

AD 2 AERODROMES

RJBD AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJBD - NANKI SHIRAHAMA

RJBD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

| | | |
|---|--|---|
| 1 | ARP coordinates and site at AD | 333944N/1352152E 1.0km from RWY THR |
| 2 | Direction and distance from (city) | 4.1NM S from TANABE |
| 3 | Elevation/ Reference temperature | 293ft / 31°C (2012-2016) |
| 4 | Geoid undulation at AD ELEV PSN | 124ft |
| 5 | MAG VAR/ Annual change | 8°W(2020) / 4'W |
| 6 | AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses | NANKI SHIRAHAMA AIRPORT CO., LTD. 1622-125 Saino, Shirahama-cho, Nishimuro-gun, Wakayama Pref. Tel:0739-43-0095 Fax:0739-43-0091 |
| 7 | Types of traffic permitted (IFR/VFR) | IFR/VFR |
| 8 | Remarks | Civil Aviation Bureau, MLIT Nankishirahama Airport branch 2926 Shirahama-cho, Nishimuro-gun, Wakayama Pref. Tel : 0739-42-3827 |

RJBD AD 2.3 OPERATIONAL HOURS

| | | |
|----|---------------------------|---|
| 1 | AD Administration | 2330 - 1100 |
| 2 | Customs and immigration | On request Customs: 073-492-0280 Immigration: 073-422-8778 |
| 3 | Health and sanitation | Quarantine(human): On request(06-6571-4312) Quarantine(animal, plant): Nil |
| 4 | AIS Briefing Office | Nil |
| 5 | ATS Reporting Office(ARO) | Nil |
| 6 | MET Briefing Office | H24 (KANSAI) |
| 7 | ATS | 2330 - 1100 |
| 8 | Fuelling | Ask AD administration |
| 9 | Handling | Ask AD administration |
| 10 | Security | Ask AD administration |
| 11 | De-icing | Not Available |
| 12 | Remarks | Nil |

RJBD AD 2.4 HANDLING SERVICES AND FACILITIES

| | | |
|---|---|-----------------------------|
| 1 | Cargo-handling facilities | Up to 5t or less |
| 2 | Fuel/ oil types | JET A-1, 100 |
| 3 | Fuelling facilities/ capacity | Fuel truck / Not limitation |
| 4 | De-icing facilities | Nil |
| 5 | Hangar space for visiting aircraft | Ask AD administration |
| 6 | Repair facilities for visiting aircraft | Nil |
| 7 | Remarks | Unable cargo container |

RJBD AD 2.5 PASSENGER FACILITIES

| | | |
|---|----------------------|--------------------|
| 1 | Hotels | Hotels in the city |
| 2 | Restaurants | At Airport |
| 3 | Transportation | Busses, taxis |
| 4 | Medical facilities | Nil |
| 5 | Bank and Post Office | Nil |
| 6 | Tourist Office | Nil |
| 7 | Remarks | Nil |

RJBD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

| | | |
|---|---|---|
| 1 | AD category for fire fighting | CAT 7 |
| 2 | Rescue equipment | Chemical fire fighting truck x 2 Emergency medical equipments conveyance truck x 1 |
| 3 | Capability for removal of disabled aircraft | Nil |
| 4 | Remarks | Nil |

RJBD AD 2.7 SEASONAL AVAILABILITY-CLEARING

| | | |
|---|-----------------------------|----------------|
| 1 | Types of clearing equipment | Not applicable |
| 2 | Clearance priorities | Nil |
| 3 | Remarks | Nil |

RJBD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

| | | |
|---|-------------------------------------|---|
| 1 | Apron surface and strength | <p>SOUTH :</p> <p>Surface : Cement-concrete Strength : PCN 52/R/B/X/T</p> <p>NORTH :</p> <p>Surface : Asphalt-concrete Strength :AUW 5700kg/0.28Mpa</p> |
| 2 | Taxiway width, surface and strength | <p>Surface : Asphalt-concrete</p> <p>WIDTH & STRENGTH</p> <p>S-T : 30m PCN 42/F/A/X/T</p> <p>N-T : 9m AUW 5700kg/0.28Mpa</p> |
| 3 | ACL and elevation | Not available |
| 4 | VOR checkpoints | Not available |
| 5 | INS checkpoints | <p>Spot NR</p> <p>1: 333945.11N 1352140.42E</p> <p>2: 333945.62N 1352138.79E</p> <p>3: 333947.66N 1352137.95E</p> <p>N-2: 333954.93N 1352136.20E</p> <p>N-4: 333956.33N 1352135.43E</p> |
| 6 | Remarks | Nil |

