

## AD 2 AERODROMES

## RJOA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## RJOA - HIROSHIMA

## RJOA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

|   |  |  |
|---|--|--|
| 1 | ARP coordinates and site at AD   | 342610N/1325510E<br>097°/1.5km FM RWY 10 THR   |
| 2 | Direction and distance from (city)   | 50km E FM Hiroshima city   |
| 3 | Elevation/ Reference temperature   | 1086ft / 29.9°C(2001-2005)   |
| 4 | Geoid undulation at AD ELEV<br>PSN   | 114ft  |
| 5 | MAG VAR/ Annual change   | 8°W(2022)/4.8°W  |
| 6 | AD Administration, address,<br>telephone, telefax, telex, AFS,<br>e-mail and/or Web-site addresses | Hiroshima International Airport Co., Ltd.<br>64-31, Zennyuji, Hongo-cho, Mihara-city, Hiroshima Pref.<br>TEL: +81-848-60-8108 FAX: +81-848-60-8103 |
| 7 | Types of traffic permitted(IFR/<br>VFR)  | IFR/VFR  |
| 8 | Remarks  | Hiroshima Airport Office (Civil Aviation Bureau)<br>64-34, Zennyuji, Hongo-cho, Mihara-city, Hiroshima Pref.<br>TEL: 0848-86-8650                  |

## RJOA AD 2.3 OPERATIONAL HOURS

|    |                           |  |
|----|---------------------------|--|
| 1  | AD Administration         | 2230 - 1330  |
| 2  | Customs and immigration   | 2230 - 1230  |
| 3  | Health and sanitation     | Quarantine(human): SAT 2300-SUN 1215, SUN 2300-MON 1215,<br>MON 2330-TUE 1215, TUE 2330-WED 1215,<br>WED 2300-THU 1215, THU 2330-FRI 1215,<br>FRI 2330-SAT 1215<br>Quarantine(animal): 2330-0800 EXC FRI 2330- SUN 0800 and HOL<br>Quarantine(plant): INTL SKED FLT hours only |
| 4  | AIS Briefing Office       | Nil  |
| 5  | ATS Reporting Office(ARO) | Nil  |
| 6  | MET Briefing Office       | H24 (KANSAI)   |
| 7  | ATS                       | 2230 - 1330  |
| 8  | Fuelling                  | 2100 - 1330  |
| 9  | Handling                  | 2100 - 1400  |
| 10 | Security                  | 2115 - 1135  |
| 11 | De-icing                  | Nil  |
| 12 | Remarks                   | Nil  |

**RJOA AD 2.4 HANDLING SERVICES AND FACILITIES**

|   |   |   |
|---|---|---|
| 1 | Cargo-handling facilities               | All the modern institutions that deal with the weight thing to a Boeing 747 type freighter. |
| 2 | Fuel/ oil types                         | Fuel grades : JET A-1   |
| 3 | Fuelling facilities/ capacity           | Fuel truck / Ask AD administration  |
| 4 | De-icing facilities                     | Nil   |
| 5 | Hangar space for visiting aircraft      | Nil   |
| 6 | Repair facilities for visiting aircraft | Nil   |
| 7 | Remarks                                 | Nil   |

**RJOA AD 2.5 PASSENGER FACILITIES**

|   |                      |   |
|---|----------------------|---|
| 1 | Hotels               | Not at Airport, but near Airport                                |
| 2 | Restaurants          | At Airport  |
| 3 | Transportation       | Buses and Taxi  |
| 4 | Medical facilities   | Not at Airport, but near Airport<br>Hospital in Mihara city 8km |
| 5 | Bank and Post Office | At Airport  |
| 6 | Tourist Office       | At Airport  |
| 7 | Remarks              | Nil   |

**RJOA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

|   |   |  |
|---|---|--|
| 1 | AD category for fire fighting               | CAT 9  |
| 2 | Rescue equipment                            | Chemical fire fighting truck x 3<br>Water-supply truck<br>Lighting power supply truck<br>Emergency medical equipments conveyance truck |
| 3 | Capability for removal of disabled aircraft | Nil  |
| 4 | Remarks                                     | Nil  |

**RJOA AD 2.7 SEASONAL AVAILABILITY-CLEARING**

|   |                             |   |
|---|-----------------------------|---|
| 1 | Types of clearing equipment | Snow remove equipments: Motor graders x 6-12, Wheel loader x 2  |
| 2 | Clearance priorities        | (1) RWY 10/28, TWY T1, T6, P1 - P5<br>(2) SUB TWY, APRON, SUB APRON   |
| 3 | Remarks                     | Seasonal availability: DEC MID - MAR MID<br>Snow removal will be commenced, if the runway and taxiways are covered with a depth of 3cm or more. |

**RJOA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

|   |                                     |   |
|---|-------------------------------------|---|
| 1 | Apron surface and strength          | Spot NR 1 - 10 Surface: cement-concrete, Strength: PCN 74/R/B/X/T<br>Sub apron Surface: asphalt-concrete, Strength: PCN 16/F/B/Y/T  |
| 2 | Taxiway width, surface and strength | TWY T2 - T5<br>Width: 34m, Surface: asphalt-concrete, Strength: PCN 72/F/A/X/T<br>TWY T1, T6<br>Width: 32m, Surface: asphalt-concrete, Strength: PCN 72/F/A/X/T<br>TWY P1 - P5<br>Width: 30m, Surface: asphalt-concrete, Strength: PCN 72/F/A/X/T<br>SUB TWY<br>Width: 18m, Surface: asphalt-concrete, Strength: PCN 16/F/B/Y/T   |
| 3 | ACL and elevation                   | Not available   |
| 4 | VOR checkpoints                     | Not available   |
| 5 | INS checkpoints                     | Spot NR<br>1 : 342621.10N/1325517.84E<br>2 : 342621.09N/1325515.09E<br>3 : 342621.09N/1325512.35E<br>5 : 342621.09N/1325509.61E<br>6 : 342620.86N/1325506.74E<br>6R : 342621.13N/1325507.25E<br>6L : 342620.29N/1325505.47E<br>7 : 342621.09N/1325503.83E<br>7L : 342620.99N/1325503.69E<br>8 : 342621.09N/1325500.89E<br>9 : 342621.11N/1325458.60E<br>10: 342621.08N/1325456.33E<br>L: 342621.08N/1325514.71E<br>C: 342621.08N/1325516.47E<br>R: 342621.08N/1325518.24E |
| 6 | Remarks                             | Nil   |

**RJOA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

|   |  |   |
|---|--|---|
| 1 | Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands | Aircraft stand identification sign: Spot NR 2, 3, 5 - 8   |
| 2 | RWY and TWY markings and LGT   | <p>RWY: RWY 10/28<br/>(Marking) RWY designation, RWY CL, RWY THR, RWY middle point, Aiming point, TDZ, RWY side stripe<br/>(LGT) RCLL, REDL, RTHL, RENL, RTZL(RWY10), WBAR(RWY10)</p> <p>TWY: TWY T1 - T6<br/>(Marking) TWY CL, RWY HLDG PSN, TWY side stripe, Mandatory instruction marking<br/>(LGT) TWY edge LGT, TWY CL LGT, RWY guard LGT, Taxiing guidance sign<br/>Stop Bar LGT<br/>TWY: TWY P1 - P5<br/>(Marking) TWY CL, TWY side stripe<br/>(LGT) TWY edge LGT, TWY CL LGT, Taxiing guidance sign</p>   |
| 3 | Stop bars  | <p>Stop Bar LGT : T1-T6<br/>Stop Bar System operations are as follows;</p> <ol style="list-style-type: none"> <li>1) Stop bar system are installed at each taxi holding position associated with RWY 10/28.</li> <li>2) Stop bar system will be operated when the visibility or the lowest RVR of RWY 10/28 is at or less than 600m.</li> <li>3) Stop bar system on TWY T1 and T6 are controlled individually by ATC.</li> <li>4) Stop bar system on TWY T2 through T5 are not controlled individually by ATC.</li> <li>5) During the period stop bar system are operated, TWY T2 through T5 are not available for departing aircraft.</li> </ol> |
| 4 | Remarks  | <p>(Marking): Overrun area, ACFT PRKG PSN, Apron TWY CL, ACFT stand taxi lane.<br/>(LGT): Apron flood LGT</p>   |

**RJOA AD 2.10 AERODROME OBSTACLES**

See AD2.24 Aerodrome Obstacle Chart

In approach/TKOF areas

| RWY/Area affected | Obstacle type | Coordinates      | Elevation | Markings/LGT  | Remarks |
|-------------------|---------------|------------------|-----------|---------------|---------|
| RWY 10            | Tower         | 342604N/1325305E | 1008ft    | Marking / LIL |         |
| RWY 10            | Tower         | 342616N/1325304E | 1160ft    | Marking / LIL |         |
| RWY 10            | Tower         | 342626N/1325301E | 1208ft    | Marking / LIL |         |

In circling area and at AD

| Obstacle type    | Coordinates     | Elevation | Markings/LGT | Remarks                      |
|------------------|-----------------|-----------|--------------|------------------------------|
| Mountain         | 342644N1325451E | 1475ft    | - / LIM      | above the horizontal surface |
| Mountain         | 342702N1325442E | 1485ft    | - / LIM      | above the horizontal surface |
| Mountain         | 342722N1325354E | 1659ft    | - / LIM      | above the horizontal surface |
| Mountain & Tower | 342751N1325540E | 1623ft    | - / LIM      | above the horizontal surface |
| Mountain         | 342802N1325628E | 1390ft    | - / LIM      | above the horizontal surface |
| Mountain         | 342736N1325219E | 1688ft    | - / LIM      |                              |
| Mountain         | 342728N1325317E | 1585ft    | - / LIM      | above the horizontal surface |
| Mountain         | 342826N1325451E | 1616ft    | - / LIM      | above the horizontal surface |

**RJOA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

|    |  |  |
|----|--|--|
| 1  | Associated MET Office  | KANSAI   |
| 2  | Hours of service<br>MET Office outside hours                           | H24 (KANSAI)   |
| 3  | Office responsible for TAF preparation<br>Periods of validity          | KANSAI<br>30 Hours   |
| 4  | Trend forecast<br>Interval of issuance                                 | Nil  |
| 5  | Briefing/ consultation provided  | Briefing is available upon inquiry at KANSAI   |
| 6  | Flight documentation<br>Language(s) used                               | C<br>En  |
| 7  | Charts and other information available for<br>briefing or consultation | S <sub>6</sub> , U <sub>85</sub> , U <sub>7</sub> , U <sub>5</sub> , U <sub>3</sub> , U <sub>25</sub> , U <sub>2</sub> /T <sub>r</sub> , P <sub>s</sub> , P <sub>5</sub> , P <sub>3</sub> , P <sub>25</sub> , P <sub>SWE</sub> , P <sub>SWF</sub> , P <sub>SWG</sub> , P <sub>SWI</sub> ,<br>P <sub>SWM</sub> , P <sub>SW</sub> (domestic), E, C, W <sub>E</sub> , W <sub>F</sub> , W <sub>G</sub> , W <sub>I</sub> , W, N |
| 8  | Supplementary equipment<br>available for providing information         | Nil  |
| 9  | ATS units provided with information                                    | TWR, APP, ATIS   |
| 10 | Additional information(limitation of service, etc.)                    | Nil  |

## RJOA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations<br>RWY NR | TRUE<br>BRG | Dimensions of<br>RWY(M) | Strength(PCN) and<br>surface of RWY | THR coordinates<br>THR geoid undulation | THR elevation and<br>highest elevation of TDZ<br>of precision APP RWY |
|------------------------|-------------|-------------------------|-------------------------------------|---|---|
| 1                      | 2           | 3                       | 4                                   | 5                                       | 6   |
| 10                     | 090.00°     | 3000x60                 | PCN72/F/A/X/T<br>Asphalt Concrete   | 342609.69N<br>1325411.25E<br>113.2ft    | THR ELEV:1071.7ft<br>TDZ ELEV:1080.8ft                                |
| 28                     | 270.00°     | 3000x60                 | PCN72/F/A/X/T<br>Asphalt Concrete   | 342609.69N<br>1325608.75E<br>113.4ft    | THR ELEV:1067.2ft   |

| Slope of RWY                           | Strip<br>Dimensions(M) | RESA (Overrun)<br>Dimensions(M) | Remarks                 |
|--|------------------------|---------------------------------|-------------------------|
| 7                                      | 10                     | 11                              | 14                      |
| See below figure                       | 3120 × 300             | 240 × (MNM:167 MAX:300)*        | RWY Grooving : 3000x40m |
|  | 3120 × 300             | 40 × (MNM:292 MAX:300)*         |                         |
| *For detail, ask airport administrator |                        |                                 |                         |

