



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

MAAR LTHM BURDEN ESTIMATE UPDATE

(Presented by Monitoring Agency for Asia Region)

SUMMARY

This paper presents the estimated monitoring burden for aircraft registered or operated by operators under States within MAAR's responsibility to meet Annex 6 monitoring requirements as of 1 February 2013.

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 At the RASMAG16, RMAs were tasked to present the monitoring burden for the next RASMAG meetings to anticipate monitoring burden for each State within the region. This paper provides an update to data presented at the RASMAG/17.

2. DISCUSSION

2.1 To meet the ICAO Annex 6 Long-Term Height Monitoring (LTHM) Requirements, the MAAR undertakes monitoring programs using an in-flight GPS-based monitoring system and an ADS-B height monitoring system (AHMS) from ADS-B data located in Bangkok, Thailand.

2.2 To track the monitoring burden according to the Annex 6 LTHM requirements and the global Minimum Monitoring Requirements (MMR), the MAAR maintains a database of approvals and height monitoring history for aircraft registered within States under MAAR's responsibility. The height monitoring data derives from the MAAR's applied monitoring systems as well as monitoring data shared by other RMAs.

2.3 The monitoring burden for the 20 States under MAAR's responsibilities is 611 airframes and **Appendix A** provides details of the monitoring burden based on the minimum monitoring requirements.

2.4 As of 1 February 2013, there are 230 airframes remaining to be monitored. MAAR has contacted States to ensure that the operators satisfied the Annex 6 monitoring requirements. Consequently, an increasing number of operators have been contacting MAAR to schedule monitoring following State CAAs directions. To date, 31 airframes are scheduled for monitoring and 10 airframes await their monitoring results. Considering the scheduled monitoring, the number of airframe remaining to be monitored under Annex 6 requirement is 189 airframes.

2.5 **Table 1** contains the remaining monitoring burden by States as of 1 February 2013:

| States | Number of airframes remaining to be monitored | Scheduled/Waiting for Monitoring Result | Remaining after scheduled monitoring |
|------------------------------|--|--|---|
| Afghanistan (OA) | 9 | 6 | 3 |
| Bangladesh (VG) | 12 | 4 | 8 |
| Brunei (WB) | 2 | 0 | 2 |
| Cambodia (VD) | 6 | 0 | 6 |
| Hong Kong, China (VH) | 10 | 0 | 10 |
| India (VA) | 61 | 10 | 51 |
| Laos (VL) | 2 | 0 | 2 |
| Malaysia (WM) | 14 | 0 | 14 |
| Maldives (VR) | 3 | 3 | 0 |
| Myanmar (VY) | 4 | 2 | 2 |
| Nepal (VN) | 2 | 0 | 2 |
| Pakistan (OP) | 16 | 0 | 16 |
| Philippines (RP) | 24 | 6 | 18 |
| Sri Lanka (VC) | 4 | 4 | 0 |
| Taiwan (RC) | 2 | 0 | 2 |
| Thailand (VT) | 52 | 2 | 50 |
| Viet Nam (VV) | 7 | 4 | 3 |
| Grand Total | 230 | 41 | 189 |

Table 1: Summary of Monitoring Burden by State as of 1 February 2013

2.6 States in Asia region are requested to provide an annual update of RVSM approvals to RMAs according to APANPIRG Conclusion 20/22. This annual update is necessary for the generation of an accurate monitoring burden.

2.7 In addition, MAAR would like to urge States to submit withdrawal of approvals data (form F3) when available. Not submitting form F3 may cause the estimated number of monitoring burden to be higher than the actual figure.

2.8 **Table 2** contains a summary of RVSM Approval Data submission as an annual update for Period ending 2012.

| States | Status |
|-------------------|--------------|
| Afghanistan | Partial |
| Bangladesh | Not Received |
| Bhutan | Not Received |
| Brunei Darussalam | Received |
| Cambodia | Not Received |
| Hong Kong, China | Received |
| India | Not Received |
| Lao PDR | Not Received |
| Macau, China | Received |
| Malaysia | Not Received |
| Maldives | Not Received |
| Mongolia | Not Received |
| Myanmar | Received |
| Nepal | Not Received |
| Pakistan | Not Received |
| Philippines | Not Received |
| Singapore | Received |
| Sri Lanka | Received |
| Thailand | Not Received |
| Vietnam | Received |

Table 2: Summary of RVSM Approval Data Submission

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Review the information provided in the paper and Appendix A, and
- b) Use the information to update the current monitoring burden anticipated for the Asia/Pacific RMAs.

.....