RJBD 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 | Nil |
| 2 | RWY and TWY markings and LGT | <p>RWY:15/33</p> <p>(Marking) RWY designation, RWY CL, RWY THR, RWY middle point, Aiming point, TDZ, RWY side stripe, RWY turn pad edge, RWY turn pad CL</p> <p>(LGT) RCLL, REDL, RTHL, RENL, Turning point indicator LGT</p> <p>TWY:ALL TWY</p> <p>(Marking) TWY CL, RWY HLDG PSN, TWY side stripe</p> <p>(LGT) TWY edge LGT, Taxiing guidance sign</p> <p>TWY:SOUTH TWY</p> <p>(LGT) TWY CL LGT</p> |
| 3 | Stop bars | Nil |
| 4 | Remarks | <p>(Marking) Overrun area</p> <p>(LGT) Apron flood LGT</p> |

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180° turn on RWY

RWY Turn Pads are installed as shown in below figure, and procedures for 180° turn on RWY is established for RWY 15 and 33 as follows :

- a: Proceed along the RWY Center Line to the starting point of the RWY Turn Pad Center Line Marking ; then
- b: Proceed along the RWY Turn Pad Center Line Marking to see the Turning Point Indicator Light 1 on a straight line, then commence turn at the spot where you (pilot) can see Turning Point Indicator Light 2 on a straight line at angle of 9 o'clock. When turning, take MAX STEERING ANGLE.

NANKI-SHIRAHAMA AP

RJBD AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas

| RWY/Area affected | Obstacle type | Coordinates | Elevation | Markings/ LGT | Remarks |
|-------------------|---------------|-------------|-----------|---------------|---------|
| Nil | | | | | |

In circling area and at AD

| Obstacle type | Coordinates | Elevation | Markings/ LGT | Remarks |
|-----------------|------------------|-----------|---------------|--------------------------|
| Mountain forest | 334008N 1352242E | 511ft | - / LIM(Red) | Above horizontal surface |
| Mountain forest | 334005N 1352201E | 535ft | - / LIM(Red) | Above horizontal surface |

RJBD AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

| | | |
|----|--|---|
| 1 | Associated MET Office | KANSAI |
| 2 | Hours of service MET Office outside hours | H24 (KANSAI) |
| 3 | Office responsible for TAF preparation Periods of validity | Nil |
| 4 | Trend forecast Interval of issuance | Nil |
| 5 | Briefing/ consultation provided | Briefing is available upon inquiry at KANSAI |
| 6 | Flight documentation Language(s) used | C En |
| 7 | Charts and other information available for briefing or consultation | S ₆ , U ₈₅ , U ₇ , U ₅ , U ₃ , U ₂₅ , U ₂ /T _r , P _S , P ₅ , P ₃ , P ₂₅ , P _{SWE} , P _{SWF} , P _{SWG} , P _{SWI} , P _{SWM} , P _{SW} (domestic), E, C, W _E , W _F , W _G , W _I , W, N |
| 8 | Supplementary equipment available for providing information | Nil |
| 9 | ATS units provided with information | RADIO |
| 10 | Additional information (limitation of service, etc.) | Nil |

RJBD AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations RWY NR | TRUE BRG | Dimensions of RWY(M) | Strength(PCN) and surface of RWY | THR coordinates THR geoid undulation | THR elevation and highest elevation of TDZ of precision APP RWY |
|------------------------|----------|-------------------------|-------------------------------------|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 15 | 140.97° | 2000×45 | PCN 45/F/B/X/T Asphalt Concrete | 334009.54N 1352127.85E 124ft | THR ELEV: 298ft |
| 33 | 320.97° | 2000×45 | PCN 45/F/B/X/T Asphalt Concrete | 333919.11N 1352216.74E 124ft | THR ELEV: 274ft |
| Slope of RWY | | Strip Dimensions(M) | RESA (Overrun) Dimensions(M) | Remarks | |
| 7 | | 10 | 11 | 14 | |
| See AD Chart | | 2120×150 | 40×150 | RWY Grooving 2000×30m | |
| See AD Chart | | 2120×150 | 40×150 | RWY Grooving 2000×30m | |

RJBD AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA (m) | TODA (m) | ASDA (m) | LDA (m) | Remarks |
|----------------|-------------|-------------|-------------|------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 15 | 2000 | 2000 | 2000 | 2000 | Nil |
| 33 | 2000 | 2000 | 2000 | 2000 | Nil |