RWY10

LONGITUDINAL PROFILE OF RUNWAY

1087. 7ft

1071. 7ft

1067. 2ft

0. 3%

0. 5%

0m

1680. 845m

3000m

RWY28

## RJOA AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA<br>(m) | TODA<br>(m) | ASDA<br>(m) | LDA<br>(m) | Remarks |
|----------------|-------------|-------------|-------------|------------|---------|
| 1              | 2           | 3           | 4           | 5          | 6       |
| 10             | 3000        | 3000        | 3000        | 3000       | Nil     |
| 28             | 3000        | 3000        | 3000        | 3000       | Nil     |

## RJOA AD 2.14 APPROACH AND RUNWAY LIGHTING

| RWY<br>Designator   | APCH<br>LGT<br>type<br>LEN<br>INTST | RTHL<br>Color<br>WBAR | PAPI<br>(VASIS)<br>Angle<br>DIST FM THR<br>MEHT | RTZL<br>LEN | RCLL<br>LEN<br>Spacing<br>Color<br>INTST          | REDL<br>LEN<br>Spacing<br>Color<br>INTST             | RENL<br>Color<br>WBAR | STWL<br>LEN<br>Color |
|---|-------------------------------------|-----------------------|---|-------------|---|--|-----------------------|----------------------|
| 1   | 2                                   | 3                     | 4   | 5           | 6   | 7  | 8                     | 9                    |
| 10  | PALS<br>(CAT III)<br>900m<br>LIH    | Green<br>Green        | PAPI<br>3.0°/Left<br>397m<br>66ft               | 900m        | 3000m<br>15m<br>Coded color<br>(White/Red)<br>LIH | 3000m<br>60m<br>Coded color<br>(White/Yellow)<br>LIH | Red                   | Nil<br>(*1)          |
| 28  | SALS<br>420m<br>LIH                 | Green<br>-            | PAPI<br>3.0°/Left<br>416.3m<br>73.8ft           |             | 3000m<br>15m<br>Coded color<br>(White/Red)<br>LIH | 3000m<br>60m<br>Coded color<br>(White/Yellow)<br>LIH | Red                   | Nil<br>(*1)          |
| Remarks   |                                     |                       |   |             |   |  |                       |                      |
| 10  |                                     |                       |   |             |   |  |                       |                      |
| CGL and Wide angle approach lights are installed for south side circling to RWY 28, ALB is not installed.<br>Overrun area edge LGT(LEN:60m Color:Red)(*1) |                                     |                       |   |             |   |  |                       |                      |

## RJOA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

|   |  |  |
|---|--|--|
| 1 | ABN/IBN location, characteristics and hours of operation | ABN: 342631N/1325459E, White/Green EV4.3sec, HO  |
| 2 | LDI location and LGT<br>Anemometer location and LGT      | LDI : Nil<br>Anemometer :<br>RWY10 : 460m from RWY10 THR, LGTD<br>RWY28 : 380m from RWY28 THR, LGTD  |
| 3 | TWY edge and centerline lighting                         | TWY edge and center line lights installed, see AD2.9   |
| 4 | Secondary power supply/ switch-over time                 | Within 1 sec : PALS, SALS, REDL, RENL, RTHL, WBAR, RCLL, RTZL,<br>Overrun area edge LGT, Stop bar LGT, RWY guard LGT and TWY CL LGT<br>at TWY T1 , T6, P1 - P5<br>Within 15 sec: Other LGT |
| 6 | Remarks  | WDI LGT  |

## RJOA AD 2.16 HELICOPTER LANDING AREA

|     |
|-----|
| Nil |
|-----|

## RJOA AD 2.17 ATS AIRSPACE

| Designation and lateral limits |   | Vertical limits (ft) | Airspace classification | ATS unit call sign Language                             | Remarks |
|--------------------------------|---|----------------------|-------------------------|---|---------|
| 1                              |   | 2                    | 3                       | 4   | 6       |
| HIROSHIMA CTR                  | Area within a radius of 5NM of HIROSHIMA ARP(3426N/13255E). | 4000 or below        | D                       | HIROSHIMA TOWER<br>En                                   |         |
| HIROSHIMA ACA                  | See below chart   |                      | E                       | HIROSHIMA APP<br>HIROSHIMA DEP<br>HIROSHIMA RADAR<br>En |         |

広島進入管制区

Hiroshima Approach Control Area



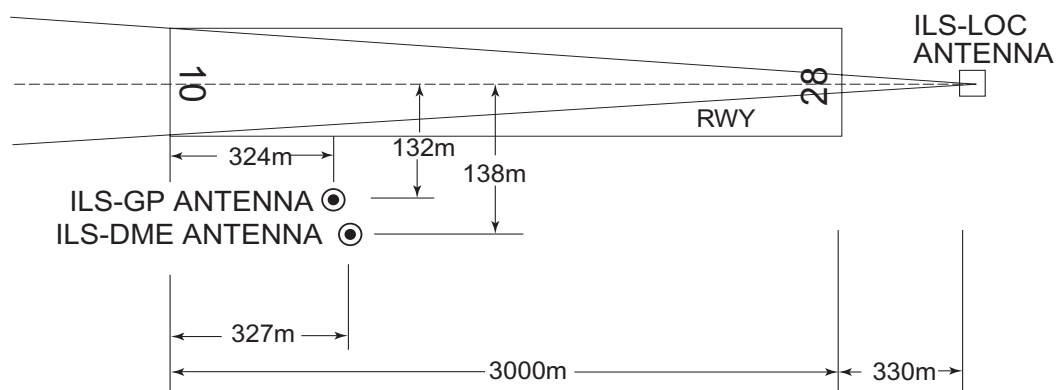


## RJOA AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign           | Frequency  | Hours of operation | Remarks |
|---------------------|---------------------|--|--------------------|---------|
| 1                   | 2                   | 3  | 4                  | 5       |
| APP                 | Hiroshima Approach  | 124.05MHz<br>119.9MHz<br>121.5MHz(E)<br>243.0MHz(E)              | 2230 - 1330        |         |
| ASR                 | Hiroshima Radar     | 119.9MHz<br>124.05MHz<br>125.15MHz<br>121.5MHz(E)<br>243.0MHz(E) | 2230 - 1330        |         |
| DEP                 | Hiroshima Departure | 119.9MHz<br>121.5MHz(E)<br>243.0MHz(E)                           | 2230 - 1330        |         |
| TWR                 | Hiroshima Tower     | 118.6MHz<br>126.2MHz<br>121.5MHz(E)<br>243.0MHz(E)               | 2230 - 1330        |         |
| ATIS                | Hiroshima Airport   | 127.25MHz  | 2230 - 1330        |         |

## RJOA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid<br>(VOR<br>declination) | ID  | Frequency            | Hours of<br>operation | Position of<br>transmitting<br>antenna<br>coordinates | Elevation of<br>DME<br>transmitting<br>antenna | Remarks   |
|-------------------------------------|-----|----------------------|-----------------------|---|--|---|
| 1                                   | 2   | 3                    | 4                     | 5   | 6  | 7   |
| VOR<br>(8°W /2021)                  | HGE | 117.9MHz             | H24                   | 342601.59N/<br>1325526.29E                            |  |   |
| DME                                 | HGE | 1213MHz<br>(CH-126X) | H24                   | 342601.59N/<br>1325526.29E                            | 1124ft   |   |
| ILS-LOC 10<br>(CAT III)             | IHG | 108.7MHz             | 2230-1330             | 342609.69N/<br>1325621.68E                            |  | LOC: 330m (1083ft) away FM<br>RWY 28 THR.<br>BRG (MAG) 097.93°  |
| ILS-GP 10                           | -   | 330.5MHz             | 2230-1330             | 342605.40N/<br>1325423.92E                            |  | GP: 324m (1063ft) inside FM<br>RWY 10 THR, 132m (433ft) S<br>of RCL<br>GP angle 3.0°<br>ILS REF datum 16.5m (54ft). |
| ILS-DME 10                          | IHG | 985MHz<br>(CH-24X)   | 2230-1330             | 342605.22N/<br>1325424.03E                            | 1088ft   | DME: 327m (1073ft) inside FM<br>RWY 10 THR, 138m (453ft) S<br>of RCL.   |
| MSAS                                |     | 1575.42MHz           | H24                   |   |  | Transmitting antennas are<br>satellite based.   |

ILS for RWY 10HIROSHIMA AP

REMARKS : 1.ILS-LOC beam BRG(MAG) 097.93°  
 2.HGT of ILS REF datum 16.5m(54ft)  
 3.GP Angle 3.0°  
 4.ELEV of ILS-DME 331.5m(1088ft)

## RJOA AD 2.20 LOCAL TRAFFIC REGULATIONS

## 1. Airport regulations

## 1.1 定期便または緊急事態以外の航空機の取り扱い

当空港の使用について、航空機の運航者は、空港管理者の許可を得ること

TEL: 0848(86)8323 FAX: 0848(86)8327

## 1.1 Aircraft operations other than scheduled flights or in an emergency

On use of this airport, aircraft operator is required to obtain the prior permission of the airport administrator.

TEL: +81-848-86-8323 FAX: +81-848-86-8327

## 1.2 管制方式

出発機は次に掲げる方式に従うこと。

## 1) 管制承認

出発機はエンジン始動5分前の通報に合わせて、次に掲げる項目を広島タワーに通報すること

- ・ 航空機呼出符号
- ・ 目的地
- ・ 要求高度（代替要求高度がある場合は、当該高度）
- ・ 駐機位置（スポット番号）
- ・ 代替飛行経路がある場合は当該飛行経路

## 2) 管制承認はエンジン始動準備完了の通報を行った航空機から順に発出される。

## 3) パイロットはプッシュバック及び／またはエンジン始動時期が遅れることが予想される場合は、広島タワーに対しその旨通報すること。ただし、他の航空機の地上交通による遅延または出発制御時刻等が付加されたために生じる遅延を除く。

## 4) インターセクション・ディパーチャー

各インターセクション・ディパーチャーによる滑走路残距離は次のとおり。

| RWY | TWY | Remaining RWY length |
|-----|-----|----------------------|
| 28  | T2  | 2,310m (7,570ft)     |
|     | T3  | 1,690m (5,540ft)     |
|     | T4  | 1,060m (3,470ft)     |
|     | T5  | 450m (1,470ft)       |
| 10  | T5  | 2,420m (7,930ft)     |
|     | T4  | 1,810m (5,930ft)     |
|     | T3  | 1,190m (3,900ft)     |
|     | T2  | 560m (1,830ft)       |

\* 誘導路中心線と滑走路中心線の交点から滑走路末端までの距離で 10m (10ft) の端数を切り捨てた値

## 1.2 ATC Procedures

Departing aircraft shall comply with the following procedures.

## 1) ATC clearance

Advise HIROSHIMA TOWER 5 minutes prior to starting engines with the following items

- call sign
- destination
- proposed flight level/altitude (alternative flight levels/altitude, if any)
- parking position (spot number)
- alternative flight routes, if any

## 2) Clearance will be issued in the order of reporting ready to start engines.

## 3) Pilots shall advise HIROSHIMA TOWER if any delay in push-back and/or engine start-up is anticipated except when delay has been caused by other ground traffic or departure time restriction such as released time.

## 4) Intersection departure

The remaining runway length for intersection departures are as follows.

\* Rounded down to the nearest 10m (10ft) from the measurement between the point where TWY CL meets RCL and RWY THR.

