AD 2 AERODROMES

RJSS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJSS - SENDAI

RJSS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	380823N/1405501E 283° / 0.9km from TWR
2	Direction and distance from (city)	13.6km (7.3NM) SSE of Sendai JR Station
3	Elevation/ Reference temperature	5.6FT / 27°C (2002-2006)
4	Geoid undulation at AD ELEV PSN	137FT
5	MAG VAR/ Annual change	8° W (2009) / 1'E
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	Sendai International Airport Co., Ltd. Sendai Airport, Minamihara, Shimomasuda, Natori City, Miyagi Pref. Tel: 022-382-4057, Fax: 022-382-4068 Web-site: https://www.sendai-airport.co.jp/
7	Types of traffic permitted(IFR/VFR)	IFR/VFR
8	Remarks	Sendai Airport Office(CAB) Sendai Airport, Minamihara, Shimomasuda, Natori City, Miyagi Pref. Tel: 022-383-1211 (2330-0815UTC EXC 2330UTC on FRI - 0815UTC on SUN) Tel: 022-383-1301(AIS) AFS: RJSSYFYX

RJSS AD 2.3 OPERATIONAL HOURS

1	AD Administration	2230 - 1230
2	Customs and immigration	Customs: 2330-0800 Immigration: 0140-1125
3	Health and sanitation	Quarantine(human): (MON,TUE,FRI)2330-1000 (WED)2330-0815 (THU)2330-1100 (SAT)0030-0915 (SUN)0030-1100 Quarantine(animal): 2230-1230 Quarantine(plant): 2330-0800
4	AIS Briefing Office	H24
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	H24
7	ATS	2230 - 1230 (Flight Information Service (except ATIS) and Alerting Service: H24)
8	Fuelling	2230 - 1230
9	Handling	2230 - 1230
10	Security	2230 - 1230
11	De-icing	Nil
12	Remarks	Nil

RJSS AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	All the modern institutions that deal with the weight thing to boeing747 Type freighter
2	Fuel/ oil types	Fuel Grades : 100, JET A-1 Oil grades : W80, 100, ASTO 500, MJO-II
3	Fuelling facilities/ capacity	Truck refueling, No limitation
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJSS AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in the Sendai city			
2	Restaurants	At Airport			
3	Transportation	Railways, Busses and Taxis			
4	Medical facilities	Hospitals in the iwanuma city 9km			
5	Bank and Post Office	At Airport			
6	Tourist Office	At Airport			
7	Remarks	Nil			

RJSS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Fire protection : Scale of protection, ICAO required : CAT 9 Available : CAT 9
2	Rescue equipment	Chemical fire fighting truck x 3 Water-supply truck Lighting power supply truck Emergency medical equipments conveyance truck
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

RJSS AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	Snow removal available
2	Clearance priorities	Snow removal priority: RWY09/27, TWY A1, B1, B3, B6, C1-C6, APRON
3	Remarks	Seasonal availability: All seasons

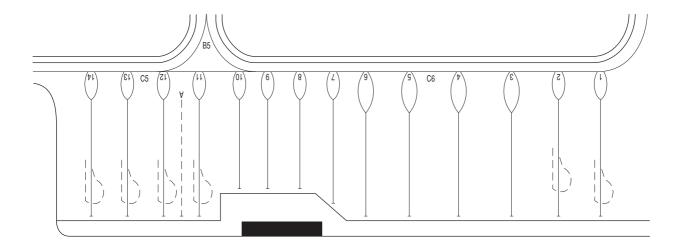
RJSS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface: Asphalt Concrete and Concrete Strength: SPOT NR 1-14: PCN 74/R/B/X/T SOUTH ONE APRON: PCN 22/F/B/Y/T SOUTH TWO APRON: PCN 20/F/B/Y/T SOUTH THREE APRON: PCN 23/F/C/Y/T WEST HELI PAD: AUW 5700kg/0.28Mpa
2	Taxiway width, surface and strength	Surface - Asphalt Concrete A1-A3 : 18m PCN 14/F/C/Y/T A4 : 45m PCN 14/F/C/Y/T B1 : 28.5m PCN 80/F/B/X/T B2 - B5 : 34m PCN 63/F/A/X/T B6 : 28.5m PCN 80/F/B/X/T C1 : 23m PCN 80/F/B/X/T C2 : 23m PCN 63/F/A/X/T C3 - C5 : 23m PCN 80/F/B/X/T C6 : 23m PCN 74/R/B/X/T D1 : 18m PCN 14/F/C/Y/T TWY(BTN RWY09/27 AND RWY12 THR) : 45m PCN 49/F/B/X/T
3	ACL and elevation	Not available
4	VOR checkpoints	Not available
5	INS checkpoints	Spot NR 1: 380820.42N/1405556.64E 2: 380820.17N/1405554.20E 3: 380819.95N/1405551.44E 4: 380819.64N/1405548.39E 5: 380819.34N/1405542.58E 7: 380818.70N/1405539.94E 8: 380819.64N/1405538.75E 9: 380819.45N/1405536.92E 10: 380819.26N/1405533.18E 12: 380817.91N/1405531.10E 13: 380817.48N/1405529.02E 14: 380817.27N/1405526.95E
6	Remarks	Nil

RJSS AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

Use of aircraft stand ID signs, Aircraft stand identification sign: NR2 - 6, 10 TWY guide lines and Visual docking/ parking guidance system of aircraft stands RWY and TWY markings and RWY:09/27, 12/30 (Marking) RWY designation, RWY CL, RWY THR, RWY middle point, LGT Aiming point, TDZ, RWY side stripe (LGT) RCLL(RWY09/27), REDL, RTHL, RENL, RTZL(RWY27), WBAR(RWY27) (Marking) TWY CL, RWY HLDG PSN, TWY side stripe, Mandatory instruction marking (A1, A2, A4, B1-B6, C3, C4, D1) (LGT) TWY edge LGT, TWY CL LGT(B1-B6,C1-C6), Stop bar LGT(B1-B6), RWY guard LGT(B1-B6,C3,C4), Taxiing guidance sign(B1-B6) Stop bars Stop Bar Lights: B1-B6 Stop Bar Lights operations 1) Stop Bar Lights are installed at each taxi holding position associated with Runway 09/27. 2) Stop Bar Lights will be operated when the visibility or the lowest RVR of Runway 09/27 is at or less than 600m. 3) Stop Bar Lights on Taxiway B1 and B6 are controlled individually by ATC. 4) Stop Bar Lights on Taxiways B2 through B5 are not controlled individually 5) During the period Stop Bar Lights operated, Taxiways B2 through B5 are not available for departure aircraft. 4 Remarks (Marking) Overrun area (LGT) Apron flood LGT

Marking Aids and Parking Area



RJSS AD 2.10 AERODROME OBSTACLES

See AD2.24 Aerodrome Obstacle Chart

In circling area and at AD

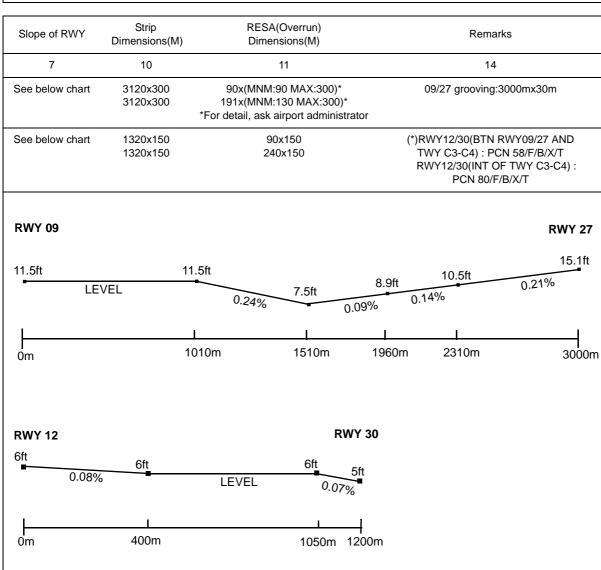
Obstacle type Coordinates		Elevation	Markings/LGT	Remarks
Lightning rod	380938.4N/1405504.8E	171ft	- /LGTD	Above the horizontal surface
Lightning rod	380957.2N/1405342.1E	161ft	- /LGTD	Above the horizontal surface

RJSS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	SENDAI
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	SENDAI 30 Hours
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	P, Ja ,En
6	Flight documentation Language(s) used	C En
7	Charts and other information available for briefing or consultation	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
8	Supplementary equipment available for providing information	Nil
9	ATS units provided with information	TWR, APP, ATIS
10	Additional information (limitation of service, etc.)	Nil

RJSS 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
09	82.56°	3000×45	PCN 80/F/B/X/T Asphalt Concrete	380819.58N 1405355.40E 136.8ft	THR ELEV:11.5ft
27	262.56°	3000×45	PCN 80/F/B/X/T Asphalt Concrete	380832.18N 1405557.56E 136.8ft	THR ELEV:15.1ft TDZ ELEV:15.1ft
12	117.70°	1200×45	PCN 34/F/C/Y/T(*) Asphalt Concrete	380822.05N 1405453.09E 137ft	THR ELEV:6ft
30	297.70°	1200×45	PCN 34/F/C/Y/T(*) Asphalt Concrete	380803.96N 1405536.72E 137ft	THR ELEV:5ft



RJSS AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
09	3000	3000	3000	3000	Nil
27	3000	3000	3000	3000	Nil
12	1200	1200	1200	1200	Nil
30	1200	1200	1200	1200	Nil

RJSS AD 2.14 APPROACH AND RUNWAY LIGHTING

0		MEHT	RTZL LEN	Color INTST	Color INTST	Color WBAR	LEN Color
2	3	4	5	6	7	8	9
SALS 420m (*1)	Green Nil	PAPI 3.0° 456m 73.8ft		3000m 30m Coded Color (White/Red) LIH	3000m 60m Coded Color (White/Yellow) LIH	Red	Nil (*2)
PALS CAT I) 900m	Green Green	PAPI 3.0° 439m 65.6ft	900m	3000m 30m Coded Color (White/Red) LIH	3000m 60m Coded Color (White/Yellow) LIH	Red	Nil (*2)
	Green Nil	PAPI 3.0° 306m 44.5ft			1200m 60m Coded Color (White/Yellow) LIH	Red	Nil (*2)
	Green Nil	PAPI 3.1° 262m 44.5ft			1200m 60m Coded Color (White/Yellow) LIH	Red	Nil (*2)
			Remarks				
			10				
	420m (*1) PALS CAT I) 900m	420m Nil (*1) PALS Green CAT I) Green 900m Green Nil Green Nil	420m Nil 3.0° (*1) 456m 73.8ft PALS Green PAPI CAT I) Green 3.0° 900m 439m 65.6ft Green PAPI Nil 3.0° 306m 44.5ft Green PAPI Nil 3.1° 262m 44.5ft	420m Nil 3.0° (*1) 456m 73.8ft PALS Green PAPI 900m CAT I) Green 3.0° 900m 439m 65.6ft Green PAPI Nil 3.0° 306m 44.5ft Green PAPI Nil 3.1° 262m 44.5ft Remarks 10 CH LGT beacon(560m and 916m FM RWY 09 THR	A20m	A20m	A20m

