



**INTERNATIONAL CIVIL AVIATION ORGANIZATION  
ASIA AND PACIFIC OFFICE**

**CATALOGUE OF FLIGHT INSPECTION UNITS  
ASIA AND PACIFIC REGIONS**

**Ninth Edition – October 2009**

## FOREWORD

The Catalogue of Flight Inspection Units contains information on Units that are currently operating in the ASIA/PAC region. The purpose of this catalogue is to disseminate information to States which do not have their own Flight Inspection Units and are interested in making use of units that have capacity available to conduct flight tests of their radio navigation aids.

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever on the part of ICAO concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

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1. Country and address: **AUSTRALIA**

Flight Inspection Services Control Manager Communications & Navigation  
 GPO Box 367  
 Canberra ACT 2601  
 Australia  
 Tel: +66 (2) 6268 4464  
 Fax: +66 (2) 6268 4099  
 E-mail: [graham.jackson@airservices.gov.au](mailto:graham.jackson@airservices.gov.au)

**Or**

General Manager  
 AeroPearl Pty Ltd  
 P.O. Box 884  
 Hamilton Central Post Office  
 Queensland 4007  
 Australia  
 Tel: +61 (7) 3860 0606  
 Fax: +61 (7) 3216 3164  
 E-mail: [email@aeroparl.com](mailto:email@aeroparl.com)

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour  |                          | Other co-ordinations |
|---------------------------------------|---|---|--------------------------|----------------------|
|                                       |   | Positioning flights   | Check Flights (US\$/hr.) |                      |
| Beech 350                             | 1 | Airservices Australia is prepared to negotiate charge rates having regard for the particular logistical circumstances and the terms of any request. |                          |                      |
| King Air 200                          | 1 |   |                          |                      |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time     |               | Type of flight check system |
|-----------------------|-------------------------|---------------------------------|---------------|-----------------------------|
|                       |                         | Routine                         | Commissioning |                             |
| VOR                   | x                       | 45 min.                         | 6 hr.         | Fully automatic             |
| DME                   | x                       | In conjunction with azimuth aid |               | ''                          |
| ILS CAT I             | x                       | 1.5 hr.                         | 12 hr.        | ''                          |
| ILS CAT II            | x                       | 1.5 hr.                         | 12 hr.        | ''                          |
| ILS CAT III           | x                       | 1.5 hr.                         | 12 hr.        | ''                          |
| PAR                   | x                       | as req.                         | 1.00 hr.      | ''                          |
| SAR                   | x                       | ''                              | 5.30 hr.      | ''                          |
| SRE                   | x                       | ''                              | 7.20          | ''                          |
| NDB/LOC               | x                       | ''                              | 1.0 hr.       | ''                          |
| Marker Beacon         | x                       | Minimal                         |               | ''                          |
| VASIS                 | x                       | .20 hr.                         | 1.30 hr.      | ''                          |
| GBAS                  | x                       | 0.5 hr.                         | 4.0 hr.       | ''                          |
| RNAV/Procedure        | x                       | as req.                         | as req.       | ''                          |
|                       |                         |                                 |               |                             |

4. Language used by flight testing team: English
5. Estimated annual flight time available to assist other Administrations for testing radio navigation aids: Currently 100 hours but could be increased subject to firm commitments from prospective customers.
6. Advance notice: 3 months
7. Other information:
  - 7.1 Flight test results are recorded in chart form with some data stored on dis. Reports available immediately.
  - 7.2 Flight test equipment contains independent spectrum analyzer for in-field checks of testing system, if required.

1. Country and address: **PEOPLE'S REPUBLIC OF CHINA**

Flight Inspection Center of CAAC  
 No. 23, Tianzhu Road, Area A  
 Tianzhu Airport Industry Zone  
 Shunyi District  
 People's Republic of China

Contact: Ms. Zhao Hong  
 Tel: +86 (10) 6454 3497  
 Fax: +86 (10) 6454 3453  
 E-mail: [zhaoh@chinacfi.net](mailto:zhaoh@chinacfi.net)  
[lisa-fic@sohu.com](mailto:lisa-fic@sohu.com)  
 Website: [www.chinacfi.net](http://www.chinacfi.net)

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour |                          | Other co-ordinations |
|---------------------------------------|---|------------------------------|--------------------------|----------------------|
|                                       |   | Positioning flights          | Check Flights (US\$/hr.) |                      |
| King Air B300                         | 3 | Negotiable                   | Negotiable               | Negotiable           |
| Citation VI                           | 1 |                              |                          |                      |
| Citation X                            | 1 |                              |                          |                      |
| Citation XLS                          | 5 |                              |                          |                      |
| Citation S                            | 3 |                              |                          |                      |
| Gulf-Stream VI                        | 1 |                              |                          |                      |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids            | Flight Check Capability | Estimated flight check time |               | Type of flight check system |
|----------------------------------|-------------------------|-----------------------------|---------------|-----------------------------|
|                                  |                         | Routine                     | Commissioning |                             |
| VOR                              | x                       | 3-4 hr.                     | 4-5 hr.       | Automatic                   |
| DME                              | x                       | Note 1                      | Note 1        | "                           |
| MLS                              |                         |                             |               | "                           |
| ILS CAT I                        | x                       | 4-5 hr.                     | 5-6 hr.       | "                           |
| ILS CAT II                       | x                       | 4-5 hr.                     | 5-6 hr.       | "                           |
| ILS CAT III                      | x                       | 4-5 hr.                     | 5-6 hr.       | "                           |
| PAR                              | x                       |                             |               | "                           |
| SSR                              | x                       | Note 2                      | Note 2        | "                           |
| SRE                              | x                       | "                           | "             | "                           |
| NDB/LOC                          | x                       | 1-2 hr.                     | 2-3 hr.       | "                           |
| Marker Beacon                    | x                       | Note 3                      | Note 3        | "                           |
| PAPI                             | x                       | 0.5-1 hr.                   | 1-2 hr.       | "                           |
| VASIS                            | x                       | 0.5-1 hr.                   | 1-2 hr.       | "                           |
| Radio Frequency Interference RFI | x                       |                             |               | "                           |

Note 1: The estimated flight check time of the DME is included in the time of the VOR or other Facility which DME support.

