



International Civil Aviation Organization

The 18th Meeting of the Regional Airspace Safety Monitoring Advisory Group (RASMAG/18)

Bangkok, Thailand, 01 – 04 April 2013

Agenda Item 5: Airspace Safety Monitoring Activities/Requirements in the Asia/Pacific Region

AAMA LTHM BURDEN ESTIMATE UPDATE

(Presented by Australia)

SUMMARY

This paper presents the current monitoring burden for aircraft registered and operated by Australia, Indonesia, the Solomon Islands and Papua New Guinea to meet Annex 6 requirements. A number of the identified aircraft did not meet the Annex 6 requirements by the agreed November 2012 target.

This paper relates to –

Strategic Objectives:

A: *Safety – Enhance global civil aviation safety*

Global Plan Initiatives:

GPI-2 Reduced vertical separation minima

1. INTRODUCTION

1.1 The Long Term Height Monitoring Impact Statement developed by RASMAG was endorsed by APANPIRG/20 in September 2009. That statement included a determination by each of the Asia/Pacific Regional Monitoring Agencies (RMAs) of the anticipated monitoring burden for each State within the region. RASMAG/12 tasked the RMAs to review and update that data and subsequent meetings have seen RMAs report accordingly. The Australian Airspace Monitoring Agency (AAMA) last provided anticipated monitoring burden data at RASMAG/16. This current paper provides an update to that data.

2. DISCUSSION

2.1 The AAMA has previously supplied data on its anticipated monitoring burden following the implementation of long term height monitoring in November 2010. The data was based on a review of the current RVSM approvals data for the State airspaces that the AAMA is responsible for, taking into account completed successful monitoring activity.

2.2 A review of the most recent RVSM approvals databases maintained by the AAMA determined that the total number of RVSM approved aircraft totalled 918 as at March 2013.

2.3 Applying the minimum monitoring requirements (MMR) to the total of approved aircraft results in a total monitoring burden of 276 aircraft. Taking into account the aircraft already successfully monitored, the current outstanding burden is 102 aircraft, comprising 61 Australian registered, 38 Indonesian registered, and 3 Papua New Guinea registered. The AAMA expects that nearly all of the Australian registered aircraft will be monitored by December 2013 when the Australian ADSB mandate becomes effective. Additionally the AAMA is pursuing formal agreement with Indonesia for the provision of ADSB data which will enable the AAMA to utilise ADSB height-keeping monitoring to reduce the extant monitoring burden in the short-term.

2.4 **Attachment 1** provides details of the monitoring burden based on the minimum monitoring requirements.

3. ACTIONS BY THE MEETING

3.1 The meeting is invited to:

- a) review the information provided in the paper and Attachment 1;
- b) use the information to update the current monitoring burden anticipated for the Asia/Pacific RMAs.

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AAMA Monitoring Burden (compiled March 2013)

AUSTRALIA:

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
ANO	CAPITEQ LTD	E170-190	1	3	2	1
IGA	SKYTRADERS PTY LTD	A320	1	2	2	2
	EXPRESS FREIGHTERS AUSTRALIA	B737CL	1	4	2	0
		B767	1	1	1	0
	TATARY PTY LTD	BD700	2	1	1	0
	GAMBAMORA INDUSTRIES PTY LTD	BE30	2	1	1	1
	STATE OF QUEENSLAND	BE30	2	1	1	1
	BUSINESS AVIATION SOLUTIONS PTY LTD	BE40	2	2	2	1
	BOND AIR CHARTERS PTY LTD	C25A	2	1	1	1
	FLIGHT OPTIONS (AUSTRALIA) PTY LTD	C510	2	2	2	2
	M AND G HOSKINS SALES PTY LTD	C510	2	1	1	1
	REVESCO AVIATION PTY LTD	C510	2	1	1	1
	SINGAPORE FLYING COLLEGE PTE LTD	C510	2	4	3	0
	SKYPAC AVIATION PTY LTD	C510	2	1	1	1
	CELIJET AVIATION SOLUTIONS PTY LTD	C525	1	1	1	1
	DICK SMITH ADVENTURE PTY LTD	C525	1	1	1	1
	EDWARDS COACHES PTY LTD	C525	1	1	1	1
	MAXEM AVIATION PTY LTD	C525	1	1	1	1
	PROFESSIONAL JET AVIATION PTY LTD	C525	1	1	1	1
	SOUTHERN AIR SERVICES PTY LTD	C525	1	1	1	1
	EXECUTIVE AIRLINES PTY LTD	C550-552	2	1	1	0
	MACARTHUR JET CHARTER PTY LTD	C550-552	2	1	1	1
	MACHJET INTERNATIONAL PTY LTD	C550-552	2	1	1	1
	MAXEM AVIATION PTY LTD	C550-552	2	1	1	1