RJSS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: 380816N/1405552E, White/Green EV4.3sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI:Nil Anemometer: RWY12:440M FROM RWY12 THR, LGTD RWY09:400M FROM RWY09 THR, LGTD RWY27:385M FROM RWY27 THR, LGTD
3	TWY edge and center line lighting	TWY edge and center line lights installed, see AD2.9
4	Secondary power supply/ switch- over time	Within 1 sec: RCLL, REDL(RWY09/27), RTHL(RWY09/27), RENL(RWY09/27), WBAR, Stop bar LGT, Overrun area edge LGT(RWY09/27) Within 15 sec: Other lights
5	Remarks	Nil

RJSS AD 2.16 HELICOPTER LANDING AREA

Nil

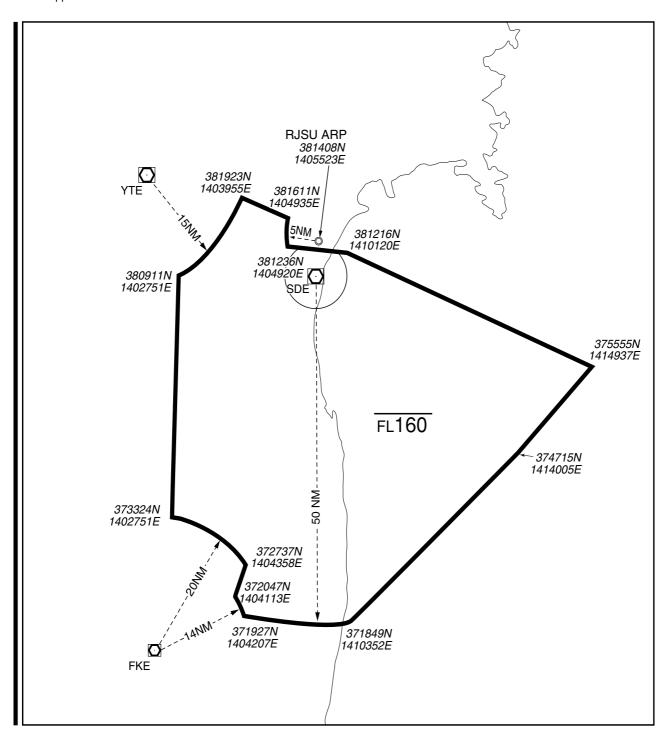
RJSS AD 2.17 ATS AIRSPACE

	Designation and lateral limits	Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
	1	2	3	4	6
SENDAI CTR	Area within a radius of 5nm of SENDAI ARP (38° 08'N 140° 55'E) exclude KASUMINOME control zone	3 000 or below	D	SENDAI TOWER En	
SENDAI PCA	SEE RJSS ATTACHED CHART		С	SENDAI APP SENDAI TOWER En	
SENDAI ACA	SEE RJSS ATTACHED CHART		E	SENDAI APP SENDAI DEP SENDAI RADAR En	
SENDAI TCA	SEE RJSS ATTACHED CHART		E	SENDAI TCA En	

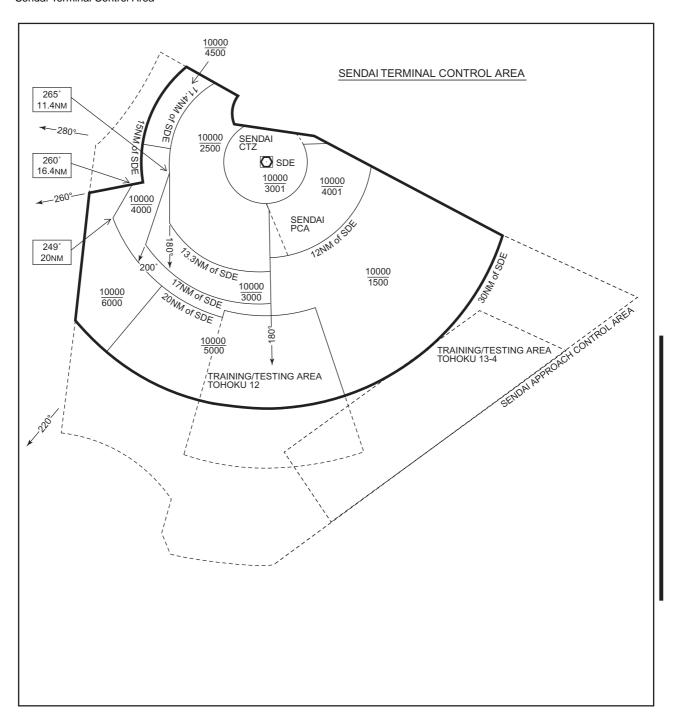
仙台特別管制区 Sendai Positive Control Area

NAME	LATERAL LIMITS	UPPER LIMIT (AMSL) LOWER LIMIT (AMSL) M(ft)	UNIT PROVIDING SERVICE	REMARKS
1	2	3	4	5
仙台 Sendai	下記に示される区域 The area shown below		Primary Sendai APP 120.4-261.2 Secondary Sendai TWR 126.2	当該空域を飛行しようとする航空機は、仙台アプローチ又は仙台タワーに連絡し、コールサイン、現在位置、高度及び意図を通報し指示を受けること。 Pilot of aircraft operating in this area shall contact Sendai Approach or Sendai Tower for ATC instructions giving in-formations on aircraft identification, positions, altitude and pilot's intentions.
			1200m (4000FT) 200m (700FT)	
	38104: 1410103: 38105: 141003: 141003: 380314N 1405553E 380324N 1405541E			

仙台進入管制区 Sendai Approach Control Area



仙台ターミナルコントロールエリア Sendai Terminal Control Area



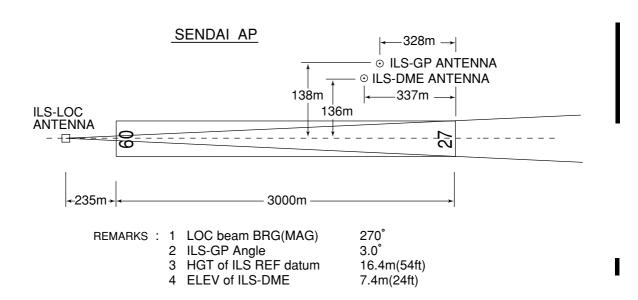
RJSS AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Sendai Approach	120.4MHz 261.2MHz	2230 - 1230	(1)Primary
		121.5MHz(E) 243.0MHz(E)		
ASR	Sendai Radar	121.2MHz 121.5MHz(E) 243.0MHz(E)	2230 - 1230	
DEP	Sendai Departure	120.0MHz 121.5MHz(E) 243.0MHz(E)	2230 - 1230	
TCA	Sendai TCA	121.025MHz 225.2MHz	2300 - 1030	
TWR	Sendai Tower	118.7MHz(1) 126.2MHz 121.5MHz(E) 243.0MHz(E)	2230 - 1230	
GND	Sendai Ground	121.7MHz	2230 - 1230	
ATIS	Sendai Airport	126.45MHz	2230 - 1230	

RJSS 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 (8°W/2010)	SDE	116.3MHz	H24	380818.86N/ 1405517.34E		VOR unusable: 271° BTN 20 - 22nm at or BLW 9000ft
DME	SDE	1197MHz (CH-110X)	H24	380818.86N/ 1405517.34E	54ft	
ILS-LOC 27	ISD	111.7MHz	2230 - 1230	380818.56N/ 1405345.94E		LOC:235m(771ft) away FM RWY 09 THR, BRG (MAG) 270°.
ILS-GP 27	-	333.5MHz	2230 - 1230	380835.20N/ 1405543.58E		GP:328m(1076ft) inside FM RWY 27 THR, 138m(453ft) N of RCL. HGT of ILS Ref datum 16.4m(54ft) GP angle 3.0°.
ILS-DME 27	ISD	1015MHz	2230 - 1230	380835.09N/ 1405543.23E	24ft	DME:337m(1106ft) inside FM RWY 27 THR, 136m(446ft) N of RCL.
MSAS		1575.42MHz	H24			Transmitting antennas are satellite based

<u>ILS</u>



RJSS AD2-14 AIP Japan SENDAI

RJSS AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport	regu	lations	

	 Aircraft operations, other than scheduled or in emerged. When using this airport, aircraft operators are required allocate appropriate parking area. 		ermission of the airport administrator in order to
2. Ta:	2. Taxiing to and from stands		
		Nil	
3. Pa	3. Parking area for small aircraft(General aviation)		
		Nil	
4. Pa	4. Parking area for helicopters		
		Nil	
5. Ap	5. Apron - taxiing during winter conditions		
		Nil	
6. Ta:	Taxiing - limitations 1. Wing tip clearance at the TWY intersection (RE Wing tip clearance at the TWY intersection betwee aircraft taxiing behind it are as follows. When B773 holding at the stop marking on TWY	n the aircraft holdi	ng at the stop marking on the TWY and the other
	Wing Span (WS) of aircraft taxiing on TWY C1-C6 WS =< 30.2		Legend: *A : wing tip clearance >= 15m
	Wing tip clearance *B	*C	*B : 6.5m =< wing tip clearance < 15m *C : wing tip clearance < 6.5m
7. Sc	7. School and training flights - technical test flights - use of rui	nways	
		Nil	
8. He	8. Helicopter traffic - limitation		
		Nil	
9. Re	9. Removal of disabled aircraft from runways		
		Nil	

RJSS AD 2.21 NOISE ABATEMENT PROCEDURES

1 騒音軽減運航方式

すべてのジェット機に対して、空港周辺における航空機騒音 軽減のため、運航の安全に支障のない範囲で、以下の方式が 適用される。ただし、これらの方式によることができない航 空機は実効的にこれらと同等と認められる代替方式を実施す るものとする。

- 1)離陸について (滑走路 27) 急上昇方式
- 2) 着陸について (滑走路 09) ディレイド・フラップ進入方式及び低フラップ角 着陸方式
- 3) リバース·スラストについて なし