Note 2: The estimated flight check time of the SSR or SRE is depended on the requirement of user.

Note 3: The estimated flight check time of the Marker Beacon is included in the time of the ILS.

4. Language used by flight testing team: Chinese and English
5. Estimated annual flight time available to assist other Administrations for testing radio navigation aids: 600 hr.
6. Advance notice: Base on the agreement
7. Other information: Procedure flight check is provided.
8. Citation X and Gulf-Stream VI can only be used for Radar or flight procedure inspection.

1. Country and address: **INDIA**

Airports Authority of India  
 Executive Director (FIU & RCDU)  
 Flight Inspection Unit  
 Safdajung Airport  
 New Delhi 110003  
 India  
 Tel: +91 (11) 2461 1077  
 Fax: +91 (11) 2461 9701  
 E-mail: [ed\\_rcdu\\_fiu@aai.aero](mailto:ed_rcdu_fiu@aai.aero)

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour |                          | Other co-ordinations |
|---------------------------------------|---|------------------------------|--------------------------|----------------------|
|                                       |   | Positioning flights          | Check Flights (US\$/hr.) |                      |
| King Air B-350                        | 1 | On Demand                    | On Demand                |                      |
| DO-228                                | 2 | On Demand                    | On Demand                |                      |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time *  |                          | Type of flight check system |
|-----------------------|-------------------------|--------------------------------|--------------------------|-----------------------------|
|                       |                         | Routine                        | Commissioning            |                             |
| VOR                   | x                       | 2.00 hr.                       | 8.00 hr.                 | Fully automatic             |
| DME                   | x                       | Along with VOR/ILS             | Along with VOR/ILS       | ''                          |
| ILS CAT I             | x                       | 2.00 hr.                       | 8 hr.                    | ''                          |
| ILS CAT II            | x                       | 2.30 hr.                       | 8 hr.                    | ''                          |
| ILS CAT III           | x                       | 3.00 hr.                       | 10 hr.                   | ''                          |
| PAR                   |                         |                                |                          | ''                          |
| SSR                   | x                       | 4.00 hr.                       | 8.00 hr.                 | ''                          |
| SRE                   | x                       | 3.00 hr.                       | 8.00 hr.                 | ''                          |
| NDB/LOC               | x                       | Along with VOR                 | Along with VOR           | ''                          |
| PAPI                  | x                       | 30 min.                        | 1.00 hr.                 | ''                          |
| VASIS                 | x                       | 0.45 (2 Bars)<br>1.30 (3 Bars) | 1 (2 Bars)<br>2 (3 Bars) | ''                          |

\* Timings shown above are approximate. The time period may vary depending upon the health of the equipment under inspection and the efficiency of the ground maintenance engineers of Nav Aids.

4. Language used by flight testing team: English
5. Estimated annual flight time available to assist other Administrations for testing radio navigation aids: Always available
6. Advance notice: 15 days

7. Other information:

- 7.1 All three aircrafts are fitted with recently acquired state-of-the-art Fully Automatic Flight Inspection System (AD AFIS-200) supplied by M/s AERODATA, Germany.
- 7.2 The Reference Position fixing system is PDGPS and independent fully automatic Laser Tracker based.
- 7.3 Flight Inspection Unit, India is an ISO 9001:2000 certified.
- 7.4 We have in the past rendered flight check assistance to Sri Lanka, Myanmar, Cambodia and Nepal.
- 7.5 The prices can be obtained by contacting Executive Director.
- 7.6 Under UNDP Project RAS/86/153, flight inspection services of Nav aids have been rendered to Bangladesh, Lao PDR, Republic of Maldives, Nepal and Socialist Republic of Viet Nam since 1988.

1. Country and address: **INDONESIA**

Directorate General of Civil Aviation  
 Ministry of Transportation  
 5<sup>th</sup> Floor, Karya Building  
 Jl. Medan Merdeka Barat No. 8  
 Jakarta 10110  
 Indonesia  
 Tel: +62 (21) 3507672, 3505137, 3505133  
 Fax: +62 (21) 350 6662