## 2. Taxiing to and from stands

Nil

## 3. Parking area for small aircraft(General aviation)

Nil

## 4. Parking area for helicopters

Nil

## 5. Apron - taxiing during winter conditions

Nil

## 6. Taxiing - limitations

**6.1 誘導路交差点の翼端クリアランス**  
(AD1.1.6.8 参照)

誘導路上の停止位置に待機中の航空機と後方の誘導路を走行する航空機の翼端クリアランスは以下のとおりである。

誘導路 T2, T3, T4, T5 の停止位置標識で B773 型機が一時停止している場合、当該航空機の後方を通過しようとする航空機との間に必要最小限度の安全余裕が確保されていない。

その他の型式の航空機が停止位置標識で一時停止している場合は当該航空機の後方を通過しようとする航空機との間に十分な安全余裕がとれない可能性がある。

**6.1 Wing tip clearance at the TWY intersection**  
(REF AD1.1.6.8)

Wing tip clearance at the TWY intersection between the aircraft holding at the stop marking on the TWY and the other aircraft taxiing behind it are as follows.

When B773 holding at the stop marking on TWY T2, T3, T4 and T5, there is no minimum safety buffer between the aircraft holding at the stop marking on the TWY and the aircraft passing behind it.

When other aircraft holding at the stop marking on TWY T2, T3, T4 and T5, there might be no safety buffer between the aircraft holding at the stop marking on the TWY and the aircraft passing behind it.

## 7. School and training flights - technical test flights - use of runways

Nil

## 8. Helicopter traffic - limitation

Nil

## 9. Removal of disabled aircraft from runways

Nil

## 10. Remarks

Nil

**RJOA AD 2.21 NOISE ABATEMENT PROCEDURES**

Nil

## RJOA AD 2.22 FLIGHT PROCEDURES

| 1.TAKE OFF MINIMA                                  |       |             |                         |               |                                |               |                       |      |
|--|-------|-------------|-------------------------|---------------|--------------------------------|---------------|-----------------------|------|
|  | RWY   | ACFT<br>CAT | REDL & RCLL             |               | REDL or RCLL<br>or RCL Marking |               | Nil<br>(DAYTIME ONLY) |      |
|  |       |             | RVR                     | VIS           | RVR                            | VIS           | RVR                   | VIS  |
| Multi-Engine<br>ACFT with<br>TKOF ALTN<br>AP filed | 10/28 | A,B,C       | 400m<br>*200m<br>**150m | 400m<br>*200m | 400m<br>*250m                  | 400m<br>*250m | -                     | 500m |
|  |       | D           | 400m<br>*250m<br>**200m | 400m<br>*250m | 400m<br>*300m                  | 400m<br>*300m | -                     | 500m |
| OTHER  | 10/28 | A,B,C,D     | AVBL LDG MINIMA         |               |                                |               |                       |      |

\* Applicable when LVP/LVPD IN FORCE

\*\* Applicable when LVP/LVPD IN FORCE and MULTIPLE RVRs AVAILABLE

## 2. Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with HIROSHIMA Approach/Radar are lost for 30 seconds, squawk Mode A/3 Code 7600 and;

- (I)
1. Contact HIROSHIMA Tower.
  2. If unable, proceed in accordance with visual flight rules.
  3. If unable, proceed to HONGO VOR/DME at last assigned altitude or 4,100 feet whichever is higher, and execute instrument approach.
- (II) Procedures other than above will be issued when situation required.

## 3.Trajectorized Airport Traffic Data Processing System (TAPS)

Aircraft flying under control of Hiroshima approach control in the approach control area will be instructed to reply with discrete code on Mode A/3 and Mode C.

If an aircraft with non-discrete capability be instructed to reply with the discrete code, it shall report a controller accordingly.

広島アプローチの指示のもとに、当該進入管制区を飛行する航空機は、モード A/3 の二次レーダー個別コード及びモード C による応答を指示される。

二次レーダー個別コードを搭載していない航空機が当該コードによる応答を指示された場合は、管制官に対しその旨通報すること。

#### 4. Category III Operations at Hiroshima Airport 広島空港におけるカテゴリーⅢ運航

##### 4.1 Facilities

The following facilities are available:

| Runway 10  |
|--|
| <ul style="list-style-type: none"> <li>• ILS Runway 10-CAT III</li> <li>• Lighting system Runway 10-CAT III</li> <li>• RVR by forward-scatter meters (the touchdown zone, the mid-point and stop-end of the runway)</li> </ul> |

##### 4.2 Conditions

A. The following systems must be operative:

| For ILS RWY 10 approach (CAT III)   |
|---|
| (1) ILS comprising; <ul style="list-style-type: none"> <li>• ILS-LOC 10 with standby transmitter(including far field monitor)</li> <li>• ILS-GP 10 with standby transmitter<br/>(When any standby transmitters or far field monitor unserviceable, downgrade ILS-CAT I.)</li> <li>• ILS-DME 10</li> </ul> |
| (2) Lighting system comprising; <ul style="list-style-type: none"> <li>• PALS 10 (including side row barrettes)</li> <li>• High INTST REDL</li> <li>• High INTST RTHL</li> <li>• RCLL and RTZL</li> </ul>   |
| (3) Secondary power supply  |
| (4) RVR by forward-scatter meters at the touchdown zone, mid-point and stop-end of the runway.  |

B. The following information must be currently available:

- 1) Surface wind speed and direction
- 2) RVR

C. ITEM A and/or B are not met, the relevant information will be notified to the pilots as soon as practicable.

##### 4.3 Precision Approach Terrain Chart

See RJOA AD2.24

##### 4.4 Operating Minimum

Approach minima stated in AD2.24 (Instrument Approach Chart) are observed.

##### 4.5 LVP

LVP will be available when the following conditions are met:

- 1) Ceiling is at or less than 200ft and/or RVR is at or less than 600m.
- 2) Facilities listed 4.1 above are operational.
- 3) ILS Critical Area is protected.

In order to protect ILS Critical Area for the succeeding arrival aircraft, an arrival aircraft may be given following instruction by ATC.

"REPORT OUT OF ILS CRITICAL AREA "

The exit taxiway centerline lights are fixed alternate green and yellow inside the ILS Critical Area. If an aircraft is given the above instruction, she is expected to advise the ATC when the taxiway centerline lights change from alternate green and yellow to steady green.

##### 4.6 Approval for CAT III Operations

Operators must obtain operational approval from the State of Registry or the State of Operator, as appropriate, to conduct CAT III Operations. (See GEN1.5)

## 5. LVTO at Hiroshima Airport

### 5.1. Facilities

The following facilities are available:

| RWY 10   | RWY 28   |
|--|--|
| <ul style="list-style-type: none"><li>• Lighting system RWY 10 for LVTO</li><li>• RVR by forward-scatter meters (the touchdown zone, the mid-point and stop-end of the runway)</li></ul> | <ul style="list-style-type: none"><li>• Lighting system RWY 28 for LVTO</li><li>• RVR by forward-scatter meters (the touchdown zone, the mid-point and stop-end of the runway)</li></ul> |

### 5.2. Conditions

A. The following systems must be operative:

| For LVTO   |
|--|
| (1) Lighting system comprising; <ul style="list-style-type: none"><li>• High INTST REDL</li><li>• High INTST RENL</li><li>• RCLL</li></ul> |
| (2) Secondary power supply   |

B. The following information must be currently available:

- a) Surface wind speed and direction.
- b) RVR or VIS

C. ITEM A and/or B are not met, the relevant information will be notified to the pilots as soon as practicable.

### 5.3. Operating Minima

Take-off minima stated in AD2.22(TAKE-OFF MINIMA) are observed.

### 5.4. LVP/LVPD

(1)LVP/LVPD will be available when the following conditions are met:

- a)RVR is at or less than 600m.
- b)Facilities listed 5.1 above are operational.

(2)Taxiway available for LVTO

Entering taxiway: T1 and T6

**RJOA AD 2.23 ADDITIONAL INFORMATION**

Nil

**RJOA AD 2.24 CHARTS RELATED TO AN AERODROME**

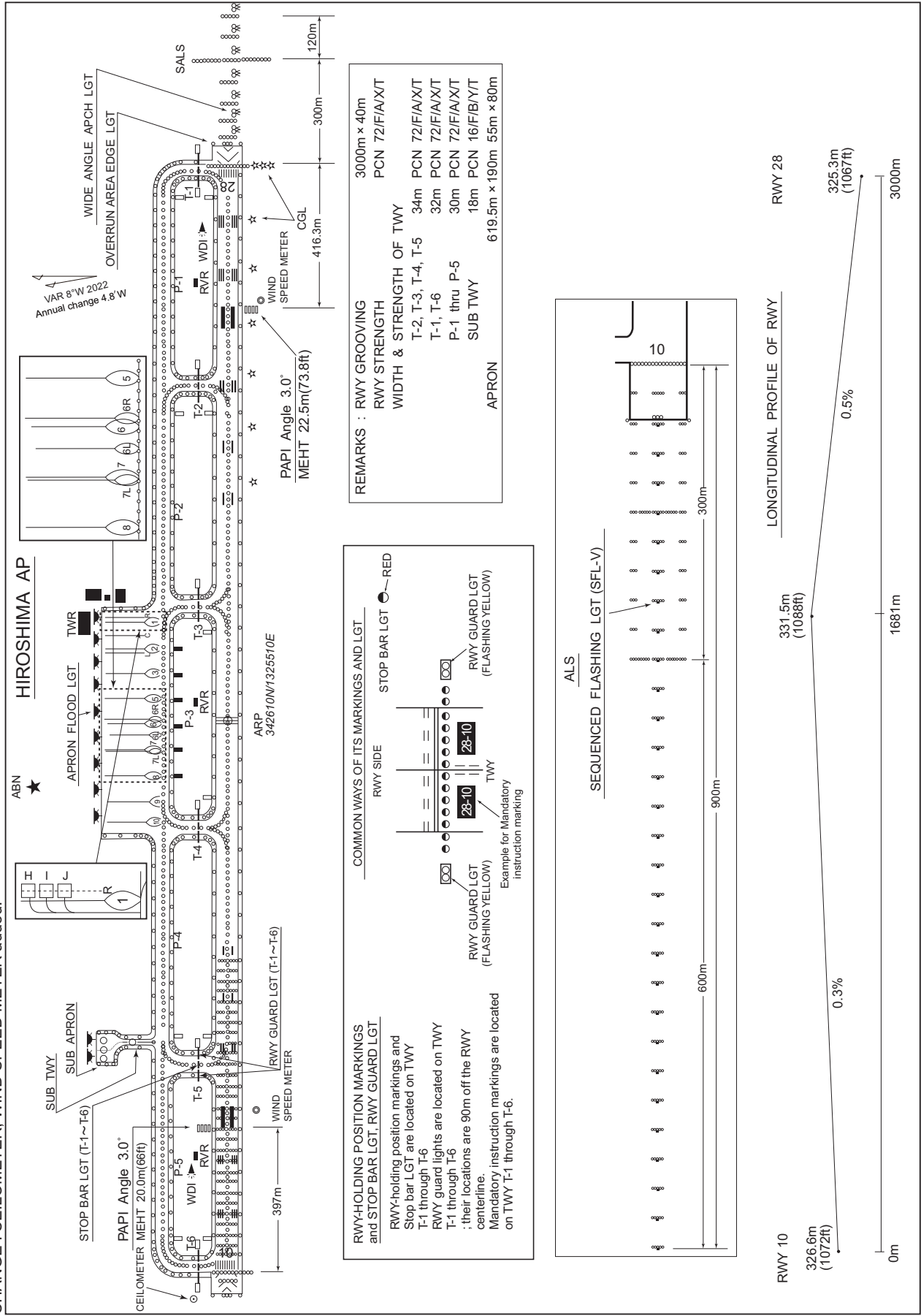
Aerodrome/Heliport Chart  
Aerodrome Obstacle Chart type A (RWY10/28)  
Aerodrome Obstacle Chart type B (RWY10/28)  
Precision Approach Terrain Chart  
Standard Departure Chart - Instrument (HONGO)  
Standard Departure Chart - Instrument (MARCO-RNAV)  
Standard Departure Chart - Instrument (KIJYY-RNAV)  
Standard Departure Chart - Instrument (MOMOT-RNAV)  
Standard Departure Chart - Instrument (SINFO-RNAV)  
Standard Arrival Chart - Instrument (HONGO)  
Standard Arrival Chart - Instrument (MISEN-RNAV)  
Standard Arrival Chart - Instrument (AXELA-RNAV)  
Standard Arrival Chart - Instrument (DEMIO-RNAV)  
Standard Arrival Chart - Instrument (VISTA-RNAV)  
Standard Arrival Chart - Instrument (PUNUP-RNAV)  
Instrument Approach Chart (ILS Z or LOC RWY10 (CAT III))  
Instrument Approach Chart (ILS Y RWY10 (CAT III))  
Instrument Approach Chart (VOR RWY10)  
Instrument Approach Chart (VOR RWY28)  
Instrument Approach Chart (RNP RWY28)  
Instrument Approach Chart (RNP Z RWY10(AR))  
Instrument Approach Chart (RNP Y RWY10(AR))  
Other Chart (Visual REP)  
Other Chart (LDG CHART)  
Other Chart (MVA CHART)



RJOA / HIROSHIMA

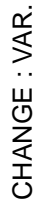
AD CHART

CHANGE : CEILOMETER, WIND SPEED METER added.



