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	Civl 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	SOUTH : Surface : Cement-concrete Strength : PCR 841/R/B/W/T NORTH : Surface : Asphalt-concrete Strength :AUW 5700kg/0.48MPa
2	Taxiway width, surface and strength	Surface : Asphalt-concrete WIDTH & STRENGTH S-T : 30m PCR 426/F/B/X/T N-T : 9m AUW 5700kg/0.48MPa
3	ACL and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	Spot NR 1: *333944.38N 1352139.96E* 2: *333945.62N 1352138.79E* 3: *333947.66N 1352137.95E* N-2: *333954.93N 1352136.20E* N-4: *333956.33N 1352135.43E*
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	RWY:15/33 (Marking) RWY designation, RWY CL, RWY THR, RWY middle point, Aiming point, TDZ, RWY side stripe, RWY turn pad edge, RWY turn pad CL (LGT) RCLL, REDL, RTHL, RENL, Turning point indicator LGT TWY:ALL TWY (Marking) TWY CL, RWY HLDG PSN, TWY side stripe (LGT) TWY edge LGT, Taxiing guidance sign TWY:SOUTH TWY (LGT) TWY CL LGT
3	Stop bars	Nil
4	Remarks	(Marking) Overrun area (LGT) Apron flood LGT

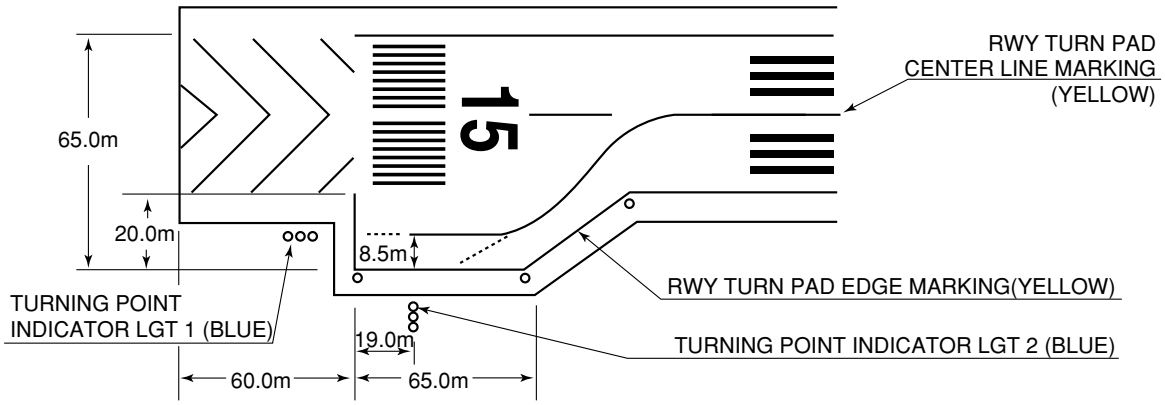
RJBD / NANKI-SHIRAHAMA 180˚ turn on RWY

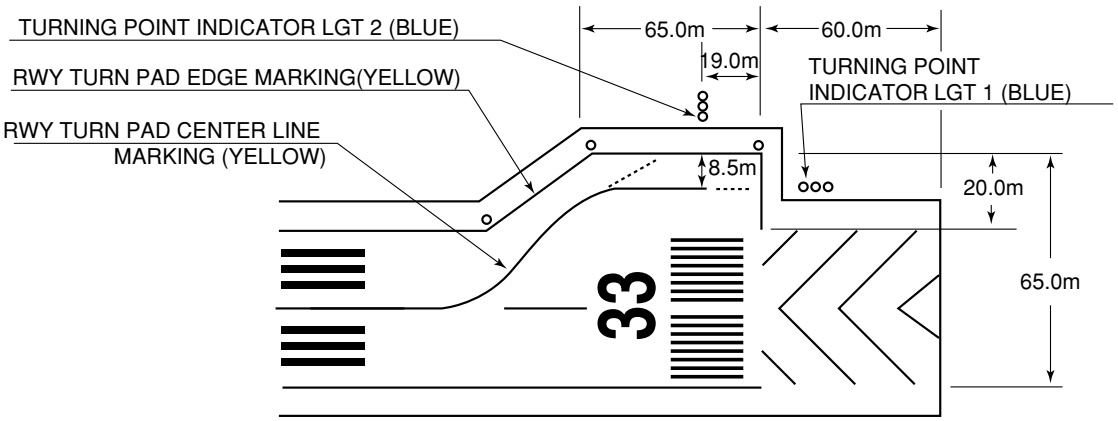
RWY Turn Pads are installed as shown in below figure, and procedures for 180˚ turn on RWY is established for RWY 15 and 33 as follows :

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(PCR) 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	PCR 459/F/B/X/T Asphalt Concrete	*334009.54N* *1352127.85E* 124ft	THR ELEV: 298ft
33	320.97°	2000×45	PCR 459/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 and center line lights installed, see AD2.9
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

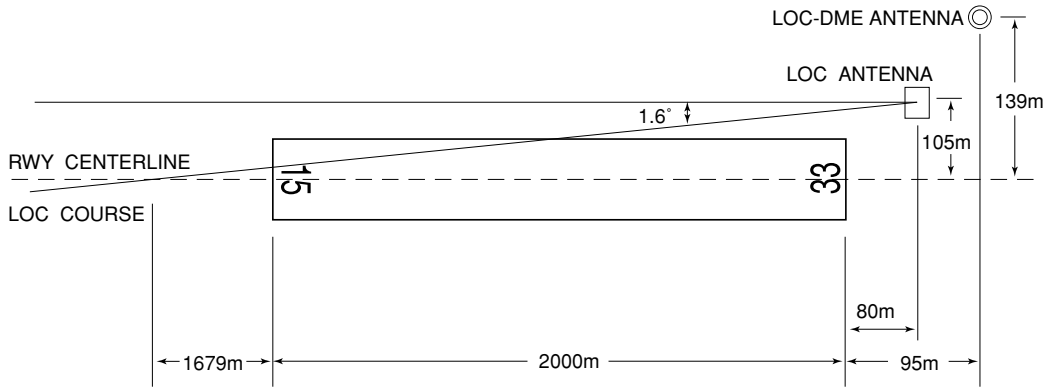
Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
Nankishirahama Information zone	Area within a radius of 9km(5NM) of ARP	3,000 or below	E	NANKI SHIRAHAMA RADIO En	

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

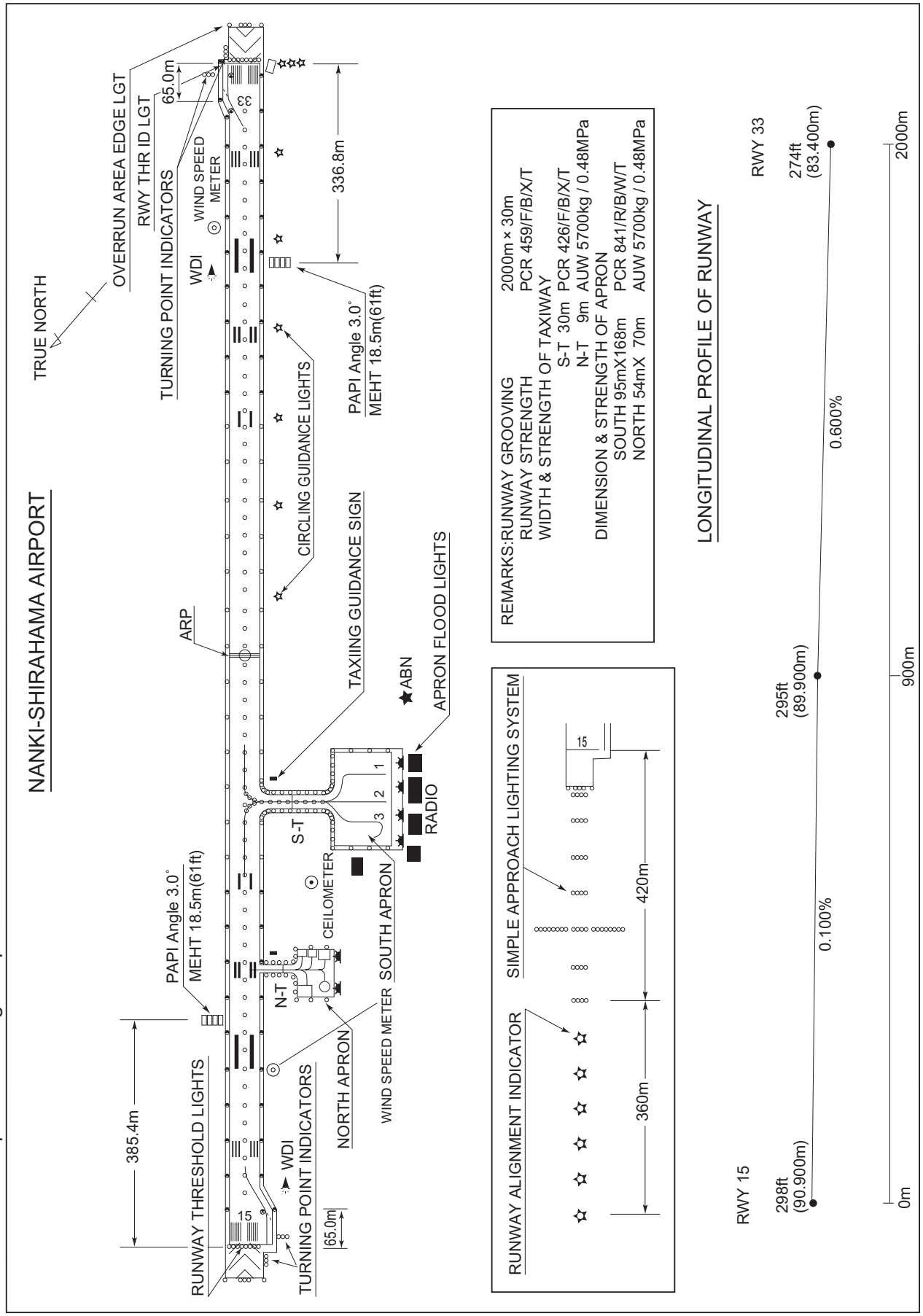
Nil

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 Z RWY15 (AR))
Instrument Approach Chart (RNP Y RWY15)
Instrument Approach Chart (RNP Z RWY33 (AR))
Instrument Approach Chart (RNP Y RWY33)
Other Chart (Visual REP)
Other Chart (LDG CHART)
Other Chart (MVA CHART)

RJBD / NANKI-SHIRAHAMA AD CHART

CHANGE : Description of strength of pavement.