2. Type(s) and number of flight testing aircraft available, and associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour |                          | Other co-ordinations |
|---------------------------------------|---|------------------------------|--------------------------|----------------------|
|                                       |   | Positioning flights          | Check Flights (US\$/hr.) |                      |
| Turboprop King Air A100               | 2 |                              |                          |                      |
| Turboprop King Air B200C              | 1 |                              |                          |                      |
| Learjet LR 31A                        | 2 |                              |                          |                      |
| Turboprop TBM 700                     | 2 |                              |                          |                      |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time |               | Type of flight check system |
|-----------------------|-------------------------|-----------------------------|---------------|-----------------------------|
|                       |                         | Routine                     | Commissioning |                             |
| VOR                   | x                       | 8-15 hr.                    | 8-15 hr.      |                             |
| DME                   | x                       | 8-15 hr.                    | 8-15 hr.      |                             |
| MLS                   |                         |                             |               |                             |
| ILS CAT I             | x                       | 10-25 hr.                   | 10-25 hr.     |                             |
| ILS CAT II            | x                       | 10-25 hr.                   | 10-25 hr.     |                             |
| PAR                   | x                       |                             |               |                             |
| SSR/PSR               | x                       | 10-25 hr.                   | 10-25 hr.     |                             |
| SRE                   | x                       | 10-25 hr.                   | 10-25 hr.     |                             |
| NDB/LOC               | x                       | 2-3 hr.                     | 2-3 hr.       |                             |
| Marker Beacon         | x                       | 2-3 hr.                     | 2-3 hr.       |                             |
| PAPI                  | x                       | 2-3 hr.                     | 2-3 hr.       |                             |
| VASIS                 | x                       | 2-3 hr.                     | 2-3 hr.       |                             |

4. Language used by flight testing team: Indonesian (flight check)  
 English (flight inspection report)
5. Estimated annual flight time available to assist other Administrations for testing radio navigation aids: None
6. Advance notice: N/A
7. Other information: N/A Estimated flight check time only for good condition of facility.

1. Country and address: **JAPAN**

Ministry of Land, Infrastructure and Transport Japan  
 Civil Aviation Bureau  
 Air Traffic Service Department  
 2-1-3 Kasumigaseki  
 Chiyoda-ku, Japan  
 Japan 100-8918  
 Tel: +81 (3) 5253 8753  
 Fax: +81 (3) 5253 1664

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour |                             | Other co-ordinations |
|---------------------------------------|---|------------------------------|-----------------------------|----------------------|
|                                       |   | Positioning flights          | Check Flights (US\$/hr.)    |                      |
| SAAB200                               | 2 | JY 419,300<br>(US\$ 4,193)   | JY 419,300<br>US\$ 4,193)   |                      |
| DHC-8-315                             | 1 | JY 631,600<br>(US\$ 6,316)   | JY 631, 600<br>(US\$ 6,316) |                      |
| G-IV                                  | 2 | JY 521,500<br>(US\$ 5,215)   | JY 521,500<br>(US\$ 5215)   |                      |
| BD-700                                | 2 | JY 857,600<br>(US\$ 8,576)   | JY 857,600<br>(US\$ 8,576)  |                      |

*Currently the flight time charge to assist other Administration is not established.*

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time |               | Type of flight check system |
|-----------------------|-------------------------|-----------------------------|---------------|-----------------------------|
|                       |                         | Routine                     | Commissioning |                             |
| VOR/TACAN             | x                       | 2.5 hr.                     | 13.5-22.5 hr. | Automatic                   |
| DME                   | x                       | Combined with VOR           |               |                             |
| ILS CAT I             | x                       | 3.0 hr.                     | 30-40 hr.     | Automatic                   |
| ILS CAT II, III       | x                       | 3.0 hr.                     | 45-55 hr.     | ”                           |
| PAR                   | x                       | 1.5 hr.                     | 2.0 hr.       | ”                           |
| SRE (ASR)             | x                       | 3.5 hr.                     | 20-30 hr.     | ”                           |
| NDB/LLC               | x                       | 2.0 hr.                     | 10-20 hr.     | ”                           |
| Marker Beacon         | x                       | #                           | #             | ”                           |
| PAPI                  | x                       | 1.5 hr.                     | 2.0 hr.       | Manual                      |

*# The estimated flight check time of the Marker Beacon is included in the time of ILS.*

4. Language used by flight testing team: Japanese
5. Estimated annual flight time available to assist other Administrations for testing radio navigation aids: negotiable
6. Advance notice: 4 months
7. Other information: Contact person is Chief Flight Inspector, Yuji Osato  
[oosato-y2gd@mlit.go.jp](mailto:oosato-y2gd@mlit.go.jp)

1. Country and address: **MALAYSIA**

Captain Abdul Rahman bin Ali  
 Director, Flight Calibration Unit  
 Department of Civil Aviation Malaysia  
 Level B1, 2 & 3, Block D5, Parcel D  
 Federal Government Administrative Centre  
 62618 Putrajaya, Malaysia  
 Tel: +603 8871 4000  
 Fax: +603 8871 4331  
 E-mail: [bhgkp@streamyx.com](mailto:bhgkp@streamyx.com)

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour |                          | Other co-ordinations  |
|---------------------------------------|---|------------------------------|--------------------------|---|
|                                       |   | Positioning flights          | Check Flights (US\$/hr.) |   |
| Learjet 60                            | 2 | 3,500                        | 3,500                    | Request "aircraft landing and parking charges" to be exempted by local Airport Authority. |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time |               | Type of flight check system |
|-----------------------|-------------------------|-----------------------------|---------------|-----------------------------|
|                       |                         | Routine                     | Commissioning |                             |
| VOR                   | x                       | 1 hr.                       | 5 hr.         |                             |
| DME                   | x                       | 0.5 hr.                     | 1 hr.         |                             |
| MLS                   |                         |                             |               |                             |
| ILS CAT I             | x                       | 1 hr.                       | 7 hr.         |                             |
| ILS CAT II            | x                       | 1 hr.                       | 7 hr.         |                             |
| ILS CAT III           | x                       | 1 hr.                       | 7 hr.         |                             |
| PAR                   | x                       | 0.5 hr.                     | 1 hr.         |                             |
| SSR                   | x                       | 1 hr.                       | 4 hr.         |                             |
| SRE                   | x                       | 1 hr.                       | 4 hr.         |                             |
| NDB/LOC               | x                       | 0.5 hr.                     | 1 hr.         |                             |
| Marker Beacon         | x                       | 0.1 hr.                     | 0.2 hr.       |                             |
| PAPI                  | x                       | 0.5 hr.                     | 2 hr.         |                             |
| VASIS                 |                         |                             |               |                             |

4. Language used by flight testing team: English
5. Estimated annual flight time available to assist other administrations for testing radio navigation aids: 200 hours.
6. Advance notice: One month
7. Other information: Flight calibration agreement with DCA Brunei since 1986.