Appendix A: Estimated RVSM Monitoring Burden for Asia/Pacific Region as a result of Long Term Height Monitoring Requirements of Annex 6

MAAR Monitoring Burden (compiled in March 2013)

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|--|-----------------------|---------------------|--------------------------------------|------------------------------------|--|
| | ARIANA AFGHAN AIRLINES | A310-GE | C1 | 3 | 2 | 2 |
| | KAM AIR | A320 | C1 | 1 | 1 | 1 |
| | | B767 | C1 | 1 | 1 | 1 |
| | | MD80 | C1 | 4 | 2 | 2 |
| | SAFI AIRWAYS | A320 | C1 | 2 | 2 | 0 |
| | | B737CL | C1 | 2 | 2 | 2 |
| | | B752 | C1 | 1 | 1 | 1 |
| | | B767 | C1 | 1 | 1 | 0 |
| | | | | 15 | 12 | 9 |
| | BIMAN BANGLADESH AIRLINES | A310-PW | C1 | 3 | 2 | 0 |
| | | B737NX | C1 | 2 | 2 | 2 |
| | | B773 | C1 | 2 | 2 | 0 |
| | | DC10 | C1 | 4 | 2 | 2 |
| | GMG AIRLINES | MD80 | C1 | 2 | 2 | 2 |
| | UNITED AIRWAYS BANGLADESH | A310-PW | C1 | 2 | 2 | 2 |
| | | MD80 | C1 | 3 | 2 | 2 |
| | YOUNGONE (CEPZ) LMITED | P180 | C2 | 2 | 2 | 1 |
| | ZAINUL HAQUE SIKDER WOMENS MEDICAL COLLEGE & HOSPITAL (PVT) LTD. (DBA): R & R AVIATION | H25B-800 | C1 | 1 | 1 | 1 |
| | | | | 21 | 17 | 12 |
| | ROYAL BRUNEI AIRLINES | A320 | C1 | 5 | 2 | 2 |
| | | B772 | C1 | 4 | 2 | 0 |
| | | | | 9 | 4 | 2 |
| | PROGRESS MULTITRADE CO., LTD | MD80 | C1 | 1 | 1 | 1 |
| | ROYAL KHMER AIRLINES | B732 | C2 | 1 | 1 | 1 |
| | SKYWINGS ASIA AIRLINES | A320 | C1 | 1 | 1 | 1 |
| | | MD80 | C1 | 1 | 1 | 1 |
| | TONLESAP AIRLINES | B752 | C1 | 2 | 2 | 2 |
| | | | | 6 | 6 | 6 |
| | AIR HONG KONG LTD. | A306 | C1 | 8 | 2 | 0 |
| | | B744-10 | C1 | 2 | 2 | 0 |
| | | B744-5 | C1 | 1 | 1 | 0 |
| | CATHAY PACIFIC AIRWAYS LTD. | A330 | C1 | 39 | 2 | 0 |
| | | A340 | C1 | 11 | 2 | 0 |
| | | B744-10 | C1 | 26 | 2 | 0 |
| | | B744-5 | C1 | 8 | 2 | 0 |
| | | B748 | C2 | 8 | 5 | 0 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|---|----------------|--------------|-------------------------------|-----------------------------|---|
| | | B772 | C1 | 5 | 2 | 0 |
| | | B773 | C1 | 42 | 2 | 0 |
| | HONG KONG AIRLINES | A320 | C1 | 9 | 2 | 0 |
| | | A330 | C1 | 16 | 2 | 0 |
| | HONG KONG AIRLINES CORPORATE JET MANAGEMENT LIMITED | GLF5 | C1 | 1 | 1 | 0 |
| | HONG KONG DRAGON AIRLINES | A320 | C1 | 21 | 2 | 0 |
| | | A330 | C1 | 17 | 2 | 0 |
| | | B744-10 | C1 | 1 | 1 | 0 |
| | | B744-5 | C1 | 1 | 1 | 0 |
| | HONG KONG EXPRESS AIRWAYS LTD. | A320 | C1 | 1 | 1 | 0 |
| | | B737NX | C1 | 3 | 2 | 0 |
| | JET AVIATION (HK) LIMITED | GLF5 | C1 | 2 | 2 | 2 |
| | METROJET LTD. | B737NX | C1 | 1 | 1 | 0 |
| | | C680 | C1 | 1 | 1 | 1 |
| | | CL604 | C1 | 2 | 2 | 2 |
| | | GALX | C1 | 2 | 2 | 2 |
| | | GLF4 | C1 | 3 | 2 | 0 |
| | | GLF5 | C1 | 11 | 2 | 0 |
| | TAG AVIATION ASIA LTD. | BD700 | C2 | 5 | 3 | 0 |
| | | CL605 | C1 | 2 | 2 | 1 |
| | | GLEX | C1 | 1 | 1 | 1 |
| | | GLF4 | C1 | 2 | 2 | 1 |
| | | | | 252 | 56 | 10 |
| | ABG RESOURCES PRIVATE LIMITED | H25B-800 | C1 | 1 | 1 | 0 |
| | AIR INDIA | A310-GE | C1 | 16 | 2 | 2 |
| | | A320 | C1 | 74 | 2 | 0 |
| | | A330 | C1 | 2 | 2 | 0 |
| | | B744-10 | C1 | 6 | 2 | 1 |
| | | B744-5 | C1 | 5 | 2 | 2 |
| | | B747CL | C1 | 4 | 2 | 2 |
| | | B772 | C1 | 13 | 2 | 0 |
