		WMKP	Penang
		VTSP	Phuket
		VTBU	U-Taphao
		WSSS	Singapore
		VTSS	Hat Yai
		VYYY	Yangon
		VECC	Kolkata
VTBS	BANGKOK/ Suvarnabhumi Intl	VTBD	Bangkok
	RS	VTCC	Chiang Mai
		VHHH	Hong Kong
		WMKK	Sepang
		VMMC	Macao
		WMKP	Penang
		VTSP	Phuket
		VTBU	U-Taphao
		WSSS	Singapore
		VTSS	Hat Yai
		VYYY	Yangon
		VECC	Kolkata
VTCC	CHIANG MAI/Chiang Mai Intl	VTBS	Bangkok
	RS	VTBD	Bangkok
		VLVT	Vientiane
		VYYY	Yangon
VTCT	CHIANG RAI/Chiang Rai Intl	VTBS	Bangkok
	RS	VTBD	Bangkok
		VTCC	Chiang Mai
VTUK	KHON KAEN/Khon Kaen	VTPP	Phitsanulok
	RS	VTUD	Udon Thani

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
VTSG	KRABI/ Krabi	VTSP	Phuket
	RS	VTSS	Hat Yai
VTPP	PHITSANULOK/Phitsanulok	VTUK	Khon Kaen
	RS	VTCC	Chiang Mai
VTSP	PHUKET/Phuket Intl	VTBS	Bangkok
	RS	VTBD	Bangkok
		WMKP	Penang
		VTSS	Hat Yai
VTBU	RAYONG/U-Taphao Intl	VTBS	Bangkok
	RS	VTBD	Bangkok
VTSS	SONGKHLA/Hat Yai Intl	VTBS	Bangkok
	RS	VTBD	Bangkok
		WMKK	Sepang
		WMKP	Penang
		VTSP	Phuket
		VTBU	U-Taphao
VTSB	SURAT THANI/Surat Thani	VTSP	Phuket
	RS	VTSS	Hat Yai
VTUU	UBONRATCHATHANI/Ubon		
	Ratchathani		
	RS		
TONGA			
NFTF	FUA'AMOTU/Fua'amotu Intl	NIUE	Niue
	RS	NFSU	Suva
NFTV	VAVA'U/Vava'u	NFTF	Fua'amotu
	RS		
TUVALU			
NGFU	FUNAFUTI/Funafuti Intl	NLWW	Wallis
	RS		
UNITED STATES[1]			
PANC	ANCHORAGE/Anchorage Intl	PAED	Anchorage
	RS	PACD	Cold Bay
		CYEG	Edmonton
		PAFA	Fairbanks
		PAKN	King Salmon
PAED	ANCHORAGE/Elemendorf AFB	PANC	Anchorage
	AS	PAFA	Fairbanks

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
PACD	COLD BAY/Cold Bay	PANC	Anchorage
	AS	PAFA	Fairbanks
KPAE	EVERETT/Snohomish County-Paine Field	KSEA	Seattle
	AS		
PAEI	FAIRBANKS/Eielson AFB	PAFA	Fairbanks
	AS		
PAFA	FAIRBANKS/Fairbanks Intl	PAED	Anchorage
	RS	PANC	Anchorage
		PACD	Cold Bay
		PAEI	Fairbanks
		PAKN	King Salmon
KFAT	FRESNO/Fresno Air Terminal	KLAX	Los Angeles
	AS	KSFO	San Francisco
PHTO	HILO/Hilo Intl	PHNL	Honolulu
	AS		
PHNL	HONOLULU/Oahu Intl	PHTO	Hilo
	RS	PHOG	Kahului
PHOG	KAHULUI/Kahului	PHNL	Honolulu
	AS		
PAKN	KING SALMON/King Salmon	PANC	Anchorage
	AS	PAFA	Fairbanks
KLAX	LOS ANGELES/Los Angeles Intl	KFAT	Fresno
	RS	KLAS	Las Vegas
		KOAK	Oakland
		KONT	Ontario
		KPMD	Palmdale
		KSAN	San Diego
		KSFO	San Francisco
		KSCK	Stockton
KOAK	OAKLAND/Metropolitan Oakland	KLAX	Los Angeles
	AS	KSFO	San Francisco
KONT	ONTARIO/Ontario Intl	KLAX	Los Angeles
	AS	KSFO	San Francisco
KPMD	PALMDALE/Palmdale P.F.T.I.	KLAX	Los Angeles

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
	AS	KSFO	San Francisco
KPDX	PORTLAND/Portland Intl	KSEA	Seattle
	AS		
KSMF	SACRAMENTO/Metropolitan	KSFO	San Francisco
	AS		
KSAN	SAN DIEGO/San Diego (AFSS)	KLAX	Los Angeles
	AS		
KSFO	SAN FRANCISCO/San Francisco Intl	KFAT	Fresno
	RS	KLAS	Las Vegas
		KLAX	Los Angeles
		KOAK	Oakland
		KONT	Ontario
		KPMD	Palmdale
		KSMF	Sacramento
		KSCK	Stockton
KSJC	SAN JOSE/San Jose Intl	KOAK	Oakland
	RS		
KBFI	SEATTLE BOEING FIELD/King County Intl	KSEA	Seattle
	AS		
KSEA	SEATTLE/Seattle-Tacoma Intl	KLAX	Los Angeles
	RS	KPDX	Portland
		KSFO	San Francisco
		KBFI	Seattle Boeing Field
		KGEG	Spokane
		CYVR	Vancouver
KGEG	SPOKANE/Spokane Intl	KSEA	Seattle
	AS		
KSCK	STOCKTON/Metropolitan	KLAX	Los Angeles
	AS	KSFO	San Francisco
KIAD	WASHINGTON/Dulles Intl	KBWI	Baltimore
	RS	KBOS	Boston
		CYUL	Montreal
		CYMX	Montreal
		KJFK	New York
		KPHL	Philadelphia
		KPIT	Pittsburgh
		KBDL	Windsor Locks