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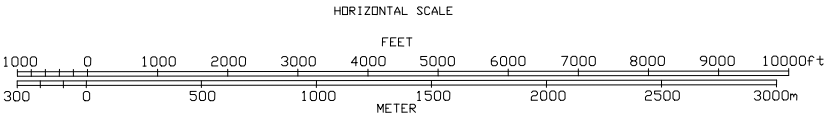
DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC



AERODROME OBSTACLE CHART-ICAO  
TYPE B (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN FEET BEARINGS ARE MAGNETIC

AERODROME ELEVATION 1086ft ARP



| LEGEND  | AMENDMENT RECORD |      |            |
|---|------------------|------|------------|
|   | NO               | DATE | ENTERED BY |
| ✦ AERODROME REFERENCE POINT<br>54°26'10"N 132°55'10"E |                  |      |            |
| ⊙ POLE, TOWER, SPIRE, ANTENNA, ETC                    |                  |      |            |
| ★ AERONAUTICAL GROUND LIGHT                           |                  |      |            |
| ✧ OBSTRUCTION LIGHT                                   |                  |      |            |
| ■ BUILDING OR LARGE STRUCTURE                         |                  |      |            |
| —+—+— TERRAIN PENETRATING OBSTACLE PLANE              |                  |      |            |
| —+—+— RAILROAD  |                  |      |            |
| —+—+— TRANSMISSION LINE OR OVERHEAD CABLE             |                  |      |            |
| —+—+— LEVEE   |                  |      |            |
| ★ TREE  |                  |      |            |
| ⊙ LAKE  |                  |      |            |
| —+—+— RIVER   |                  |      |            |
| —+—+— CONTOURS(11)                                    |                  |      |            |

CHANGE : VAR.

PRECISION APPROACH TERRAIN CHART-ICAO

PRECISION APPROACH TERRAIN CHART



STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

SID

HONGO REVERSAL FOUR DEPARTURE

RWY 10 : Climb RWY HDG to HGE 4.6DME(4.0NM FM DER), turn left....,  
RWY 28 : Climb on HDG 271° to HGE 5.0DME(4.0NM FM DER), turn right....,  
....direct to HGE VOR/DME. Cross HGE VOR/DME at or above 5000FT.

Note : RWY10 : 3.8% climb gradient required up to 2300FT.  
OBST ALT 2002FT located at 088°/5.7NM FM DER.  
RWY28 : 3.8% climb gradient required up to 1600FT.  
OBST ALT 2559FT located at 338°/7.7NM FM DER.



CHANGE : PROC renamed. PROC course. Note RWY10(OBST). Note RWY28(Climb gradient, OBST).

## STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

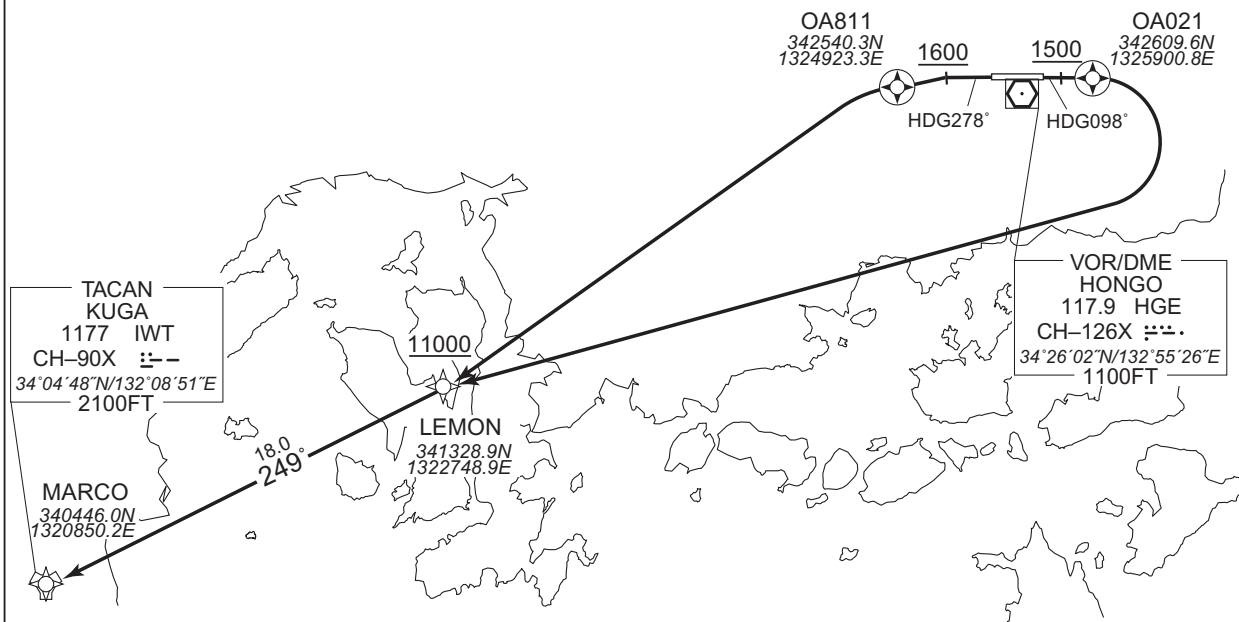
RNAV SID

## MARCO TWO DEPARTURE

Basic RNP1

Note GNSS required.

VAR 8°W



RWY10 : Climb on HDG098° at or above 1500FT, direct to OA021, turn right direct to LEMON at or above 11000FT, to MARCO.

RWY28 : Climb on HDG278° at or above 1600FT, direct to OA811, turn left direct to LEMON at or above 11000FT, to MARCO.

NOTE RWY10 : 5.0% climb gradient required up to 1500FT.  
RWY28 : 3.6% climb gradient required up to 1600FT.

## RWY10

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|--------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | —                   | —        | 098 (090.0)  | -8.1               | —             | —              | +1500         | —            | —              | Basic RNP1               |
| 002           | DF              | OA021               | Y        | —            | -8.1               | —             | —              | —             | —            | —              | Basic RNP1               |
| 003           | DF              | LEMON               | —        | —            | -8.1               | —             | R              | +11000        | —            | —              | Basic RNP1               |
| 004           | TF              | MARCO               | —        | 249 (241.1)  | -8.1               | 18.0          | —              | —             | —            | —              | Basic RNP1               |

## RWY28

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|--------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | —                   | —        | 278 (270.0)  | -8.1               | —             | —              | +1600         | —            | —              | Basic RNP1               |
| 002           | DF              | OA811               | Y        | —            | -8.1               | —             | —              | —             | —            | —              | Basic RNP1               |
| 003           | DF              | LEMON               | —        | —            | -8.1               | —             | L              | +11000        | —            | —              | Basic RNP1               |
| 004           | TF              | MARCO               | —        | 249 (241.1)  | -8.1               | 18.0          | —              | —             | —            | —              | Basic RNP1               |

CHANGE : Description of VAR.

STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION





## STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

KIJYY THREE DEPARTURE

## RWY10

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | —                   | —        | 098<br>(090.0) | -8.1               | —             | —              | +1500         | —            | —              | Basic RNP1               |
| 002           | DF              | OA021               | Y        | —              | -8.1               | —             | —              | —             | —            | —              | Basic RNP1               |
| 003           | DF              | TOJYO               | —        | —              | -8.1               | —             | L              | +12000        | —            | —              | Basic RNP1               |
| 004           | TF              | KIJYY               | —        | 076<br>(067.9) | -8.1               | 43.4          | —              | —             | —            | —              | Basic RNP1               |

## RWY28

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | —                   | —        | 278<br>(270.0) | -8.1               | —             | —              | +1600         | —            | —              | Basic RNP1               |
| 002           | DF              | OA811               | Y        | —              | -8.1               | —             | —              | —             | —            | —              | Basic RNP1               |
| 003           | DF              | TOJYO               | —        | —              | -8.1               | —             | R              | +12000        | —            | —              | Basic RNP1               |
| 004           | TF              | KIJYY               | —        | 076<br>(067.9) | -8.1               | 43.4          | —              | —             | —            | —              | Basic RNP1               |

TOZAN TRANSITION

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF              | KIJYY               | —        | —              | -8.1               | —             | —              | —             | —            | —              | Basic RNP1               |
| 002           | TF              | TOZAN               | —        | 077<br>(069.0) | -8.1               | 20.3          | —              | —             | —            | —              | Basic RNP1               |
| 003           | TF              | YME                 | —        | 076<br>(068.3) | -8.1               | 34.3          | —              | —             | —            | —              | Basic RNP1               |

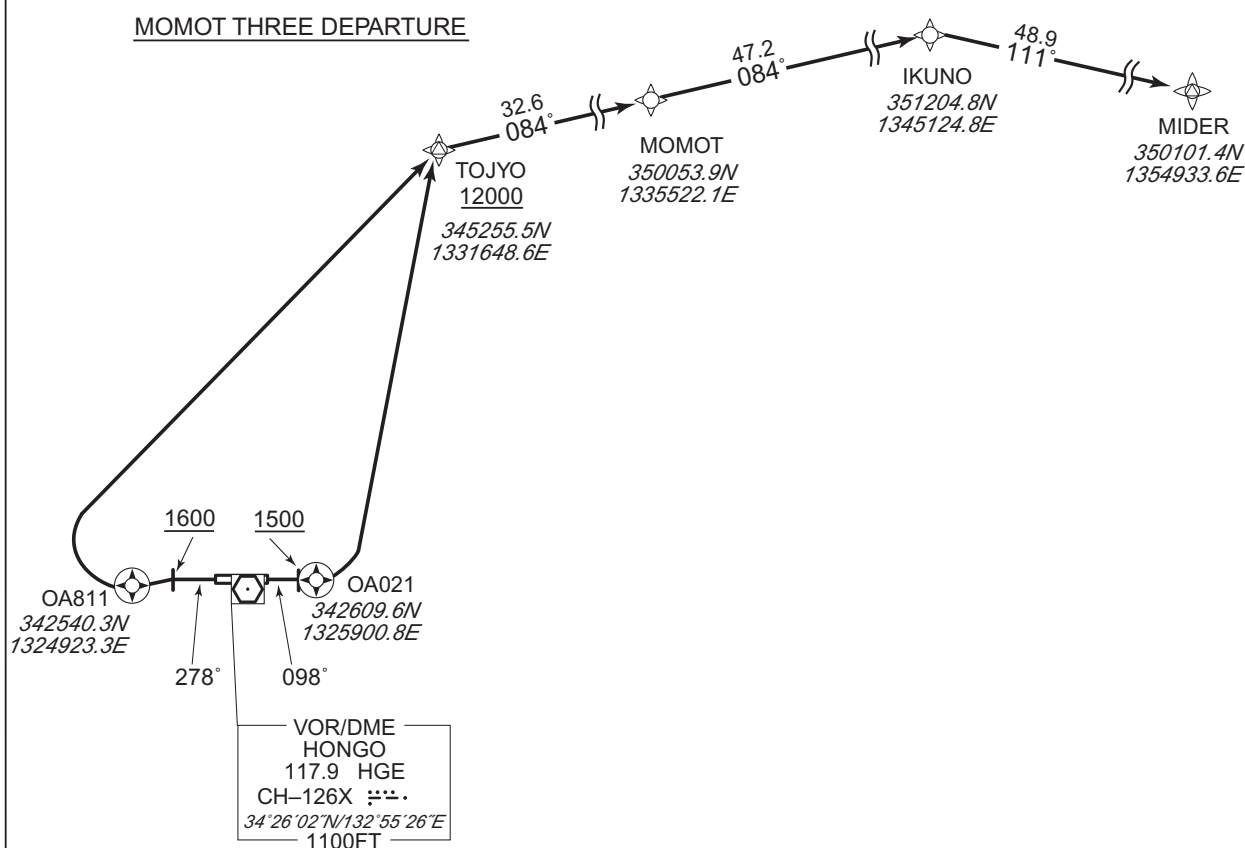
CHANGE : PROC renamed(KIJYY THREE DEPARTURE). VAR. Navigation specification.