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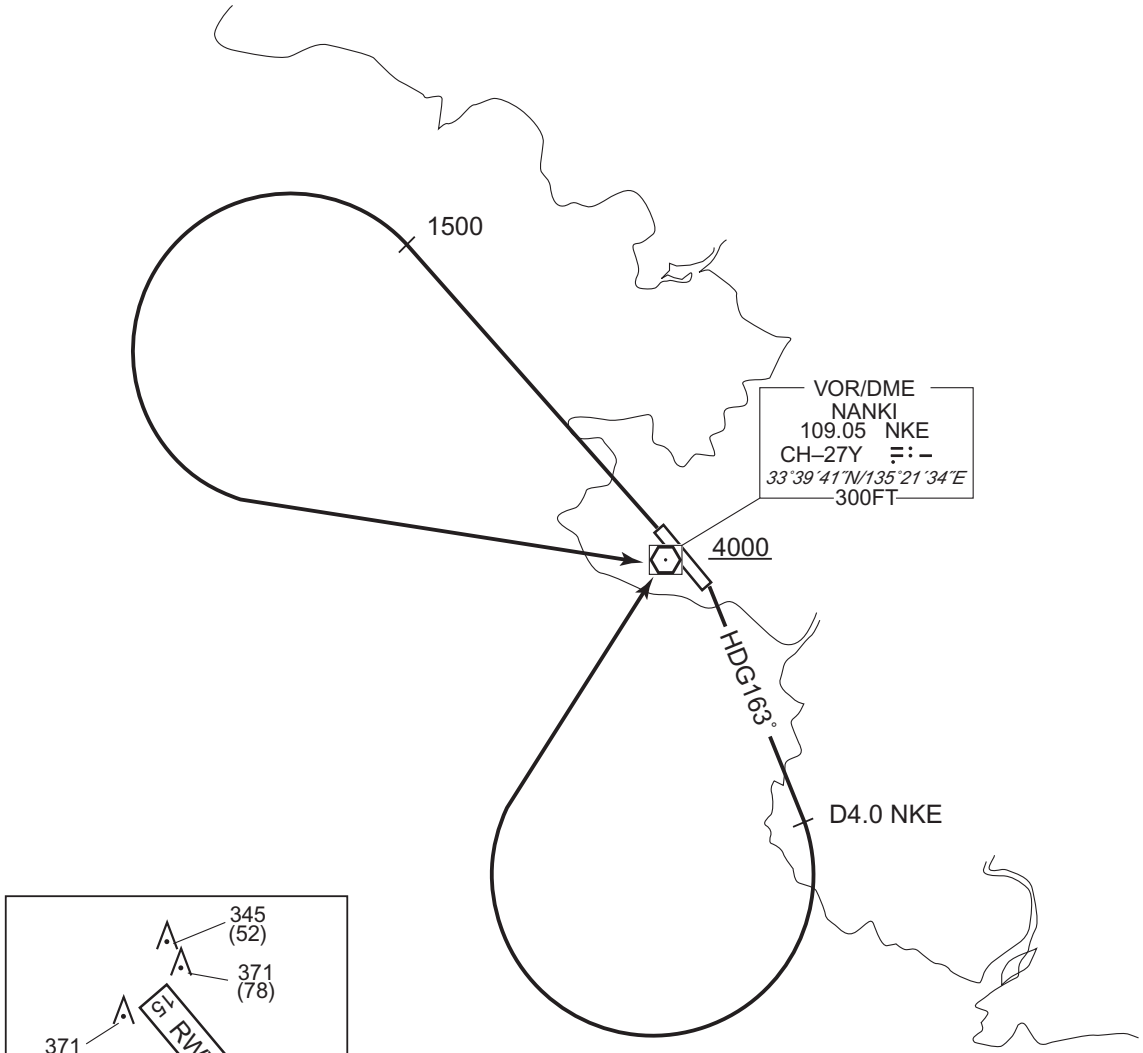
STANDARD DEPARTURE CHART - INSTRUMENT

RJBD / NANKI-SHIRAHAMA 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.



RWY33 : See TAKE OFF MINIMA

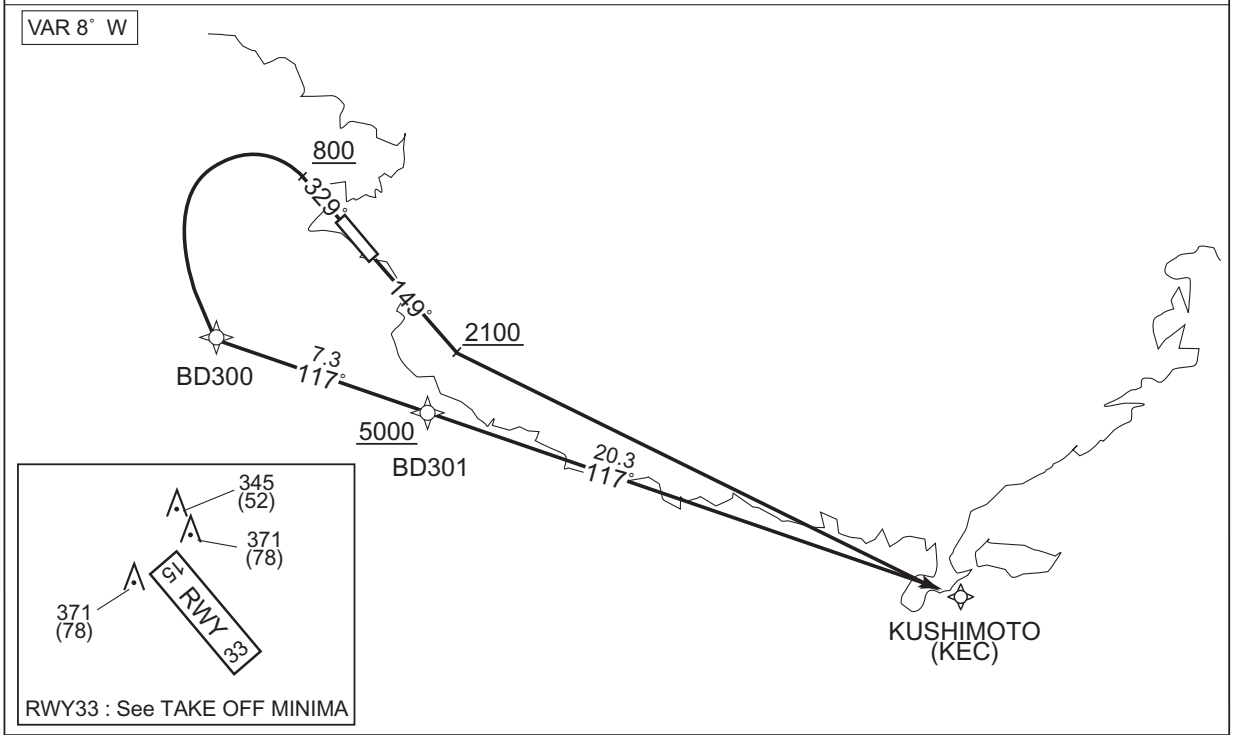
CHANGE : Description of PROC name.

STANDARD DEPARTURE CHART - INSTRUMENT

RJBD / NANKI-SHIRAHAMA RNAV SID

KUSHIMOTO TWO DEPARTURE	RNP1

Note GNSS required.



RWY15 : Climb on HDG149° at or above 2100FT, turn left direct to KEC.
RWY33 : Climb on HDG329° 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 139° 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	–	–	149 (141.1)	-7.9	–	–	+2100	–	–	RNP1
002	DF	KEC	–	–	-7.9	–	L	–	–	–	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	–	–	329 (321.1)	-7.9	–	–	+800	–	–	RNP1
002	DF	BD300	–	–	-7.9	–	L	–	–	–	RNP1
003	TF	BD301	–	117 (108.7)	-7.9	7.3	–	+5000	–	–	RNP1
004	TF	KEC	–	117 (108.8)	-7.9	20.3	–	–	–	–	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
BD300	*333545.0N / 1351624.4E*
BD301	*333324.8N / 1352441.1E*
KEC	*332651.9N / 1354740.2E*

CHANGE : PROC renamed. VAR. PROC course. Waypoint Coordinates added.