City/Aerodrome/Designation		Alternate aerodromes	
1		2	
VANUATU			
NVVV	PORT-VILA/Bauerfield	NWWW	Noumea
	RS	NVSS	Santo
NVSS	SANTO/Pekoa	NVVV	Port-Vila
	RS		
VIET NAM			
VVCR	KHANH HOA/Cam Ranh	VVTS	Tan Son Nhat
	RS	VVDN	Da Nang
VVCT	CAN THO/Can Tho	VVTS	Tan Son Nhat
	RS	VVPQ	Phu Quoc
VVDN	DA NANG/Da Nang	VVNB	Ha Noi
	RS	VVTS	Ho Chi Minh
		VVPB	Phu Bai
		VDPP	Phnom Penh
VVNB	HA NOI/Noi Bai	VTBS	Bangkok
	RS	VTBD	Bangkok
		VVDN	Da Nang
		VVTS	Ho Chi Minh
		VHHH	Hong Kong
		VLVT	Vientiane
VVTS	HO CHI MINH/Tan Son Nhat	VVNB	Noi Bai
	RS	VTBS	Bangkok
		VTBD	Bangkok
		VVDN	Da Nang
		VHHH	Hong Kong
		RPLL	Manila
		VDPP	Phnom Penh
VVPB	HUE/Phu Bai	VVDN	Da Nang
	RS	VVNB	Noi Bai
		VVTS	Tan Son Nhat
VVPQ	KIEN GIANG/Phu Quoc	VVTS	Tan Son Nhat
	RS	VVCT	Can Tho
WALLIS and FUTUNA IS. (France)			
NLWW	WALLIS/Hihifo	NSAP	Apia
	RS	NGFU	Funafuti
		NSTU	Pago Pago

Table AOP II-1 – REQUIREMENTS AND CAPACITY ASSESSMENT

EXPLANATION OF THE TABLE

Note: Columns 3 to 5 for physical characteristics relate to runways and taxiways. The physical characteristics of taxiways and aprons should be compatible with the aerodrome reference code (Column 3) and appropriate for the runways with which they are related.

Column

1 Name of the city and aerodrome, preceded by the location indicator.

Note 1— When the aerodrome is located on an island and no particular city or town is served by the aerodrome, the name of the island is included instead of a city.

Designation of the aerodrome as:
RS — international scheduled air transport, regular use;
RNS — international non-scheduled air transport, regular use;
AS — international scheduled air transport, alternate use; and
ANS — international non-scheduled air transport, alternate use.

2 Required rescue and firefighting service (RFF). The required level of protection expressed by means of an aerodrome RFF category number, in accordance with Annex 14, Volume I, 9.2.

3 Aerodrome reference code (RC). The aerodrome reference code for aerodrome characteristics expressed in accordance with Annex 14, Volume I, chapter 1. The code letter or number within an element selected for design purposes is related to the critical aeroplane characteristics for which the facilities are provided.

4 Runway Designation numbers

5 Type of each of the runways to be provided. The types of runways, as defined in Annex 14, Volume I, Chapter 1, are:
NINST — non-instrument runway;
NPA — non-precision approach runway;
PA1 — precision approach runway, Category I;
PA2 — precision approach runway, Category II;
PA3 — precision approach runway, Category III.

6 Remarks. Additional information including critical design aircraft selected for determining RC, critical aircraft selected for determining the RFF category and critical aircraft for pavement strength. Only one critical aircraft type is shown if it is used to determine all the above three elements: otherwise different critical aircraft types need to be shown for different elements.

City/Aerodrome/Designation	RFF category	Physical characteristics			Remarks
		RC	RWY No.	RWY type	
1	2	3	4	5	6