2 優先滑走路方式

すべてのジェット機及び証明された最大離陸重量が 5,700kg (12,500lbs) を超えるプロペラ機を対象とし、離陸は滑走路 09、着陸は滑走路 27 により優先的に行うこととする。ただし、航行の安全確保などに万全を期すため、以下に示す条件等にあっては、本方式は適用されない。

- 1)機長が航行の安全を考慮して、反対側滑走路に離着陸を行う必要があると判断した場合
- 2) 滑走路面の状況が適当でない場合
- 3) 突風を含め追風成分が 5knot を超える場合
- 4) 突風を含め横風成分が 15knot を超える場合
- 5) 秩序ある航空交通流が乱される恐れがある場合
- 6) 特別な訓練、航行援助施設の検査のために反対側滑走路に 離着陸を行うことが特に必要であると認められる場合

3. 優先飛行経路

1) 滑走路 27 からの離陸

滑走路 27 から離陸する航空機にあっては、空港の西南西 4 海里付近の住居地区(別添図参照)上空を可能な限り避けて 飛行すること。

2) 滑走路 09 への着陸

滑走路 09 へ着陸する航空機にあっては、空港の西北西 2.5 海里付近の住居地区(別添図参照)上空を可能な限り避けて 飛行すること。 ■ (See AIP AD 1.1.6.5)

1 Noise Abatement Operating Procedures

For all jet aircraft, in order to reduce aircraft noise in the vicinity of airport, the following procedures shall be applied unless compliance of the procedures adversely affects the safety of aircraft operations. In case that the aircraft is unable to take these procedures, pilots should execute alternative procedures which are considered to be practically equivalent.

- For take-off from RWY27
 Steepest Climb Procedure
- For landing to RWY09
 Delayed Flap Approach Procedure and Reduced Flap Setting Procedure
- Reverse Thrust Nil

2 Preferential Runways Procedures

For all jet aircraft and propeller-driven aircraft having a maximum certificated take-off weight of more than 5,700kg (12,500lbs), in principle, RWY09 for take-off and RWY27 for landing are preferentially to be used. However, in order to achieve maximum flight safety, this procedure is not applied under the following circumstances.

- When a pilot-in-command determines that the use of other runway is necessary in consideration of safety of the aircraft operation.
- 2) When the condition of the specified runway is not suitable for landing or take-off.
- When the tail wind component, including gusts, exceeds 5 knots.
- 4) When the cross wind component, including gusts, exceeds 15 knots.
- When the possibility exists that orderly flow of traffic may be impeded.
- 6) When the use of other runways is considered especially necessary for the purpose of special training, inspection of navigational facilities, etc.

3 Noise Preferential Routes

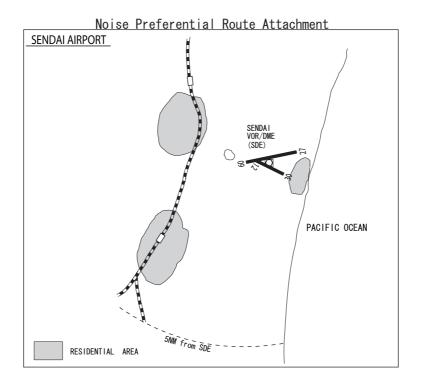
1) Take-off from RWY27

All aircraft departing from RWY27 are urged to avoid, as far as practicable, flying over the residential area located about 4NM WSW of the airport. (See the attached chart.)

2) Landing on RWY09

All aircraft arriving on RWY09 are urged to avoid, as far as practicable, flying over the residential area located about 2.5NM WNW of the airport.

(See the attached chart.)



RJSS AD 2.22 FLIGHT PROCEDURES

1. TAKE OFF MINIMA

	RWY ACFT CAT		REDL & RCLL			or RCLL Marking	NIL (DAYTIME ONLY)				
		CAI	CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS			
Multi-Engine	09	A,B,C,D	-	0′-400m	-	0′-400m	-	0′-500m			
ACFT with	27	Α,Β,Ο,Β	0′-400m	0′-400m	0′-400m	0′-400m	-	0′-500m			
TKOF ALTN	12	A,B,C	-	-	-	200′-1600m	-	200′-1600m			
AP FILED	30	Α,Β,Ο	-	-	-	0′-400m	-	0′-500m			
	09 A,B,C,D										
OTHER	27	Α,Β,Ο,Β	AVBL LDG MINIMA								
OTTLER	12	A,B,C									
	30	7,,5,0									

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

If radio communications with Sendai Approach/Radar are lost for 1 minute, squawk Mode A/3 Code 7600 and :

- (I) 1. Contact Sendai Tower.
 - 2. If unable, proceed in accordance with Visual Flight Rules.
 - 3. If unable, proceed to Sendai VOR/DME at last assigned altitude or 3,000 feet whichever is higher, and execute instrument approach.
- (II) Procedures other than above will be issued when situation required.

3. Terminal Radar Alphanumeric Display System (TRAD)

Aircraft flying in Sendai approach control area under its contol will be instructed to reply with discrete code on Mode A/3 and Mode C.

If an aircraft has no capability of replying with discrete code, the pilot shall report ATC if so instructed.

仙台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個別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. Traffic pattern

(1) In order to avoid congestion of arriving aircraft and to make orderly flow on traffic pattern, aircraft are desirable to fly at the altitude.

However, in case it is difficult to fly at the altitude due to weather and so on, aircraft shall report it to "SENDAI TWR" with your proposed altitude.

Traffic pattern altitude as follows.

i) Fixed wing ACFT

a) JET 1,500ft

b) PROPELLER

Single engine 800ft
Multi engine 1,000ft
ii) Rotor craft 600ft

(2) Aircraft using north traffic pattern should pay enough attention to keep out of KASUMINOME CTR.

(1) 到着機が輻輳することを避け、かつ秩序ある飛行場周辺の航空交通の流れを促進するために、場周経路において航空機は以下の高度で飛行することが望ましい。

ただし、天候等により以下の高度により飛行できない場合は"仙台タワー"に希望飛行高度とともにその旨を通報すること。

場周経路を飛行する際の高度は以下のとおり

i) 固定翼航空機

a) ジェット 1,500ft

b) プロペラ

単発機800ft多発機1,000ftii) 回転翼航空機600ft

(2) 北側の場周経路を使用する場合は霞目管制圏に入域しないように留意すること。

RJSS AD 2.23 ADDITIONAL INFORMATION

Experimental Radio Facilities

Experimental radio facilities of Iwanuma Branch of Aeronautical Safety College at Sendai Airport as follows. These radio facilities are not to be used as Naviaids.

Facility	Frequency	Power	ID	Coordinate of antenna	Hour of OPS
LOC	109.9	10W	EKD	380748N/1405558E	
GP	333.8	2W	-	380757N/1405520E	
Marker	75.0	0.5W	-	380747N/1405558E	H24
VOR/TACAN	112.4/1158	100W/1KW	EIW	380747N/1405522E	(Intermittent
ASR/SSR	2720/1030	350KW/500W	-	380747N/1405518E	transmissions)
DME	997.0	100W	EKD	380756N/1405522E	
VOR	117.9	50W	ECV	380752N/1405509E	

AIP Japan SENDAI

RJSS AD 2.24 CHARTS RELATED TO AN AERODROME

Aerodrome Chart -1

Aerodrome Chart -2

Aerodrome Obstacle Chart-ICAO type A (RWY09/27)

Aerodrome Obstacle Chart-ICAO type B

Standard Departure Chart - Instrument (IWAKI)

Standard Departure Chart - Instrument (SENDAI)

Standard Departure Chart - Instrument (DERBY-RNAV)

Standard Departure Chart - Instrument (DERBT-RNAV)
Standard Departure Chart - Instrument (STEED-RNAV)

Standard Departure Chart - Instrument (CUBIC-RNAV)

Standard Arrival Chart - Instrument (PERID)

Standard Arrival Chart - Instrument (LANCE WEST-RNAV)

Standard Arrival Chart - Instrument (OWLET WEST-RNAV)

Standard Arrival Chart - Instrument (LANCE EAST ALFA-RNAV)

Standard Arrival Chart - Instrument (LANCE EAST BRAVO-RNAV)

Standard Arrival Chart - Instrument (OWLET EAST ALFA-RNAV)

Standard Arrival Chart - Instrument (OWLET EAST BRAVO-RNAV)

Instrument Approach Chart (ILS Z or LOC Z RWY27)

Instrument Approach Chart (ILS Y or LOC Y RWY27)

Instrument Approach Chart (VOR RWY27)

Instrument Approach Chart (VOR RWY30)

Instrument Approach Chart (RNAV(GNSS) Z RWY09)