## RJOA / HIROSHIMA

## RNAV SID and TRANSITION

VAR 8°W

## IKUNO TRANSITION



NOTE RWY10 : 5.0% climb gradient required up to 1600FT.  
OBST ALT 2090FT located at 5.74NM 087° FM end of RWY10.  
RWY28 : 3.6% climb gradient required up to 2700FT.  
OBST ALT 2570FT located at 7.71NM 337° FM end of RWY28.

From MOMOT, to IKUNO, to MIDER.

CHANGE : Description of VAR.

## STANDARD DEPARTURE CHART - INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

MOMOT THREE DEPARTURE

## RWY10

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | —                   | —        | 098<br>(090.0) | -7.9               | —             | —              | +1500         | —            | —              | RNAV1                    |
| 002           | DF              | OA021               | Y        | —              | -7.9               | —             | —              | —             | —            | —              | RNAV1                    |
| 003           | DF              | TOJYO               | —        | —              | -7.9               | —             | L              | +12000        | —            | —              | RNAV1                    |
| 004           | TF              | MOMOT               | —        | 084<br>(075.7) | -7.9               | 32.6          | —              | —             | —            | —              | RNAV1                    |

## RWY28

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | —                   | —        | 278<br>(270.0) | -7.9               | —             | —              | +1600         | —            | —              | RNAV1                    |
| 002           | DF              | OA811               | Y        | —              | -7.9               | —             | —              | —             | —            | —              | RNAV1                    |
| 003           | DF              | TOJYO               | —        | —              | -7.9               | —             | R              | +12000        | —            | —              | RNAV1                    |
| 004           | TF              | MOMOT               | —        | 084<br>(075.7) | -7.9               | 32.6          | —              | —             | —            | —              | RNAV1                    |

IKUNO TRANSITION

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF              | MOMOT               | —        | —              | -7.9               | —             | —              | —             | —            | —              | RNAV1                    |
| 002           | TF              | IKUNO               | —        | 084<br>(076.0) | -7.9               | 47.2          | —              | —             | —            | —              | RNAV1                    |
| 003           | TF              | MIDER               | —        | 111<br>(102.8) | -7.9               | 48.9          | —              | —             | —            | —              | RNAV1                    |

STANDARD DEPARTURE CHART -INSTRUMENT



## STANDARD DEPARTURE CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV SID and TRANSITION

SINFO THREE DEPARTURE

## RWY10

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | —                   | —        | 098<br>(090.0) | -8.1               | —             | —              | +1500         | —            | —              | Basic RNP1               |
| 002           | DF              | OA021               | Y        | —              | -8.1               | —             | —              | —             | —            | —              | Basic RNP1               |
| 003           | DF              | AKANA               | —        | —              | -8.1               | —             | L              | +11000        | —            | —              | Basic RNP1               |
| 004           | TF              | SINFO               | —        | 359<br>(350.7) | -8.1               | 14.4          | —              | —             | —            | —              | Basic RNP1               |

## RWY28

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | VA              | —                   | —        | 278<br>(270.0) | -8.1               | —             | —              | +1600         | —            | —              | Basic RNP1               |
| 002           | DF              | OA811               | Y        | —              | -8.1               | —             | —              | —             | —            | —              | Basic RNP1               |
| 003           | DF              | AKANA               | —        | —              | -8.1               | —             | R              | +11000        | —            | —              | Basic RNP1               |
| 004           | TF              | SINFO               | —        | 359<br>(350.7) | -8.1               | 14.4          | —              | —             | —            | —              | Basic RNP1               |

STAGE TRANSITION

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF              | SINFO               | —        | —              | -8.1               | —             | —              | —             | —            | —              | Basic RNP1               |
| 002           | TF              | STAGE               | —        | 359<br>(350.6) | -8.1               | 23.2          | —              | —             | —            | —              | Basic RNP1               |

CHANGE : PROC renamed(SINFO THREE DEPARTURE). VAR: Course(FM AKANA TO STAGE). Navigation specification.

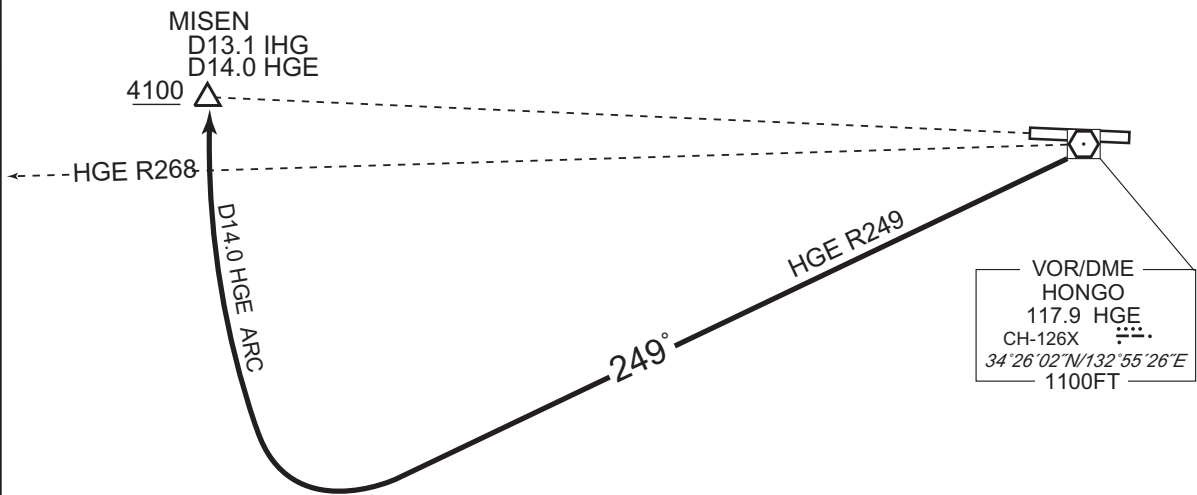
STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

STAR

HONGO ARRIVAL

From over HGE VOR/DME, via HGE R249 to intercept and proceed  
via HGE 14.0DME clockwise ARC to MISEN.  
Cross MISEN at or above 4100FT.



CHANGE : Course FM HGE to MISEN.

## STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY10

## MISEN ARRIVAL

RNAV1

Note 1 ) DME/DME/IRU or GNSS required.

2 ) RADAR service required.

VAR 8°W



From AMURO at or above 8000FT, to SAILA at or above 7000FT, to SEAWA at or above 5500FT, to MISEN at or above 4100FT.

|                       |  |
|-----------------------|--|
| Critical DME          | —  |
| DME GAP               | —  |
| Inappropriate Navaids | See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. |

CHANGE : Description of VAR.

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF              | AMURO               | —        | —             | -7.6               | —             | —              | +8000         | —            | —              | RNAV1                    |
| 002           | TF              | SAILA               | —        | 262 (254.5)   | -7.6               | 6.7           | —              | +7000         | —            | —              | RNAV1                    |
| 003           | TF              | SEAWA               | —        | 262 (254.4)   | -7.6               | 29.2          | —              | +5500         | —            | —              | RNAV1                    |
| 004           | TF              | MISEN               | —        | 187 (179.8)   | -7.6               | 5.7           | —              | +4100         | —            | —              | RNAV1                    |

STANDARD ARRIVAL CHART-INSTRUMENT

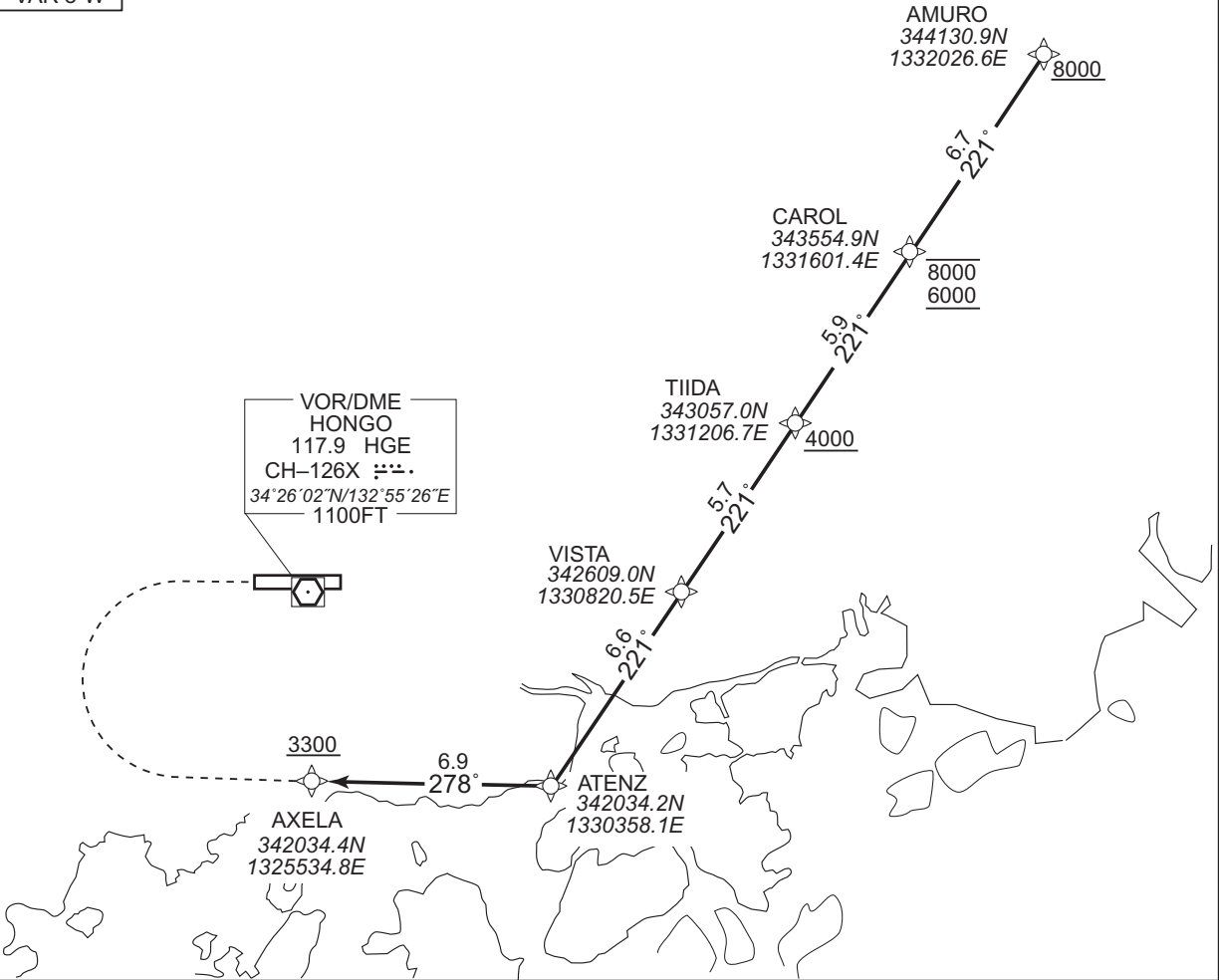
RJOA / HIROSHIMA

RNAV STAR RWY10

| AXELA ARRIVAL | Basic RNP1 |
|---------------|------------|
|---------------|------------|

Note GNSS required.