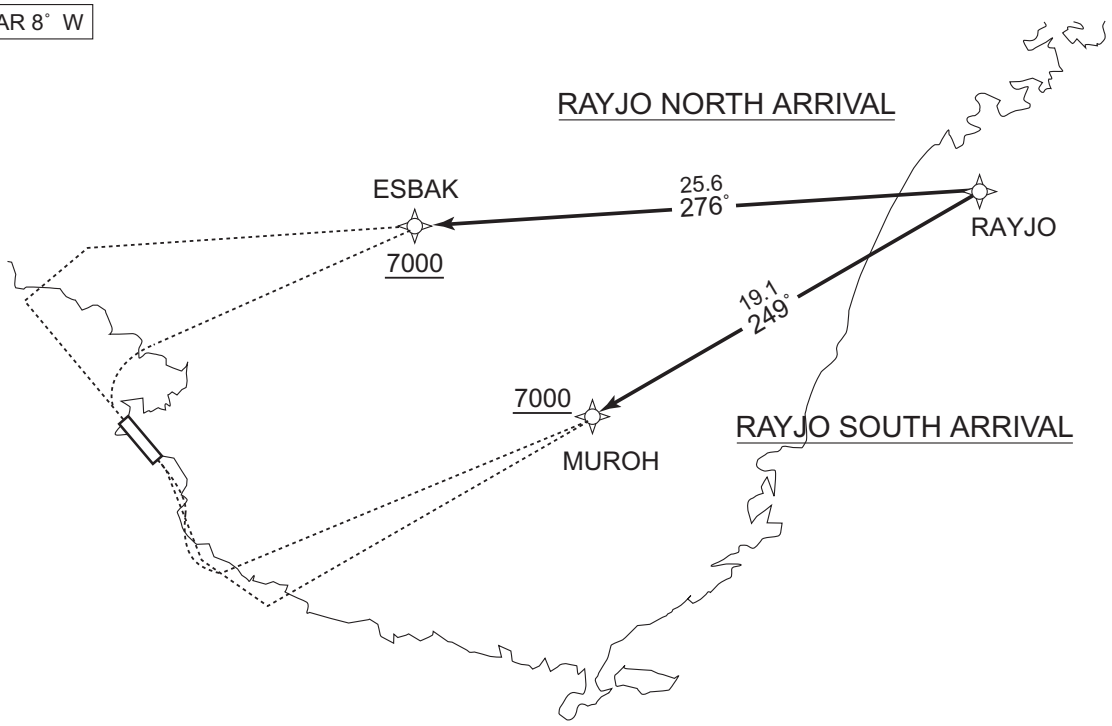
STANDARD ARRIVAL CHART - INSTRUMENT

RJBD / NANKI-SHIRAHAMA RNAV STAR

RAYJO NORTH ARRIVAL / RAYJO SOUTH ARRIVAL	RNP1

Note GNSS required.

VAR 8° W



CHANGE : VAR. PROC course. ESBAK established. YATAR abolished. Waypoint Coordinates added.

RAYJO NORTH ARRIVAL

From RAYJO, to ESBAK at or above 7000FT.

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	RAYJO	–	–	-7.9	–	–	–	–	–	RNP1
002	TF	ESBAK	–	276 (268.6)	-7.9	25.6	–	+7000	–	–	RNP1

RAYJO SOUTH ARRIVAL

From RAYJO, to MUROH at or above 7000FT.

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	RAYJO	–	–	-7.9	–	–	–	–	–	RNP1
002	TF	MUROH	–	249 (241.5)	-7.9	19.1	–	+7000	–	–	RNP1

Waypoint Coordinates

Waypoint Identifier	Coordinates
RAYJO	*334948.0N / 1360846.6E*
ESBAK	*334906.0N / 1353758.6E*
MUROH	*334040.6N / 1354836.5E*

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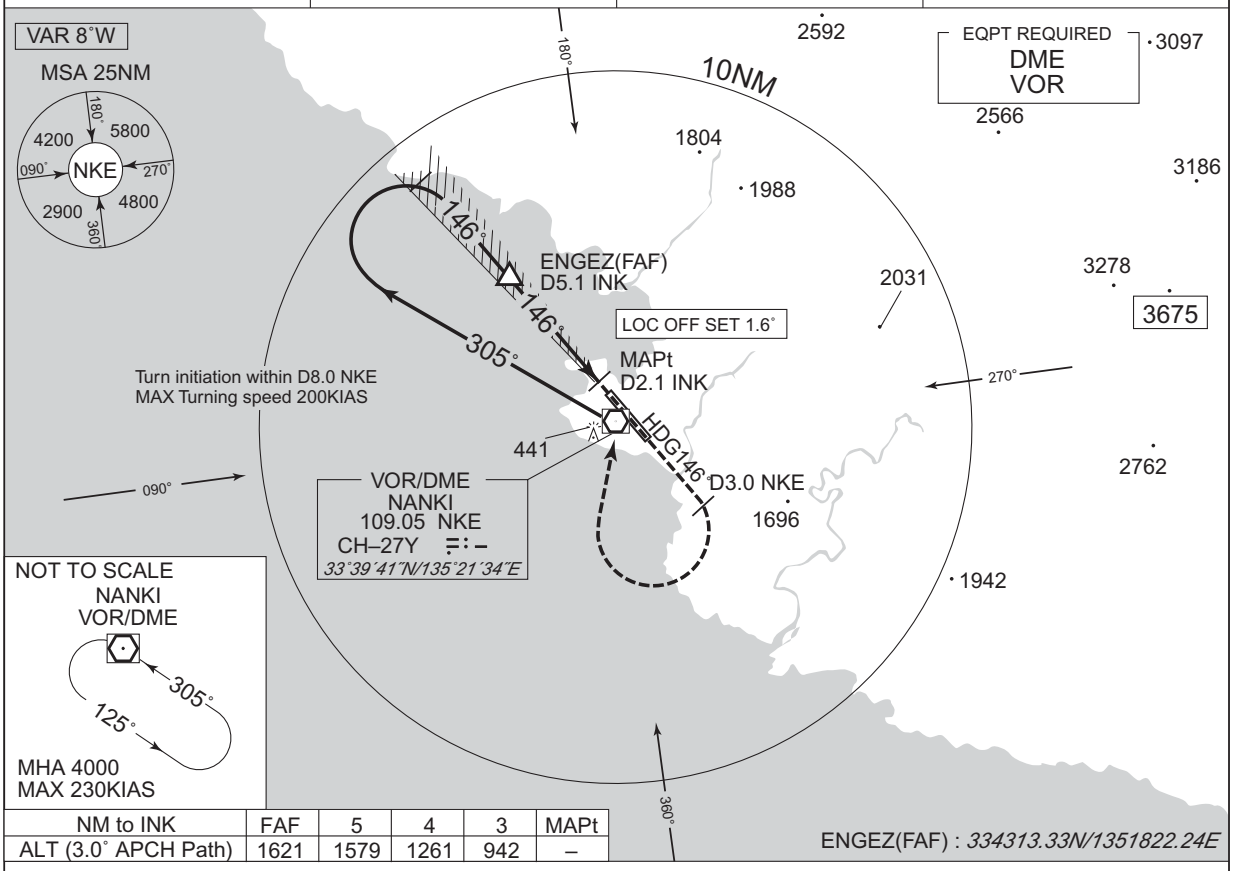
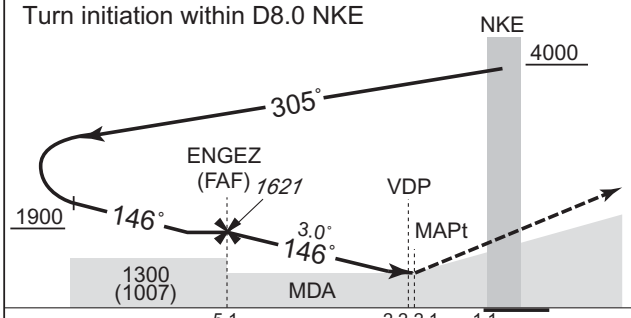
INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA LOC RWY15

TOKYO CONTROL	LOC	NANKI RADIO	NO RADAR
133.5 – 127.3 227.6 – 255.3	108.55 INK LOC–DME CH–22Y	118.55 – 126.2	



NM to INK	FAF	5	4	3	MAPt
ALT (3.0° APCH Path)	1621	1579	1261	942	–



MISSED APPROACH

Climb on HDG 146° to NKE 3.0DME,
turn right, direct to NKE VOR/DME
and hold at 4000FT.
Contact NANKI RADIO.

Timing not authorized for defining the MAPt.

5.1		2.2	2.1	1.1	DME to INK
4.0		1.0	1.0	0	NM to THR

Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 298 AD elev. 293

CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	670 (377)	900	790 (497)	1600
B		1000		
C				2400
D		1400	1150 (857)	3200

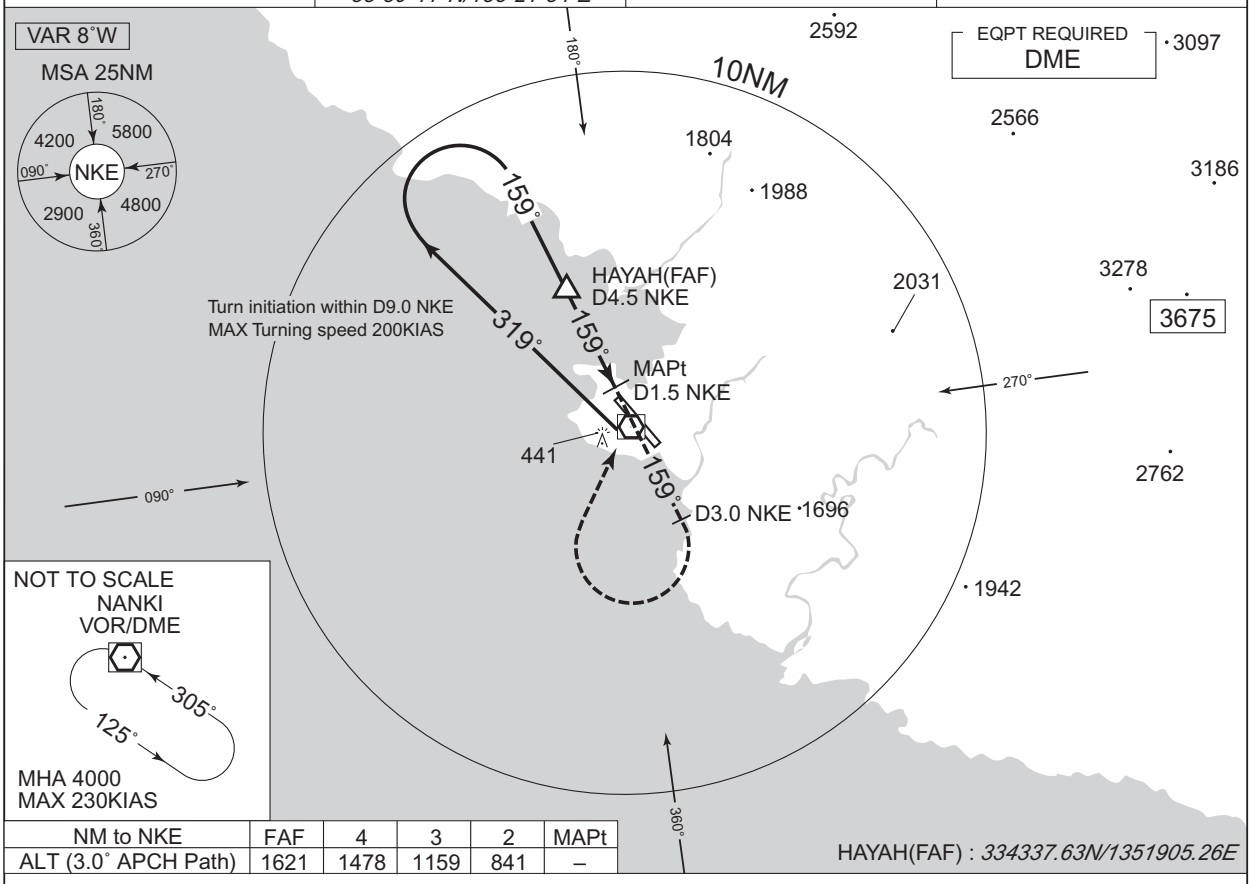
CHANGE : VAR.