Table AOP II-1 – REQUIREMENTS AND CAPACITY ASSESSMENT

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
AFGHANISTAN						
OAKB	KABUL/Kabul intl	8	4D	11	NPA	DC 10-30
	RS			29	PAI	
OAKN	KANDAHAR/Kandahar Intl	8	4D	05	NPA	DC10-30
	AS			23	NPA	
AMERICAN SAMOA (United States)						
NSTU	PAGO PAGO/Pago Pago Intl	7	4D	05	PA1	DC8
	RS			23	NINST	
AUSTRALIA						
YPAD	ADELAIDE/Adelaide	8	4E	05	NPA	B747
	RS			23	PA1	
YBAS	ALICE SPRINGS/Alice Springs	7	4E	12	PA1	B747
	AS			30	NPA	
YBBN	BRISBANE/Brisbane	9	4E	01	PA1	B747
	RS			19	PA1	
YBCS	CAIRNS/Cairns	9	4E	15	PA1	B747
	RS			33	NPA	
YPXM	CHRISTMAS I./Christmas I.	4	4C	18	NPA	B727
	RS			36	NPA	
YPCC	COCOS I./Cocos I.	4	4C	15	NPA	B727
	RS			33	NPA	
YPDN	DARWIN/Darwin	8	4E	11	NPA	B747
	RS			29	PA1	
YMHB	HOBART/Hobart	7	4C	12	PA1	B727-200
	RNS			30	NPA	
YMML	MELBOURNE/Melbourne Intl	9	4E	16	PA1	B 747
	RS			34	NPA	
				09	NPA	B747
				27	PA1	
YSNF	NORFOLK I./Norfolk I.	4	4C	11	NPA	B737
	RS			29	NPA	
YPPH	PERTH/Perth Intl	9	4E	06	NPA	B747
	RS			24	PA1	
			4E	03	PA1	B747
				21	PA1	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
YPPD	PORT HEDLAND/Port Hedland	5	4C	14	NPA	B737
	RNS			32	NPA	
YBRK	ROCKHAMPTON/Rockhampton	6	4C	15	NPA	B737
	AS			33	NPA	
YSSY	SYDNEY/Kingsford Smith Intl	9	4E	16	PA1	B747
	RS			34	PA1	
			4E	07	PA1	B747
				25	PA1	
YPTN	TINDAL/Tindal	7	4E	14	PA1	B747
	AS			32	NPA	
YBTL	TOWNSVILLE/Townsville	7	4E	01	PA1	B747-SP
	RNS			19	NPA	
BANGLADESH						
VGEG	CHITTAGONG/Shah Amanat Intl	6	4C	05	NPA	B737-200
	RS			23	NPA	
VGHS	DHAKA/Hazrat Shahjalal Intl	8	4E	14	PA1	B747
	RS			32	NPA	
BHUTAN						
VQPR	PARO/Paro Intl		3C	15	NPA	A319-115
	RS	6		33	NPA	
BRUNEI DARUSSALAM						
WBSB	BRUNEI/Brunei Intl	9	4E	03	NPA	B747
	RS			21	PA1	
CAMBODIA						
VDPP	PHNOM PENH/Phnom Penh	8	4D	05	NPA	DC-10
	RS			23	PA1	
VDSR	SIEM REAP/Siem Reap	8	4D	05	NPA	IL 62
	AS			23	NPA	
CANADA[1]						
CYXX	ABBOTSFORD/Abbotsford	7	4E	07	PA1	B747
	AS			25	NINSX	
CYYC	CALGARY/Calgary Intl	8	4E	16	PA1	B747
	AS			34	PA1	
			4E	10	NPA	
				28	PA1	B747