VAR 8°W



From AMURO at or above 8000FT, to CAROL between 8000FT and 6000FT, to TIIDA at or above 4000FT, to VISTA, to ATENZ, to AXELA at or above 3300FT.

CHANGE : Description of VAR.

| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF              | AMURO               | —        | —             | -8.1               | —             | —              | +8000         | —            | —              | Basic RNP1               |
| 002           | TF              | CAROL               | —        | 221 (213.0)   | -8.1               | 6.7           | —              | -8000 +6000   | —            | —              | Basic RNP1               |
| 003           | TF              | TIIDA               | —        | 221 (213.0)   | -8.1               | 5.9           | —              | +4000         | —            | —              | Basic RNP1               |
| 004           | TF              | VISTA               | —        | 221 (212.9)   | -8.1               | 5.7           | —              | —             | —            | —              | Basic RNP1               |
| 005           | TF              | ATENZ               | —        | 221 (212.9)   | -8.1               | 6.6           | —              | —             | —            | —              | Basic RNP1               |
| 006           | TF              | AXELA               | —        | 278 (270.1)   | -8.1               | 6.9           | —              | +3300         | —            | —              | Basic RNP1               |



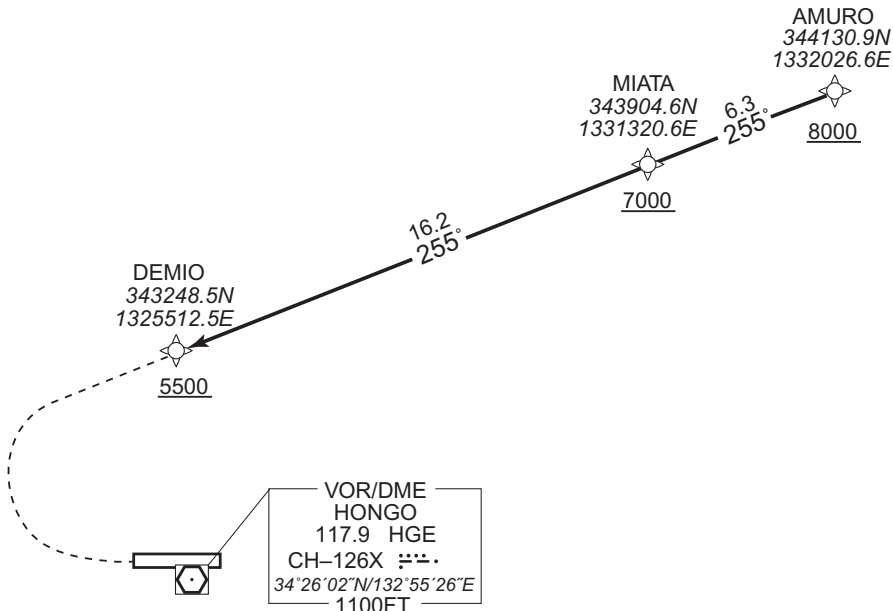
STANDARD ARRIVAL CHART-INSTRUMENT

RJOA / HIROSHIMARNAV STAR RWY10

| DEMIO ARRIVAL | Basic RNP1 |
|---------------|------------|
|---------------|------------|

Note GNSS required.

VAR 8°W



From AMURO at or above 8000FT, to MIATA at or above 7000FT, to DEMIO at or above 5500FT.

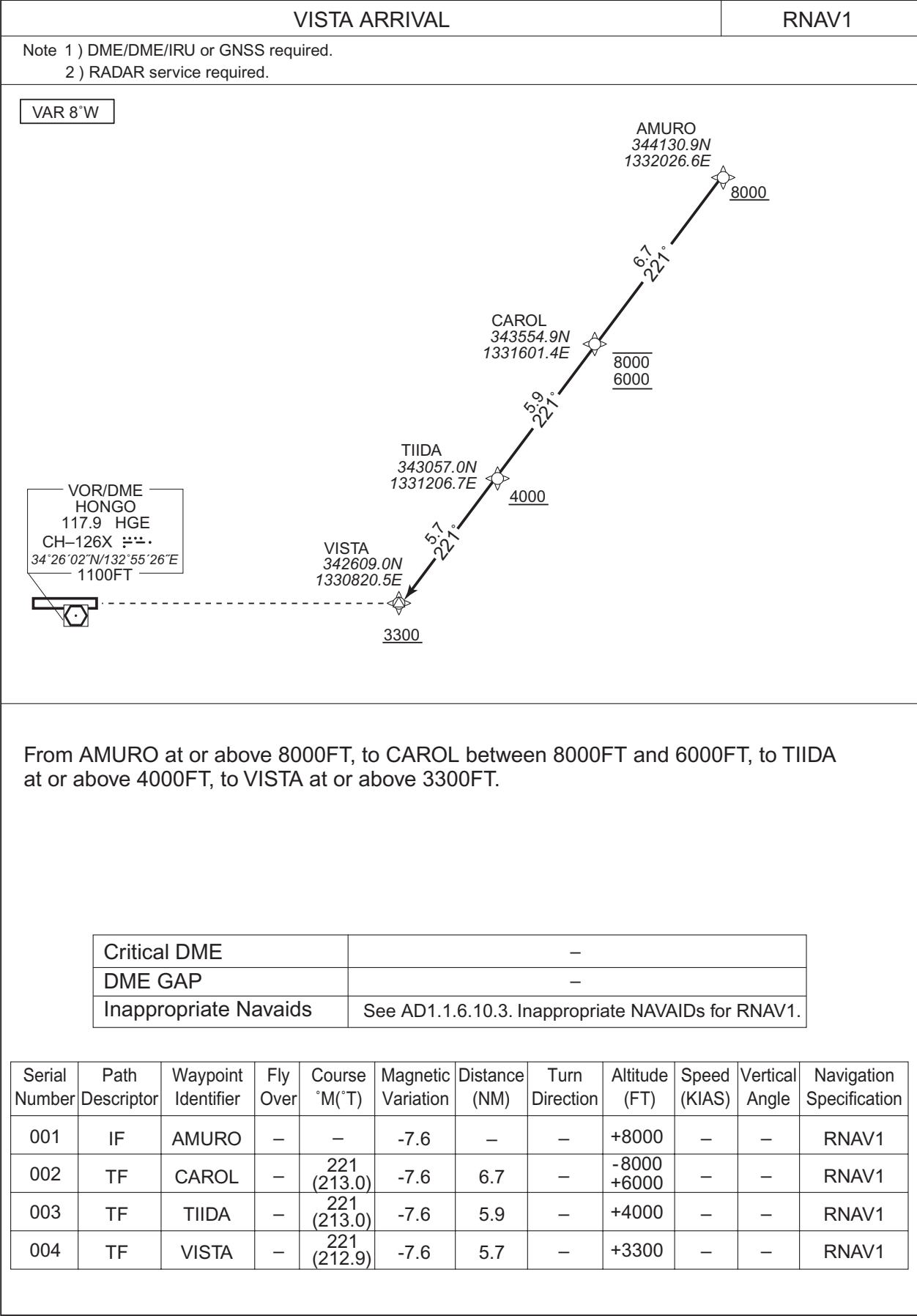
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF              | AMURO               | —        | —             | -8.1               | —             | —              | +8000         | —            | —              | Basic RNP1               |
| 002           | TF              | MIATA               | —        | 255 (247.4)   | -8.1               | 6.3           | —              | +7000         | —            | —              | Basic RNP1               |
| 003           | TF              | DEMIO               | —        | 255 (247.3)   | -8.1               | 16.2          | —              | +5500         | —            | —              | Basic RNP1               |

CHANGE : Description of VAR.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY28

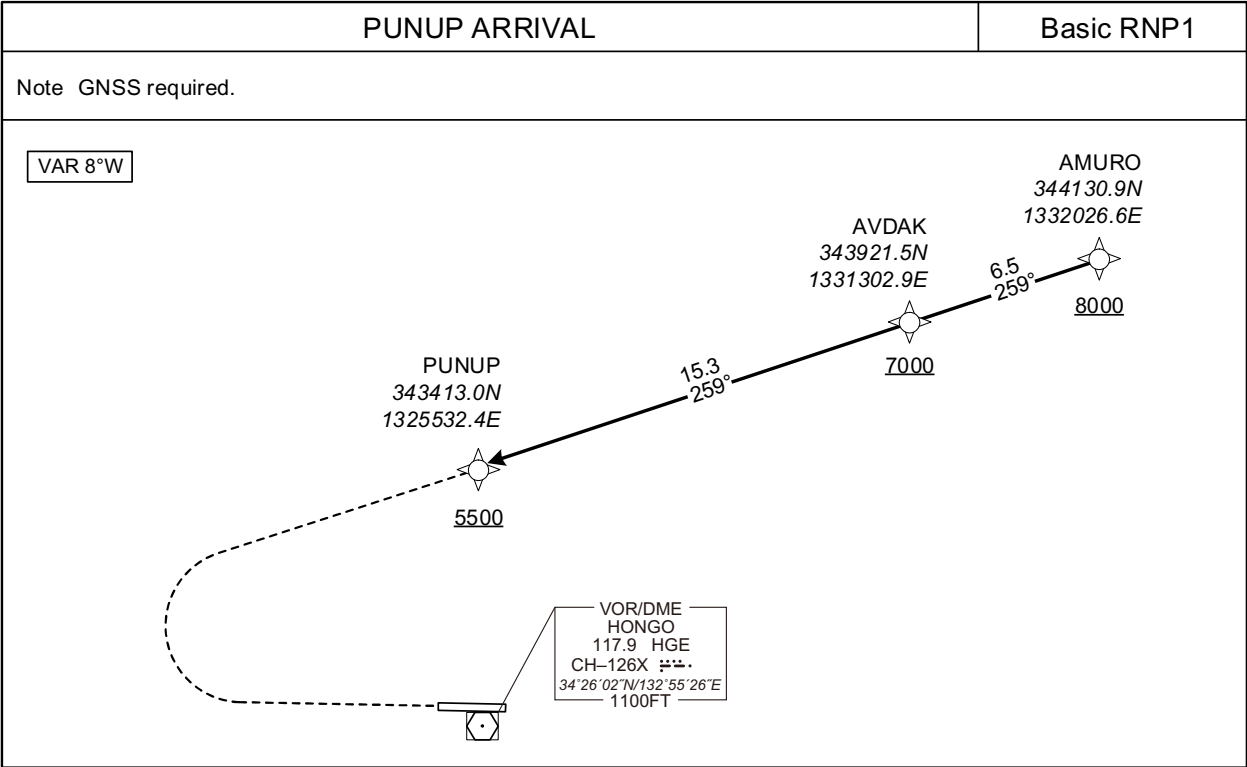


CHANGE : Description of VAR.

STANDARD ARRIVAL CHART -INSTRUMENT

RJOA / HIROSHIMA

RNAV STAR RWY10



From AMURO at or above 8000FT, to AVDAK at or above 7000FT, to PUNUP at or above 5500FT.