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

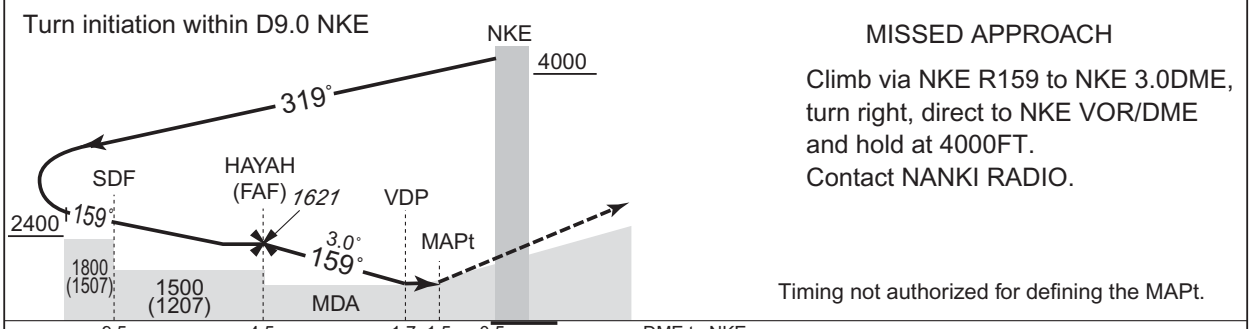
INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA — VOR RWY15

TOKYO CONTROL	NANKI VOR/DME	NANKI RADIO	NO RADAR
133.5 – 127.3 227.6 – 255.3	109.05 NKE CH–27Y *33°39′41″N/135°21′34″E*	118.55 – 126.2	



NM to NKE	FAF	4	3	2	MAPt
ALT (3.0° APCH Path)	1621	1478	1159	841	–



MISSED APPROACH

Climb via NKE R159 to NKE 3.0DME, turn right, direct to NKE VOR/DME and hold at 4000FT.
Contact NANKI RADIO.

Timing not authorized for defining the MAPt.

MINIMA THR elev. 298 AD elev. 293

CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	720 (427)	900	790 (497)	1600
B		1000		
C				2400
D		1400	1150 (857)	3200

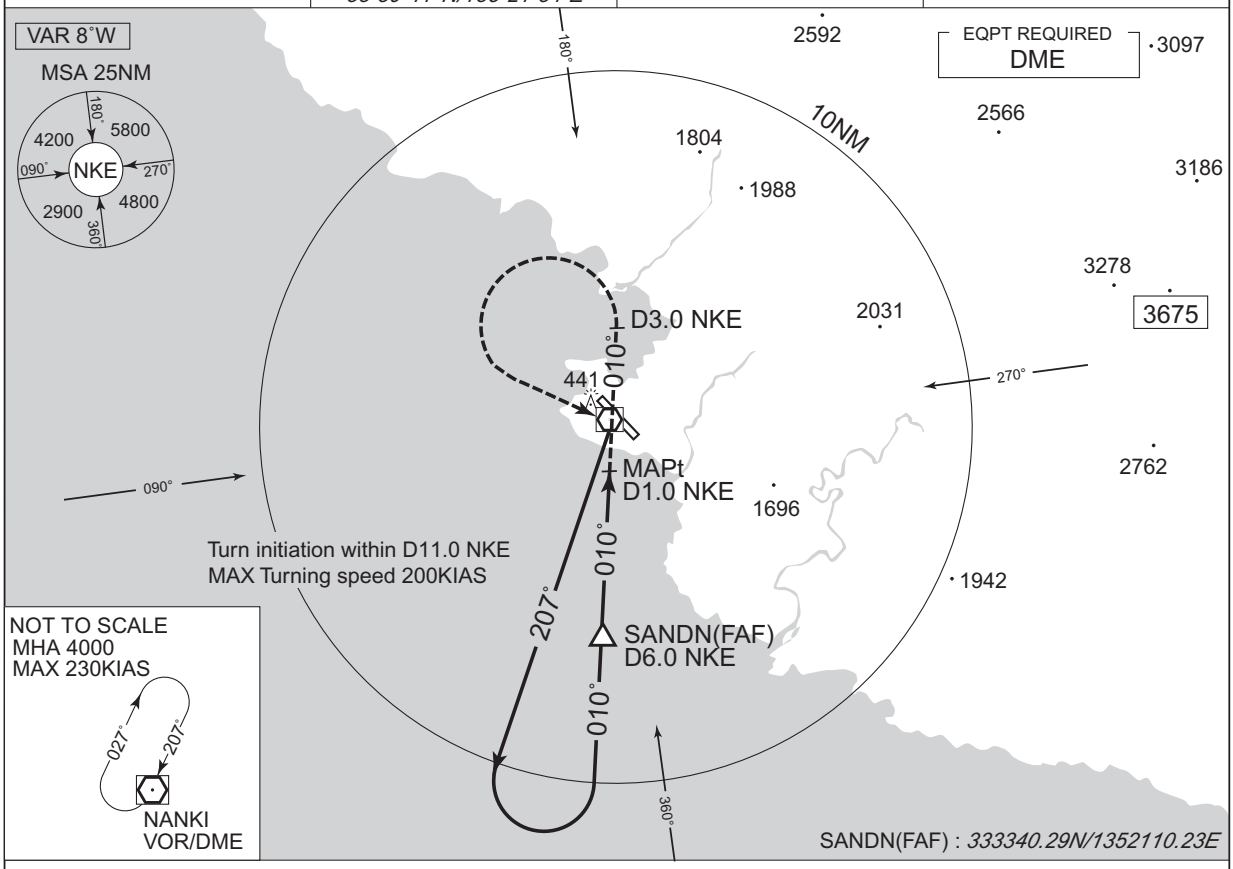
Circling to WEST side of RWY only.

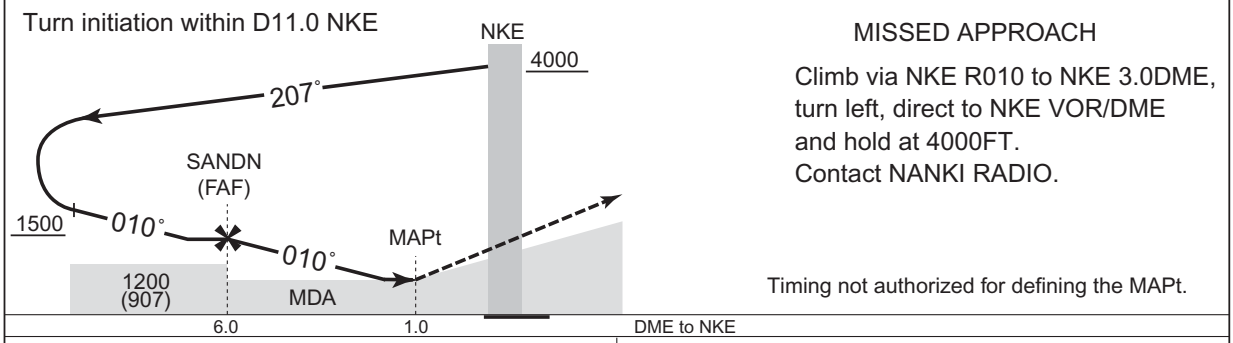
CHANGE : VAR.

INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA VOR A

TOKYO CONTROL	NANKI VOR/DME	NANKI RADIO	NO RADAR
133.5 – 127.3 227.6 – 255.3	109.05 NKE CH–27Y *33°39′41″N/135°21′34″E*	118.55 – 126.2	





MISSED APPROACH

Climb via NKE R010 to NKE 3.0DME,
turn left, direct to NKE VOR/DME
and hold at 4000FT.
Contact NANKI RADIO.

Timing not authorized for defining the MAPt.

MINIMA AD elev. 293

CAT	CIRCLING	
	MDA(H)	VIS
A	790 (497)	1600
B		
C		2400
D	1150 (857)	3200

Circling to WEST side of RWY only.