RJBD AD 2.14 APPROACH AND RUNWAY LIGHTING

| RWY Designator | APCH LGT type LEN INTST | RTHL Color WBAR | PAPI (VASIS) Angle DIST FM THR MEHT | RTZL LEN | RCLL LEN Spacing Color INTST | REDL LEN Spacing Color INTST | RENL Color WBAR | STWL LEN Color |
|---|----------------------------|--------------------|--|-------------|--|---|-----------------------|----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 15 | SALS (*1) 420 LIH | Green | PAPI 3.0°/LEFT 385.4m 61ft | Nil | 2000m 30m Coded color (Whitel/Red) LIH | 2000m 60m Coded color (Whitel/Yellow) LIH | Red | Nil (*2) |
| 33 | Nil | Green | PAPI 3.0°/LEFT 336.8m 61ft | Nil | 2000m 30m Coded color (Whitel/Red) LIH | 2000m 60m Coded color (Whitel/Yellow) LIH | Red | Nil (*2) |
| Remarks | | | | | | | | |
| 10 | | | | | | | | |
| SALS with RAI(LEN:360m)(*1) Overrun area edge LGT(LEN: 60m Color: Red)(*2) CGL for RWY 33 RWY THR ID LGT for RWY 33 THR (Color: White) | | | | | | | | |

RJBD AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

| | | |
|---|--|--|
| 1 | ABN/IBN location, characteristics and hours of operation | ABN: 333939N/1352142E, White/Green EV4.3sec, HO |
| 2 | LDI location and LGT Anemometer location and LGT | Anemometer : RWY 15 : 250m from RWY 15 THR, LGTD RWY 33 : 300m from RWY 33 THR, LGTD |
| 3 | TWY edge and centerline lighting | TWY edge LGT: Blue TWY CL LGT: South TWY only, ALTN Green/Yellow FM RWY leaving report point, other Green |
| 4 | Secondary power supply/ switch-over time | Within 15 sec: SALS, PAPI, REDL, RTHL, CGL, RAI, REDL, RWY THR ID LGT, RCLL, Overrun area edge LGT, TWY edge LGT, TWY CL LGT, Taxing guidance sign, Turning point indicator LGT, WDI LGT, ABN, Apron flood LGT |
| 5 | Remarks | WDI LGT |

RJBD AD 2.16 HELICOPTER LANDING AREA

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

RJBD AD 2.17 ATS AIRSPACE

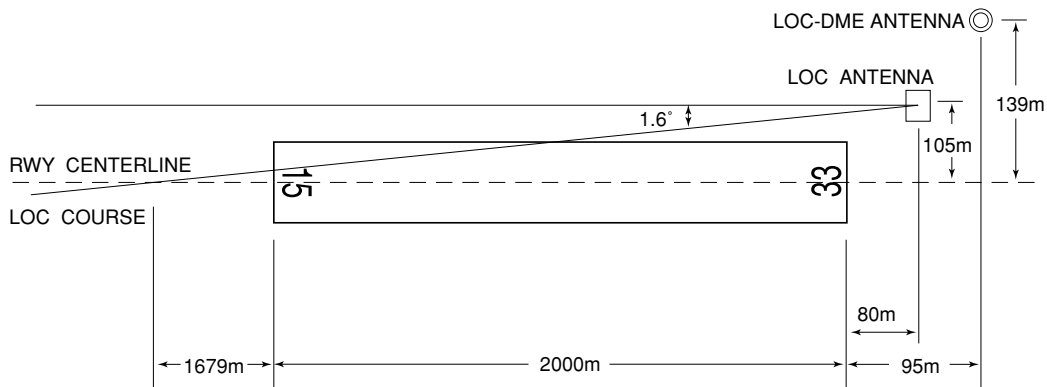
| Designation and lateral limits | | Vertical limits (ft) | Airspace classification | ATS unit call sign Language | Remarks |
|---------------------------------|---|----------------------|-------------------------|-----------------------------|---------|
| 1 | | 2 | 3 | 4 | 6 |
| Nankishirahama Information zone | Area within a radius of 9km(5NM) of ARP | 3,000 or below | E | NANKI SHIRAHAMA RADIO En | |

RJBD AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign | Frequency | Hours of operation | Remarks |
|---------------------|-------------|--------------------------|--------------------|------------|
| 1 | 2 | 3 | 4 | 5 |
| AFIS | Nanki Radio | 118.55MHz(1) 126.2MHz | 2330 - 1100 | (1)Primary |

RJBD AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid (VOR declination) | ID | Frequency | Hours of operation | Position of transmitting antenna coordinates | Elevation of DME transmitting antenna | Remarks |
|----------------------------------|-----|----------------------|-----------------------|---|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| VOR (7°W/2012) | NKE | 109.05MHz | H24 | 333940.55N/ 1352133.89E | | |
| DME | NKE | 1114MHz (CH-27Y) | H24 | 333940.55N/ 1352133.89E | 338ft | |
| LOC 15 | INK | 108.55MHz | 2330 - 1100 | 333919.24N/ 1352221.36E | | LOC: 80m(262ft) away FM RWY 33 THR, 105m(344ft) E of RCL, BRG(MAG)146° LOC off set angle 1.6° |
| LOC-DME 15 | INK | 1109 MHz (CH-22Y) | 2330 - 1100 | 333919.54N/ 1352223.22E | 285ft | DME: 95m(312ft)away FM RWY 33 THR, 139m (456ft) E of RCL. |
| MSAS | | 1575.42MHz | H24 | | | Transmitting antennas are satellite based |



| | | |
|-----------|----------------------|--------------|
| REMARKS : | 1. LOC OFF SET ANGLE | 1.6° |
| | 2. LOC beam BRG(MAG) | 146° |
| | 3. ELEV of LOC-DME | 86.6m(285ft) |