| | | B773 | C1 | 11 | 2 | 0 |
| | AIR INDIA CHARTERS LTD. | B737NX | C1 | 24 | 2 | 1 |
| | AIR ONE AVIATION PVT | C56X | C1 | 1 | 1 | 0 |
| | | E170-190 | C1 | 1 | 1 | 0 |
| | AIR SAHARA | B737CL | C1 | 5 | 2 | 2 |
| | | B737NX | C1 | 15 | 2 | 2 |
| | | B767 | C1 | 1 | 1 | 1 |
| | | CARJ | C1 | 7 | 2 | 2 |
| | AIRMID AVIATION SERVICES PVT LTD. | C550-B | C2 | 1 | 1 | 0 |
| | | CARJ | C1 | 1 | 1 | 0 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|---|----------------|--------------|-------------------------------|-----------------------------|---|
| | | CL604 | C1 | 1 | 1 | 0 |
| | ALLIANCE AIR | CRJ7 | C1 | 4 | 2 | 0 |
| | AR AIRWAYS PVT LTD. | C550-II | C2 | 3 | 2 | 1 |
| | | C56X | C1 | 1 | 1 | 0 |
| | | CARJ | C1 | 1 | 1 | 0 |
| | ASIA AVIATION LIMITED | C550-II | C2 | 1 | 1 | 1 |
| | | GLF4 | C1 | 1 | 1 | 1 |
| | BAJAJ AUTO LIMITED | BD700 | C2 | 2 | 2 | 0 |
| | BAJAJ AVIATION PRIVATE LIMITED | F2TH | C2 | 1 | 1 | 1 |
| | BHARAT FORGE LTD. | F900 | C1 | 1 | 1 | 0 |
| | BHASKAR EXXOILS PVT LTD | LJ60 | C1 | 1 | 1 | 0 |
| | BHUSHAN AVIATION LIMITED | C560 | C1 | 1 | 1 | 0 |
| | BLUEDART RAMDAS K.P. | B732 | C2 | 1 | 1 | 1 |
| | | B752 | C1 | 5 | 2 | 0 |
| | BORDER SECURITY FORCE | E135-145 | C1 | 1 | 1 | 0 |
| | BUSINESS JETS INDIA PRIVATE LIMITED | C25A | C2 | 1 | 1 | 0 |
| | | H25B-800 | C1 | 3 | 2 | 0 |
| | CIVIL AVIATION DEPARTMENT GOVT OF UTTAR PRADESH | H25B-800 | C1 | 1 | 1 | 0 |
| | COROMANDEL TRAVELS | H25B-800 | C1 | 1 | 1 | 0 |
| | CROMTRON GREAVES LTD | GLF5 | C1 | 1 | 1 | 0 |
| | DECCAN AVIATION LTD. | A310-GE | C1 | 2 | 2 | 2 |
| | | A310-PW | C1 | 1 | 1 | 1 |
| | | A320 | C1 | 12 | 2 | 2 |
| | | A330 | C1 | 1 | 1 | 0 |
| | DECCAN CHRONICLES HOLDING LTD | BE40 | C2 | 1 | 1 | 1 |
| | DLF LTD. | GLF4 | C1 | 1 | 1 | 0 |
| | DOVE AIRLINES PVT LTD. | C25A | C2 | 1 | 1 | 0 |
| | EIH LTD. | H25B-700 | C2 | 1 | 1 | 1 |
| | | H25B-800 | C1 | 1 | 1 | 0 |
| | EMERALD HAVEN AVIATION SERVICES LTD. | PRM1 | C1 | 1 | 1 | 1 |
| | EON AVIATION PVT. LTD. | BD700 | C2 | 1 | 1 | 0 |
| | | CL604 | C1 | 1 | 1 | 0 |
| | ESSAR SHIPPING LTD. | GLF5 | C1 | 1 | 1 | 0 |
| | EUROPEAN PROJECTS AND AVIATION PVT. LTD. | F2TH | C2 | 1 | 1 | 0 |
| | | GALX | C1 | 1 | 1 | 0 |
| | FIRST FUTURE AIR SERVICES PVT LTD | H25B-800 | C1 | 2 | 2 | 1 |
| | FLEX INDUSTRIES LTD. | C56X | C1 | 1 | 1 | 1 |
| | FORCE MOTORS LTD | PRM1 | C1 | 1 | 1 | 0 |
| | FORUM 1 AVIATION PRIVATE LIMITED | H25B-800 | C1 | 2 | 2 | 0 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|--|-----------------------|---------------------|--------------------------------------|------------------------------------|--|
| | FUTURA TRAVELS LTD. | GALX | C1 | 1 | 1 | 0 |
| | | H25B-800 | C1 | 2 | 2 | 1 |
| | GMR AVIATION PVT LTD. | F2TH | C2 | 1 | 1 | 0 |
| | | H25B-700 | C2 | 1 | 1 | 0 |
| | GO AIR PVT LTD. | A320 | C1 | 21 | 2 | 0 |
| | GOLDEN WINGS PVT LTD. | BD100 | C1 | 1 | 1 | 1 |
| | | F2TH | C2 | 1 | 1 | 1 |
| | GOVERNMENT OF MAHARASHTRA | C56X | C1 | 1 | 1 | 0 |
| | GOVERNMENT OF TAMILNADU | C560 | C1 | 1 | 1 | 1 |
| | GRASIM INDUSTRIES LTD. | ASTR-SPX | C2 | 1 | 1 | 0 |
| | GVK LIMITED | F2TH | C2 | 1 | 1 | 0 |
| | HINDALCO INDUSTRIES LIMITED | C25A | C2 | 1 | 1 | 0 |