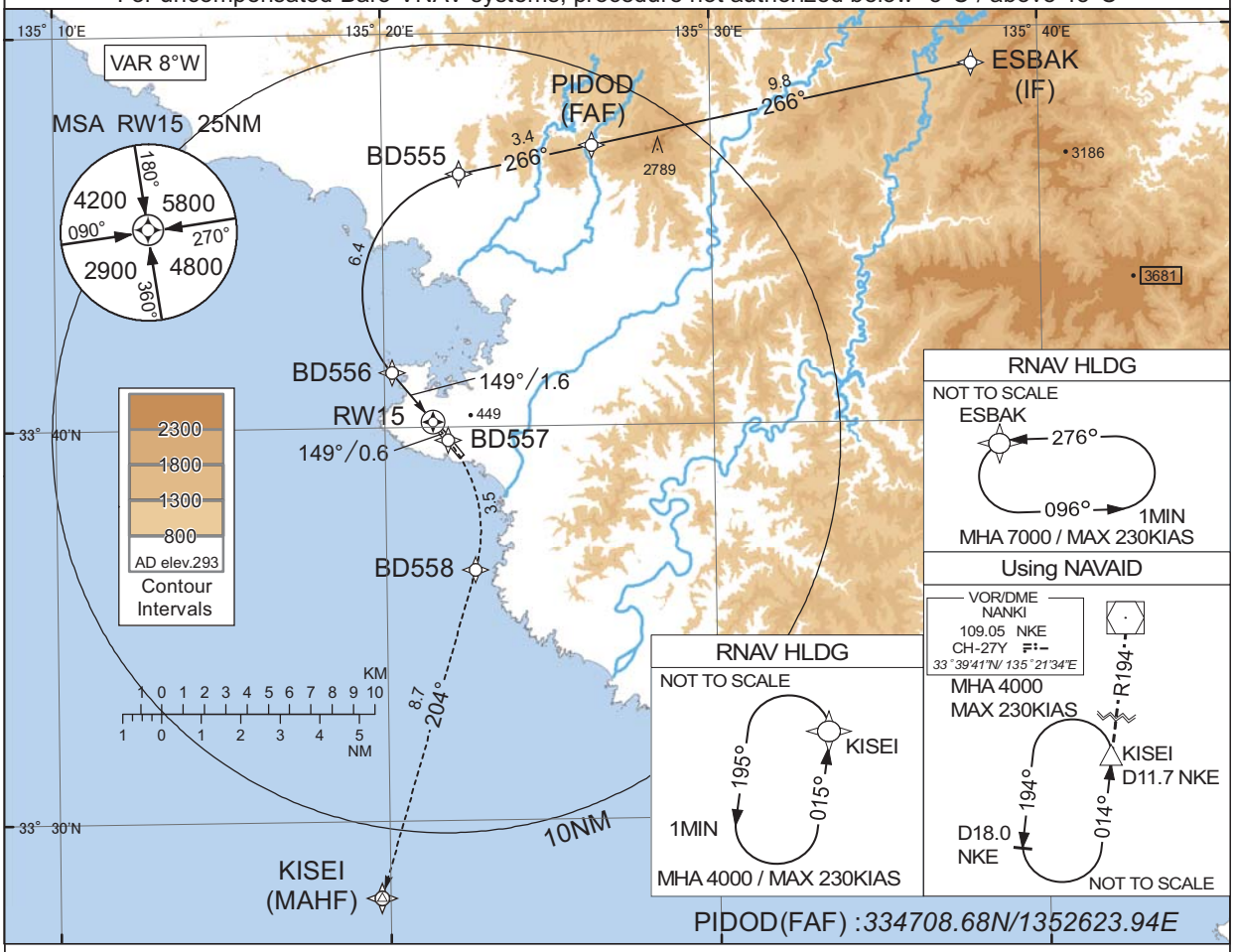
CHANGE : VAR.

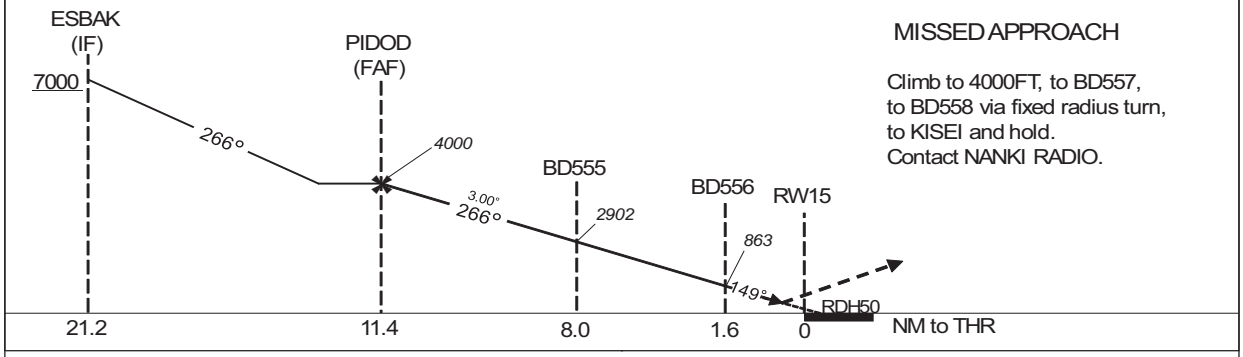
INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA RNP Z RWY15(AR)

TOKYO CONTROL 133.5 - 127.3 227.6 - 255.3	RNP AR RF required.	NANKI RADIO 118.55 - 126.2	NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -5°C / above 45°C





MISSED APPROACH

Climb to 4000FT, to BD557,
to BD558 via fixed radius turn,
to KISEI and hold.
Contact NANKI RADIO.

Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 298		AD elev. 293	
CAT	RNP 0.10		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B				
C	644(346)	1000	698(400)	1000
D	-	-	-	-

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Authorization Required

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA RNP Z RWY15(AR)

CHANGE : New PROC.

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	ESBAK	-	-	-7.9	-	-	+7000	-	-	-
002	TF	PIDOD	-	266 (258.6)	-7.9	9.8	-	4000	-	-	0.30
003	TF	BD555	-	266 (258.5)	-7.9	3.4	-	2902	-	-3.00	0.10 0.30
004	RF Center: BDRF1 r=3.10NM	BD556	-	-	-7.9	6.4	L	863	-	-3.00	0.10 0.30
005	TF	RW15	Y	149 (141.1)	-7.9	1.6	-	348	-	-3.00/50	0.10 0.30
006	TF	BD557	-	149 (141.1)	-7.9	0.6	-	-	-	-	0.10 0.30
007	RF Center: BDRF2 r=3.60NM	BD558	-	-	-7.9	3.5	R	-	-	-	1.0
008	TF	KISEI	-	204 (196.6)	-7.9	8.7	-	4000	-	-	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	ESBAK	276 (268.6)	-7.9	1.0 (-14000)	L	7000	FL140	-230 (-14000)	1.0
Hold	KISEI	015 (007.5)	-7.9	1.0 (-14000)	L	4000	FL140	-230 (-14000)	1.0

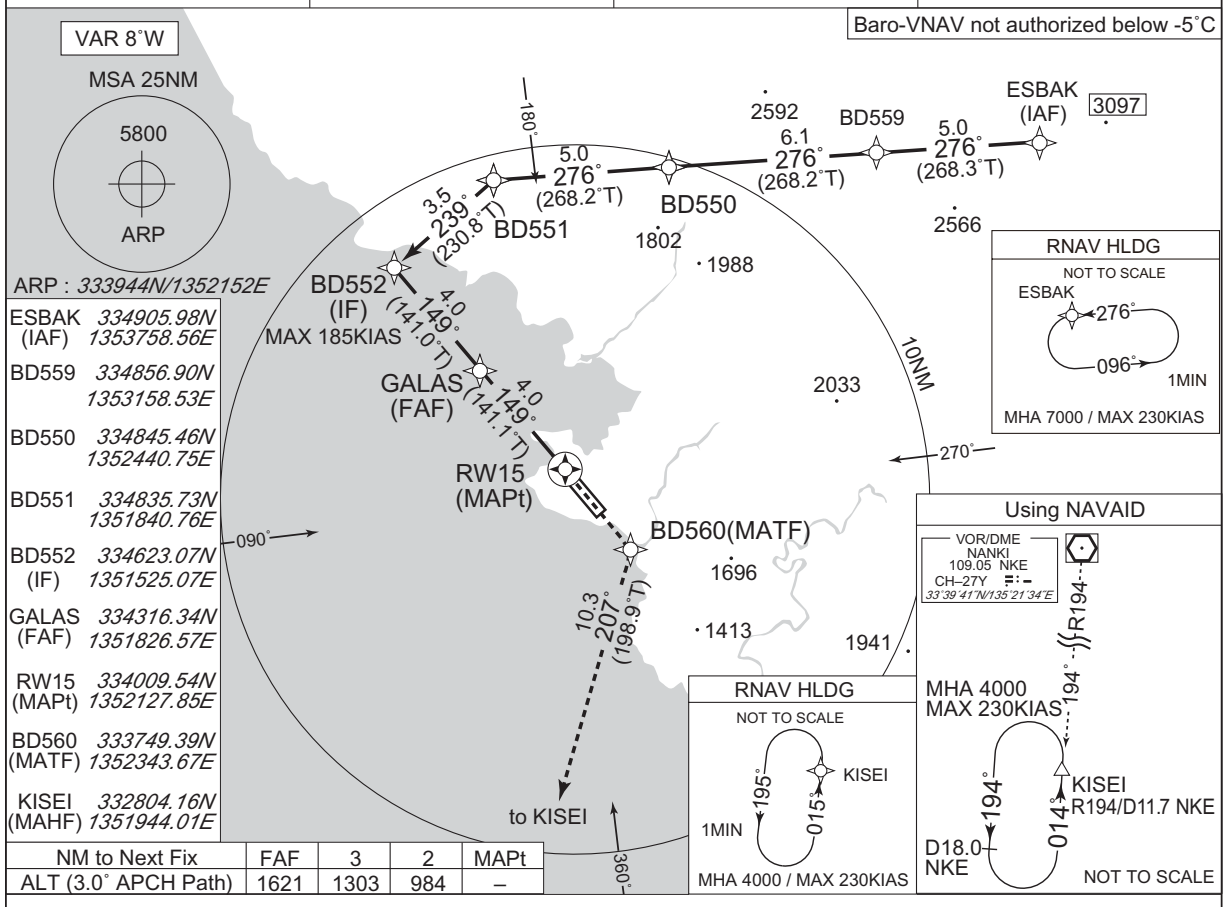
Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ESBAK	*334905.98N / 1353758.56E*	BDRF1	*334324.90N / 1352305.04E*
PIDOD	*334708.68N / 1352623.94E*	BDRF2	*333725.17N / 1351834.05E*
BD555	*334627.29N / 1352220.53E*		
BD556	*334125.22N / 1352014.44E*		
RW15	*334009.54N / 1352127.85E*		
BD557	*333941.51N / 1352155.02E*		
BD558	*333623.28N / 1352241.93E*		
KISEI	*332804.16N / 1351944.01E*		