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
CYQQ	COMOX/Comox	8	4E	11	NPA	B747
	AS			29	NINSX	
CYEG	EDMONTON/Edmonton Intl	8	4E	02	PA1	B747
	RS			20	NPA	
			4E	12	PA1	B747
				30	PA1	
CYVR	VANCOUVER/Vancouver Intl	9	4E	08R	PA2	B747
	RS			26L	PA1	
			4E	08L	PA3	B747
				26R	PA3	
CYYJ	VICTORIA/Victoria Intl	6	4D	09	PA1	DC-68
	RNS			27	PA1	
CHINA						
ZBAA	BEIJING/Capital	9	4E	18R	PA1	B747
	RS			36L	PA1	
			4E	18L	PA1	B747
				36R	PA2	
ZGHA	CHANGSHA/Huanghua	7	4D	18	NPA	MD82
	RS			36	PA1	
ZUUU	CHENGDU/Shuangliu	7	4E	02	PA1	B747
	AS			20	PA1	
ZUCK	CHONGQING/Jiangbei	7	4E	02	PA1	DC10
	RS			20	PA1	
ZYTL	DALIAN/Zhoushuizi	8	4E	10	PA1	B747
	RS			28	PA1	
ZSFZ	FUZHOU/Changle	8	4E	03	PA1	B747
	RS			21	PA1	
RCKH	GAOXIONG/Gaoxiong	9	4E	09L	PA1	B747
	RS			27R	PA1	
ZGGG	GUANGZHOU/Baiyun	9	4E	02R	PA1	B747-400
	RS			20L	PA1	
				02L	PA1	B747-400
				20R	PA1	
ZGKL	GUILIN/Liangjiang	8	4D	01	PA1	B747
	RS			19	PA1	
ZSHC	HANGZHOU/Xiaoshen	7	4D	07	PA1	A300
	RS			25	NPA	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
ZYHB	HARBIN/Taiping	6	4D	05	PA1	A300
	RS			23	PA1	
ZSOF	HEFEI/Luogang	5	4D	14	PA1	B767
	AS			32	NPA	
ZBHH	HOHHOT/Baita	5	4D	08	PA1	B737
	RS			26	NPA	
ZSJN	JINAN/Yaoqiang	6	4D	01	PA1	A300
	RS			19	NPA	
ZWSH	KASHI/Kashi	6	4D	08	NPA	A300
	AS			26	PA1	
ZPPP	KUNMING/Wujiaba	7	4E	03	PA1	B747
	RS			21	PA1	
ZLLL	LANZHOU/Zhongchuan	7	4D	18	NPA	B747
	AS			36	PA1	
ZSNJ	NANJING/Lukou	8	4E	06	PA1	B747
	RS			24	PA1	
ZGNN	NANNING/Wuxu	5	4D	05	PA1	A300
	AS			23	NPA	
ZSQD	QINGDAO/Liuting	5	4D	17	PA1	A300
	RS			35	PA1	
ZJSY	SANYA/Phoenix	8	4E	08	PA1	B747
	RS			26	NPA	
ZSSS	SHANGHAI/Hongqiao	9	4E	18	PA1	B747
	RS			36	PA1	
ZSPD	SHANGHAI/Pudong	9	4E	17	PA1	B747
	RS			35	PA1	
ZYTX	SHENYANG/Taoxian	7	4E	06	PA1	B747
	RS			24	PA1	
ZGSZ	SHENZHEN/Bao'an	7	4E	15	PA1	B747
	RS			33	PA1	
RCSS	TAIBEI/Songshan	9	4E	10	PA1	B747
	AS			28	PA1	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
RCTP	TAIBEI CITY/Taibei Intl	9	4E	05L	PA2	B747
	RS			23R	PA2	
				05R	PA1	B747
				23L	PA1	
				06	PA1	B747
				24	PA1	
ZBYN	TAIYUAN/Wusu	7	4D	13	PA1	A300
	AS			31	PA1	
ZBTJ	TIANJIN/Binhai	7	4D	16	PA1	A300
	RS			34	PA1	
ZWWW	URUMQI/Diwopu	7	4D	07	PA1	A300
	RS			25	PA1	
ZHHH	WUHAN/Tianhe	7	4E	04	PA1	B747
	RNS			22	PA1	
ZSAM	XIAMEN/Gaoqi	7	4E	05	PA1	B767
	RS			23	NPA	
ZLXY	XI'AN/Xianyang	6	4E	05	PA1	A300
	RS			23	PA1	
ZUXC	XICHANG/Qingshan	6	4D	18	NPA	B767
	RNS			36	PA1	
COOK IS.						
NCRG	RAROTONGA/Rarotonga Intl	7	4D	08	NPA	DC 10-30
	RS			26	NPA	
DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA						
ZKPY	SUNAN/Sunan	9	4D	17	NPA	IL 62
	RS			35	PA1	
			4E	01	PA1	B747-400
				19	PA1	
FIJI						
NFFN	NADI/Nadi Intl	8	4E	03	PA1	B747
	RS			21	NINST	
				09	NINST	B737-200
				27	NINST	
NFSU	SUVA/Nausori	5	4C	10	NPA	B737-200
	RS			28	NPA	
FRENCH POLYNESIA (France)						
NTAA	TAHITI/Faaa	9	4E	04	PA1	B747
	RS			22	NPA	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
GUAM (United States)						
PGUA	GUAM I./Andersen AFB	8	4E	06R	PA1	B747
	AS			24L	NPA	
PGUM	GUAM I./Guam Intl	8	4E	06L	PA1	B747
	RS			24R	NPA	
HONG KONG, China						
VHHH	HONG KONG/Hong Kong Intl	10	4F	07R	PA2	A380
	RS			25L	PA2	
				07L	PA2	A380
				25R	PA3	
INDIA						
VAAH	AHMEDABAD/Sardar VallabhBhai Patel International Airport	9	4E	05	NPA	B747-400
	RS			23	PA1	
VIAR	AMRITSAR/Amritsar Airport	9	4E	16	NPA	B747-400
	RS			34	PA1	
VOBL	BANGALORE/Bangalore International Airport	9	4E	09	PAI	B747-400
	RS			27	PAI	
VOCL	CALICUT/Calicut Airport		4D	10	NPA	A300-600
	RS	8		28	PAI	
VOMM	CHENNAI/Chennai Airport		4E	07	PA1	B747-400
	RS	9		25	PAI	
			4C	12	NPA	A320-200
				30	NPA	
VOCB	COIMBATORE/Coimbatore Airport	7	4C	05	NPA	A321
	RS			23	PAI	
VOCI	COCHIN/Cochin Airport	9	4E	09	NPA	B747-400
	RS			27	PAI	
VIDP	DELHI/Indira Gandhi Intl Airport	9	4E	10	PAI	B747-400
	RS			28	PA3	
			4E	09	NPA	B747-400
				27	PAI	
			4E	11	PA3	B747-400
				29	PA3	
VEGY	GAYA/ Gaya Airport	6	4C	10	NPA	A320-200
	RS			28	PAI	