RJBD AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

For the use of this AP:PPR (tel 0739-43-0095)

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

Nil

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

RJBD AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJBD AD 2.22 FLIGHT PROCEDURES**TAKE OFF MINIMA**

| | RWY | ACFT CAT | REDL & RCLL | | REDL or RCLL or RCL Marking | | NIL (DAYTIME ONLY) | |
|--|-----|-------------|-----------------|------------|--------------------------------|------------|-----------------------|------------|
| | | | CEIL-RVR | CEIL-VIS | CEIL-RVR | CEIL-VIS | CEIL-RVR | CEIL-VIS |
| Multi-Engine ACFT with TKOF ALTN AP FILED | 15 | A,B,C,D | - | 0'-400m | - | 0'-400m | - | 0'-500m |
| | 33 | A,B,C,D | - | 200'-2400m | - | 200'-2400m | - | 200'-2400m |
| OTHER | 15 | A,B,C,D | AVBL LDG MINIMA | | | | | |
| | 33 | A,B,C,D | | | | | | |

RJBD AD 2.23 ADDITIONAL INFORMATION

Nil

RJBD AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome/Heliport Chart
 Standard Departure Chart - Instrument (NANKI)
 Standard Departure Chart - Instrument (KUSHIMOTO-RNAV)
 Standard Arrival Chart - Instrument (RAYJO-RNAV)
 Instrument Approach Chart (LOC RWY15)
 Instrument Approach Chart (VOR RWY15)
 Instrument Approach Chart (VOR A)
 Instrument Approach Chart (RNP RWY15)
 Instrument Approach Chart (RNP RWY33)
 Other Chart (Visual REP)
 Other Chart (LDG CHART)
 Other Chart (MVA CHART)

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AD CHART



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STANDARD DEPARTURE CHART - INSTRUMENT

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SID

NANKI REVERSAL THREE DEPARTURE

RWY15 : Climb on HDG163° to NKE 4.0DME, turn right,...

RWY33 : Climb RWY HDG to 1500FT, turn left,....

...direct to NKE VOR/DME.

Cross NKE VOR/DME at or above 4000FT.

Note RWY15 : 5.8% climb gradient required up to 1300FT.

OBST ALT 984FT located at 3.1NM 139° FM end of RWY15.



STANDARD DEPARTURE CHART - INSTRUMENT

RJBD / NANKI-SHIRAHAMA

RNAV SID

KUSHIMOTO ONE DEPARTURE

Basic RNP1

Note GNSS required.



KUSHIMOTO ONE DEPARTURE

RWY15 : Climb on HDG148° at or above 2100FT, turn left direct to KEC.

RWY33 : Climb on HDG328° at or above 800FT, turn left direct to BD300, to BD301 at or above 5000FT, to KEC.

Note RWY15 : 6.1% climb gradient required up to 2100FT.

OBST ALT 1641FT located at 4.3NM 138° FM end of RWY15.

OBST ALT 1903FT located at 4.2NM 119° FM end of RWY15.