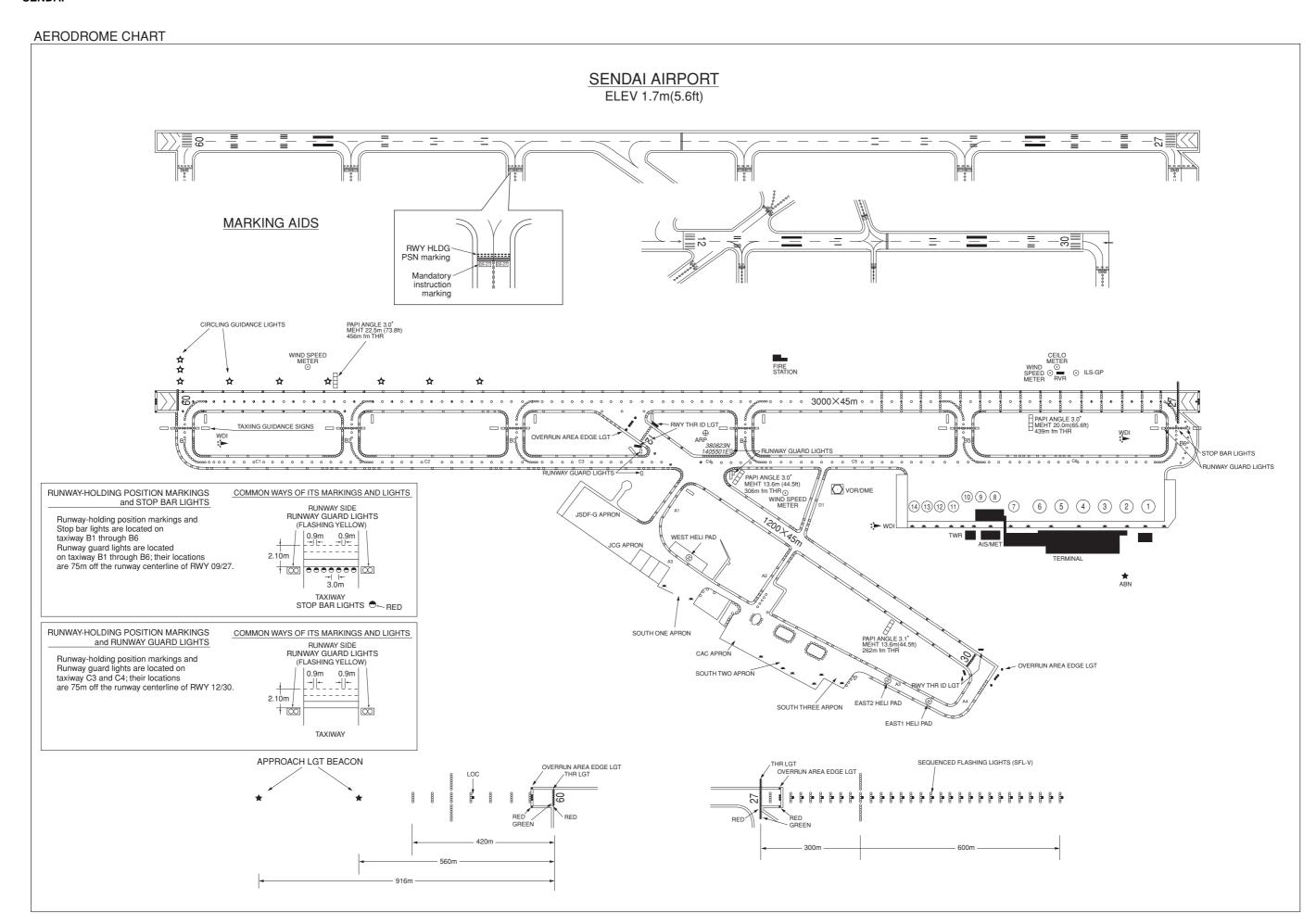
Instrument Approach Chart (RNAV(RNP) Y RWY09)

Instrument Approach Chart (RNAV(RNP) RWY27)

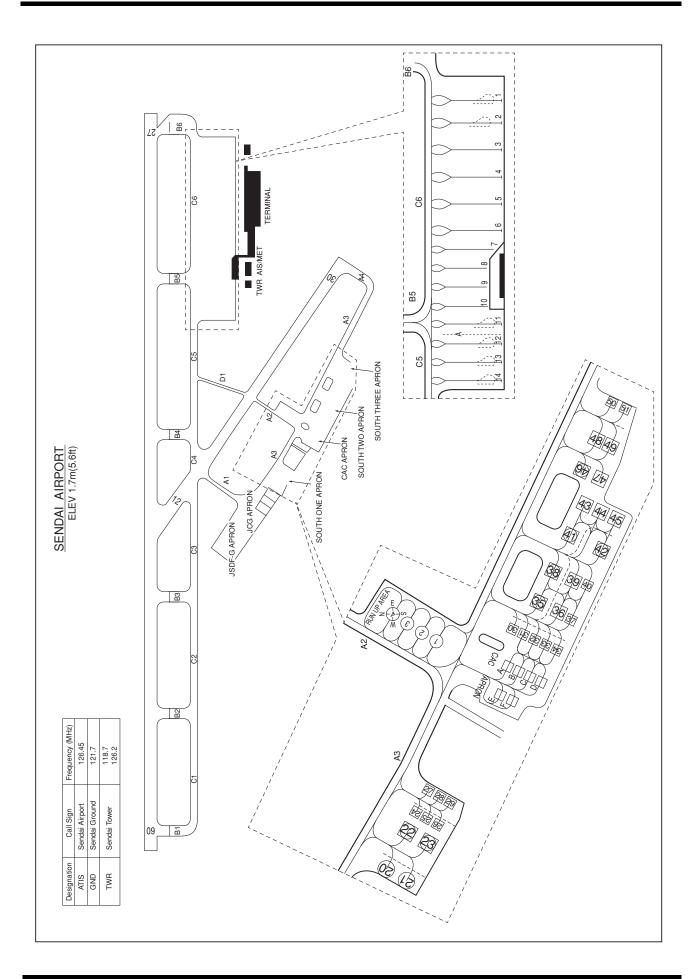
Other Chart (Visual REP)

Other Chart (LDG CHART)

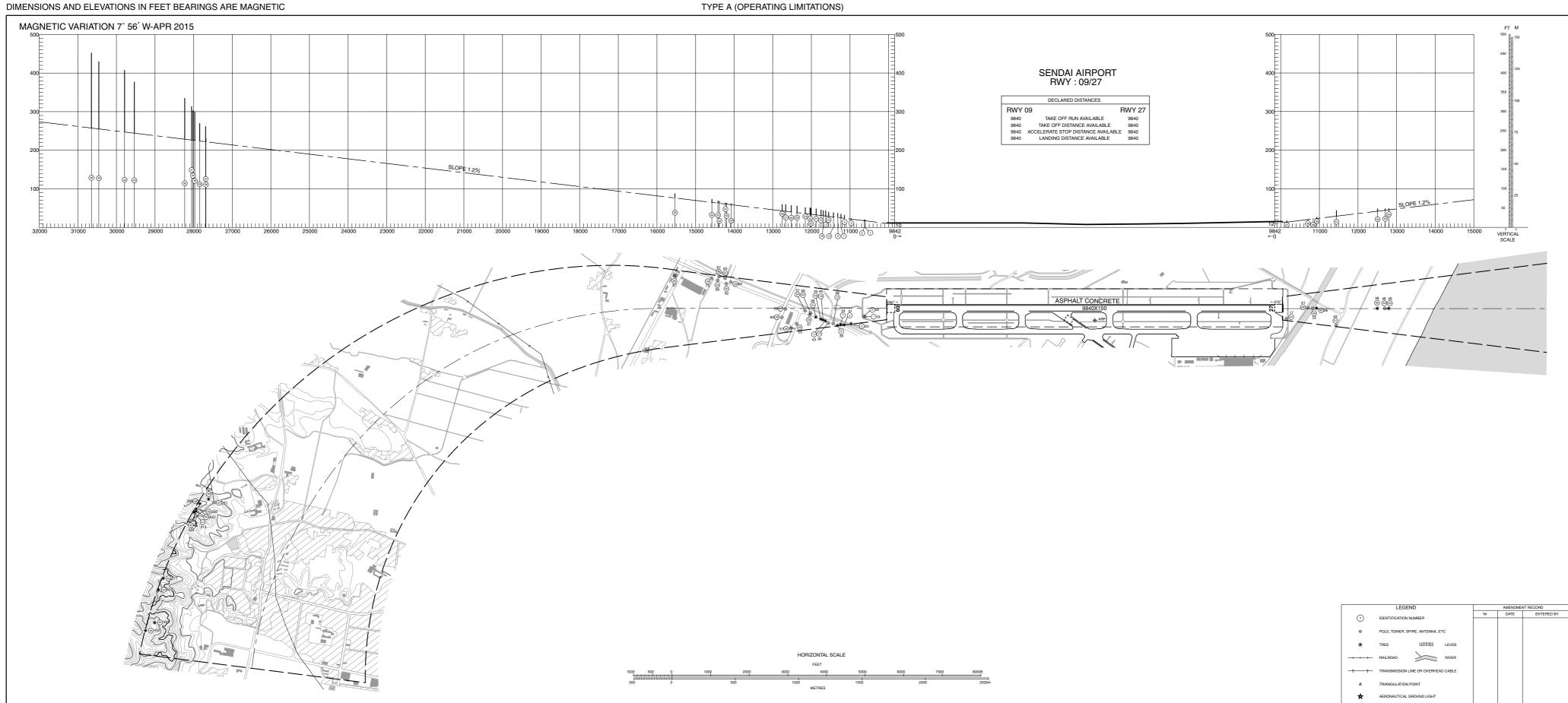
Other Chart (MVA CHART)

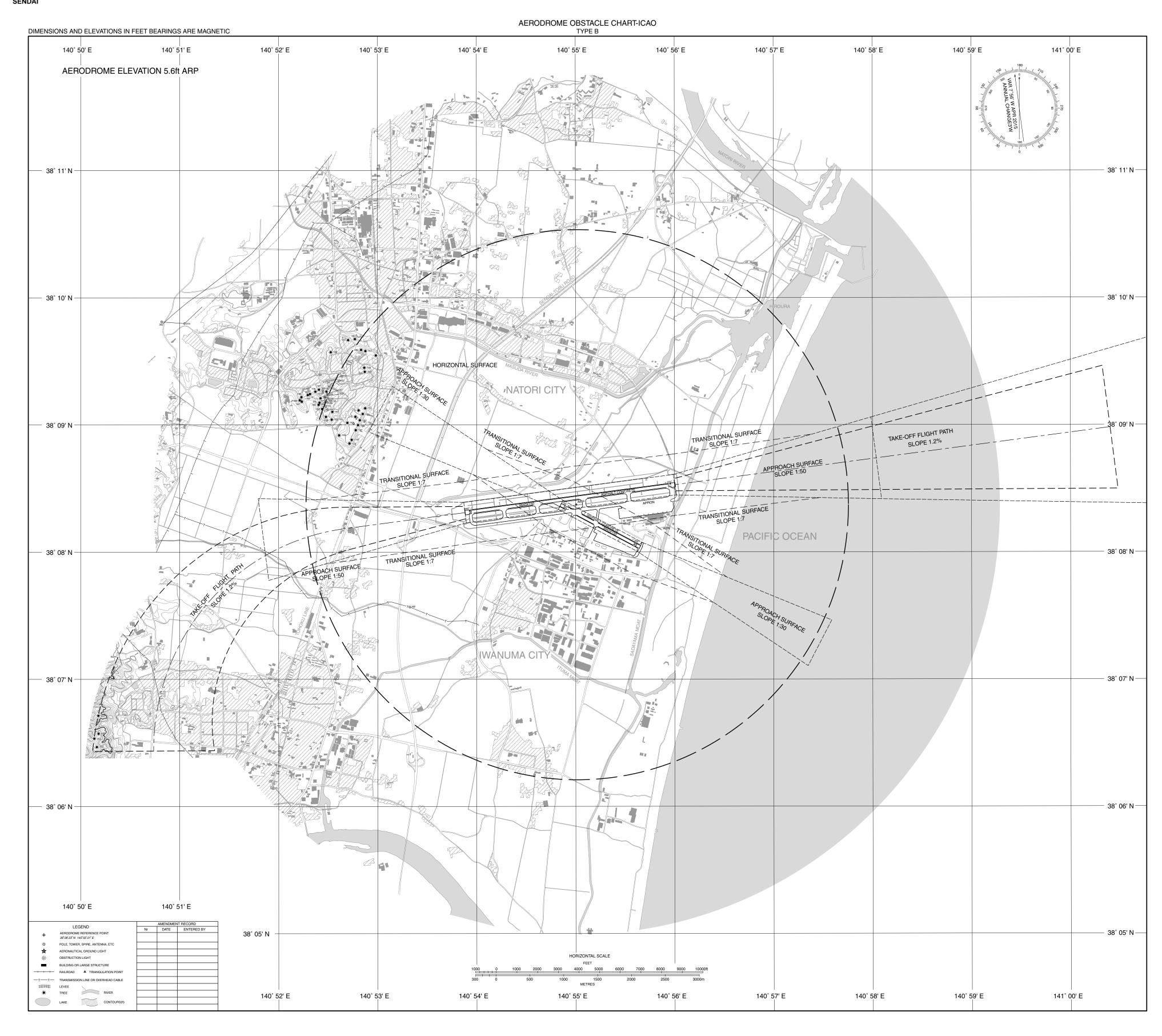


Civil Aviation Bureau, Japan (EFF:21 MAY 2020)