| | | GLF5 | C1 | 1 | 1 | 0 |
| | HINDUSTAN CONSTRUCTION COMPANY LIMITED | HA4T | C2 | 1 | 1 | 0 |
| | INDIA FLYSAFE AVIATION LIMITED | C25A | C2 | 1 | 1 | 0 |
| | INDIAN AIRLINES | A300 | C1 | 3 | 2 | 2 |
| | | A320 | C1 | 19 | 2 | 2 |
| | INDIGO AIRLINES | A320 | C1 | 60 | 2 | 0 |
| | INTERNATIONAL AIR CHARTER OPERATIONS INDIA PVT LTD | C25A | C2 | 1 | 1 | 0 |
| | INVISION AIR SERVICES PVT. LTD. | E50P | C2 | 2 | 2 | 0 |
| | J. K. LAKSHMI CEMENT LIMITED | P180 | C2 | 1 | 1 | 0 |
| | JAIPRAKASH ASSOCIATES LIMITED | H25B-700 | C2 | 1 | 1 | 0 |
| | JET AIRWAYS | A330 | C1 | 14 | 2 | 0 |
| | | A340 | C1 | 3 | 2 | 1 |
| | | B737CL | C1 | 6 | 2 | 2 |
| | | B737NX | C1 | 75 | 2 | 0 |
| | | B773 | C1 | 6 | 2 | 0 |
| | JETKONNECT | B737NX | C1 | 9 | 2 | 2 |
| | JINDAL STEEL & POWER LIMITED | GLEX | C1 | 1 | 1 | 0 |
| | JSW STEEL LTD. | BD100 | C1 | 1 | 1 | 0 |
| | | C56X | C1 | 1 | 1 | 1 |
| | JUPITER AVIAITON SERVICES PRIVATE LIMITED | BD100 | C1 | 1 | 1 | 0 |
| | JYOTHI AVIATION AND DEVELOPERS LIMITED | E50P | C2 | 1 | 1 | 0 |
| | KALYAN JEWELLERS INDIA PVT. LTD. | E50P | C2 | 1 | 1 | 0 |
| | KARNAVATI AVIATION | CL605 | C1 | 1 | 1 | 0 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|--|-----------------------|---------------------|--------------------------------------|------------------------------------|--|
| | PRIVATE LIMITED | H25B-800 | C1 | 1 | 1 | 0 |
| | KESTREL AVIATION PVT. LTD. | C550-B | C2 | 1 | 1 | 0 |
| | KINGFISHER AIRLINES LTD. | A320 | C1 | 30 | 2 | 0 |
| | | A330 | C1 | 3 | 2 | 0 |
| | KIRLOSKAR OIL ENGINES LTD. | H25B-800 | C1 | 1 | 1 | 1 |
| | KRISHNAPATNAM PORT COMPANY LTD | E135-145 | C1 | 1 | 1 | 0 |
| | L & T AVIATION SERVICES PVT. LTD | H25B-800 | C1 | 2 | 2 | 0 |
| | M/S ABHIJEET PROJECTS LIMITED | CL600 | C1 | 1 | 1 | 0 |
| | M/S ASHLEY AVIATION LTD. | F2TH | C2 | 1 | 1 | 0 |
| | M/S MAHINDRA & MAHINDRA LIMITED | LJ60 | C1 | 1 | 1 | 0 |
| | MANIPAL HEALTH SYSTEMS | BD100 | C1 | 1 | 1 | 1 |
| | MODERN ROAD MAKERS PVT LTD | HA4T | C2 | 1 | 1 | 0 |
| | MONNET ISPAT & ENERGY LIMITED | C56X | C1 | 1 | 1 | 1 |
| | MSPL LTD. | P180 | C2 | 1 | 1 | 0 |
| | ORBIT AVIATION | C25A | C2 | 1 | 1 | 0 |
| | PARAMOUNT AIRWAYS | E170-190 | C1 | 5 | 2 | 2 |
| | PINNACLE AIR PVT LTD. | C25A | C2 | 1 | 1 | 0 |
| | POONAWALLA AVIATION | F900 | C1 | 1 | 1 | 0 |
| | PRIVILEGE AIRWAYS PVT. LTD. MUMBAI | BD100 | C1 | 1 | 1 | 0 |
| | PUNJ LLOYD AVIATION LTD. | GALX | C1 | 1 | 1 | 0 |
| | QUICK FLIGHT LIMITED | LJ45 | C1 | 1 | 1 | 0 |
| | RAINBOW AIR PVT. LTD. | C56X | C1 | 1 | 1 | 1 |
| | RAYMOND LTD. | CL604 | C1 | 1 | 1 | 0 |
| | | H25B-800 | C1 | 1 | 1 | 1 |
| | RELIANCE COMMERCIAL DEALERS LTD. | A320 | C1 | 1 | 1 | 0 |
| | | F900 | C1 | 2 | 2 | 0 |
| | | GLEX | C1 | 2 | 2 | 0 |
| | | H25B-800 | C1 | 1 | 1 | 0 |
| | RELIANCE TRANSPORT & TRAVELS PVT. LTD. | BD700 | C2 | 1 | 1 | 0 |
| | | F2TH | C2 | 1 | 1 | 0 |
| | | GLF4 | C1 | 1 | 1 | 1 |
| | RELIGARE AVIATION LTD | F2TH | C2 | 2 | 2 | 0 |
| | | FA7X | C2 | 1 | 1 | 0 |
| | | H25B-800 | C1 | 1 | 1 | 1 |
| | SIMM SAMM AIRWAYS | PRM1 | C1 | 1 | 1 | 0 |
| | SOBHA PURAVANKARA AVIATION PVT. LTD. | GALX | C1 | 1 | 1 | 0 |
| | SPAN AIR | CARJ | C1 | 1 | 1 | 0 |