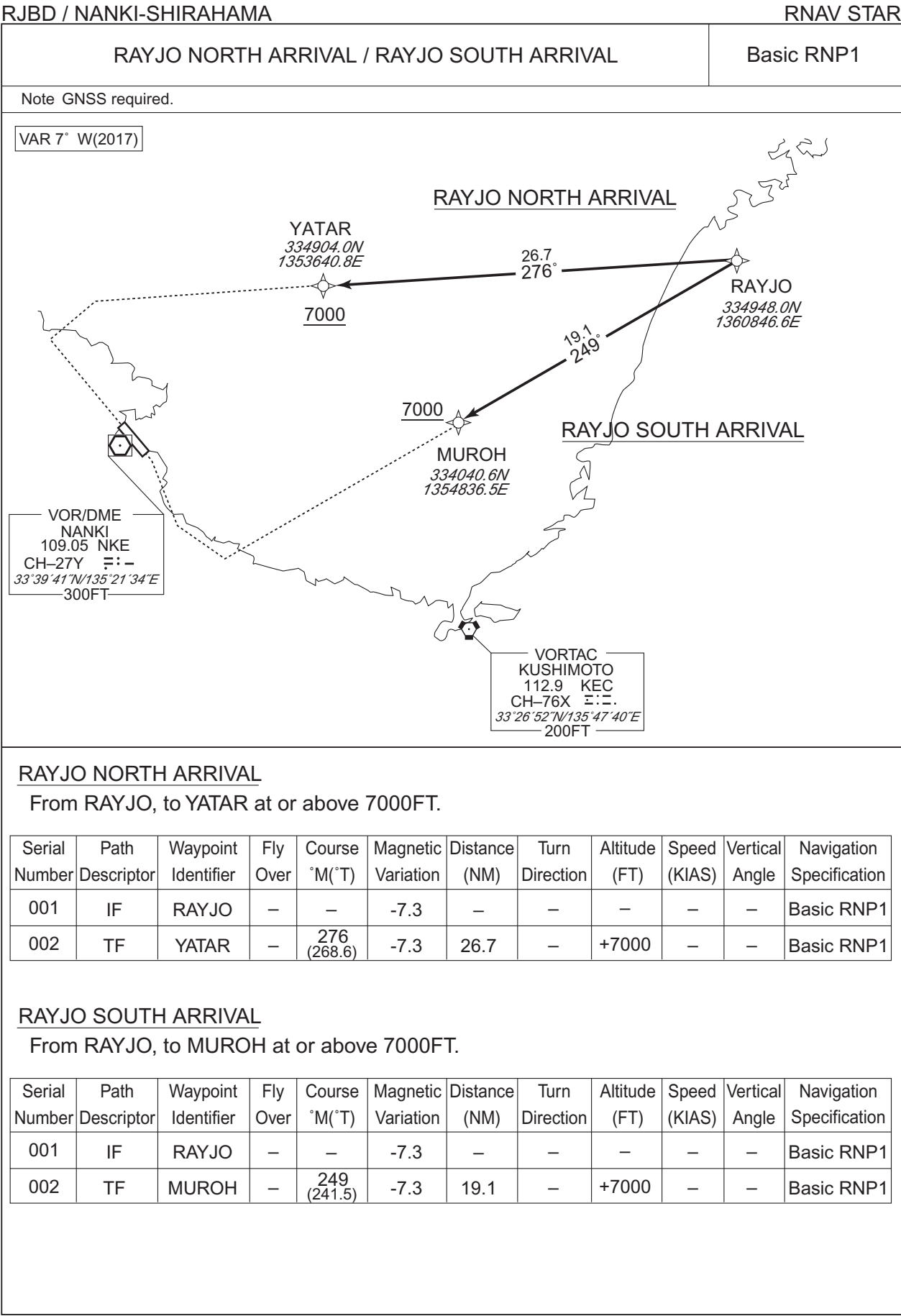
RWY15

| 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 | - | - | 148 (140.1) | -7.3 | - | - | +2100 | - | - | Basic RNP1 |
| 002 | DF | KEC | - | - | -7.3 | - | L | - | - | - | Basic RNP1 |

RWY33

| 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 | - | - | 328 (321.1) | -7.3 | - | - | +800 | - | - | Basic RNP1 |
| 002 | DF | BD300 | - | - | -7.3 | - | L | - | - | - | Basic RNP1 |
| 003 | TF | BD301 | - | 116 (108.7) | -7.3 | 7.3 | - | +5000 | - | - | Basic RNP1 |
| 004 | TF | KEC | - | 116 (108.8) | -7.3 | 20.3 | - | - | - | - | Basic RNP1 |