VEGT	GUWAHATI/Lokpriya Gopinath Bordolai International Airport	7	4D	02	PAI	A300-600
	RS			20	NPA	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
VOHS	HYDERABAD/Rajiv Gandhi International Airport	9	4F	09	PAI	B747-400
	RS			27	PAI	
VIJP	JAIPUR/Jaipur Airport	7	4D	09	NPA	A300-600
	RS			27	PAI	
VECC	KOLKATA/Netaji Subhash Chandra Bose International Airport	9	4E	01R	PAI	B747-400
	RS			19L	PA2	
			4E	01L	NPA	B747-400
				19R	NPA	
VILK	LUCKNOW/ Chaudhry Charan singh Airport	7	4D	09	NPA	B767-400
	RS			27	PAI	
VOML	MANGALORE/ Mangalore Airport	7	4D	06	NPA	A310-300
	RS			24	PAI	
VABB	MUMBAI/Chatrapati Shivaji International Airport	9	4E	09	PAI	B747-400
	RS			27	PA1	
			4E	14	PAI	B747-400
				32	NPA	
VANP	NAGPUR/Dr Ambedkar Airport	8	4E	14	NPA	B747-400
	RS			32	PA1	
VEPT	PATNA/Patna Airport	7	4C	07	NPA	A320-200
	RS			25	PAI	
VOTR	TIRUCHCHIRAPPALLI/Tiruchchirappalli Airport	7	4C	09	NPA	A320-200
	RS			27	PAI	
VOTV	THIRUVANANTHAPURAM/ Thiruvananthapuram Airport	9	4E	14	NPA	B747-400
	RS			32	PA1	
VIBN	VARANASI/Lal Bahadur Shastri Airport	6	4C	09	NPA	A320-200
	RS			27	PAI	
INDONESIA						
WAPP	AMBON/Pattimura	7	4C	04	PA1	B737
	RNS			22	NINST	
WADD	BALI/Ngurah Rai	9	4E	09	NPA	B747
	RS			27	PA1	
WALL	BALIKPAPAN/Sepinggan	7	4D	07	NPA	B767
	RS			25	PA1	
WAOO	BANJARMASIN/Syamsudin Noor	7	4C	10	PA1	B737
	AS			28	NINST	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
WIDD	BATAM/Hang Nadim	9	4E	04	PA1	B747
	RS			22	NPA	
WABB	BIAK/Frans Kaisiepo	7	4E	11	PA1	B747
	RS			29	NINST	
WIHH	JAKARTA/HalimPerdana Kusuma	9	4E	06	NPA	B747
	RNS			24	PA1	
WIII	JAKARTA/Soekarno Hatta	9	4E	07L	PA1	B747
	RS			25R	PA1	
			4E	07R	PA1	B747
				25L	PA1	
WAJJ	JAYAPURA/Sentani	7	4C	12	NINST	B737
	RS			30	PA1	
WATT	KUPANG/El Tari	6	4D	07	NPA	B767
	RS			25	NPA	
WAMM	MANADO/Sam Ratulangi	7	4E	18	PA1	A330
	RS			36	PA1	
WIMM	MEDAN/Kualanamu	9	4F	05	PA1	A380
	RS			23	PA1	
WAKK	MERAUKE/Mopah	6	4C	16	NPA	B737
	RNS			34	NINST	
WIPT	PADANG/Minangkabau	9	4E	15	NPA	A330
	RS			33	PA1	
WIPP	PALEMBANG/Sultan Mahmud Badaruddin II	7	4D	11	NPA	B767
	RS			29	PA1	
WIBB	PEKANBARU/Sultan Syarif Kasim II	7	4C	18	NPA	B737
	RS			36	PA1	
WIOO	PONTIANAK/Supadio	7	4C	15	PA1	B737
	RS			33	NPA	
WARR	SURABAYA/Juanda	8	4E	10	PA1	B747
	RS			28	NPA	
WIDN	TANJUNG PINANG/Raja Haji Fisabilillah	6	4C	04	NPA	B737
	RNS			22	NINST	
WALR	TARAKAN/Juwata	7	4C	06	PA1	B737
	RNS			24	NINST	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
WAAA	MAKASSAR/Sultan Hasanuddin	8	4E	13	PA1	B777
	RS			31	NPA	
				03	PA1	B777
				21	PA1	
JAPAN						
RJFF	FUKUOKA/Fukuoka	9	4E	16	PA1	B747-200
	RS			34	PA1	
RJCH	HAKODATE/Hakodate	9	4E	12	PA1	B747-400
	RS			30	NPA	
RJOA	HIROSHIMA/Hiroshima	9	4E	10	PA3	B747-400
	RS			28	NPA	
RJFK	KAGOSHIMA/Kagoshima	9	4E	16	NPA	B747-400
	RS			34	PA1	
RJBB	KANSAI/Kansai Intl	10	4E	06R	PA2	B747-400
	RS			24L	PA2	
			4F	06L	PA2	A380
				24R	PA2	
RJFT	KUMAMOTO/Kumamoto	9	4E	07	PA3	B747-200
	RS			25	NPA	
RJFU	NAGASAKI/Nagasaki	9	4E	14	NPA	B747-400
	RS			32	PA1	
RJGG	NAGOYA/Chubu Centrair Intl.	9	4F	18	PA2	A380
	RS			36	PA2	
ROAH	NAHA/Naha	9	4E	18	NPA	B747-400
	RS			36	PA1	
RJSN	NIIGATA/Niigata	9	4E	10	NPA	B747-200
	RS			28	PA1	
RJFO	OITA/Oita	8	4E	01	PA1	B747-400
	RS			19	NPA	
RJOB	OKAYAMA/Okayama	9	4E	07	PA1	B747-400
	RS			25	NPA	
RJOO	OSAKA/Osaka Intl	9	4E	14R	NPA	B747-400
	AS			32L	PA1	
RJCC	SAPPORO/New Chitose	9	4E	01L	PA1	B747-400
	RS			19R	PA3	
				01R	PA1	B747-400
				19L	NPA	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
RJSS	SENDAI/Sendai	9	4E	09	NPA	B747-400
	RS			27	PA1	
RJOT	TAKAMATSU/Takamatsu	9	4E	08	NPA	B747-400
	RS			26	PA1	
RJAA	TOKYO/Narita Intl	10	4E	16R	PA3	A380
	RS		4F	34L	PA1	
			4E	16L	PA1	B777-300
				34R	PA1	
RJTT	TOKYO/Tokyo Intl	10	4E	16L	NPA	B747-400
	RS			34R	PA2	
			4E	04	NPA	B747-400
				22	PA1	
			4E	16R	NPA	B747-400
				34L	PA1	
			4E	05	NPA	B777-300
				23	PA1	
JOHNSTON I. (United States)						
PJON	JOHNSTON ATOLL/Johnston I	7	4C	05	NPA	B727
	RS			23	NPA	
KIRIBATI						
PLCH	KIRITIMATI I./Christmas I.	6	4C	08	NPA	B727