1. Country and address: **MONGOLIA**

Flight Inspection Unit  
 CAA of Mongolia  
 CAA Buyant-Ukhaa Airport  
 Ulaanbaatar – 34  
 Mongolia

Tel: +976 (11) 282 043

Fax: +976 (11) 379 981

E-mail: [ganbaatar.g@mcaa.gov.mn](mailto:ganbaatar.g@mcaa.gov.mn) [g\\_enebish@mcaa.gov.mn](mailto:g_enebish@mcaa.gov.mn)

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available | Flight Time Charges per hour                           |                          | Other co-ordinations  |
|---------------------------------------|--|--------------------------|---|
|                                       | Positioning flights                                    | Check Flights (US\$/hr.) |   |
|                                       | Rates dependent on location, cost effective deployment |                          | Flight check kits are totally portable, and can be accommodated in a local aircraft for special work if required. |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time |                  | Type of flight check system  |
|-----------------------|-------------------------|-----------------------------|------------------|------------------------------|
|                       |                         | Routine                     | Commissioning    |                              |
| VOR                   | x                       | 4 hr.                       | 8 hr.            | Automatic/<br>Semi-Automatic |
| DME                   | x                       | Combined with VOR or ILS    |                  | ”                            |
| ILS CAT I             | x                       | 6 hr.                       | 12 hr.           | ”                            |
| ILS CAT II            | X                       | 6 hr.                       | 12 hr.           | ”                            |
| NDB/LOC               | x                       | 0.75/per RW Y approach      |                  | ”                            |
| Marker Beacon         | x                       | Minimal with ILS            | Minimal with ILS | ”                            |
| PAPI                  | x                       | 2 hr.                       | 3 hr.            | ”                            |
| GPS/NPA               | x                       | 0.5 Runway                  |                  | ”                            |

4. Language used by flight testing team: English

5. Advanced notice: Base on the agreement

6. Other information:

6.1 Deployable flight inspection system able to be installed in most light aircraft with only minor modifications.

6.2 Flight check can be exempted by certified staff for the lowest price.

6.3 Estimated flight time indicated approximately.

1. Country and address: **MYANMAR**

Lt. Col. Khin Maung Myint  
 Director (Flight Check Division)  
 Department of Civil Aviation  
 Yangon International Airport  
 P.C. 11201, Mingaladon, Yangon  
 Myanmar  
 Tel: +95 (1) 667 800, 665 637  
 Fax: +95 (1) 665 124  
 E-mail: [dca.myanmar@mptmail.net.mm](mailto:dca.myanmar@mptmail.net.mm)

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour |                          | Other co-ordinations |
|---------------------------------------|---|------------------------------|--------------------------|----------------------|
|                                       |   | Positioning flights          | Check Flights (US\$/hr.) |                      |
| PII 227                               | 1 | N/A                          | N/A                      |                      |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time |               | Type of flight check system |
|-----------------------|-------------------------|-----------------------------|---------------|-----------------------------|
|                       |                         | Routine                     | Commissioning |                             |
| VOR                   | x                       | 7 hr.                       | 15 hr.        | PFIS                        |
| DME                   | x                       | 2 hr.                       | 5 hr.         | ”                           |
| MLS                   |                         |                             |               | ”                           |
| ILS CAT I             | x                       | 12 hr.                      | 30 hr.        | ”                           |
| ILS CAT II            | x                       | 15 hr.                      | 30 hr.        | ”                           |
| ILS CAT III           | -                       | -                           | -             | ”                           |
| PAR                   | x                       | 5 hr.                       | 15 hr.        | ”                           |
| SSR                   | x                       | 5 hr.                       | 15 hr.        | ”                           |
| NDB/LOC               | x                       | 3 hr.                       | 5 hr.         | ”                           |
| Marker Beacon         | x                       | 1 hr.                       | 2 hr.         | ”                           |
| PAPI                  | x                       | 2 hr.                       | 5 hr.         | ”                           |
| VASIS                 |                         | 2 hr.                       | 5 hr.         | ”                           |

4. Language used by flight testing team: Burmese and English
5. Estimated annual flight time available to assist other administrations for testing radio navigation aids: None
6. Advance notice: N/A
7. Other information: N/A

1. Country and address: **NEW ZEALAND**

Manager Flight Inspection  
 Airways Corporation of New Zealand Ltd.  
 c/o Control Tower  
 Hawkes Bay Airport  
 Napier  
 New Zealand  
 Tel: +64 (6) 834 0785  
 Fax: +64 (6) 835 7583  
 E-mail: [mel.king@airways.co.nz](mailto:mel.king@airways.co.nz)