AERODROME OBSTACLE CHART-ICAO TYPE A (OPERATING LIMITATIONS)





RJSS / SENDAI SID

IWAKI EIGHT DEPARTURE

RWY 09: Climb RWY HDG to SDE 3.4DME (2.8NM FM DER), turn right to intercept and proceed...

RWY 12: Climb ...

RWY 27: Climb RWY HDG to 500FT, turn left HDG 090° to intercept and proceed... RWY 30: Climb RWY HDG to 500FT, turn left HDG 090° to intercept and proceed...

...via SDE R120, via IXE R024 to IXE VOR/DME.

Cross IXE R024/46.7DME at or above 11000FT, cross IXE R024/28.0DME at or above FL150, cross IXE VOR/DME at assigned altitude.

Note RWY 09: 5.0% climb gradient required up to 500FT.

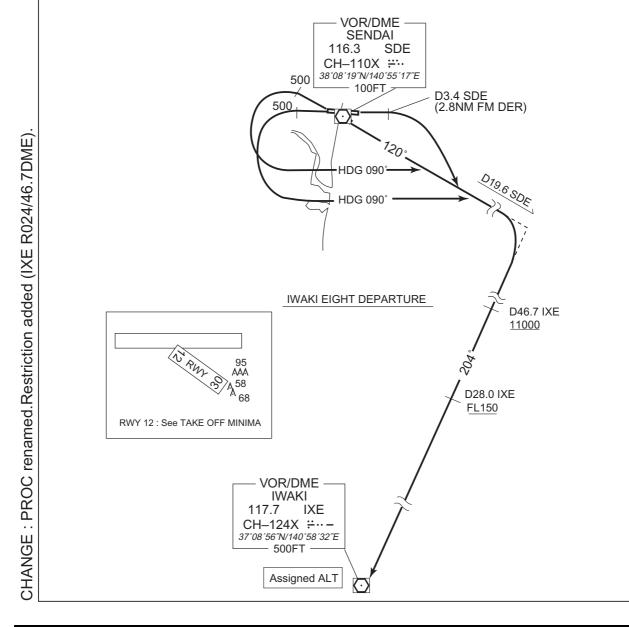
OBST ALT 62FT located at 0.2NM 102° FM end of RWY09.

RWY 27: 5.0% climb gradient required up to 1000FT.

OBST ALT 919FT located at 4.1NM 269° FM end of RWY27.

RWY 30: 5.0% climb gradient required up to 1200FT.

OBST ALT 1181FT located at 5.3NM 283° FM end of RWY30.



RJSS / SENDAI SID

SENDAI REVERSAL SIX DEPARTURE

RWY 09: Climb RWY HDG to SDE 3.4DME (2.8NM fm DER), turn right to intercept and proceed...

RWY 12: Climb ...

RWY 27: Climb RWY HDG to 500FT, turn left HDG 090° to intercept and proceed...

RWY 30: Climb RWY HDG to 500FT, turn left HDG 090° to intercept and proceed... ...via SDE R120 to 10.0DME, turn right, direct to SDE VOR/DME.

Cross SDE VOR/DME at or above 7000FT(*).

* In case of proceeding to IXE VOR/DME : Cross SDE VOR/DME at or above 5000FT.

In case of proceeding to FKE VOR/DME : Cross SDE VOR/DME at or above 6000FT.

Note RWY 09: 5.0% climb gradient required up to 500FT.

OBST ALT 62FT located at 0.2NM 102° FM end of RWY09.

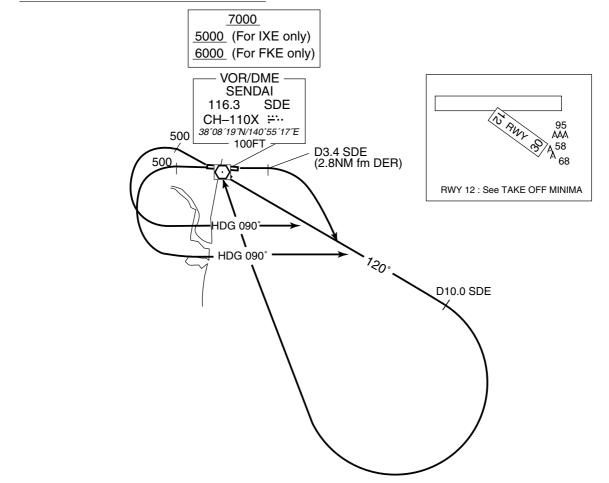
RWY 27: 5.0% climb gradient required up to 1000FT.

OBST ALT 919FT located at 4.1NM 269° FM end of RWY27.

RWY 30: 5.0% climb gradient required up to 1200FT.

OBST ALT 1181FT located at 5.3NM 283° FM end of RWY30.

SENDAI REVERSAL SIX DEPARTURE



RJSS / SENDAI RNAV SID and TRANSITION DERBY THREE DEPARTURE / NIIGATA TRANSITION RNAV 1 Note 1) DME/DME/IRU or GNSS required. Critical DME %The aircraft equipped with only DME/DME/IRU RWY09 SDE: 8.0NM to ANEMO - 3.0NM to ANEMO must be able to update its position without delay 5.0NM to EBOSI - EBOSI at the starting point of take-off roll. IXE: 8.0NM to ANEMO - 3.0NM to ANEMO 2) RADAR service required. HPE: 5.0NM to EBOSI - 2.0NM to EBOSI DME GAP RWY27 SDE: 5.0NM to EBOSI - EBOSI HPE: 5.0NM to EBOSI - EBOSI RWY09 09DER - 8.0NM to ANEMO NIIGATA TRANSITION 3.0NM to ANEMO - 5.0NM to EBOSI RWY27 27DER - 5.0NM to EBOSI SDE: DERBY - 58.0NM to GTC NIIGATA TRANSITION YTE: DERBY - 18.0NM to GTC 4.0NM to GTC - GTC YSE: 18.0NM to GTC - 4.0NM to GTC GTC: 40.0NM to GTC - 18.0NM to GTC Inappropriate Navaids 14.0NM to GTC - 4.0NM to GTC See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. VOR/DMF VAR 8°W (2014) **SENDAI** SDE 116.3 CH-110X 38°08′19″N/140°55′17″E 100FT 500 090 270 SS901 SS701 380854.6N 1405935.6E 380758.5N 1405031.7E NIIGATA TRANSITION **VORTAC** NIIGATA 115.5 GTC CH-102X Ξ: 37°57′30″N/139°06′54″E DERBY THREE DEPARTURE 0FT 63.9 276 -276 17.6 **EBOSI** 284 380028.7N 1403735.8E **NIIGATA DERBY ANEMO** (GTC) 380012.7N 375833 5N 1402748.4E 375729 9N 1405950.4E 1390653.6F 10000 DERBY THREE DEPARTURE RWY09: Climb on HDG090° at or above 500FT, direct to SS901, turn right direct to ANEMO, to EBOSI, to DERBY at or above 10000FT. RWY27: Climb on HDG270° at or above 500FT, direct to SS701, turn left direct to EBOSI, to DERBY at or above 10000FT. NOTE RWY09: 5.0% climb gradient required up to 500FT. OBST ALT 62FT located at 0.2NM 102° FM end of RWY09. RWY27: 5.9% climb gradient required up to 1300FT. OBST ALT 1181FT located at 4.6NM 284° FM end of RWY27.

From DERBY at or above 10000FT, to GTC.

NIIGATA TRANSITION

RJSS / SENDAI

RNAV SID and TRANSITION

DERBY THREE DEPARTURE

RWY09

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	_	_	090 (082.5)	-7.8	_	1	+500	1	_	RNAV1
002	DF	SS901	Υ	_	-7.8	_	_	_	_	_	RNAV1
003	DF	ANEMO	_	-	-7.8	_	R	_	ı	_	RNAV1
004	TF	EBOSI	_	284 (276.4)	-7.8	17.6	1	_	-	_	RNAV1
005	TF	DERBY	_	276 (268.1)	-7.8	7.7	_	+10000	_	_	RNAV1

RWY27

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	270 (262.5)	-7.8	_		+500	_	_	RNAV1
002	DF	SS701	Υ	_	-7.8	_	-	_	_	_	RNAV1
003	DF	EBOSI	_		-7.8	_	L	_	_	_	RNAV1
004	TF	DERBY	_	276 (268.1)	-7.8	7.7		+10000	_	_	RNAV1

NIIGATA TRANSITION

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	IF	DERBY	_	_	-7.8	_	_	+10000	_	_	RNAV1
002	TF	GTC	_	276 (268.0)	-7.8	63.9	_	_	_	_	RNAV1

RJSS / SENDAI **RNAV SID and TRANSITION** STEED THREE DEPARTURE / RIKYU TRANSITION RNAV 1 Note 1) DME/DME/IRU or GNSS required. Critical DME %The aircraft equipped with only DME/DME/IRU RWY09 SDE: 23.0NM to STEED - 8.0NM to STEED must be able to update its position without delay MXT: 18.0NM to STEED - 8.0NM to STEED at the starting point of take-off rolling. 2) RADAR service required. DME GAP RWY09 09DER - 23.0NM to STEED RWY27 SDE: 2.0NM to BUBLE - 8.0NM to STEED 8.0NM to STEED - STEED MXT: 4.0NM to BUBLE - 2.0NM to BUBLE RWY27 27DER - 4.0NM to BUBLE 18.0NM to STEED - 8.0NM to STEED 8.0NM to STEED - STEED **RIKYU TRANSITION** YTE: 25.0NM to RIKYU - 23.0NM to RIKYU Inappropriate Navaids See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1. 500 VOR/DME 500 VAR 8° W(2014) **SENDAI** 116.3 SDE 090 270 SS901 CH-110X 38°08′19″N/140°55′17″E 380854.6N 1405935.6E 100FT **BUBLE** 380333.7N 1405956.2E STEED THREE DEPARTURE 20.0 188 **RIKYU TRANSITION STEED** 374336.2N 1405932.8E **RIKYU** 373327.8N 1402731.8E STEED THREE DEPARTURE RWY09: Climb on HDG090° at or above 500FT, direct to SS901, turn right direct to STEED. RWY27: Climb on HDG270° at or above 500FT, turn left direct to BUBLE, to STEED. NOTE RWY09: 5.0% climb gradient required up to 500FT. OBST ALT 62FT located at 0.2NM 102° FM end of RWY09. RWY27: 5.0% climb gradient required up to 1000FT. OBST ALT 919FT located at 4.1NM 269° FM end of RWY27. **RIKYU TRANSITION** From STEED, to RIKYU.