	RS			26	NPA	
NGTA	TARAWA/Bonriki Intl	6	4C	09	NPA	B727-100
	RS			27	NPA	
LAO PEOPLE'S DEMOCRATIC REPUBLIC						
VLVT	VIENTIANE/Wattay	8	4D	14	PA1	EA 30
	RS			32	NPA	
MACAO, CHINA						
VMMC	MACAO/Macao Intl	9	4E	16	NPA	B747-400
	RS			34	PA2	
MALAYSIA						
WMKJ	JOHOR BAHRU/Sultan Ismail International	9	4E	16	PA1	B747
	RS			34	NPA	
WBKK	KOTA KINABALU/Kota Kinabalu Intl	9	4E	02	PA1	B747
	RS			20	PA1	
WBGG	KUCHING/Kuching International	9	4E	07	NPA	B747
	RS			25	PA1	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
WMKP	PENANG/Penang Intl	9	4E	04	PA1	B747
	RS			22	NPA	
WMKL	PULAU LANGKAWI/Pulau Langkawi	8	4E	03	PA1	B747
	RS			21		
WMKK	SEPANG/KL Intl	10	4F	14L	PA1	A380
	RS			32R	PA1	
				14R	PA1	A380
				32L	PA1	
MALDIVES						
VRMG	GAN/Gan International	8	4D	10	NPA	B767
	AS			28	NPA	
VRMM	MALE/Ibrahim Nasir Intl Airport	9	4E	18	NPA	B747
	RS			36	PA1	
VRMH	HANIMAADHOO/Hanimaadhoo Intl	4	2C	03	NPA	DHC8
	RS			21	NPA	
VRMV	MAAMIGILI/Villa Intl	5	3C	09	NPA	ATR72
	RS			27	NPA	
MARSHALL IS.						
PKMJ	MAJURO ATOLL/Marshall I. Intl	6	4C	07	NPA	B727-100
	RS			25	NPA	
MICRONESIA (FEDERATED STATES OF)						
PTPN	POHNPEI I./Pohnpei Intl	6	4C	09	NPA	B727-100
	RS			27	NPA	
PTKK	WENO I./FM Chuuk Intl	6	4C	04	NINST	B727-100
	RS			22	NINST	
PTYA	YAP I./Yap Intl	6	4C	07	NPA	B727-100
	RS			25	NPA	
MONGOLIA						
ZMUB	ULAANBAATAR/Ulaanbaatar	7	4D	14	PA1	B767-300
	RS			32	NPA	
MYANMAR						
VYYY	YANGON/Yangon Intl	8	E	03	NPA	B747
	RS			21	PA1	
NAURU						
AUUU	NAURU I./Nauru I.	6	4C	12	NPA	B727-100
	RS			30	NPA	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
NEPAL						
VNKT	KATHMANDU/Kathmandu	7	4D	02	NPA	EA30
	RS			20	NINST	
NEW CALEDONIA (France)						
NWWW	NOUMEA/La Tontouta	8	4E	11	PA1	A330-200
	RS			29	NPA	
NEW ZEALAND						
NZAA	AUCKLAND/Auckland Intl	9	4E	05	PA1	B747
	RS			23	PA1	
NZCH	CHRISTCHURCH/Christchurch Intl	9	4E	02	PA1	B747
	RS			20	PA1	
NZWN	WELLINGTON/Wellington Intl	9	4E	16	NPA	B747 SP
	RS			34	NPA	
NIUE (New Zealand)						
NIUE	NIUE/ Hanan Intl	6	4C	10	NPA	B737-200
	RS			28	NINST	
NORTHERN MARIANA IS. (United States)						
PGRO	ROTA I/Rota Intl	5	4C	09	NPA	B737
	RS			27	NPA	
PGSN	OBYAN/Saipan Intl	8	4E	07	PA1	B747
	RS			25	NPA	
PAKISTAN						
OPGD	GWADAR/Gwadar	5	3C	06	NINST	FK27
	RS			24	NINST	
OPRN	ISLAMABAD/Benazir Bhutto intl	9	4E	12	NPA	B747
	RS			30	PA2	
			4C	09	NINST	B737
				27	NINST	
OPKC	KARACHI/Jinnah Intl	9	4E	07L	NPA	B747
	RS			25R	PA2	
			3C	07R	NPA	FK27
				25L	NPA	
OPLA	LAHORE/Allama Iqbal Intl	9	4E	18L	NPA	B747
	RS			36R	PA2	
			4E	18R	NPA	EA 30
				36L	NPA	
OPNH	NAWABSHAH/Nawabshah	8	4E	02	PA1	B747
	AS			20	PA1	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
OPPS	PESHAWAR/Peshawar	7	4D	17	NPA	EA30
	RS			35	NPA	
PALAU						
PTRO	BABELTHAUP I./Koror	6	4C		NPA	B727
	RS				NINST	
PAPUA NEW GUINEA						
AYPY	PORT MORESBY/Port Moresby	7	4E	14L	PA1	B747
	RS			32R	PA1	
AYVN	VANIMO/Vanimo	5	3C	13	NINST	FK27
	RS			31	NINST	
PHILIPPINES						
RPMD	DAVAO/Francisco Bangoy Intl	9	4E	05	PA1	B747-400
	RNS			23	PA1	
RPLI	LAOAG/Laoag Intl	7	4D	01	NPA	A300
	AS			19	NPA	
RPVM	LAPU-LAPU/Mactan Cebu	9	4E	04	PA1	B747-400
	RS			22	PA1	
RPLL	MANILA/Ninoy Aquino Intl	9	4F	06	PA1	B747-400
	RS			24	PA1	
RPLB	SUBIC BAY/Subic Bay Intl	10	4E	07	PA1	MD11
	RNS			25	PA1	
RPMZ	ZAMBOANGA/Zamboanga Intl	8	4D	09	PAI	A300
	RNS			27	NPA	
RPLC	PAMPANGA/Diosdado Macapagal Intl	9	4E	02R	PA1	A747-400
	RNS			20L	PA1	
			4D	02L	PA1	A300
				20R	PA1	
RPMR	GENERAL SANTOS/Tambler Intl	8	4E	17	NPA	A330
	RNS			35	NINST	
RPVI	ILOILO/Iloilo Intl	7	4C	02	NPA	A320
	RNS			20	PA1	
REPUBLIC OF KOREA						
RKTU	CHEONGJU/Cheongju intl	8	4E	06L	NPA	B747-400
	RS			24R	PA1	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
RKTN	DAEGU/Daegu Intl	7	4D	31L	PA1	A 300
	RS			13R	NPA	
RKPK	GIMHAE/Gimhae Intl	9	4E	18L	NPA	B747-400
	RS			36R	PA1	
			4E	18R	NPA	
				36L	PA1	
RKSS	GIMPO/Gimpo Intl	9	4E	14L	PA1	B747-400
	RNS			32R	PA1	
			4E	14R	PA3	B747-400
				32L	PA1	