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available | Flight Time Charges per hour   |                          | Other co-ordinations   |
|---------------------------------------|--|--------------------------|--|
|                                       | Positioning flights  | Check Flights (US\$/hr.) |  |
| F 406<br>RC690B<br>J31                | Airways Corporation will provide a quote in response to any request. |                          | Note: The Airways flight inspection kit has a multi-unit configuration enabling its accommodation and operation in a variety of fixed wing and rotary wing aircraft cabin sizes. |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time        |   | Type of flight check system |
|-----------------------|-------------------------|------------------------------------|---|-----------------------------|
|                       |                         | Routine                            | Commissioning                               |                             |
| VOR                   | x                       | 1.5 hr. [CVOR]<br>1.2 hr. [DVOR]   | Dependent upon number of routes             | GPS or RTK DGPS referenced  |
| DME                   | x                       | In conjunction with associated aid | Dependent upon number of routes             | GPS or RTK DGPS referenced  |
| ILS Cat I             | x                       | 3 hr.                              | 11 hr.                                      | RTK DGPS referenced         |
| ILS Cat II and III    | x                       | 3 hr.                              | 11 hr.                                      | RTK DGPS referenced         |
| PAR                   | x                       | 0.5 hr. per Runway                 | Dependent upon number of adjustments needed | RTK DGPS referenced         |

| Radio Navigation Aids        | Flight Check Capability | Estimated flight check time                          |  | Type of flight check system                 |
|------------------------------|-------------------------|--|--|---|
|                              |                         | Routine  | Commissioning  |   |
| SSR                          | x                       | Dependent upon nature and extent of checks required. | Dependent upon nature and extent of checks required. | Aircraft transponder<br>GPS position logged |
| PSR                          | x                       | Dependent upon nature and extent of checks required. | Dependent upon nature and extent of checks required. | Aircraft as target GPS position logged      |
| NDB                          | x                       | 0.75 hr. per Runway approach                         | Dependent upon number of routes                      | Aircraft ADF-GPS position logged            |
| Marker Beacon                | x                       | In conjunction with associated aid.                  | 0.5 hr. per Runway                                   | RTK DGPS referenced                         |
| GPS NPA                      | x                       | -  | 0.5 hr. per Runway                                   | RTK DGPS referenced                         |
| VASIS/PAPI                   | x                       | 0.75 hr. per Runway                                  | 1.5 hr. per Runway                                   | RTK DGPS referenced                         |
| Aerodrome Lighting           | x                       | Dependent upon extent of checks required.            | Dependent upon extent of checks required.            | Pilot Visual assessment                     |
| Instrument flight procedures | x                       | Dependent upon nature of procedure.                  | Dependent upon nature of procedure.                  | Pilot assessed – GPS position logged        |
| MLS                          | -                       | -  | -  | Not available                               |

4. Language used by flight testing team: English
5. Estimated annual flight time available to assist other Administrations for testing Nav aids:  
Spare capacity available.
6. Advance notice: One off specials 30 days. Ongoing programme, 3 months.

1. Country and address: **NEW ZEALAND**

Radio Aerospace Limited  
 Level 7, 14 Hartham Place  
 P.O. Box 50243  
 Porirua City 5240  
 New Zealand  
 Tel: +64 (4) 237 1244  
 Fax: +64 (4) 237 1267  
 E-mail: [richardt@radaero.com](mailto:richardt@radaero.com)  
 URL : <http://www.radaero.com>

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |                    | Flight Time Charges per hour  |                          | Other co-ordinations |
|---------------------------------------|--------------------|---|--------------------------|----------------------|
|                                       |                    | Positioning flights   | Check Flights (US\$/hr.) |                      |
| Dicemond 212                          | Malaysia           | Radiola is pleased to asses each project requirement to ensure a cost effective flight inspection solution is provided. |                          |                      |
| Piper Scereca                         | Malaio i Tanzania  |   |                          |                      |
| Piper Aztec                           | Casibbean          |   |                          |                      |
| C90                                   | New Zealand        |   |                          |                      |
| Sceneca                               | New Zealand        |   |                          |                      |
| C172                                  | Fiji               |   |                          |                      |
| Partanavia                            | Fiji               |   |                          |                      |
| B200                                  | Darwin (Australia) |   |                          |                      |
| AN24                                  | Mongolia           |   |                          |                      |
| AN 24/26                              | UAE                |   |                          |                      |
| Commander C90                         | UAE                |   |                          |                      |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time    |               | Type of flight check system |
|-----------------------|-------------------------|--------------------------------|---------------|-----------------------------|
|                       |                         | Routine                        | Commissioning |                             |
| VOR                   | x                       | 1.5 hr.                        | 2.5 hr.       | Full Automatic              |
| DME                   | x                       | With azimuth aid or on request | “             | ”                           |
| ILS CAT I             | x                       | 3.0 hr.                        | 8.0 hr.       | ”                           |
| ILS CAT II            | x                       | 3.0 hr.                        | 8.0 hr.       | ”                           |
| ILS CAT III           | x                       | 4.0 hr.                        | 12.0 hr.      |                             |
| PAR                   | x                       | 1.0 hr.                        | 1.0 hr.       | ”                           |

| Radio Navigation Aids        | Flight Check Capability | Estimated flight check time |               | Type of flight check system          |
|------------------------------|-------------------------|-----------------------------|---------------|--------------------------------------|
|                              |                         | Routine                     | Commissioning |                                      |
| SSR                          | x                       | 2.0 hr.                     | 4.0 hr.       | Calibrated transponder               |
| SRE (ASR)                    | x                       | 2.0 hr.                     | 6.0 hr.       | ”                                    |
| NDB/LOC                      | x                       | 2.0 hr.                     | 4.0 hr.       | Automatic plot and ships instruments |
| Marker Beacon                | x                       | With ILS                    | With ILS      | ”                                    |
| PAPI/VASIS                   | x                       | 1.0 hr.                     | 2.0 hr.       | ”                                    |
| Aerodrome lighting           | x                       | 1.0 hr.                     | 1.0 hr.       | Visual                               |
| TACAN                        | x                       | 1.5 hr.                     | 2.5 hr.       | ”                                    |
| RNAV GPS                     | x                       | 1.5 hr.                     | 1.5 hr.       | Automatic Plot                       |
| Instrument flight procedures | x                       | 1.5 hr.                     | 1.5 hr.       | Automatic Plot                       |
| MLS                          | -                       | -                           | -             | NA                                   |