| | | H25B-800 | C1 | 1 | 1 | 0 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|-------------------------------------|----------------|--------------|-------------------------------|-----------------------------|---|
| | | PRM1 | C1 | 1 | 1 | 0 |
| | SPENCERS TRAVEL SERVICES | BE40 | C2 | 1 | 1 | 0 |
| | SPICE JET LTD. | B737NX | C1 | 39 | 2 | 0 |
| | SRC AVIATION (P) LTD. | H25B-800 | C1 | 1 | 1 | 0 |
| | SSP AVIATION PRIVATE LIMITED | CL604 | C1 | 1 | 1 | 0 |
| | STEEL AUTHORITY OF INDIA LTD. | H25B-750 | C2 | 1 | 1 | 0 |
| | SUN TV NETWORK LTD. | GLEX | C1 | 1 | 1 | 1 |
| | TAJ AIR PVT LTD. | F2TH | C2 | 3 | 2 | 0 |
| | | P180 | C2 | 1 | 1 | 0 |
| | TANEJA AEROSPACE & AVIATION LTD. | C25A | C2 | 1 | 1 | 0 |
| | TATA IRON & STEEL CO., LTD. | F2TH | C2 | 1 | 1 | 1 |
| | TURBO AVIATION PVT. LTD. | C25A | C2 | 1 | 1 | 1 |
| | | C525 | C1 | 1 | 1 | 1 |
| | TV SUNDRAM IYENGAR AND SONS LIMITED | E50P | C2 | 1 | 1 | 0 |
| | | P180 | C2 | 1 | 1 | 1 |
| | TVS MOTOR COMPANY | C25A | C2 | 1 | 1 | 0 |
| | UNIVERSAL AIRWAYS (P) LTD. | C650 | C1 | 1 | 1 | 0 |
| | UTTAR PRADESH GOVERNMENT | PRM1 | C1 | 1 | 1 | 1 |
| | VEDANTA ALUMINA LTD. | C680 | C1 | 1 | 1 | 1 |
| | VENKATESHWARA HATCHERIES PVT. LTD. | H25B-800 | C1 | 1 | 1 | 0 |
| | VISA AVIATION LIMITED | LJ45 | C1 | 1 | 1 | 0 |
| | VM AVIATION PVT. LTD. | LJ60 | C1 | 1 | 1 | 0 |
| | VRL LOGISTICS LTD. | PRM1 | C1 | 1 | 1 | 0 |
| | WELSPUN LOGISTICS LTD. | BE40 | C2 | 1 | 1 | 0 |
| | | PRM1 | C1 | 1 | 1 | 1 |
| | ZEE ENTERPRISES LIMITED | H25B-800 | C1 | 1 | 1 | 0 |
| | ZEST AVIATION PVT. LTD. | CL600 | C1 | 1 | 1 | 0 |
| | | | | 640 | 199 | 61 |
| | LAO AIRLINES | A320 | C1 | 2 | 2 | 2 |
| | | | | 2 | 2 | 2 |
| | AIR MACAU | A320 | C1 | 15 | 2 | 0 |
| | JET ASIA LTD. | CL600 | C1 | 2 | 2 | 0 |
| | | H25B-750 | C2 | 4 | 3 | 0 |
| | | H25B-800 | C1 | 2 | 2 | 0 |
| | MACAU JET INTERNATIONAL CO., LTD. | F2TH | C2 | 2 | 2 | 0 |
| | | | | 25 | 11 | 0 |
| | AIR ASIA | A320 | C1 | 72 | 2 | 0 |
| | AIR ASIA X | A330 | C1 | 9 | 2 | 0 |
| | | A340 | C1 | 2 | 2 | 1 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|---|----------------|--------------|-------------------------------|-----------------------------|---|
| | BERJAYA AIR SDN. BHD. | BD700 | C2 | 1 | 1 | 0 |
| | CATERHAMJET | GLEX | C1 | 1 | 1 | 1 |
| | DEPARTMENT OF CIVIL AVIATION MALAYSIA | LJ60 | C1 | 2 | 2 | 2 |
| | DYMM TUNKU IBRAHIM ISMAIL IBNI SULTAN ISKANDAR | GLF4 | C1 | 1 | 1 | 1 |
| | FIREFLY | B737CL | C1 | 2 | 2 | 2 |
| | | B737NX | C1 | 1 | 1 | 1 |
| | GENERAL AVIATION | B737CL | C1 | 1 | 1 | 1 |
| | HORNBILL SKYWAYS SDN. BHD. | CL605 | C1 | 1 | 1 | 0 |
| | JET PREMIER ONE (M) SDN BHD | A320 | C1 | 1 | 1 | 0 |
| | MALAYSIA AIRLINES | A330 | C1 | 24 | 2 | 0 |
| | | A380 | C2 | 5 | 3 | 0 |
| | | B727 | C1 | 1 | 1 | 1 |
| | | B737CL | C1 | 30 | 2 | 2 |
| | | B737NX | C1 | 32 | 2 | 0 |
| | | B744-10 | C1 | 11 | 2 | 0 |
| | | B772 | C1 | 17 | 2 | 0 |
| | MALAYSIAN JET SERVICES | GLF4 | C1 | 1 | 1 | 1 |
| | NEPTUNE AIR | B737CL | C1 | 1 | 1 | 1 |
| | TRANSMILE | B727 | C1 | 4 | 2 | 0 |
| | | | | 220 | 35 | 14 |
| | MEGA GLOBAL AIR SERVICES (MALDIVES) PRIVATE LIMITED | B752 | C1 | 1 | 1 | 1 |