RKSI	INCHEON/Incheon Intl	10	4F	15R	PA3	A380
	RS			33L	PA3	
			4F	15L	PA3	A380
				33R	PA3	
			4F	16	PA3	A380
				34	PA3	
RKPC	JEJU/Jeju Intl	9	4E	06	PA1	B747-400
	RS			24	PA1	
				13	NPA	B747-400
			4C	31	NPA	
RKNY	YANGYANG/Yangyang Intl	7	4D	33	PA1	A300-600
	RS			15	NPA	
RKJB	MUAN/Muan Intl	7	4E	01	PA1	B747-400
	RS			19	PA1	
SAMOA						
NSFA	Faleolo/Faleolo Intl	8	4D	08	NPA	B767
	RS			26	NINST	
SINGAPORE						
WSAP	PAYA LEBAR/Paya Lebar (RSAF)	9	4E	02	PA1	B747
	AS			20	PA1	
WSSL	SELETAR/Seletar	7	3C	03	NINST	B737
	RS			21	NINST	
WSSS	SINGAPORE/Changi	10	4F	02L	PA2	A380
	RS			20R	PA1	B777-300ER
			4F	02C	PA1	A380
				20C	PA2	B777-300ER
SOLOMON IS.						
AGGH	HONIARA/Henderson	6	4C	06	NINST	B737-200
	RS			24	NPA	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
SRI LANKA						
VCBI	COLOMBO/Bandaranaike Intl	9	4E	04	PA1	B747
	RS			22	PA1	
VCRI	MATTALA/ Mattala Rajapaksa Intl	10	4F	05	NPA	A380
	RS			23	PAI	
THAILAND						
VTBD	BANGKOK/Don Mueang Intl	9	4E	03L	NPA	B747
	RS			21R	PA2	
			4E	03R	NPA	B747
				21L	PA1	
VTBS	BANGKOK/ Suvarnabhumi Intl	10	4F	01L	PA2	A380
	RS			19R	PA2	
			4F	01R	PA2	A380
				19L	PA2	
VTCC	CHIANG MAI/Chiang Mai Intl	9	4E	18	NPA	B747
	RS			36	PA1	
VTCT	CHIANG RAI/Chiang Rai Intl	8	4E	03	PA1	B747
	RS			21	NPA	
VTUK	KHON KAEN/Khon Kaen	6	4C	03	NPA	A300
	RS			21	NPA	
VTSG	KRABI/ Krabi	7	4E	32	PA1	B747
	RS			14	NPA	
VTPP	PHITSANULOK/Phitsanulok	6	4C	14	NPA	A 300
	RS			32	PA1	
VTSP	PHUKET/Phuket Intl	9	4E	09	NPA	B747
	RS			27	PA1	
VTBU	RAYONG/U-Taphao Intl	8	4E	18	PA1	B747
	RS			36	NPA	
VTSS	SONGKHLA/Hat Yai Intl	7	4E	08	NPA	B747
	RS			26	PA1	
VTSB	SURAT THANI/Surat Thani	7	4D	04	NPA	A300
	RS			22	PA1	
VTUU	UBONRATCHATHANI/Ubon Ratchathani	7	4D	05	NPA	EA 30
	RS			23	PA1	
TONGA						
NFTF	FUA'AMOTU/Fua'amotu Intl	6	4C	11	NPA	B737-200
	RS			29	NPA	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
NFTV	VAVA'U/Vava'u	4	2B	08	NINST	CS12
	RS			26	NINST	
TUVALU						
NGFU	FUNAFUTI/Funafuti Intl	4	3C	03	NINST	HS74
	RS			21	NINST	
UNITED STATES[1]						
PANC	ANCHORAGE/Anchorage Intl	9	4E	06R	PA3	B747
	RS			24L	NPA	
			4E	14	NINST	B747
				32	NINST	
PAED	ANCHORAGE/Elemendorf AFB	9	4E	05	PA1	B747
	AS			23	NINST	
PACD	COLD BAY/Cold Bay	7	4D	14	PA1	B757
	AS			32	NPA	
KPAE	EVERETT/Snohomish County-Paine Field	8	4E	16R	PA1	B747
	AS			34L	NINST	
PAEI	FAIRBANKS/Eielson AFB	9	4E	13	PA1	B747
	AS			31	PA1	
PAFA	FAIRBANKS/Fairbanks Intl	8	4E	01L	PA3	B747
	RS			19R	PA1	
KFAT	FRESNO/Fresno Air Terminal	7	4D	11L	NPA	B757
	AS			29R	PA1	
PHTO	HILO/Hilo Intl	8	4E	08	NPA	B747
	AS			26	PA1	
PHNL	HONOLULU/Oahu Intl	9	4E	08L	PA1	B747
	RS			26R	NINST	
			4E	04R	PA1	B747
				22L	NINST	
			4E	08R	NINST	B747
				26L	NPA	
PHOG	KAHULUI/Kahului	8	4D	02	PA1	DC10
	AS			20	NPA	
PAKN	KING SALMON/King Salmon	8	4E	11	PA1	B747
	AS			29	NPA	
KLAX	LOS ANGELES/Los Angeles Intl	9	4E	07R	PA1	B747
	RS			25L	PA2	
			4E	07L	PA1	B747
				25R	PA2	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
			4E	06L	PA1	B747
				24R	PA3	
				06R	PA1	B747
				24L	PA1	
KOAK	OAKLAND/Metropolitan Oakland	9	4E	11	PA1	B747
	AS			29	PA2	
KONT	ONTARIO/Ontario Intl	8	4E	08L	PA1	B747
	AS			26R	PA1	
KPMD	PALMDALE/Palmdale P.F.T.I.	8	4E	07	NINST	B747
	AS			25	PA1	
KPDX	PORTLAND/Portland Intl	9	4E	10R	PA3	B747
	AS			28L	NPA	
			4E	10L	NPA	B747
				28R	PA1	
KSMF	SACRAMENTO/Metropolitan	7	4D	16R	PA2	DC10
	AS			34L	NPA	
KSAN	SAN DIEGO/San Diego (AFSS)	8	4E	09	PA1	B747
	AS			27	NPA	
KSFO	SAN FRANCISCO/San Francisco Intl	9	4E	10R	NINST	B747
	RS			28L	PA1	
			4D	01R	NINST	B747
				19L	PA1	
			4E	10L	NINST	B747
				28R	PA3	
			4E	01L	NINST	B747
				19R	NINST	
KSJC	SAN JOSE/San Jose Intl	7	4D	12R	PA1	DC10
	RS			30L	PA1	
KBFI	SEATTLE BOEING FIELD/King County Intl	8	4E	13R	PA1	B747
	AS			31L	NPA	
KSEA	SEATTLE/Seattle-Tacoma Intl	9	4E	16R	PA3	B747
	RS			34L	PA1	
			4E	16L	NPA	B747
				34R	PA1	
KGEG	SPOKANE/Spokane Intl	7	4E	03	PA1	B747
	AS			21	PA2	
KSCK	STOCKTON/Metropolitan	8	4E	11L	NINST	B747
	AS			29R	PA1	