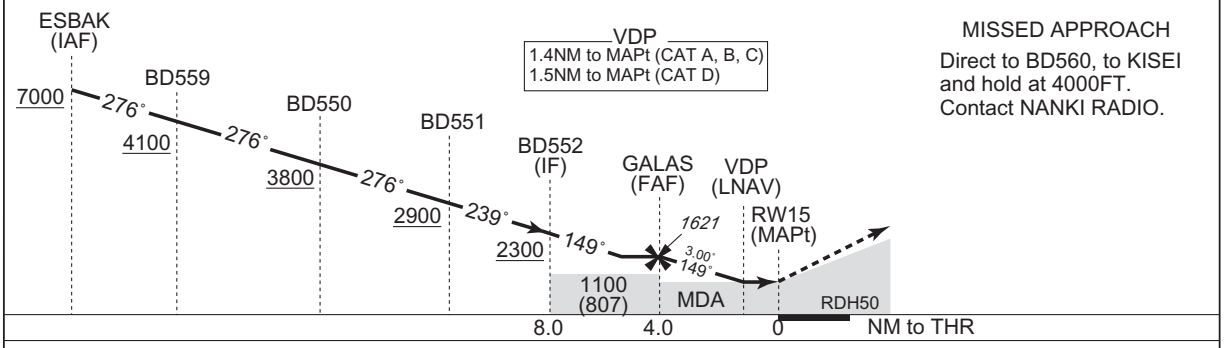
INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA — RNP Y RWY15

TOKYO CONTROL 133.5 – 127.3 227.6 – 255.3	RNP APCH	NANKI RADIO 118.55 – 126.2	NO RADAR



NM to Next Fix	FAF	3	2	MAPt
ALT (3.0˚ APCH Path)	1621	1303	984	–



Missed APCH climb gradient MNM 5.0%

MINIMA THR elev. 298 AD elev. 293

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	644 (346)	900	790 (497)	1000	790 (497)	1600
B		1000		1200		
C						2400
D	672 (374)	1400	810 (517)	1600	1150 (857)	3200

MINIMA with Missed APCH climb gradient of 2.5% are not established.
Circling to WEST side of RWY only.

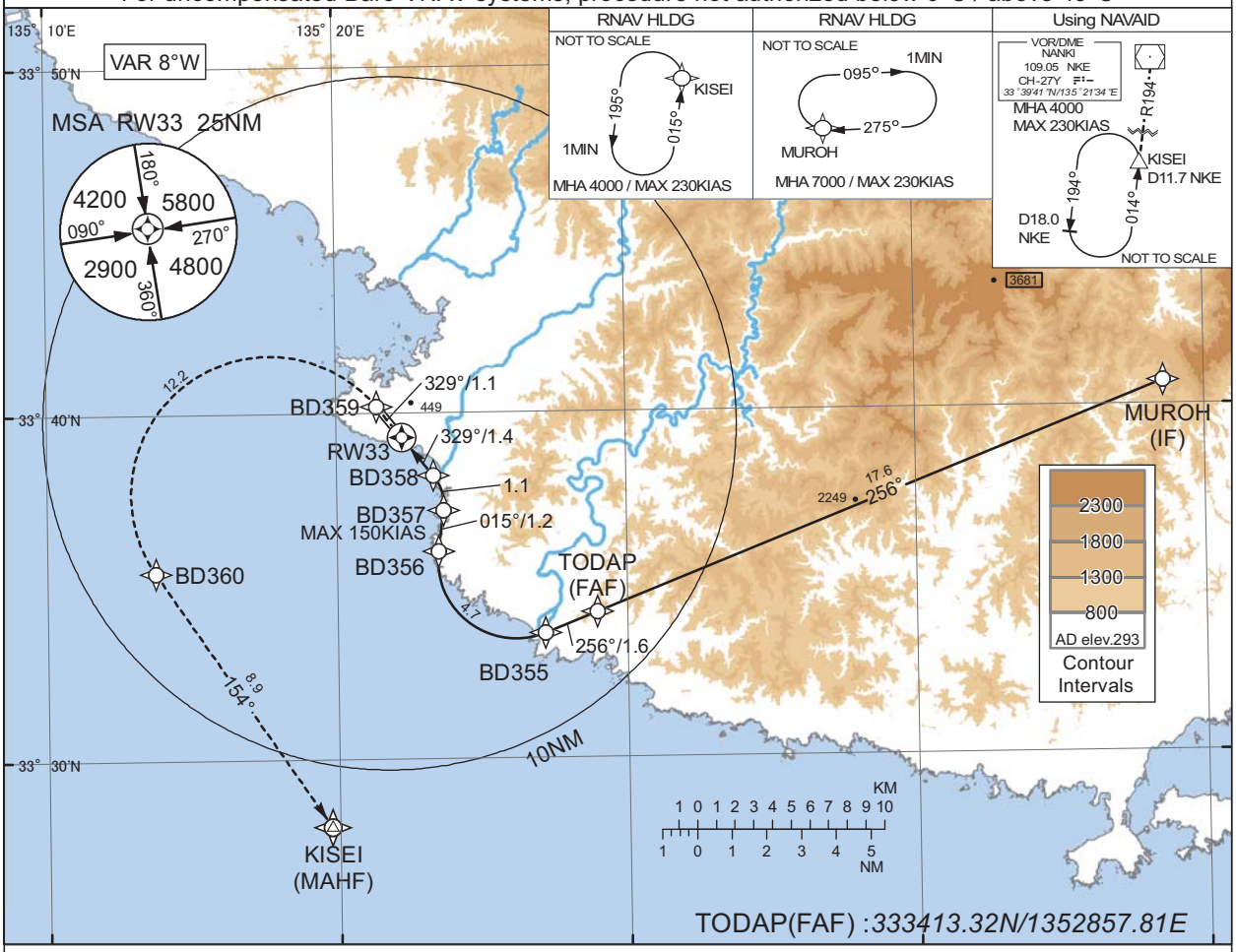
CHANGE : PROC renamed. ESBAK, BD559, BD560 established. YATAR, BD553, BD554 abolished. VAR.
PROC course. Missed APCH for using VOR/DME abolished. NM to Next Fix. VDP. MINIMA.

INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA — RNP Z RWY33(AR)

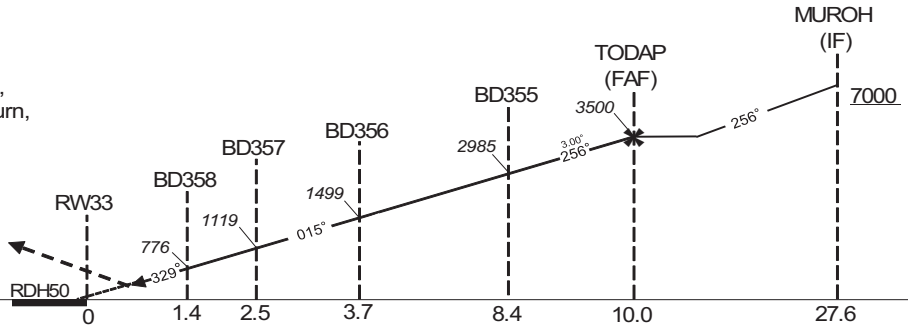
TOKYO CONTROL 133.5 - 127.3 227.6 - 255.3	RNP AR RF required.	NANKI RADIO 118.55 - 126.2	NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below 0°C / above 45°C



MISSED APPROACH

Climb to 4000FT, to BD359,
to BD360 via fixed radius turn,
to KISEI and hold.
Contact NANKI RADIO.



Missed APCH climb gradient MNM 5.0%

MINIMA	THR elev. 274		AD elev. 293	
CAT	RNP 0.10		RNP 0.30	
	DA(H)	CMV	DA(H)	CMV
A	-	-	-	-
B				
C	545(271)	1600	614(340)	1800
D	-	-	-	-

MINIMA with Missed APCH climb gradient of 2.5% are not established.

Authorization Required

CHANGE : New PROC.

INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA RNP Z RWY33(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	MUROH	-	-	-7.9	-	-	+7000	-	-	-
002	TF	TODAP	-	256 (248.6)	-7.9	17.6	-	3500	-	-	0.30
003	TF	BD355	-	256 (248.4)	-7.9	1.6	-	2985	-	-3.00	0.10 0.30
004	RF Center: BDRF3 r=2.25NM	BD356	-	-	-7.9	4.7	R	1499	-	-3.00	0.10 0.30
005	TF	BD357	-	015 (007.4)	-7.9	1.2	-	1119	-150	-3.00	0.10 0.30
006	RF Center: BDRF4 r=1.33NM	BD358	-	-	-7.9	1.1	L	776	-	-3.00	0.10 0.30
007	TF	RW33	Y	329 (321.1)	-7.9	1.4	-	324	-	-3.00/50	0.10 0.30
008	TF	BD359	-	329 (321.1)	-7.9	1.1	-	-	-	-	0.10 0.30
009	RF Center: BDRF5 r=4.00NM	BD360	-	-	-7.9	12.2	L	-	-	-	1.0
010	TF	KISEI	-	154 (145.8)	-7.9	8.9	-	4000	-	-	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	MUROH	275 (267.6)	-7.9	1.0 (-14000)	R	7000	FL140	-230 (-14000)	1.0
Hold	KISEI	015 (007.5)	-7.9	1.0 (-14000)	L	4000	FL140	-230 (-14000)	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates
MUROH	*334040.60N / 1354836.51E*
TODAP	*333413.32N / 1352857.81E*
BD355	*333337.66N / 1352709.88E*
BD356	*333600.91N / 1352330.49E*
BD357	*333711.99N / 1352341.62E*
BD358	*333812.65N / 1352321.14E*
RW33	*333919.11N / 1352216.74E*
BD359	*334012.66N / 1352124.82E*
BD360	*333525.92N / 1351344.46E*
KISEI	*332804.16N / 1351944.01E*

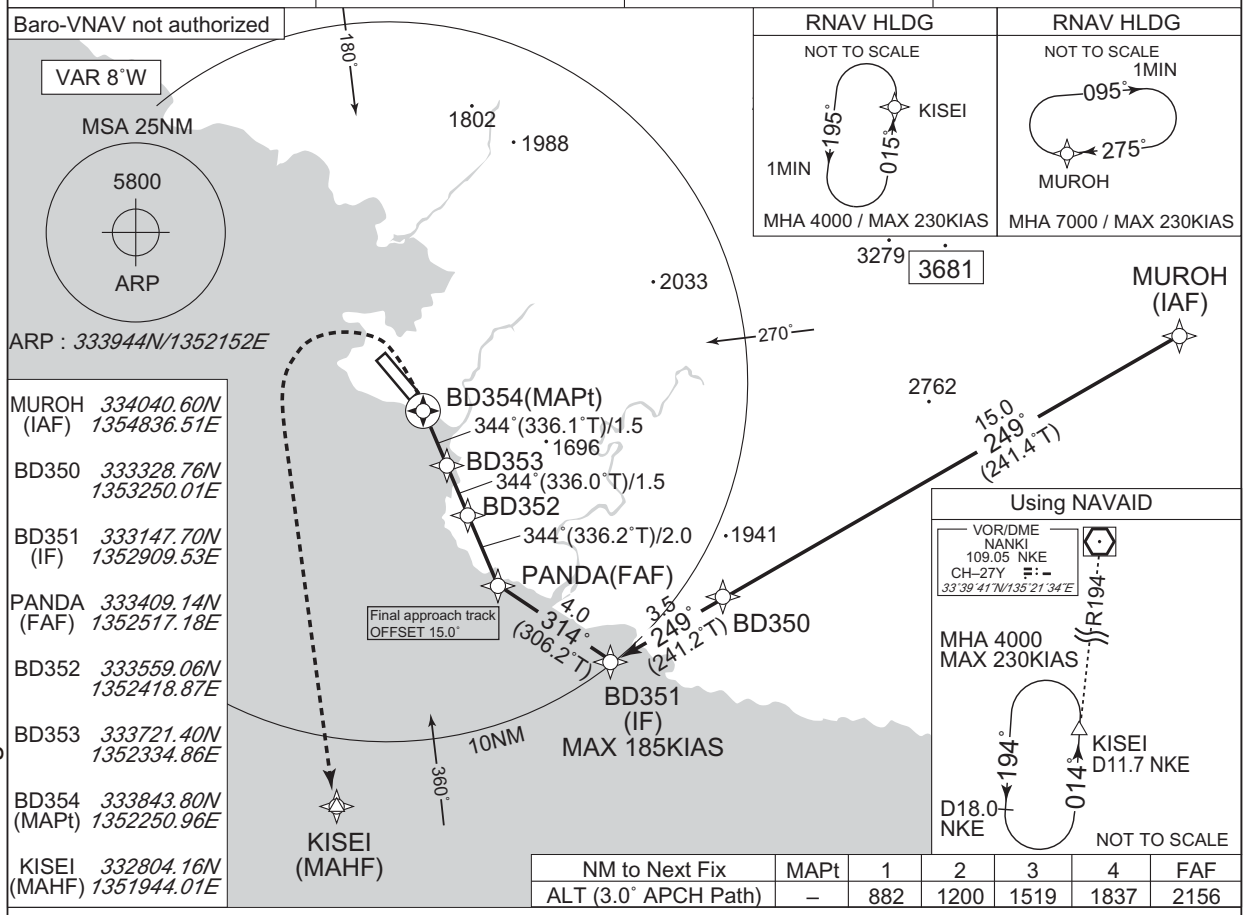
RF Arc Center Identifier	Coordinates
BDRF3	*333543.33N / 1352610.58E*
BDRF4	*333722.36N / 1352206.96E*
BDRF5	*333741.29N / 1351741.72E*

CHANGE : New PROC.

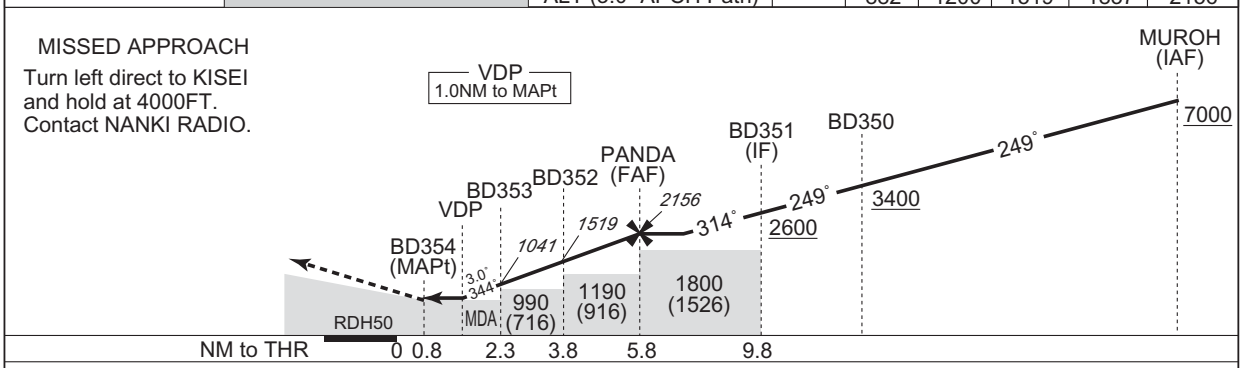
INSTRUMENT APPROACH CHART

RJBD / NANKI-SHIRAHAMA — RNP Y RWY33

TOKYO CONTROL 133.5 – 127.3 227.6 – 255.3	RNP APCH	NANKI RADIO 118.55 – 126.2	NO RADAR



NM to Next Fix	MAPt	1	2	3	4	FAF
ALT (3.0˚ APCH Path)	–	882	1200	1519	1837	2156



MINIMA THR elev. 274 AD elev. 293

CAT	LNAV/VNAV DA(H)	LNAV/VNAV CMV	LNAV MDA(H)	LNAV CMV	CIRCLING MDA(H)	CIRCLING VIS
A	Not applicable		860 (586)	1500	860 (567)	1600
B						
C				2000		2400
D					1150 (857)	3200

Circling to WEST side of RWY only.

CHANGE : PROC renamed. VAR. PROC course. Missed APCH for using VOR/DME abolished.

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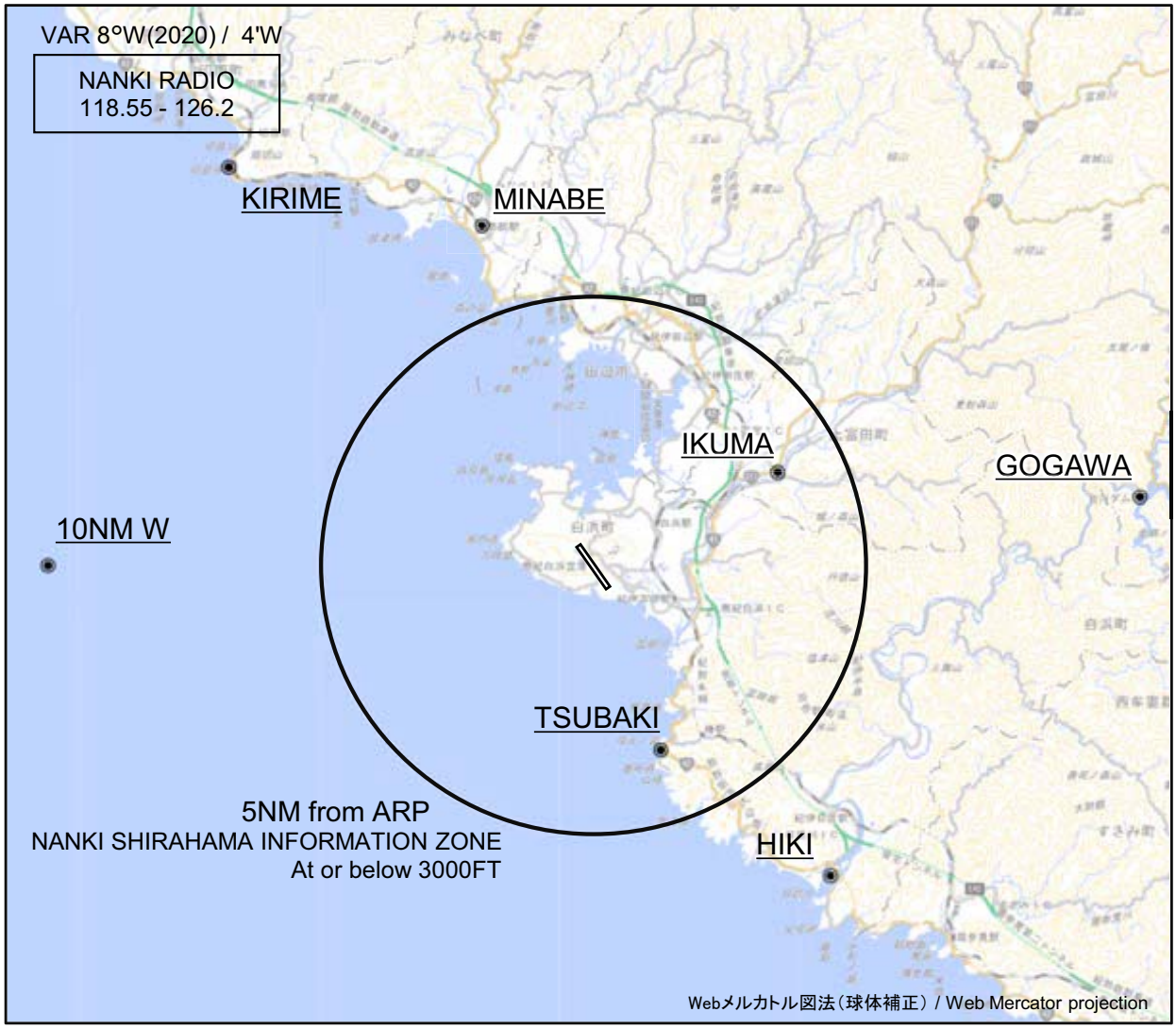
RJBD / NANKI SHIRAHAMA Visual REP