RJSS / SENDAI

RNAV SID and TRANSITION

STEED THREE DEPARTURE

RWY09

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	090 (082.5)	-7.8	_		+500	_	_	RNAV1
002	DF	SS901	Υ	_	-7.8	_	_	_	_	_	RNAV1
003	DF	STEED	_	_	-7.8	_	R	_	_	_	RNAV1

RWY27

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	_	_	270 (262.5)	-7.8	_	_	+500	_	_	RNAV1
002	DF	BUBLE	_	_	-7.8	_	L	_	_	_	RNAV1
003	TF	STEED	_	188 (180.9)	-7.8	20.0	_	_	_	_	RNAV1

RIKYU TRANSITION

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	IF	STEED	_	_	-7.8	_	_	_	_	_	RNAV1
002	TF	RIKYU	_	256 (248.4)	-7.8	27.3	_	_	_	_	RNAV1

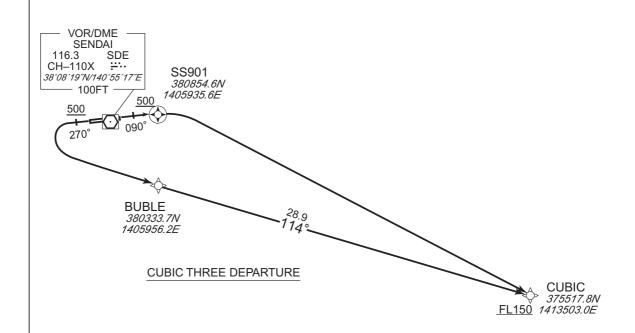
See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

RJSS / SENDAI **RNAV SID**

CUBIC THREE DEPARTURE RNAV 1 Note 1) DME/DME/IRU or GNSS required. Critical DME *The aircraft equipped with only DME/DME/IRU RWY09 SDE, IXE: 29.0NM to CUBIC - CUBIC must be able to update its position without delay RWY27 MXT: 4.0NM to BUBLE - 2.0NM to CUBIC at the starting point of take-off roll. SDE: 2.0NM to BUBLE - 12.0NM to CUBIC 2) RADAR service required. RWY09 09DER - 29.0NM to CUBIC RWY27 27DER - 4.0NM to BUBLE Inappropriate Navaids

VAR 8° W(2014)

DME GAP



CUBIC THREE DEPARTURE

RWY09: Climb on HDG090° at or above 500FT, direct to SS901, turn right direct to CUBIC at or above FL150.

RWY27: Climb on HDG270° at or above 500FT, turn left direct to BUBLE, to CUBIC at or above FL150.

NOTE RWY09: 5.0% climb gradient required up to 500FT.

OBST ALT 62FT located at 0.2NM 102° FM end of RWY09.

RWY27: 5.0% climb gradient required up to 1000FT.

OBST ALT 919FT located at 4.1NM 269° FM end of RWY27.

RJSS / SENDAI RNAV SID

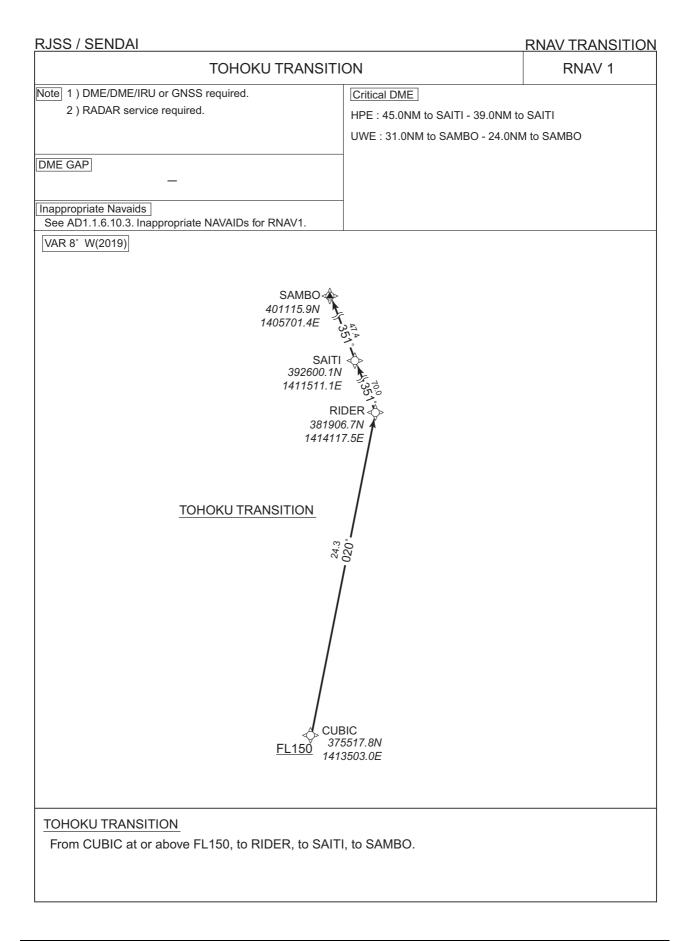
CUBIC THREE DEPARTURE

RWY09

Serial	Path	Waypoint	Fly	Course	_			Altitude	•		
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	090 (082.5)	-7.8	_	_	+500	_	_	RNAV1
002	DF	SS901	Υ	_	-7.8	_	_	_	_	_	RNAV1
003	DF	CUBIC	_	_	-7.8	_	R	+FL150	_	_	RNAV1

RWY27

Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	VA	_	_	270 (262.5)	-7.8	_	_	+500	_	_	RNAV1
002	DF	BUBLE	_	_	-7.8	_	L	_	_	_	RNAV1
003	TF	CUBIC	_	114 (106.5)	-7.8	28.9	_	+FL150	_	_	RNAV1



RJSS / SENDAI

RNAV TRANSITION

TOHOKU TRANSITION

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CUBIC	_	_	-8.2	_	_	+FL150	_	_	RNAV1
002	TF	RIDER	_	020 (011.6)	-8.2	24.3	_	_	_	_	RNAV1
003	TF	SAITI	_	351 (343.2)	-8.2	70.0	_	_	_	_	RNAV1
004	TF	SAMBO	_	351 (343.0)	-8.2	47.4	_	_	_	_	RNAV1

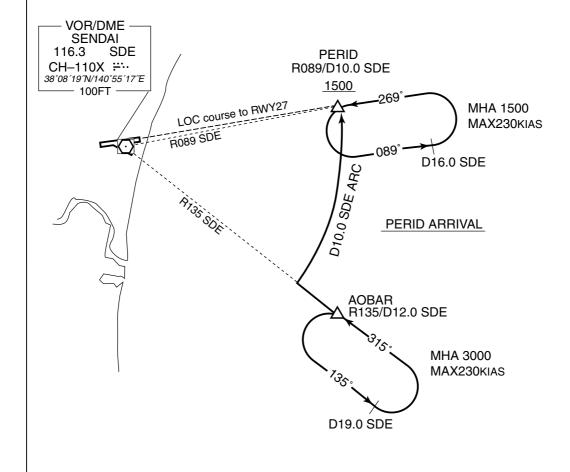
STANDARD ARRIVAL CHART-INSTRUMENT

RJSS / SENDAI STAR

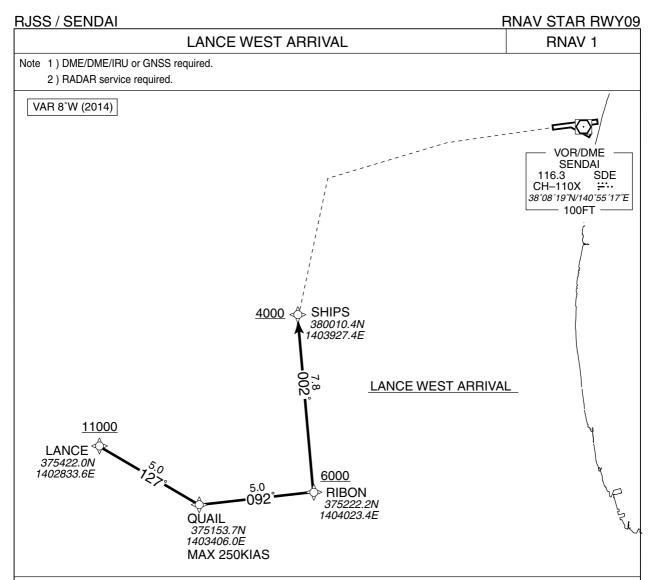
PERID ARRIVAL

From over AOBAR, via SDE R135 to intercept and proceed via SDE 10.0DME counterclockwise ARC to PERID.

Cross PERID at or above 1500FT.