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
	PROFESSIONAL JET AVIATION PTY LTD	C550-552	2	2	2	2
	AUSTRALIAN CORPORATE JET CENTRE	C560	1	1	1	0
	FLIGHT OPTIONS (AUSTRALIA) PTY LTD	C560	1	1	1	1
	JET CITY PTY LTD	C560	1	1	1	1
	MAXEM AVIATION PTY LTD	C560	1	1	1	1
	BUSINESS AVIATION SOLUTIONS PTY LTD	C650	1	1	1	0
	INGHAMS ENTERPRISES PTY LTD	C650	1	1	1	1
	LYNDEN AVIATION PTY LTD	C650	1	1	1	1
	SUNDYNE PTY LTD	C650	1	1	1	0
	EXECUTIVE AIRLINES PTY LTD	C680	1	2	2	0
	TWENTIETH SUPER PACE NOMINEES PTY LTD	C680	1	1	1	0
	BUSINESS AVIATION SOLUTIONS PTY LTD	C750	1	1	1	0
	JET CITY PTY LTD	C750	1	1	1	1
	AIR NATIONAL AUSTRALIA PTY LTD	CL600	1	1	1	1
	AVWEST PTY LTD	CL600	1	1	1	0
	BLISSETT HOLDINGS PTY LTD	CL600	1	1	1	1
	CAPE YORK AIRLINES PTY LTD	CL600	1	1	1	1
	EXECUJET AUSTRALIA PTY LTD	CL600	1	2	2	1
	FALLBROOK PTY LTD	CL600	1	1	1	0
	HOLYPEAK PROPRIETARY LTD	CL600	1	1	1	1
	REVESCO AVIATION PTY LTD	CL600	1	1	1	1
	SYDNEY JET CHARTER PTY LTD	CL600	1	1	1	0
	JETGO AUSTRALIA HOLDINGS PTY LTD	E135-145	1	1	1	1
	MARCPLAN CHARTER PTY LTD	E135-145	1	1	1	0
	NETWORK AVIATION PTY LTD	F100	1	10	2	2
	BALMORAL AIR PTY LTD	F2TH	2	1	1	0

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
	RAMSAY AIRCHARTER PTY LTD	F2TH	2	1	1	0
	SYDNEY JET CHARTER PTY LTD	F2TH	2	1	1	0
	LLOYD AVIATION JET CHARTER PTY LTD	F900	1	1	1	0
	TINKLER GROUP AVIATION PTY LTD	F900	1	1	1	0
	PIONEER AUSTRALIA PTY LTD	FA50	2	1	1	1
	MKAIR PTY LTD	FA7X	2	1	1	1
	AVWEST PTY LTD	GLEX	1	1	1	1
	EXECUJET AUSTRALIA PTY LTD	GLEX	1	2	2	0
	GANDEL INVESTMENTS PTY LTD	GLEX	1	1	1	0
	PRATT AVIATION PTY LTD	GLEX	1	2	2	1
	WALKER AIR SERVICES PTY LTD	GLEX	1	1	1	0
	CROWN MELBOURNE LTD	GLF4	1	1	1	0
	EXECUJET AUSTRALIA PTY LTD	GLF4	1	2	2	1
	MARCPLAN CHARTER PTY LTD	GLF4	1	1	1	0
	REVESCO AVIATION PTY LTD	GLF4	1	1	1	1
	CROWN MELBOURNE LTD	GLF5	1	2	2	1
	LITTLE AVIATION PTY LTD	GLF5	1	1	1	1
	PACIFIC FLIGHT SERVICES PTY LTD	GLF5	1	1	1	0
	GOJET PTY LTD	H25B-700	2	1	1	1
	MARCPLAN CHARTER PTY LTD	H25B-800	1	1	1	0
	NANTAY PTY LTD	H25B-800	1	2	2	2
	REMOREX PTY LTD	H25B-800	1	1	1	1
	SHORTSTOP JET CHARTER PTY LTD	H25B-800	1	1	1	0
	STATE OF QUEENSLAND	H25B-800	1	1	1	0
	SUNDOWN PASTORAL CO PTY LTD	H25B-800	1	1	1	0
	SUNSHINE AIR SERVICES PTY LTD	H25B-800	1	1	1	1

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
	SHORTSTOP JET CHARTER PTY LTD	H25C	2	1	1	0
	AIR NATIONAL AUSTRALIA PTY LTD	LJ35-36	2	1	1	0
	JET CITY PTY LTD	LJ35-36	2	3	2	1
	PACIFIC FLIGHT SERVICES PTY LTD	LJ35-36	2	2	2	0
	CAREFLIGHT (QLD) LTD	LJ45	1	2	2	0
	PACIFIC FLIGHT SERVICES PTY LTD	LJ45	1	1	1	0
	SINGAPORE FLYING COLLEGE PTE LTD	LJ45	1	3	2	2
	GOJET PTY LTD	PRM1	1	1	1	0
	SYDNEY JET CHARTER PTY LTD	PRM1	1	1	1	1
JST	JETSTAR AIRWAYS PTY LTD	A320	1	57	2	0
		A330	1	11	2	0
MIL	ROYAL AUSTRALIAN AIR FORCE	A330	1	4	2	0
		B737NX	1	8	2	0
		BE30	2	8	5	0
		C130	2	12	8	0
		C17	1	6	2	2
		CL600	1	3	2	0
NJS	NATIONAL JET SYSTEMS PTY LTD	B712	1	13	2	0
	FMG AIR PTY LTD	GLEX	1	1	1	1
OZW	SKYWEST AIRLINES (AUSTRALIA) PTY LTD	A320	1	1	1	0
		F100	1	10	2	0
QFA	QANTAS AIRWAYS LTD	A330	1	19	2	0
		A380	2	12	8	0
		B737CL	1	12	2	0
		B737NX	1	54	2	0