4. Language used by flight testing team: English
5. Advance notice: Short response time dependent on customer requirements
6. Other information:
  - 6.1 All flight times are subject to variation depending on technical and airspace design considerations.
  - 6.2 Deployable flight inspection system able to be installed in most light aircraft with only minor modifications.
  - 6.3 Military and war zone flight inspection
  - 6.4 Government and Military security clearance

Approvals (some but not all listed)

- New Zealand Civil Aviation Authority
- Approved supplier of flight inspection services to ICAO
- Civil Aviation Authority of Fiji
- British overseas territories under CAR 173
- Many others

1. Country and address: **PAKISTAN**

Flight Inspection Unit  
 Headquarters Civil Aviation Authority  
 Jinnah International Airport  
 Terminal-1, Karachi  
 Pakistan  
 Tel: + 92 (21) 9924-2762; 9924-2763  
 Fax: + 92 (21) 3460-4301  
 E-mail: [k.masood@caapakistan.com.pk](mailto:k.masood@caapakistan.com.pk)  
 URL: [www.caapakistan.com.pk](http://www.caapakistan.com.pk)

2. Type(s) and number of flight testing aircraft available and associated charges and conditions:

| Type of Aircraft & Aircraft Available |    | Flight Time Charges per hour |                          | Other co-ordinations   |
|---------------------------------------|----|------------------------------|--------------------------|--|
|                                       |    | Positioning flights          | Check Flights (US\$/hr.) |  |
| Beech Super King 200                  | 03 | 2,500.-                      | 3,500.-                  | i) Charges for positioning will be from Jinnah Int'l Airport Karachi<br><br>ii) Terms & Conditions will be finalized with mutual agreement. All local taxes, landing, parking, Handling, Navigational & Housing charges will be borne by the contracting State/Agencies or as negotiated.<br><br>iii) Charges are negotiable subject to flight requirement and volume of tasks in hand.<br><br>iv) Special charges will be levied under extra ordinary conditions. |

3. Flight Testing capability and estimated flight time:

| Radio Navigation Aids                | Flight Check Capability | Estimated flight check time |               | Type of flight check system   |
|--------------------------------------|-------------------------|-----------------------------|---------------|---|
|                                      |                         | Routine                     | Commissioning |   |
| VOR/DME                              | x                       | 2.0 hr.                     | 6.0 hr.       | Fully Automatic Flight Inspection Systems of Aerodata Germany having capabilities upto CAT-III ILS using GPS, DGPS, RTK based calibration systems.  |
| TACAN/DME                            | x                       | 1.0-2.0 hr.                 | 4.0 hr.       |   |
| ILS CAT I                            | x                       | 3.5 hr.                     | 10.0-12.0hr.  |   |
| ILS CAT II                           | x                       | 4.5 hr.                     | 12.0-15.0 hr. |   |
| ILS CAT III                          | x                       | 4.5 hr.                     | 12.0-15.0 hr. |   |
| PAR                                  | x                       | 3.0 hr.                     | 6.0 hr.       |   |
| SAR *                                | x                       | 4.0 hr.                     | 8.0-10.0 hr.  |   |
| NDB/LOC                              | x                       | 1.5 hr.                     | 3.0 hr.       |   |
| Marker Beacon                        | x                       | 1.5 hr.                     | 2.0-3.0 hr.   |   |
| PAPI                                 | x                       | 1.5 hr.                     | 2.0-3.0 hr.   |   |
| VASI                                 | x                       | 1.5 hr.                     | 2.0-3.0 hr.   |   |
| GPS Procedures/RNAV/LAAS/WASS        | x                       | 1.5 hr.                     | 2.0-3.0 hr.   |   |
| VHF/UHF Communication                | x                       | -                           | -             |   |
| Instrument Flight Procedure (IFP) ** | x                       | -                           | -             | Calibration & Flight Inspection carried out as per ICAO Annex 8071 & Annex 10 and FAA 82001.<br><br>* Hours for Inspection of SSR/SRE will vary according to ATC requirements.<br><br>** Flying hours as per requirement. |

4. Language used by flight testing team: English
5. Estimated annual flight time available to assist other Administrations for testing radio navigation aids is approximately 300-400 hrs.
6. Advance notice: One month.
7. Other information: PCAA has provided the flight check and calibration services to Bahrain, UAE (Civil & Military Bases), Kuwait, Muscat, Maldives, Bangladesh, Nepal and Sri Lanka etc. for routine / commissioning inspections.
8. Long-term flight inspection and calibration services are offered at special rate, subject to contract agreement.