STANDARD ARRIVAL CHART - INSTRUMENT

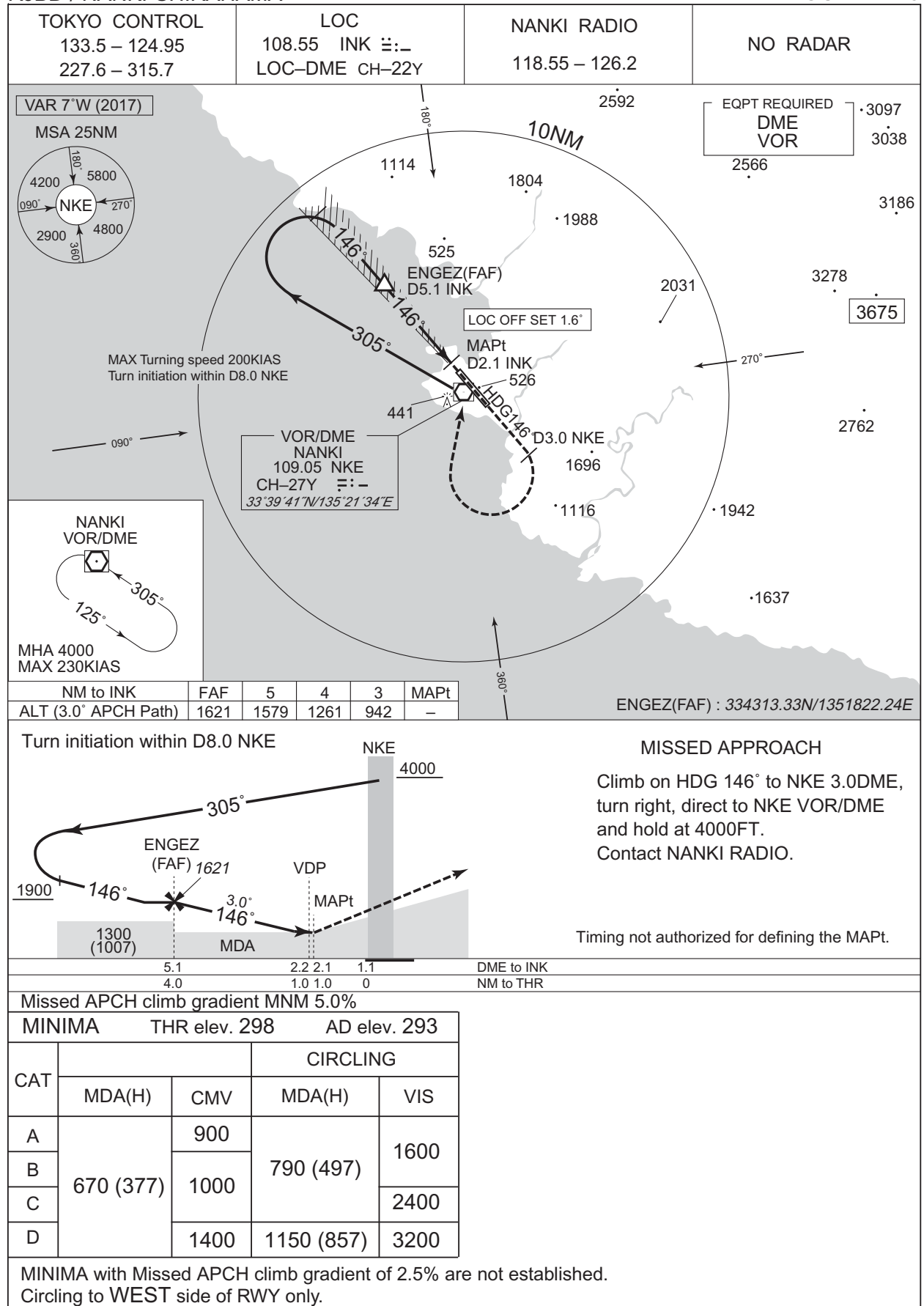


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INSTRUMENT APPROACH CHART

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LOC RWY15



INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA

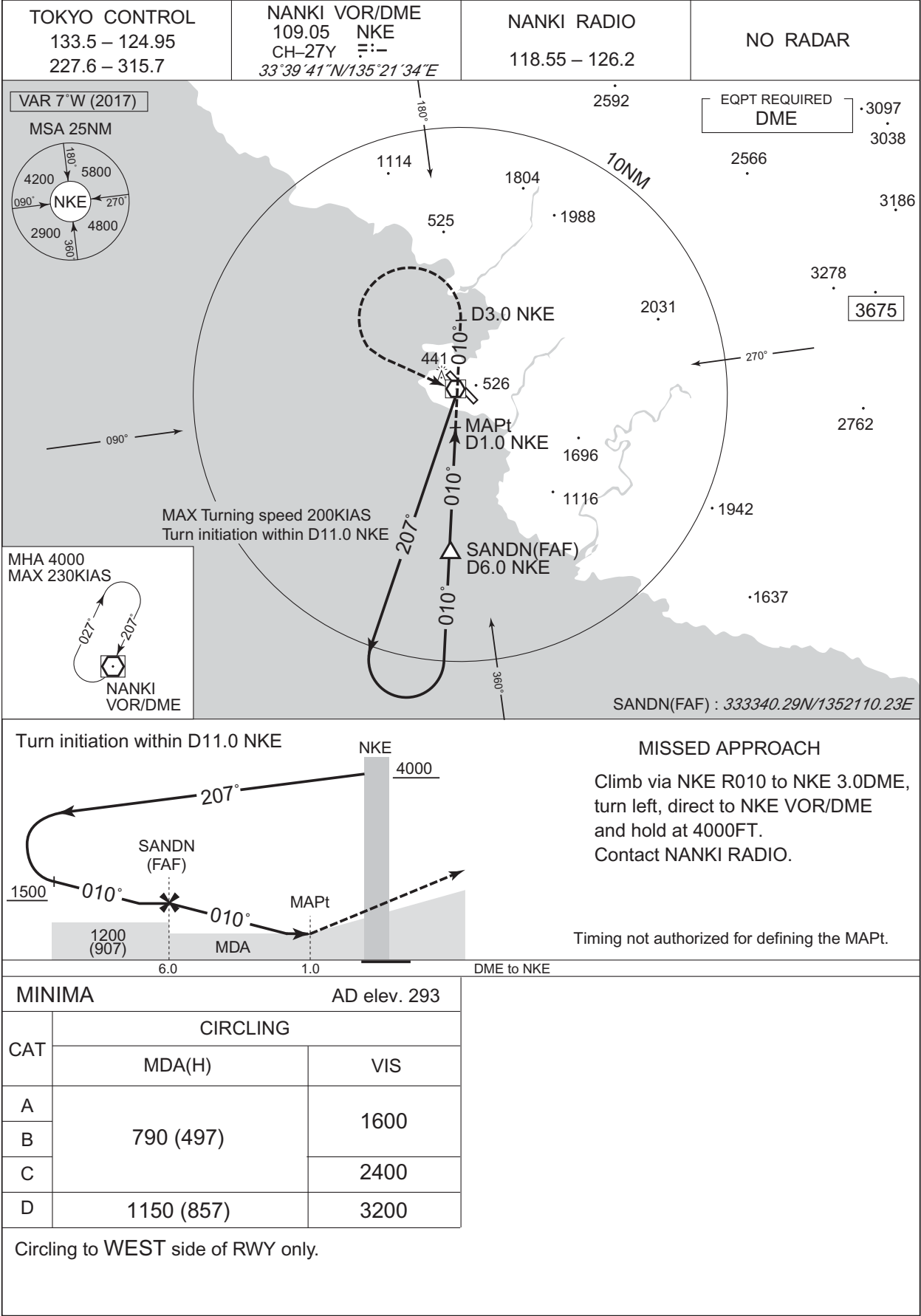
VOR RWY15



INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA

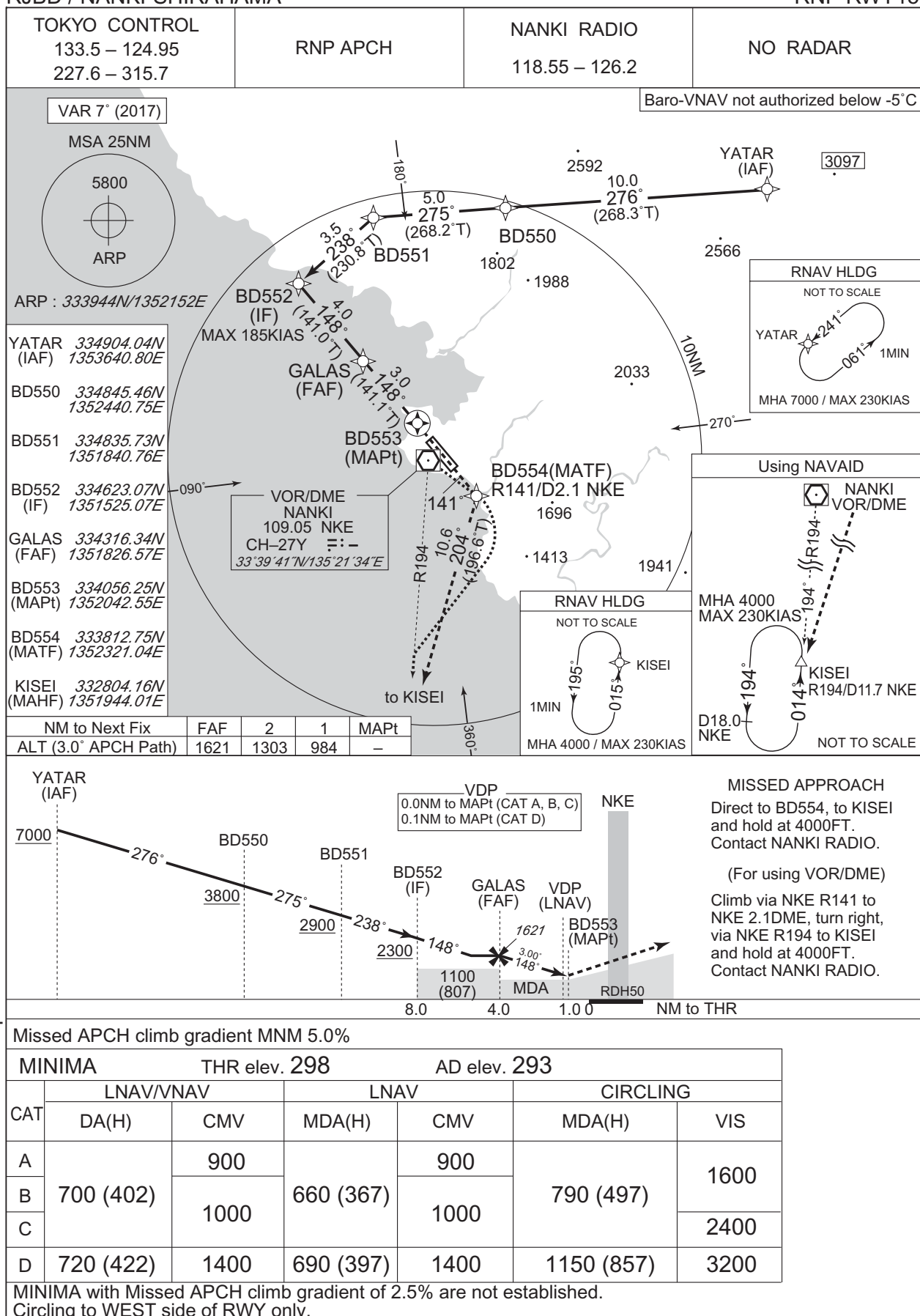
VOR A



INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA

RNP RWY15



CHANGE:PROC renamed. Requirement for RNP.

INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA

RNP RWY33

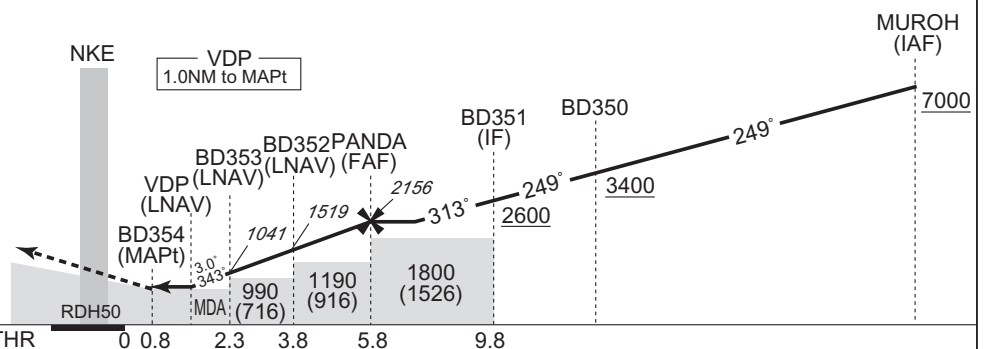


CHANGE:PROC renamed. Requirement for RNP.

MISSED APPROACH
 Turn left direct to KISEI and hold at 4000FT.
 Contact NANKI RADIO.