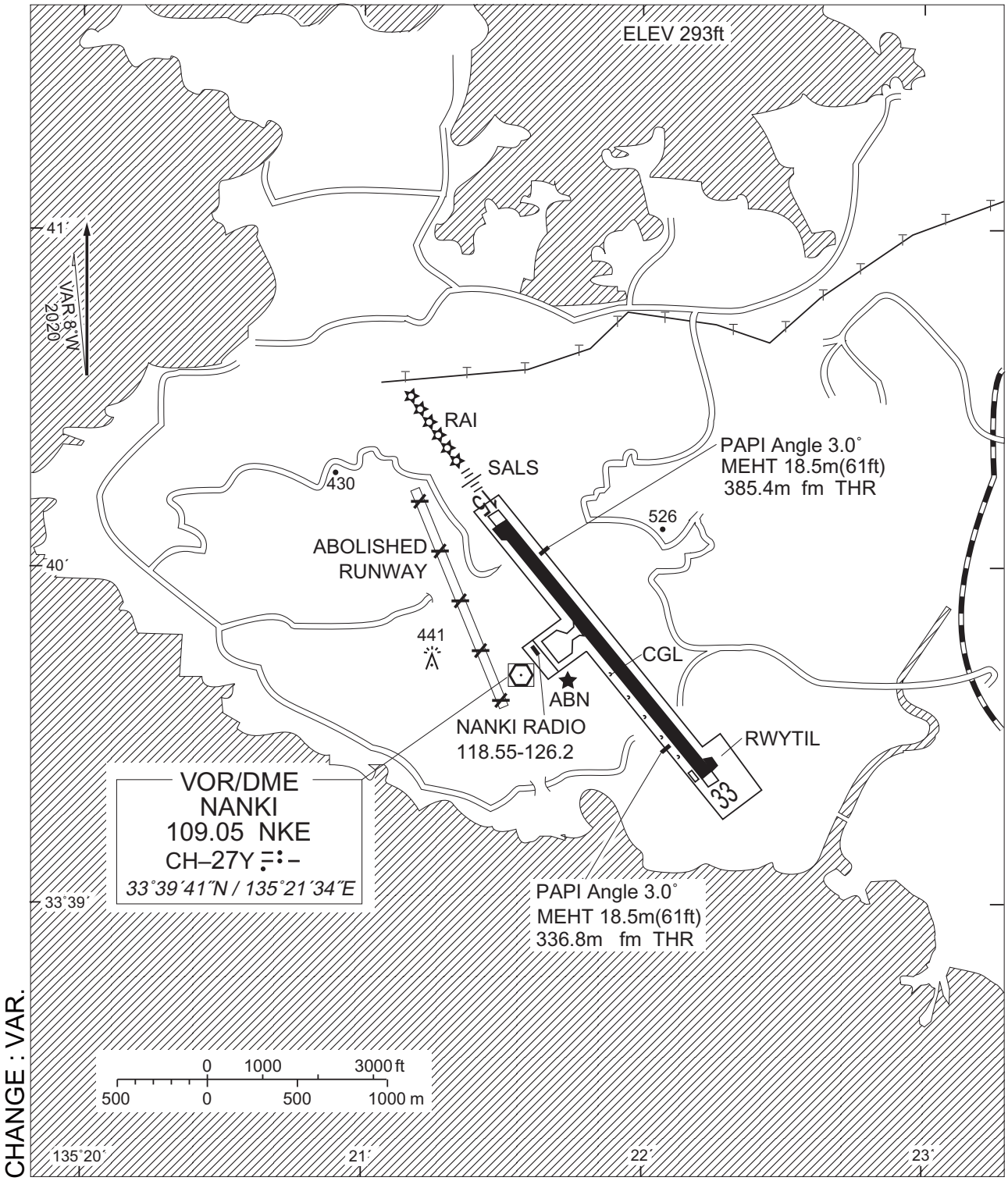


※図中に標高を示す数字がある場合、単位はメートル(m)である。The unit of measurement used to express elevation is meter(m).

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

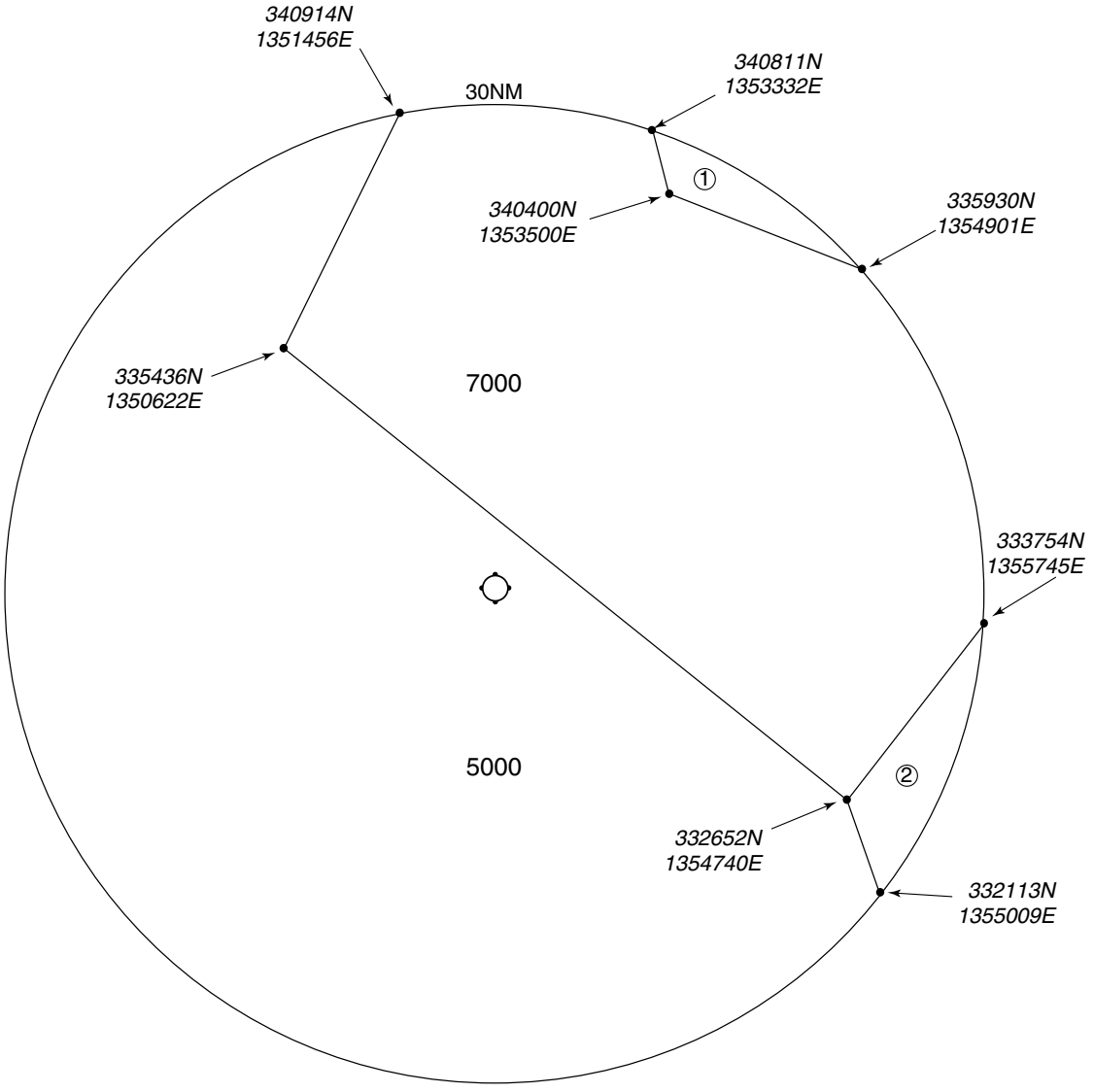
RJBD / NANKI-SHIRAHAMA LDG CHART



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ヵ所設置されている）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.

RJBD / NANKI-SHIRAHAMA Minimum Vectoring Altitude CHART



① 9000
② 6000

CENTER：*333944N/1352152E* (ARP)

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