1. Country and address: **THE PHILIPPINES**

Joseph M. Intal  
 Acting Chief Flight Inspector  
 Flight Inspection and Calibration Group  
 Civil Aviation Authority of the Philippines  
 1300 NAIA Road, Pasay City  
 Metro Manila  
 The Philippines  
 Tel : +63 (2) 852 3013  
 Fax: +63 (3) 852 3013

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour |                          | Other co-ordinations |
|---------------------------------------|---|------------------------------|--------------------------|----------------------|
|                                       |   | Positioning flights          | Check Flights (US\$/hr.) |                      |
| SKA-B200                              | 1 | Negotiable                   | Negotiable               | Negotiable           |
| Cessna 206B                           | 2 | Negotiable                   | Negotiable               | Negotiable           |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time |               | Type of flight check system |
|-----------------------|-------------------------|-----------------------------|---------------|-----------------------------|
|                       |                         | Routine                     | Commissioning |                             |
| VOR                   | x                       | 2 hr.                       | 6 hr.         | Manual                      |
| DME                   | x                       | 1 hr.                       | 2 hr.         | ”                           |
| MLS                   |                         |                             |               | ”                           |
| ILS CAT I             | x                       | 4 hr.                       | 12 hr.        | ”                           |
| ILS CAT II            |                         |                             |               |                             |
| ILS CAT III           |                         |                             |               |                             |
| PSR                   | x                       | 4 hr.                       | 8 hr.         | Manual                      |
| SSR                   | x                       | 4 hr.                       | 12 hr.        | ”                           |
| SRE                   | x                       | 4 hr.                       | 12 hr.        | ”                           |
| NDB/LOC               | x                       | 1 hr.                       | 1             | ”                           |
| MARKER BEACON         | x                       | 1 hr.                       | 1             | ”                           |
| PAPI                  | x                       | 1 hr.                       | 2             | ”                           |
| VASI                  | x                       | 1 hr.                       | 2             | ”                           |

4. Language used by flight testing team: English
5. Estimated annual flight time available to assist other Administrations for testing radio navigation aids: 100H
6. Advance notice: N/A
7. Other information: Flight Check Aircraft (Cessna 206B) also used to ferry equipment and personnel to different airports/facilities during flight checks. SKA-B200 FIS programmed for upgrading to AFIS by 2010 to support full automatic flight inspection procedures.

1. Country and address: **REPUBLIC OF KOREA**

Flight Inspection Center  
 Ministry of Land, Transport and Maritime Affairs  
 Gimpo international airport 244-2 Okoc-dong, Gangseo-gu  
 Seoul 157-260 , Republic of Korea  
 Tel: +82 (2) 2660 2162, 2166  
 Fax: +82 (2) 2662 0881  
 E-mail: [kimhwalove@mltm.go.kr](mailto:kimhwalove@mltm.go.kr) or [kimhwalove@korea.kr](mailto:kimhwalove@korea.kr)

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour |                          | Other co-ordinations |
|---------------------------------------|---|------------------------------|--------------------------|----------------------|
|                                       |   | Positioning flights          | Check Flights (US\$/hr.) |                      |
| Challenger CL601-3R                   | 1 | 2,787 \$                     | 2,787 \$                 |                      |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time |               | Type of flight check system |
|-----------------------|-------------------------|-----------------------------|---------------|-----------------------------|
|                       |                         | Routine                     | Commissioning |                             |
| VOR                   | x                       | 1 hr.                       | 12 hr.        | Fully auto                  |
| DME                   | x                       | Combined with VOR or ILS    |               | ”                           |
| TACAN                 | x                       | 1 hr.                       | 12 hr.        |                             |
| ILS CAT I             | x                       | 5 hr.                       | 20 hr.        | Semi-auto or Fully auto     |
| ILS CAT II            | x                       | 5 hr.                       | 20 hr.        | ”                           |
| ILS CAT III           | x                       | 5 hr.                       | 20 hr.        | ”                           |
| PAR                   | x                       | 3 hr.                       | 15 hr.        | ”                           |
| SSR                   | x                       | 2 hr.                       | 10 hr.        | ”                           |
| SRE                   | x                       | 2 hr.                       | 15 hr.        | ”                           |
| NDB/LOC               | x                       | 1 hr.                       | 5 hr.         | ”                           |
| Marker Beacon         | x                       | ##.                         | ##.           | ”                           |
| PAPI                  | X                       | 0.5 hr.                     | 3 hr.         | Semi-auto                   |
| AIRPORT LIGHTS        | x                       | 0.5 hr.                     | 3 hr.         | ”                           |

## : The estimated flight check time of Marker Beacon is included in that of ILS

4. Language used by flight testing team: Korean or English
5. Estimated annual flight time available to assist other administrations for testing radio navigation aids: 20H or negotiable
6. Advance notice: 3 months

1. Country and address: **THAILAND**

Business Systems Bureau  
 Aeronautical Radio of Thailand Limited  
 102 Ngamduplee  
 Tungmahamek  
 Bangkok 10120  
 G.P.O. Box 535  
 Bangkok 10120  
 Tel: +66 (2) 285 9666  
 Fax : +66 (2) 285 9350  
 E-mail: [bs@aerothai.co.th](mailto:bs@aerothai.co.th)