(For using VOR/DME)

Turn left HDG 149° to intercept and proceed via NKE R194 to KISEI and hold at 4000FT.
 Contact NANKI RADIO.



| MINIMA | | THR elev. 274 | | AD elev. 293 | | |
|--------|----------------|---------------|-----------|--------------|------------|------|
| CAT | LNAV/VNAV | | LNAV | | CIRCLING | |
| | DA(H) | CMV | MDA(H) | CMV | MDA(H) | VIS |
| A | Not applicable | | 860 (586) | 1500 | 860 (567) | 1600 |
| B | | | | 2000 | | 2400 |
| C | | | | | 1150 (857) | |
| D | | | | | | |

Circling to WEST side of RWY only.

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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 : Map updated. BRG/DIST from ARP.

| Call sign | BRG / DIST from ARP | Remarks |
|--------------|---------------------|------------------------|
| 切目 Kirime | 318°T / 9.9NM | 岬 Cape |
| 南部 Minabe | 342°T / 6.6NM | JR駅 Station |
| 生馬 Ikuma | 062°T / 3.8NM | 橋 Truss-bridge |
| 合川 Gogawa | 083°T / 10.0NM | ダム Dam |
| 10NM W | 270°T / 10.0NM | 海上 Over the Sea |
| 椿 Tsubaki | 161°T / 3.7NM | 高層ビル High Building |
| 日置 Hiki | 143°T / 7.2NM | 日置川河口中洲 River-mouth |



注：南紀白浜空港の西側に廃止された滑走路が(なお、禁止標識が5カ所設置されている)視認できる状態にあるので、南紀白浜空港に着陸する航空機は当該滑走路と誤認しないように注意すること。

NOTE : There is remained the abolished runway with 5 cross[×] markings at west side of Nanki-Shirahama Airport. As the abolished runway in shape is visible, the aircraft which will land on Nanki-Shirahama Airport shall pay a special attention not to confuse the runway.

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Minimum Vectoring Altitude CHART



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