STANDARD ARRIVAL CHART - INSTRUMENT



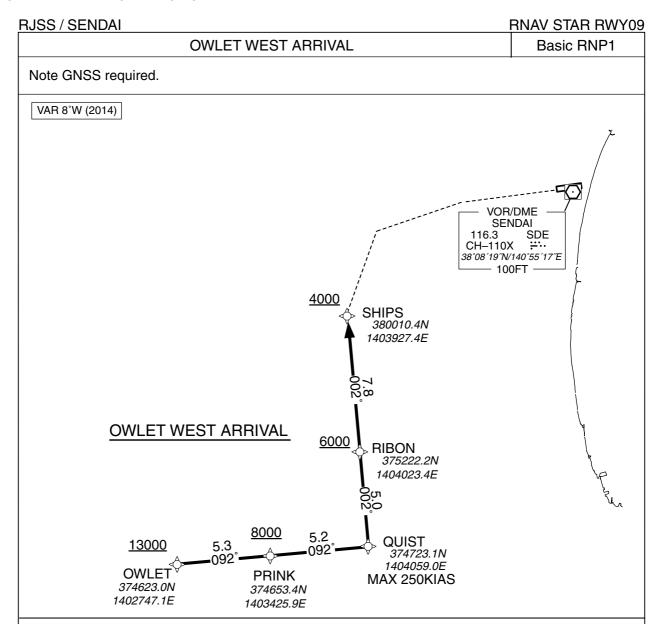
LANCE WEST ARRIVAL

From LANCE at or above 11000FT, to QUAIL, to RIBON at or above 6000FT, to SHIPS at or above 4000FT.

Critical DME	SDE: 5.0NM to QUAIL – 4.0NM to QUAIL 2.0NM to QUAIL – QUAIL HPE: 1.0NM to QUAIL – QUAIL
DME GAP	QUAIL - SHIPS
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	LANCE	_	_	-7.8	_	_	+11000	_	_	RNAV1
002	TF	QUAIL	_	127 (119.4)	-7.8	5.0	_	_	-250	_	RNAV1
003	TF	RIBON	_	092 (084.5)	-7.8	5.0	_	+6000	_	_	RNAV1
004	TF	SHIPS	_	002 (354.6)	-7.8	7.8	_	+4000	_	_	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

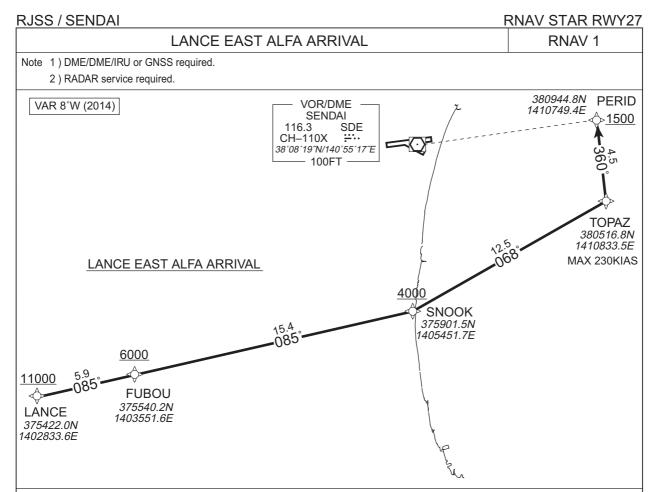


OWLET WEST ARRIVAL

From OWLET at or above 13000FT, to PRINK at or above 8000FT, to QUIST, to RIBON at or above 6000FT, to SHIPS at or above 4000FT.

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	OWLET	_	_	-7.8	_	_	+13000	_	_	Basic RNP1
002	TF	PRINK	_	092 (084.4)	-7.8	5.3	_	+8000	_	_	Basic RNP1
003	TF	QUIST	_	092 (084.5)	-7.8	5.2	_	_	-250	_	Basic RNP1
004	TF	RIBON	_	002 (354.6)	-7.8	5.0	_	+6000	_	_	Basic RNP1
005	TF	SHIPS	_	002 (354.6)	-7.8	7.8	_	+4000	_	_	Basic RNP1

STANDARD ARRIVAL CHART-INSTRUMENT



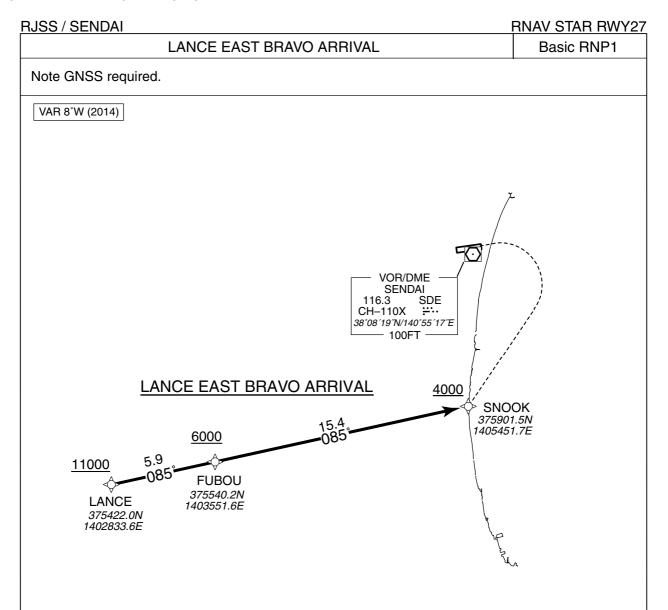
LANCE EAST ALFA ARRIVAL

From LANCE at or above 11000FT, to FUBOU at or above 6000FT, to SNOOK at or above 4000FT, to TOPAZ, to PERID at or above 1500FT.

Critical DME	MXT: 3.0NM to SNOOK - 8.0NM to TOPAZ SDE: 11.0NM to TOPAZ - PERID IXE: 3.0NM to SNOOK - 12.0NM to TOPAZ
DME GAP	LANCE – 3.0NM to SNOOK
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.

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	LANCE	_	_	-7.8	_	_	+11000	_	_	RNAV1
002	TF	FUBOU	_	085 (077.2)	-7.8	5.9	_	+6000	_	_	RNAV1
003	TF	SNOOK	_	085 (077.3)	-7.8	15.4	_	+4000	_	_	RNAV1
004	TF	TOPAZ	_	068 (059.8)	-7.8	12.5	_	_	-230	_	RNAV1
005	TF	PERID	_	360 (352.6)	-7.8	4.5	_	+1500	_	_	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

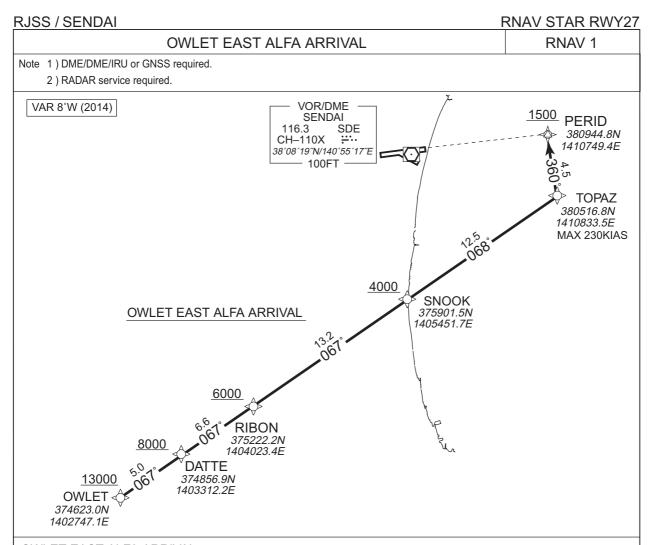


LANCE EAST BRAVO ARRIVAL

From LANCE at or above 11000FT, to FUBOU at or above 6000FT, to SNOOK at or above 4000FT.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	
001	IF	LANCE	_	_	-7.8	_	_	+11000	_	_	Basic RNP1
002	TF	FUBOU	_	085 (077.2)	-7.8	5.9	_	+6000	_	_	Basic RNP1
003	TF	SNOOK	_	085 (077.3)	-7.8	15.4	_	+4000	_	_	Basic RNP1

STANDARD ARRIVAL CHART-INSTRUMENT



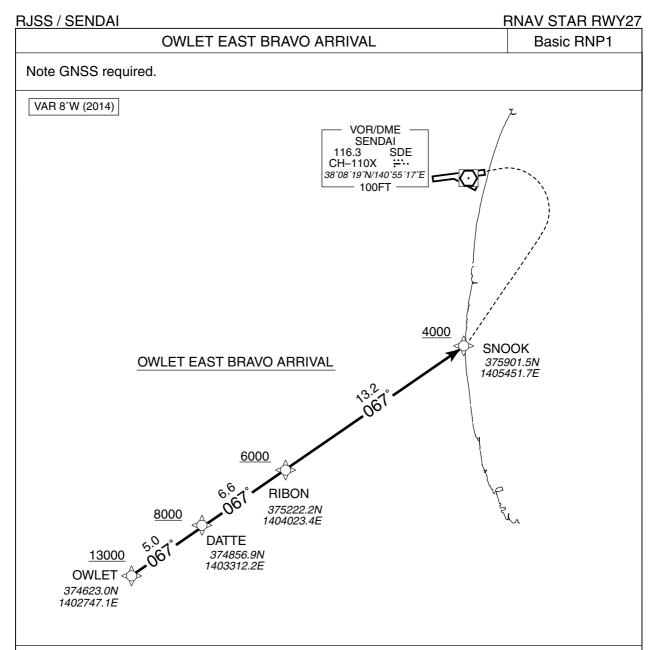
OWLET EAST ALFA ARRIVAL

From OWLET at or above 13000FT, to DATTE at or above 8000FT, to RIBON at or above 6000FT, to SNOOK at or above 4000FT, to TOPAZ, to PERID at or above 1500FT.

	MXT: 2.0NM to SNOOK – 8.0NM to TOPAZ				
Critical DME	SDE: 11.0NM to TOPAZ – PERID IXE: 2.0NM to SNOOK – SNOOK				
DME GAP	DATTE – 2.0NM to SNOOK				
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1.				