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |   | Flight Time Charges per hour |                          | Other co-ordinations |
|---------------------------------------|---|------------------------------|--------------------------|----------------------|
|                                       |   | Positioning flights          | Check Flights (US\$/hr.) |                      |
| King Air 200/B200                     | 4 | Negotiable                   | Negotiable               | Negotiable           |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids        | Flight Check Capability | Estimated flight check time                     |               | Type of flight check system        |
|------------------------------|-------------------------|---|---------------|------------------------------------|
|                              |                         | Routine   | Commissioning |                                    |
| VOR                          | x                       | 3 hr.   | 10 hr.        | Automatic/<br>Manual as applicable |
| DME                          | x                       | Combined with VOR or ILS                        |               |                                    |
| ILS CAT I/II/III             | x                       | 5 hr.   | 10 hr.        |                                    |
| SSR                          | x                       | 8 hr.   | 12 hr.        |                                    |
| SSE (ASR)                    | x                       | 4 hr.   | 10 hr.        |                                    |
| NDB/LOC                      | x                       | 2 hr.   | 4 hr.         |                                    |
| Marker Beacon                | x                       | Combined with ILS                               |               |                                    |
| PAPI                         | x                       | 2-4 hr.   | 4 hr.         |                                    |
| RNAV/RNP SID/STAR            | x                       | Depended on number of leg (s) and way point (s) |               |                                    |
| RNAV (GNSS) APCH w/Baro-VNAV | x                       |   |               |                                    |

4. Language used by flight testing team: Thai or English
5. Estimated annual flight time available to assist other Administrations for testing radio navigation aids: 110 Hrs
6. Advance notice: 60 days
7. Other information:
- 7.1 Two of King Air B200's are equipped with Aerodata Automatic Flight Inspection System (AFIS).
- 7.2 AFIS is DGPS capable, subject to availability of DGPS coordinates (WGS-84).

- 7.3 Flight inspection procedures are based on ICAO recommendations, while personnel are equally familiar with FAA standards also, with AFIS capable to both standards and recommendations. It is strongly recommended that the detailed procedures be confirmed prior to contract signing and flight inspection mission.
- 7.4 Other related services available are flight inspection consulting, including PBN package service (Feasibility Study and Project Planning/Analysis of GNSS Performance/Human Capacity Development/WGS-84 Survey/Instrument Flight Procedure design/RAIM prediction and NOTAM service/Flight Validation of PBN and GNSS procedures/GNSS Signal Monitoring and Archival).

1. Country and address: **UNITED STATES OF AMERICA**

Principal Staff Officer  
 Interagency Group on International Aviation  
 Office of International Aviation, API-10-Policy  
 Federal Aviation Administration  
 Department of Transportation  
 800 Independence Avenue, S.W.  
 Washington, D.C. 20591  
 USA  
 Tel: +1 (202) 385 8099  
 Fax: +1 (202) 267 5032

2. Type(s) and number of flight testing aircraft available, associated charges and conditions:

| Type of Aircraft & Aircraft Available |    | Flight Time Charges per hour |                          | Other co-ordinations |
|---------------------------------------|----|------------------------------|--------------------------|----------------------|
|                                       |    | Positioning flights          | Check Flights (US\$/hr.) |                      |
| CL 601-3R, CL 604 (Challenger)        | 4  | 4,228                        | 4,228                    |                      |
| BE-300 (Beech King Air)               | 18 | 1,939                        | 1,939                    |                      |
| Lear 60                               | 6  | 3,344                        | 3,344                    |                      |

3. Flight testing capability and estimated flight time:

| Radio Navigation Aids            | Flight Check Capability | Estimated flight check time   |               | Type of flight check system |
|----------------------------------|-------------------------|---|---------------|-----------------------------|
|                                  |                         | Routine   | Commissioning |                             |
| VOR                              | x                       | Varies by type of aircraft, type of ground equipment, i.e. single or dual equipment and en-route time |               | Automatic                   |
| DME                              | x                       |   |               | ”                           |
| ILS CAT I                        | x                       |   |               | ”                           |
| ILS CAT II                       | x                       |   |               | ”                           |
| ILS CAT III                      | x                       |   |               | ”                           |
| MLS                              | x                       |   |               | ”                           |
| GPS-NPA                          | x                       |   |               | ”                           |
| PAR                              | x                       |   |               | Manual                      |
| SSR                              | x                       |   |               | ”                           |
| SRE/ASR                          | x                       |   |               | ”                           |
| NDB/LOC/DF                       | x                       |   |               | ”                           |
| Marker Beacon                    | x                       |   |               | Automatic                   |
| LORAN                            | x                       |   |               | ”                           |
| AIRPORT LIGHTS                   | x                       |   |               | Manual                      |
| TAC                              | x                       |   |               | Automatic                   |
| VTAC                             | x                       |   |               | Manual                      |
| Procedures (PROC)                | x                       |   |               | ”                           |
| Communications (COM)             | x                       |   |               | Manual                      |
| Radio Frequency Interference RFI | x                       |   |               | Manual                      |
| SBAS & RNP                       | x                       |   |               | Automatic                   |

| Radio Navigation Aids | Flight Check Capability | Estimated flight check time |               | Type of flight check system |
|-----------------------|-------------------------|-----------------------------|---------------|-----------------------------|
|                       |                         | Routine                     | Commissioning |                             |
| GBAS *                | x                       |                             |               | Automatic                   |
| ADS-B *               | x                       |                             |               | Manual                      |

\* Current capability exists operating the aircraft in experimental, not for international operations. Expect full certification in FY2010.

4. Language used by flight testing team: English
5. Estimated annual flight time available to assist other Administrations for testing radio navigation aids: As established by Memorandum of Agreements through the Office of International Aviation (AIA): 3,000 flight hours.
6. Advance notice: 30 days
7. Positioning flight hour rate is the same as check flight rate unless en-route time is shared with other member countries.

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