| | | B767 | C1 | 2 | 2 | 2 |
| | | | | 3 | 3 | 3 |
| | EZNIS AIRWAYS | AVRO | C1 | 2 | 2 | 0 |
| | | B737NX | C1 | 1 | 1 | 0 |
| | MIAT MONGOLIAN AIRLINES | B737NX | C1 | 2 | 2 | 0 |
| | | B767 | C1 | 2 | 2 | 0 |
| | MONGOLIAN AIRLINES GROUP | A320 | C1 | 2 | 2 | 0 |
| | | | | 9 | 9 | 0 |
| | AIR BAGAN | F100 | C1 | 1 | 1 | 0 |
| | GOLDEN MYANMAR AIRLINES | A320 | C1 | 1 | 1 | 1 |
| | MYANMA AIRWAYS | E170-190 | C1 | 2 | 2 | 2 |
| | MYANMAR AIRWAYS INTERNATIONAL | A320 | C1 | 6 | 2 | 1 |
| | | | | 10 | 6 | 4 |
| | ROYAL NEPAL AIRLINES | B752 | C1 | 2 | 2 | 2 |
| | | | | 2 | 2 | 2 |
| | AIR BLUE | A320 | C1 | 6 | 2 | 2 |
| | GENERAL AVIATION | BE40 | C2 | 2 | 2 | 2 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|---------------------------------|----------------|--------------|-------------------------------|-----------------------------|---|
| | KINGCRETE ASSOCIATES | G150 | C2 | 1 | 1 | 1 |
| | | LJ45 | C1 | 1 | 1 | 1 |
| | | BE40 | C2 | 1 | 1 | 1 |
| | LYNX AVIATION (PVT) LTD. | H25B-800 | C1 | 1 | 1 | 1 |
| | PAKISTAN AIRLINES | A310-GE | C1 | 6 | 2 | 0 |
| | | A310-PW | C1 | 6 | 2 | 0 |
| | | B737CL | C1 | 6 | 2 | 2 |
| | | B747CL | C1 | 6 | 2 | 1 |
| | | B772 | C1 | 6 | 2 | 0 |
| | | B773 | C1 | 3 | 2 | 0 |
| | PRINCELY JETS (PVT) LTD. | C550-B | C2 | 1 | 1 | 1 |
| | | CL600 | C1 | 1 | 1 | 1 |
| | | CL604 | C1 | 1 | 1 | 0 |
| | RAYYAN AIR | B747CL | C1 | 2 | 2 | 1 |
| | SHAHEEN INTERNATIONAL | B732 | C2 | 3 | 2 | 2 |
| | | | | 53 | 27 | 16 |
| | AIR PHILIPPINES | A320 | C1 | 11 | 2 | 0 |
| | | B732 | C2 | 14 | 9 | 9 |
| | AIRASIA PHILIPPINES | A320 | C1 | 2 | 2 | 0 |
| | CEBU PACIFIC AIR | A320 | C1 | 33 | 2 | 0 |
| | CHALLENGER AERO AIR CORPORATION | BD100 | C1 | 1 | 1 | 1 |
| | | F2TH | C2 | 1 | 1 | 1 |
| | | GLEK | C1 | 1 | 1 | 1 |
| | | H25B-800 | C1 | 1 | 1 | 1 |
| | GENERAL AVIATION | H25B-800 | C1 | 1 | 1 | 1 |
| | JET EAGLE | F900 | C1 | 1 | 1 | 0 |
| | LIONAIR INC. | C500 | C2 | 1 | 1 | 1 |
| | | H25B-700 | C2 | 1 | 1 | 1 |
| | | WW24 | C2 | 2 | 2 | 0 |
| | PHILIPPINE AIRLINES INC. | A320 | C1 | 19 | 2 | 0 |
| | | A330 | C1 | 8 | 2 | 0 |
| | | A340 | C1 | 4 | 2 | 0 |
| | | B737CL | C1 | 1 | 1 | 1 |
| | | B744-10 | C1 | 5 | 2 | 0 |
| | | B747CL | C1 | 3 | 2 | 2 |
| | | B773 | C1 | 2 | 2 | 0 |
| | | G150 | C2 | 1 | 1 | 1 |
| | ROYAL STAR AVIATION, INC. | J328 | C1 | 1 | 1 | 0 |
| | SEMIRARA MINING CORPORATION | CL600 | C1 | 1 | 1 | 1 |
| | SOUTH EAST ASIAN AIRLINES | A320 | C1 | 2 | 2 | 0 |
| | SPIRIT OF MANILA AIRLINES INC | MD80 | C1 | 1 | 1 | 1 |
| | SUBIC INTERNATIONAL AIR | LJ45 | C1 | 2 | 2 | 2 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|---|--------------------------------|--------------|-------------------------------|-----------------------------|---|
| | CHARTER INC. | | | | | |
| | ZEST AIRWAYS | A320 | C1 | 9 | 2 | 0 |
| | | | | 129 | 48 | 24 |
| | JETSTAR ASIA AIRWAYS PTE LTD. | A320 | C1 | 21 | 2 | 0 |
| | SCOOT PRIVATE LIMITED | B772 | C1 | 4 | 2 | 0 |
| | SILKAIR (SINGAPORE) PTE LTD. | A320 | C1 | 22 | 2 | 0 |
| | SINGAPORE AIRLINES CARGO | B744-10 | C1 | 13 | 2 | 0 |
| | SINGAPORE AIRLINES LTD. | A330 | C1 | 19 | 2 | 0 |
| | | A345 | C1 | 5 | 2 | 0 |
| | | A380 | C2 | 19 | 12 | 0 |