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
		B744-10	1	13	2	0
		B744-5	1	11	2	0
		B767	1	23	2	0
RON	NAURU AIR CORPORATION	B737CL	1	2	2	1
TGW	TIGER AIRWAYS AUSTRALIA PTY LTD	A320	1	11	2	0
UTY	ALLIANCE AIRLINES PTY LTD	F100	1	18	2	0
		F70	2	2	2	1
VAU	VIRGIN AUSTRALIA INTERNATIONAL AIRLINES PTY LTD	B737NX	1	9	2	0
		B773	1	5	2	0
VOZ	VIRGIN AUSTRALIA AIRLINES PTY LTD	A320	1	1	1	1
		A330	1	5	2	0
		B737NX	1	53	2	0
		E170-190	1	18	2	0
GRAND TOTALS:				521	175	61

INDONESIA:

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
AFE	AIRFAST INDONESIA	B732	2	2	2	0
		E135-145	1	1	1	0
		MD80	1	4	2	0

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
AWQ	INDONESIA AIR ASIA	A320	1	23	2	0
		B737CL	1	6	2	2
BTV	METRO BATAVIA AIRLINES	A320	1	8	2	2
		A330	1	3	2	1
		B737CL	1	27	2	2
CGR	CARDIG AIR	B737CL	1	3	2	1
CTV	CITILINK INDONESIA	A320	1	5	2	0
DAN	DABI AIR NUSANTARA	C560	1	2	2	0
GIA	GARUDA INDONESIA	A320	1	3	2	1
		A330	1	15	2	0
		B737CL	1	26	2	0
		B737NX	1	55	2	0
		B744-10	1	2	2	2
		B744-5	1	1	1	1
		CARJ	1	5	2	2
IGA	EKSPRES TRANSPORTASI ANTARBENUA	E135-145	1	4	2	0
		E55P	2	1	1	0
		BALAI KALIBRASI	H25B-700	2	1	1
JLB	JHONLIN AIR TRANSPORT	H25B-700	2	1	1	0
		H25B-800	1	1	1	0
KLS	KALSTAR AVIATION	B737CL	1	3	2	0
LNI	LION MENTARI AIRLINES	B737CL	1	11	2	0
		B737NX	1	80	2	0
		B744-5	1	2	2	0

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
		H25B-700	2	1	1	0
		H25B-800	1	1	1	0
		MD80	1	1	1	1
		MD90	1	4	2	2
MDL	MANDALA AIRLINES	A320	1	5	2	0
MNA	MERPATI NUSANTARA AIRLINES	B732	2	2	2	2
		B737CL	1	13	2	0
PAS	PELITA AIR SERVICE	F100	1	2	2	2
SJY	SRIWIJAYA AIRLINES	B732	2	13	8	6
		B737CL	1	20	2	0
		B737NX	1	2	2	0
SQS	SUSI AIR	P180	2	3	2	0
TGN	TRIGANA AIR SERVICE	B732	2	3	2	0
		B737CL	1	1	1	1
TMG	TRI-M G AIRLINES	B732	2	3	2	0
TRV	TRAVIRA AIR	B737CL	1	1	1	1
		C560	1	1	1	1
		H25B-800	1	1	1	1
TWA	TRANSWISATA AIRLINE	F100	1	1	1	1
		GLF4	1	1	1	0
		PRM1	1	1	1	1
WON	WINGS ABADI AIRLINES	MD80	1	5	2	2
XAR	TRAVEL EXPRESS AVIATION SERVICES	B732	2	2	2	2
		B737CL	1	5	2	0

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
		B737NX	1	1	1	0
GRAND TOTALS:				388	93	38

PNG:

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
ANG	AIR NIUGINI	B737NX	1	2	2	2
		B767	1	3	2	0
		F100	1	2	2	0
		F900	1	1	1	1
GRAND TOTALS:				8	7	3

SOLOMON ISLANDS:

Operator	Operator Name	Aircraft Monitoring Group (e.g. [A342, A343])	MMR Category (1,2,3)	Total # Approved Airframes	Resultant Monitoring Burden (# Airframes)	Total # of Aircraft Remaining To Be Monitored By 30/11/12
SOL	SOLOMON AIRLINES	A320	1	1	1	0

GRAND TOTALS:

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