City/Aerodrome/Designation		RFF category	Physical characteristics			Remarks
			RC	RWY No.	RWY type	Design aircraft
1		2	3	4	5	6
KIAD	WASHINGTON/Dulles Intl	9	4E	01L	NPA	B747
	RS			19R	PA1	
			4D	01R	PA2	B707-300B
				19L	NPA	
VANUATU						
NVVV	PORT-VILA/Bauerfield	6	4C	11	NPA	B737-200
	RS			29	NINST	
NVSS	SANTO/Pekoa	3	2B	12	NPA	SW4
	RS			30	NINST	
VIET NAM						
VVCR	KHANH HOA/Cam Ranh	8	4E	02	NINST	B777-200
	RS			20	NPA	
VVCT	CAN THO/Can Tho	6	4E	06	PA1	B777-200
	RS			24	NPA	
VVDN	DA NANG/Da Nang	9	4E	17L	NINST	B777-200
	RS			35R	PA1	
				17R	NINST	B747-400
				35L	NPA	
VVNB	HA NOI/Noi Bai	9	4E	11L	PA1	B747-400
	RS			29 R	NPA	
			4E	11R	PA2	B747-400
				29L	NPA	
VVTS	HO CHI MINH/Tan Son Nhat	9	4E	07R	NPA	B747-400
	RS			25L	PA1	
			4E	07L	NPA	B747-400
				25R	PA1	
VVPB	HUE/Phu Bai	6	4C	09	NINST	B737-300
	RS			27	PA1	
VVPQ	KIEN GIANG/Phu Quoc	7	4E	10	PA1	B747-400
	RS			28	PA1	
WALLIS and FUTUNA IS. (France)						
NLWW	WALLIS/Hihifo	6	4C	08	NPA	B737
	RS			26	NPA	

Note 1 — Outside ASIA/PAC Indicated for coordination