| | | B772 | C1 | 32 | 2 | 0 |
| | | B773 | C1 | 26 | 2 | 0 |
| | TIGER AIRWAYS | A320 | C1 | 20 | 2 | 0 |
| | | | | 181 | 30 | 0 |
| | MIHIN LANKA | A320 | C1 | 3 | 2 | 2 |
| | SRILANKAN AIRLINES | A320 | C1 | 8 | 2 | 2 |
| | | A330 | C1 | 7 | 2 | 0 |
| | | A340 | C1 | 6 | 2 | 0 |
| | | | | 24 | 8 | 4 |
| | AEROSPACE INDUSTRIAL DEVELOPMENT CORPORATION (AIDC) | ASTR-SPX | C2 | 1 | 1 | 0 |
| | CHINA AIRLINES | A330 | C1 | 22 | 2 | 0 |
| | | A340 | C1 | 6 | 2 | 0 |
| | | B737NX | C1 | 10 | 2 | 0 |
| | | B744-10 | C1 | 34 | 2 | 0 |
| | EVA AIRWAYS CORPORATION | A320 | C1 | 4 | 2 | 0 |
| | | A330 | C1 | 14 | 2 | 0 |
| | | B744-10 | C1 | 15 | 2 | 0 |
| | | B773 | C1 | 15 | 2 | 0 |
| | | MD11 | C1 | 6 | 2 | 0 |
| | | MD90 | C1 | 7 | 2 | 0 |
| | | EXECUTIVE AVIATION TAIWAN CORP | BD700 | C2 | 1 | 0 |
| | BE40 | | C2 | 1 | 1 | 0 |
| | GLEK | | C1 | 1 | 1 | 0 |
| | FAR EASTERN AIR TRANSPORT | MD80 | C1 | 6 | 2 | 0 |
| | MANDARIN AIRLINES | E170-190 | C1 | 8 | 2 | 0 |
| | SUNRISE AIRLINE | BE40 | C2 | 1 | 1 | 0 |
| | TRANSASIA AIRWAYS LTD. | A320 | C1 | 9 | 2 | 0 |
| | | A330 | C1 | 2 | 2 | 0 |
| | UNI AIRWAYS CORPORATION | MD90 | C1 | 4 | 2 | 2 |
| | WIN AIR BUSINESS JET | GLF5 | C1 | 2 | 2 | 0 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|--|--------------------------------------|----------------|--------------|-------------------------------|-----------------------------|---|
| | | | | 169 | 37 | 2 |
| | AC AVIATION | BE40 | C2 | 2 | 2 | 1 |
| | ADVANCE AVIATION JET COMPANY LIMITED | GALX | C1 | 1 | 1 | 1 |
| | BANGKOK AIRWAYS | A320 | C1 | 12 | 2 | 0 |
| | BANGKOK AVIATION CENTER CO.LTD. | C510 | C2 | 2 | 2 | 2 |
| | BUSINESS AIR CENTRE | B767 | C1 | 5 | 2 | 2 |
| | CITY AIRWAYS COMPANY LIMITED | B737CL | C1 | 2 | 2 | 2 |
| | GENERAL AVIATION | C750 | C1 | 1 | 1 | 1 |
| | H.S. AVIATION CO.LTD. | BE40 | C2 | 1 | 1 | 1 |
| | | LJ35-36 | C2 | 1 | 1 | 1 |
| | HRH THE CROWN PRINCE | B737CL | C1 | 1 | 1 | 1 |
| | JET A COMPANY LIMITED | GALX | C1 | 1 | 1 | 1 |
| | JET ASIA AIRWAYS CO., LTD. | B767 | C1 | 4 | 2 | 2 |
| | KANNITHI AVIATION COMPANY LIMITED | PRM1 | C1 | 1 | 1 | 1 |
| | MINOR AVIATION LTD. | C25B | C2 | 1 | 1 | 1 |
| | MJETS LIMITED | C550-B | C2 | 1 | 1 | 1 |
| | | GLF5 | C1 | 1 | 1 | 1 |
| | NOK AIRLINES CO., LTD. | B737CL | C1 | 8 | 2 | 2 |
| | | B737NX | C1 | 10 | 2 | 0 |
| | ORIENT THAI AIRLINE | B737CL | C1 | 4 | 2 | 2 |
| | | B744-10 | C1 | 4 | 2 | 0 |
| | | B744-5 | C1 | 1 | 1 | 1 |
| | | B747CL | C1 | 7 | 2 | 2 |
| | | B767 | C1 | 4 | 2 | 1 |
| | | L101 | C2 | 2 | 2 | 2 |
| | | MD80 | C1 | 8 | 2 | 2 |
| | P.C. AIR COMPANY LIMITED | A310-GE | C1 | 1 | 1 | 1 |
| | PHUKET AIR | B744-10 | C1 | 1 | 1 | 1 |
| | | B744-5 | C1 | 1 | 1 | 1 |
| | | B747CL | C1 | 2 | 2 | 2 |
| | SIAM AIRNET COMPANY LIMITED | C750 | C1 | 1 | 1 | 1 |
| | | F2TH | C2 | 1 | 1 | 0 |
| | SIAM LAND FLYING | B350 | | 1 | 1 | 0 |
| | | H25B-700 | C2 | 1 | 1 | 1 |
| | | H25B-800 | C1 | 1 | 1 | 1 |
| | SKYVIEW AIRWAYS COMPANY LIMITED | B737CL | C1 | 1 | 1 | 1 |
| | SUNNY AIRWAYS | B767 | C1 | 1 | 1 | 1 |
| | THAI AIR ASIA | A320 | C1 | 28 | 2 | 0 |
| | | B737CL | C1 | 1 | 1 | 1 |
| | THAI AIRWAYS | A306 | C1 | 20 | 2 | 2 |