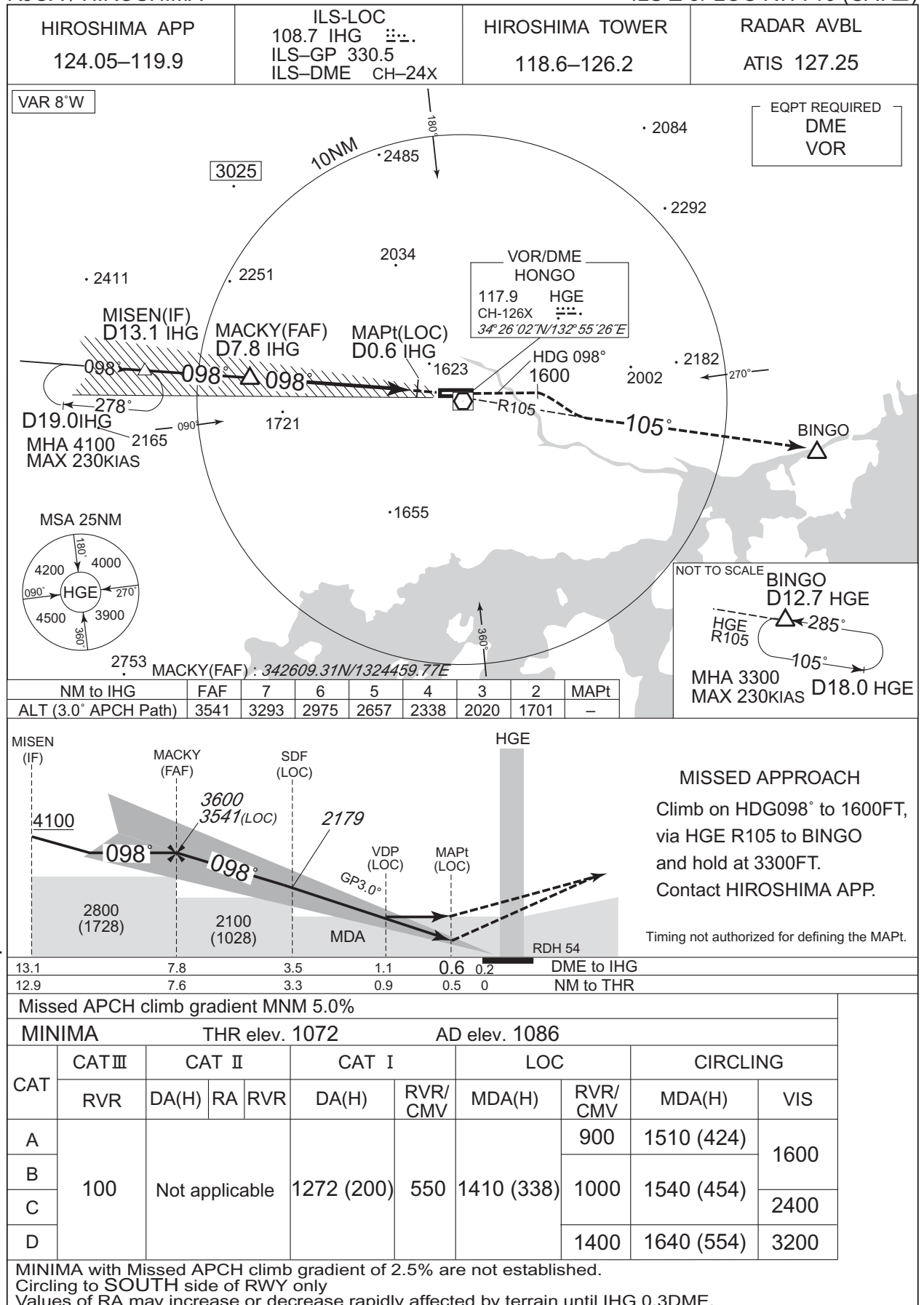
| Serial Number | Path Descriptor | Waypoint Identifier | Fly Over | Course °M(°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|-----------------|---------------------|----------|---------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF              | AMURO               | —        | —             | -8.1               | —             | —              | +8000         | —            | —              | Basic RNP1               |
| 002           | TF              | AVDAK               | —        | 259 (250.5)   | -8.1               | 6.5           | —              | +7000         | —            | —              | Basic RNP1               |
| 003           | TF              | PUNUP               | —        | 259 (250.4)   | -8.1               | 15.3          | —              | +5500         | —            | —              | Basic RNP1               |

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

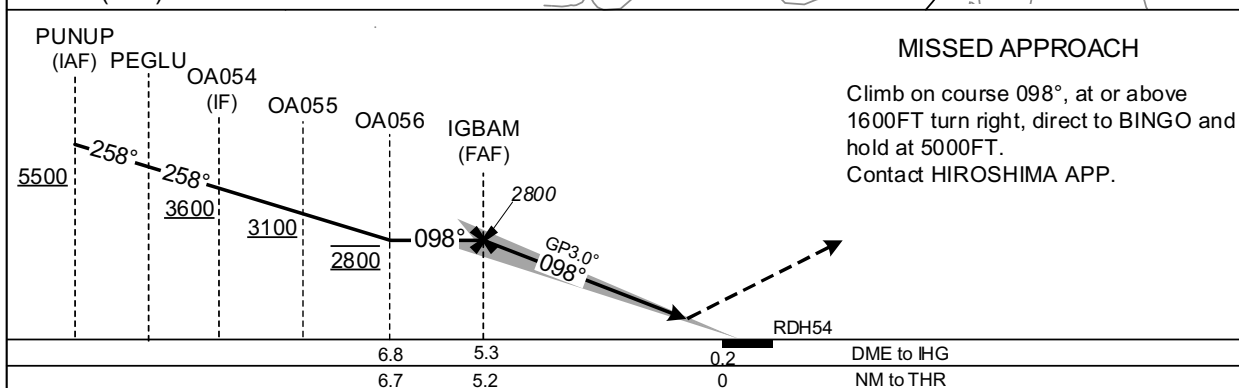
ILS Z or LOC RWY10 (CAT III)



CHANGE : PROC renamed. Description of VAR.

## RJOA / HIROSHIMA

ILS Y RWY10(CATⅢ)



|                                     |         |                |                |     |            |               |            |      |
|-------------------------------------|---------|----------------|----------------|-----|------------|---------------|------------|------|
| Missed APCH climb gradient MNM 5.0% |         |                |                |     |            |               |            |      |
| MINIMA                              |         |                | THR elev. 1072 |     |            | AD elev. 1086 |            |      |
| CAT                                 | CAT III | CAT II         |                |     | CAT I      |               | CIRCLING   |      |
|                                     | RVR     | DA(H)          | RA             | RVR | DA(H)      | RVR/<br>CMV   | MDA(H)     | VIS  |
| A                                   | 100     | Not applicable |                |     | 1272 (200) | 550           | 1510 (424) | 1600 |
| B                                   |         |                |                |     |            |               | 1540 (454) |      |
| C                                   |         |                |                |     |            |               | 2400       |      |
| D                                   |         |                |                |     |            |               | 1640 (554) | 3200 |

MINIMA with Missed APCH climb gradient of 2.5% are not established.  
Circling to SOUTH side of RWY only  
Values of RA may increase or decrease rapidly affected by terrain until IHG 0.3DME.

CHANGE : New PROC.

## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

ILS Y RWY10(CAT III)

Coding Table

| Serial Number | Path Descriptor                    | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | Vertical Angle | Navigation Specification |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------------------|
| 001           | IF                                 | PUNUP               | —        | —              | -8.1               | —             | —              | +5500         | —            | —              | Basic RNP1               |
| 002           | TF                                 | PEGLU               | —        | 258<br>(250.3) | -8.1               | 4.2           | —              | —             | —            | —              | Basic RNP1               |
| 003           | TF                                 | OA054               | —        | 258<br>(250.2) | -8.1               | 5.0           | —              | +3600         | -200         | —              | Basic RNP1               |
| 004           | RF<br>Center:<br>OARF3<br>r=2.55NM | OA055               | —        | —              | -8.1               | 3.6           | L              | +3100         | —            | —              | Basic RNP1               |
| 005           | RF<br>Center:<br>OARF3<br>r=2.55NM | OA056               | —        | —              | -8.1               | 3.5           | L              | 2800          | —            | —              | Basic RNP1               |
| 001           | CA                                 | —                   | —        | 098<br>(090.0) | -8.1               | —             | —              | +1600         | —            | —              | Basic RNP1               |
| 002           | DF                                 | BINGO               | —        | —              | -8.1               | —             | R              | 5000          | —            | —              | Basic RNP1               |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | Navigation Specification |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|--------------|--------------------------|
| Hold | PUNUP               | 258<br>(250.3)        | -8.1               | 1.0(-14000)         | R              | 5500                  | FL140                 | -230(-14000) | Basic RNP1               |
| Hold | BINGO               | 304<br>(296.1)        | -8.1               | 1.0(-14000)         | L              | 5000                  | FL140                 | -210(-14000) | Basic RNP1               |

Waypoint Coordinates

| Waypoint Identifier | Coordinates            | RF Arc Center Identifier | Coordinates            |
|---------------------|------------------------|--------------------------|------------------------|
| PUNUP               | 343412.97N/1325532.36E | OARF3                    | 342842.60N/1324606.23E |
| PEGLU               | 343248.19N/1325045.55E |                          |                        |
| OA054               | 343106.85N/1324503.74E |                          |                        |
| OA055               | 342814.80N/1324304.26E |                          |                        |
| OA056               | 342609.36N/1324606.51E |                          |                        |
| BINGO               | 342425.72N/1331040.68E |                          |                        |

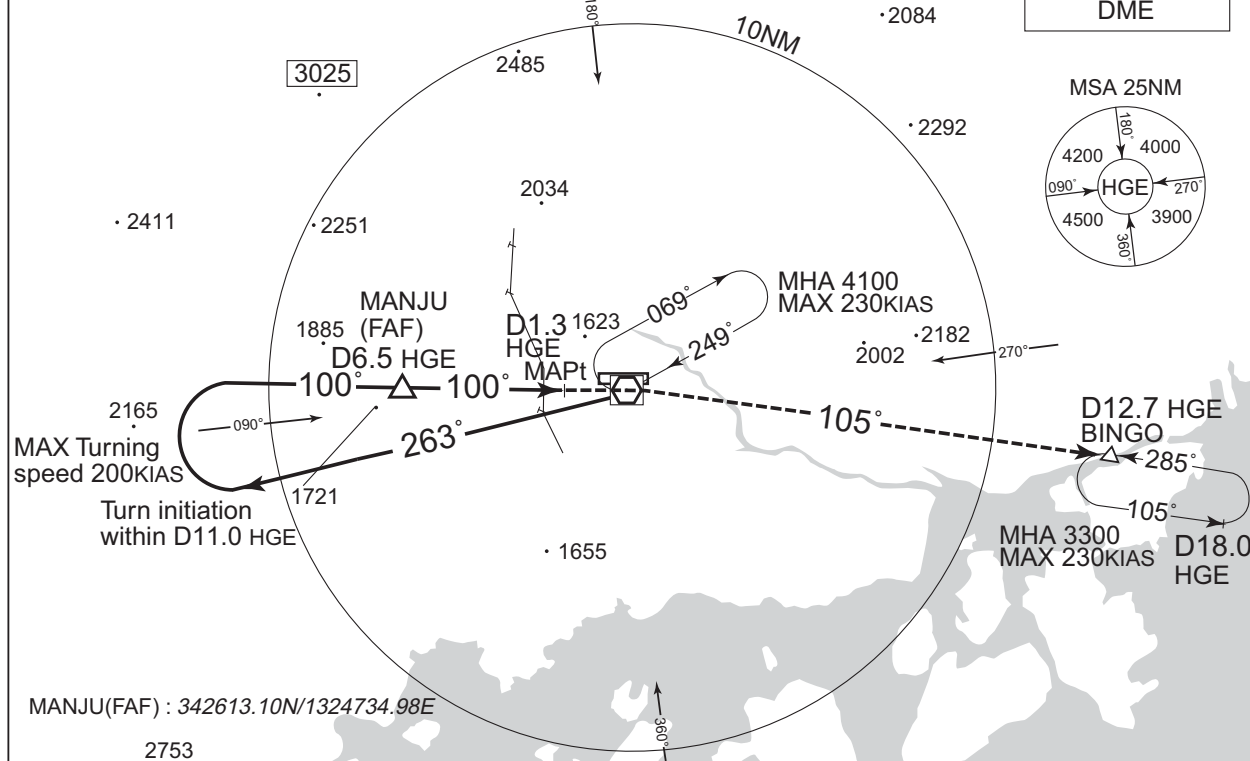
CHANGE : New PROC.