| | Operator Name | Aircraft Group | MMR Category | Total # of Approved Airframes | Resultant monitoring burden | Total # of Aircraft yet to be monitored |
|----------------------------|--------------------------|-----------------------|---------------------|--------------------------------------|------------------------------------|--|
| | INTERNATIONAL LTD. | A310-PW | C1 | 1 | 1 | 1 |
| | | A320 | C1 | 5 | 2 | 0 |
| | | A330 | C1 | 26 | 2 | 0 |
| | | A345 | C1 | 4 | 2 | 0 |
| | | A346 | C1 | 6 | 2 | 0 |
| | | A380 | C2 | 3 | 2 | 0 |
| | | B737CL | C1 | 8 | 2 | 1 |
| | | B744-10 | C1 | 15 | 2 | 0 |
| | | B744-5 | C1 | 3 | 2 | 0 |
| | | B772 | C1 | 14 | 2 | 0 |
| | | B773 | C1 | 13 | 2 | 0 |
| | | NONGROUP | | 2 | 2 | 2 |
| | | THAI FLYING SERVICE | C550-552 | C2 | 1 | 1 |
| | C650 | | C1 | 1 | 1 | 1 |
| | LJ35-36 | | C2 | 1 | 1 | 1 |
| U AIRLINES COMPANY LIMITED | A320 | C1 | 1 | 1 | 1 | |
| | | | | 250 | 83 | 52 |
| | AIR MEKONG | CRJ9 | C1 | 4 | 2 | 2 |
| | HANG KHONG VIETNAM | A320 | C1 | 51 | 2 | 0 |
| | | A330 | C1 | 9 | 2 | 0 |
| | | B772 | C1 | 10 | 2 | 0 |
| | | F70 | C2 | 2 | 2 | 2 |
| | JETSTAR PACIFIC AIRLINES | A320 | C1 | 5 | 2 | 2 |
| | | B737CL | C1 | 4 | 2 | 1 |
| | VIETJET AIR | A320 | C1 | 6 | 2 | 0 |
| | | | | 91 | 16 | 7 |
| | | | | <u>2111</u> | <u>611</u> | <u>230</u> |