## RJOA / HIROSHIMA

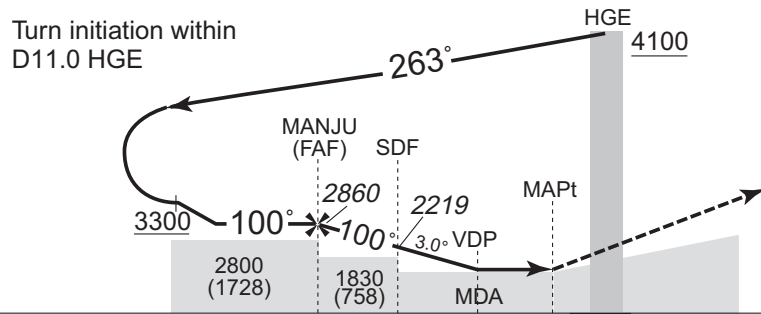
VOR RWY10

VAR 8°W

- EQPT REQUIRED  
DME



|                      |      |      |      |      |      |      |
|----------------------|------|------|------|------|------|------|
| NM to HGE            | FAF  | 6    | 5    | 4    | 3    | MAPt |
| ALT (3.0° APCH Path) | 2860 | 2701 | 2383 | 2064 | 1746 | –    |



MISSED APPROACH  
Climb via HGE R105 to BINGO  
and hold at 3300FT.  
Contact HIROSHIMA APP.

Timing not authorized for defining the MAPt.

|  |     |     |     |     |            |
|--|-----|-----|-----|-----|------------|
|  | 6.5 | 4.5 | 2.6 | 1.3 | DME to HGE |
|  | 5.4 | 3.4 | 1.6 | 0.2 | NM to THR  |

|        |                |               |
|--------|----------------|---------------|
| MINIMA | THR elev. 1072 | AD elev. 1086 |
|--------|----------------|---------------|

| CAT |            |             | CIRCLING   |      |
|-----|------------|-------------|------------|------|
|     | MDA(H)     | RVR/<br>CMV | MDA(H)     | VIS  |
| A   | 1600 (528) | 1000        | 1600 (514) | 1600 |
| B   |            | 1200        |            | 2400 |
| C   |            |             |            |      |
| D   |            | 1600        | 1640 (554) | 3200 |

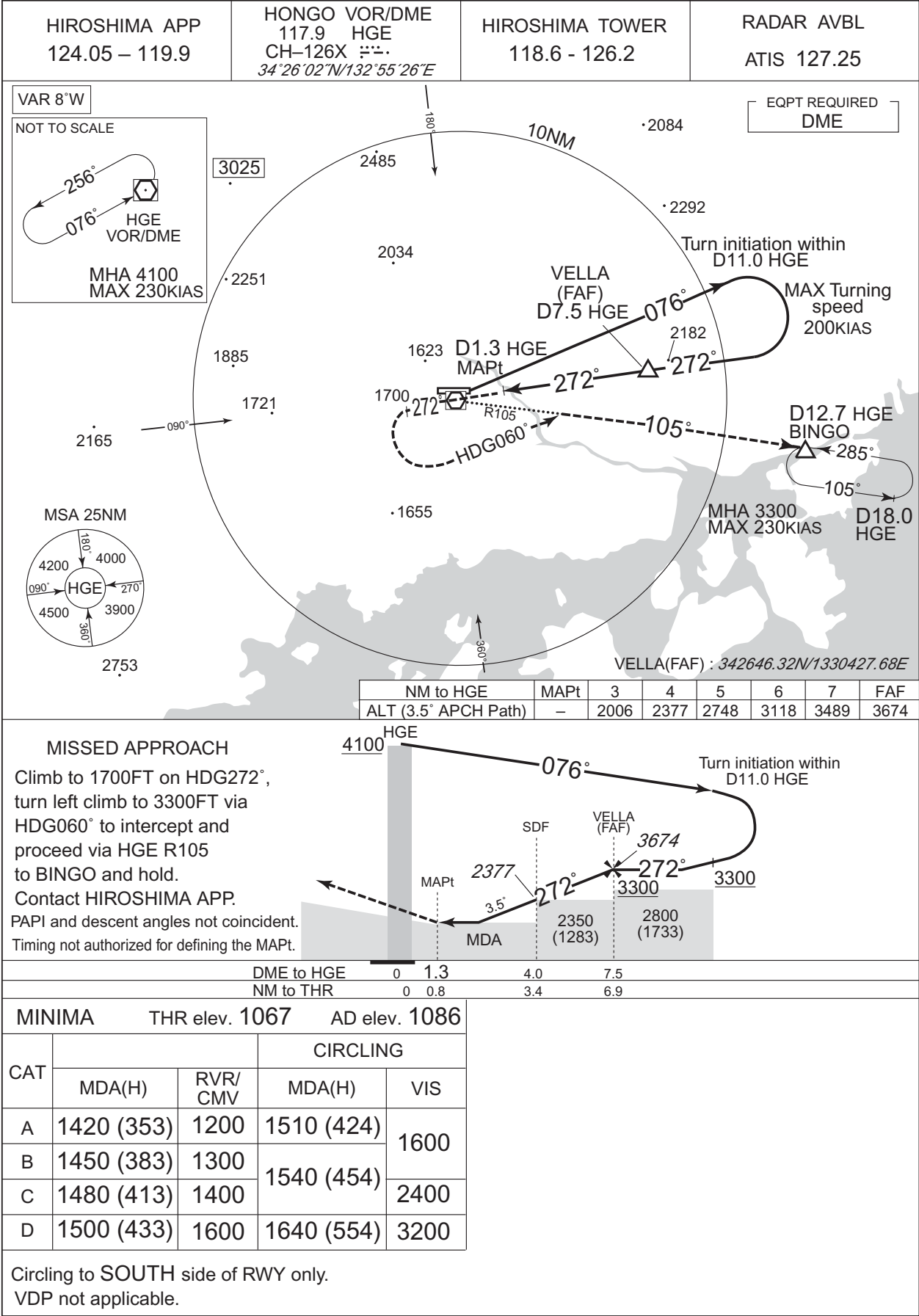
Circling to SOUTH side of RWY only.

CHANGE : Description of VAR.

INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

VOR RWY28





## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP RWY28



INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP Z RWY10(AR)



## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP Z RWY10(AR)

Coding Table

| Serial Number | Path Descriptor                    | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/RDH (°/FT) | RNP Value    |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|----------------|--------------|
| 001           | IF                                 | DEMIO               | -        | -              | -8.1               | -             | -              | +5500         | -            | -              | -            |
| 002           | TF                                 | OA050               | -        | 255<br>(247.1) | -8.1               | 4.5           | -              | +3200         | -185         | -              | 1.0          |
| 003           | RF<br>Center:<br>OARF1<br>r=2.54NM | OA051               | -        | -              | -8.1               | 2.8           | L              | 3200          | -            | -              | 1.0          |
| 004           | RF<br>Center:<br>OARF1<br>r=2.54NM | OA052               | -        | -              | -8.1               | 4.2           | L              | 1874          | -            | -3.00          | 0.10<br>0.30 |
| 005           | TF                                 | RW10                | Y        | 098<br>(090.0) | -8.1               | 2.3           | -              | 1126          | -            | -3.00/54       | 0.10<br>0.30 |
| 006           | TF                                 | OA053               | -        | 098<br>(090.0) | -8.1               | 6.2           | -              | -             | -            | -              | 1.0          |
| 007           | TF                                 | BINGO               | -        | 111<br>(103.2) | -8.1               | 7.6           | -              | 5000          | -            | -              | 1.0          |

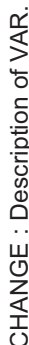
| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|--------------|-----------|
| Hold | DEMIO               | 255<br>(247.1)        | -8.1               | 1.0 (-14000)        | R              | 5500                  | FL140                 | -230(-14000) | 1.0       |
| Hold | BINGO               | 304<br>(296.1)        | -8.1               | 1.0 (-14000)        | L              | 5000                  | FL140                 | -210(-14000) | 1.0       |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| DEMIO               | 343248.47N / 1325512.50E | OARF1                    | 342842.28N / 1325120.72E |
| OA050               | 343102.99N / 1325009.23E |                          |                          |
| OA051               | 342852.58N / 1324816.81E |                          |                          |
| OA052               | 342609.63N / 1325120.84E |                          |                          |
| RW10                | 342609.69N / 1325411.25E |                          |                          |
| OA053               | 342609.67N / 1330143.51E |                          |                          |
| BINGO               | 342425.72N / 1331040.68E |                          |                          |

## RJOA / HIROSHIMA

RNP Y RWY10(AR)



## INSTRUMENT APPROACH CHART

RJOA / HIROSHIMA

RNP Y RWY10(AR)

Coding Table

| Serial Number | Path Descriptor                    | Waypoint Identifier | Fly Over | Course °M(°T)  | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KIAS) | VPA/ RDH (°/FT) | RNP Value    |
|---------------|------------------------------------|---------------------|----------|----------------|--------------------|---------------|----------------|---------------|--------------|-----------------|--------------|
| 001           | IF                                 | AXELA               | -        | -              | -8.1               | -             | -              | +3300         | -            | -               | 1.0          |
| 002           | TF                                 | OA061               | -        | 278<br>(270.0) | -8.1               | 3.5           | -              | +3200         | -185         | -               | 1.0          |
| 003           | RF<br>Center:<br>OARF2<br>r=2.79NM | OA062               | -        | -              | -8.1               | 4.6           | R              | 3200          | -            | -               | 1.0          |
| 004           | RF<br>Center:<br>OARF2<br>r=2.79NM | OA052               | -        | -              | -8.1               | 4.2           | R              | 1874          | -            | -3.00           | 0.10<br>0.30 |
| 005           | TF                                 | RW10                | Y        | 098<br>(090.0) | -8.1               | 2.3           | -              | 1126          | -            | -3.00/54        | 0.10<br>0.30 |
| 006           | TF                                 | OA053               | -        | 098<br>(090.0) | -8.1               | 6.2           | -              | -             | -            | -               | 1.0          |
| 007           | TF                                 | BINGO               | -        | 111<br>(103.2) | -8.1               | 7.6           | -              | 5000          | -            | -               | 1.0          |

| Path | Waypoint Identifier | Inbound Course °M(°T) | Magnetic Variation | Outbound Time (MIN) | Turn Direction | Minimum Altitude (FT) | Maximum Altitude (FT) | Speed (KIAS) | RNP Value |
|------|---------------------|-----------------------|--------------------|---------------------|----------------|-----------------------|-----------------------|--------------|-----------|
| Hold | AXELA               | 278<br>(270.0)        | -8.1               | 1.0 (-14000)        | L              | 3300                  | FL140                 | -230(-14000) | 1.0       |
| Hold | BINGO               | 304<br>(296.1)        | -8.1               | 1.0 (-14000)        | L              | 5000                  | FL140                 | -210(-14000) | 1.0       |

Waypoint Coordinates

| Waypoint Identifier | Coordinates              | RF Arc Center Identifier | Coordinates              |
|---------------------|--------------------------|--------------------------|--------------------------|
| AXELA               | 342034.40N / 1325534.80E | OARF2                    | 342321.96N / 1325120.96E |
| OA061               | 342034.29N / 1325121.21E |                          |                          |
| OA062               | 342334.91N / 1324759.36E |                          |                          |
| OA052               | 342609.63N / 1325120.84E |                          |                          |
| RW10                | 342609.69N / 1325411.25E |                          |                          |
| OA053               | 342609.67N / 1330143.51E |                          |                          |
| BINGO               | 342425.72N / 1331040.68E |                          |                          |



RJOA / HIROSHIMA

Visual REP



※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

CHANGE : VAR.

| Call sign             | BRG / DIST from ARP | Remarks                      |
|-----------------------|---------------------|------------------------------|
| 白竜<br>Hakuryu         | 345°T / 4.3NM       | 湖<br>Lake                    |
| 小佐木<br>Kosagi         | 115°T / 10.1NM      | 小佐木島<br>Kosagi - Island      |
| 竹原<br>Takehara        | 184°T / 5.8NM       | 竹原駅<br>Railway Station       |
| 三永サウス<br>Minaga South | 251°T / 8.4NM       | 東広島駅<br>Railway Station      |
| 新庄<br>Shinjo          | 209°T / 2.9NM       | 新庄交差点<br>Shinjo Intersection |



RJOA / HIROSHIMA

Minimum Vectoring Altitude CHART

VAR 8°W (2022)



CENTER : 342602N/1325458E (RADAR SITE)

CHANGE : VAR.