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation		Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	OWLET	_	_	-7.8	_	_	+13000	_	_	RNAV1
002	TF	DATTE	_	067 (059.0)	-7.8	5.0	_	+8000	_	_	RNAV1
003	TF	RIBON	_	067 (058.9)	-7.8	6.6	_	+6000	_	_	RNAV1
004	TF	SNOOK		067 (059.7)	-7.8	13.2	_	+4000	_	_	RNAV1
005	TF	TOPAZ		068 (059.8)	-7.8	12.5	_	_	-230	_	RNAV1
006	TF	PERID	_	360 (352.6)	-7.8	4.5	1	+1500		_	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

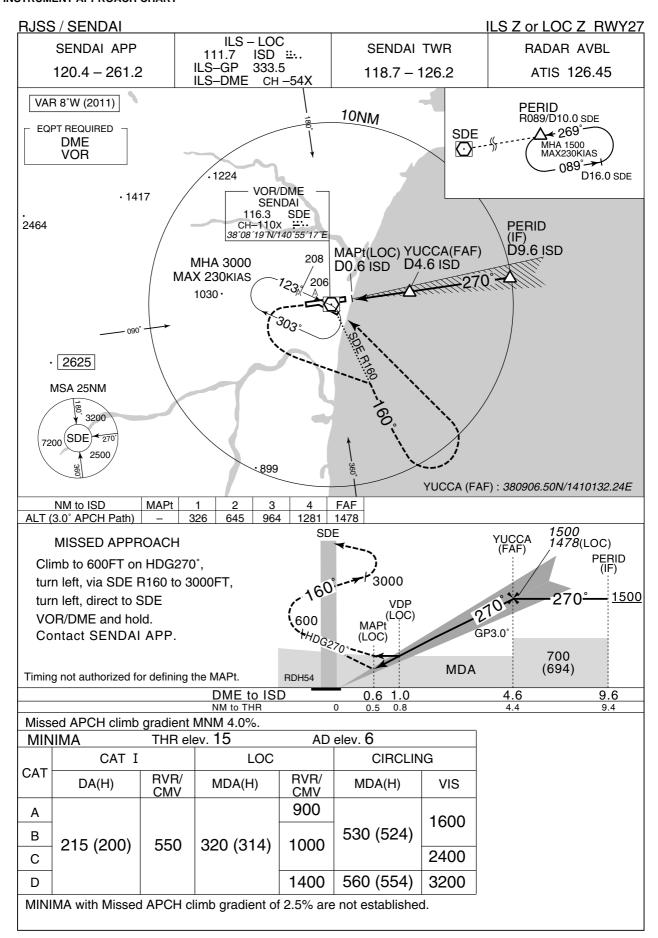


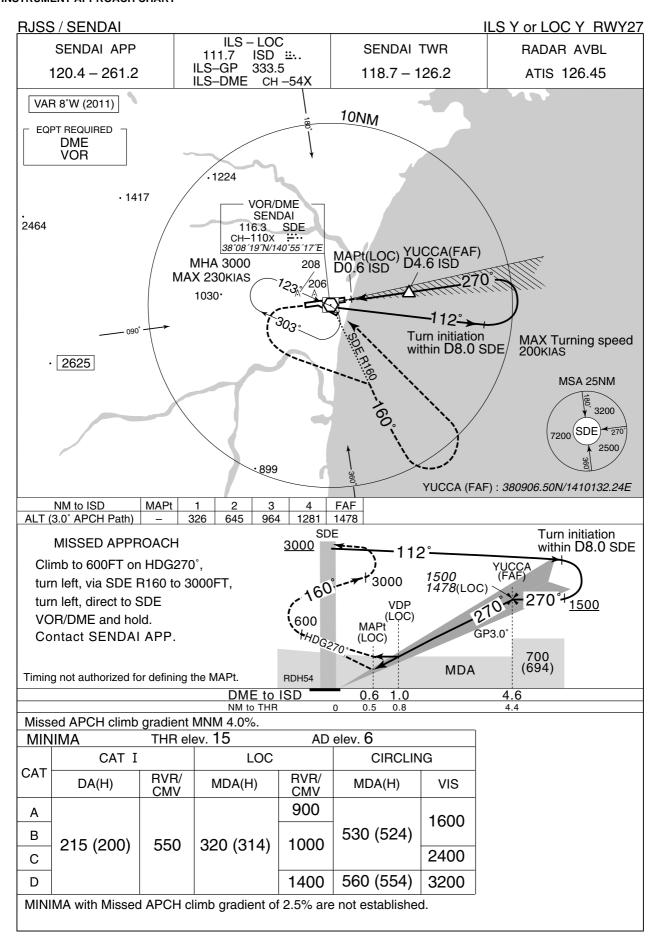
OWLET EAST BRAVO ARRIVAL

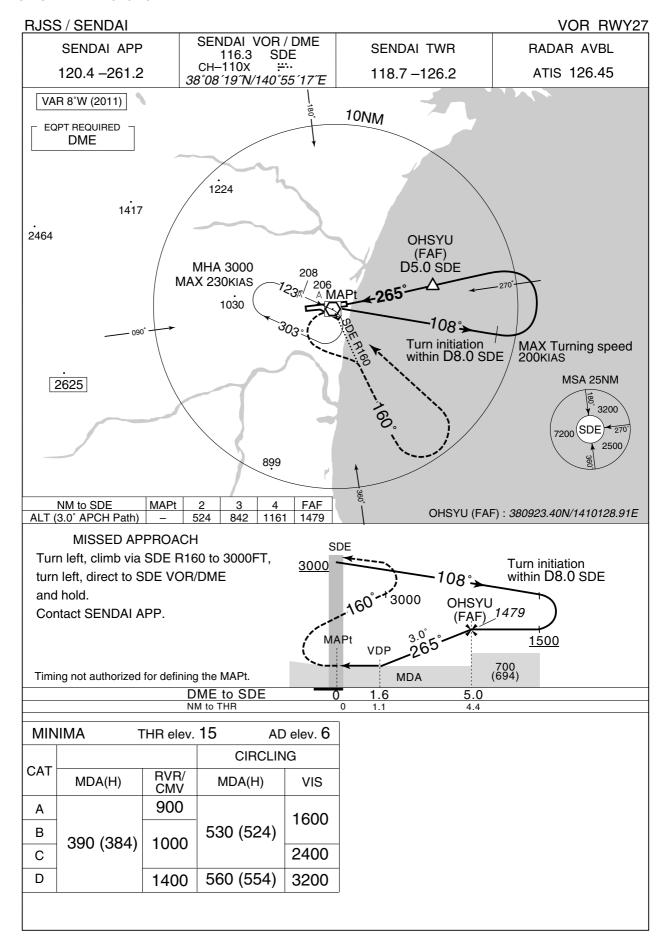
From OWLET at or above 13000FT, to DATTE at or above 8000FT, to RIBON at or above 6000FT, to SNOOK at or above 4000FT.

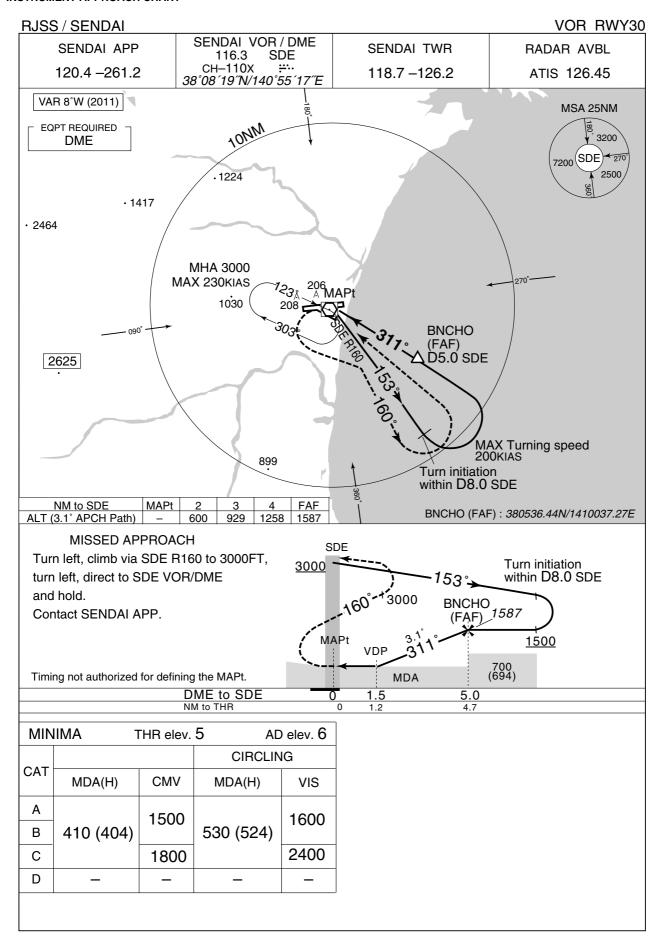
Serial	Path	Waypoint	Fly	Course	Magnetic	Distance	Turn	Altitude	Speed	Vertical	Navigation
Number	Descriptor	Identifier	Over	°M(°T)	Variation	(NM)	Direction	(FT)	(KIAS)	Angle	Specification
001	IF	OWLET	_	_	-7.8	_	_	+13000	_	_	Basic RNP1
002	TF	DATTE	_	067 (059.0)	-7.8	5.0		+8000	_	_	Basic RNP1
003	TF	RIBON	_	067 (058.9)	-7.8	6.6		+6000	_	_	Basic RNP1
004	TF	SNOOK	_	067 (059.7)	-7.8	13.2	_	+4000	_	_	Basic RNP1

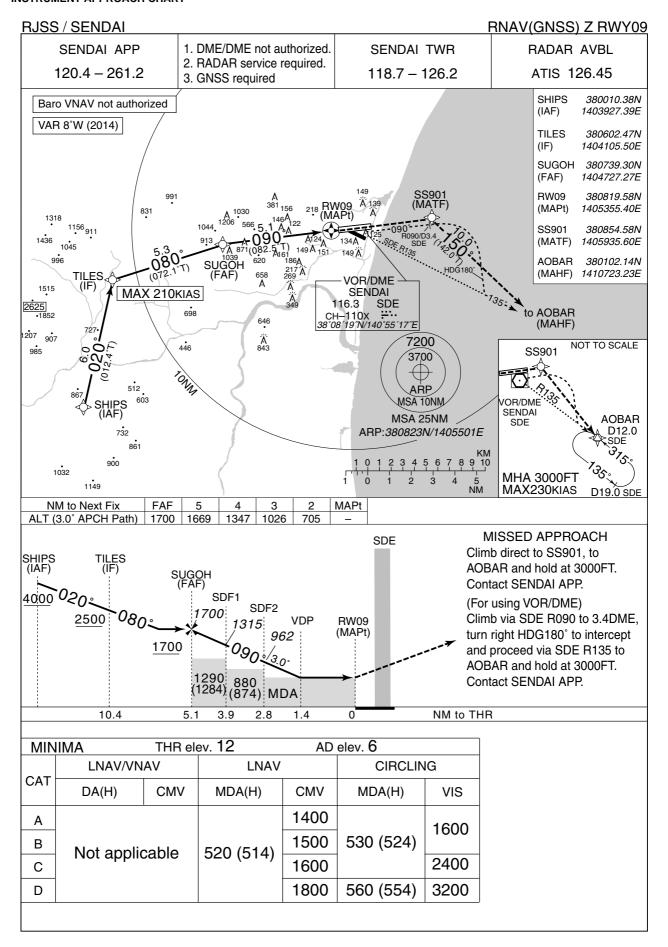


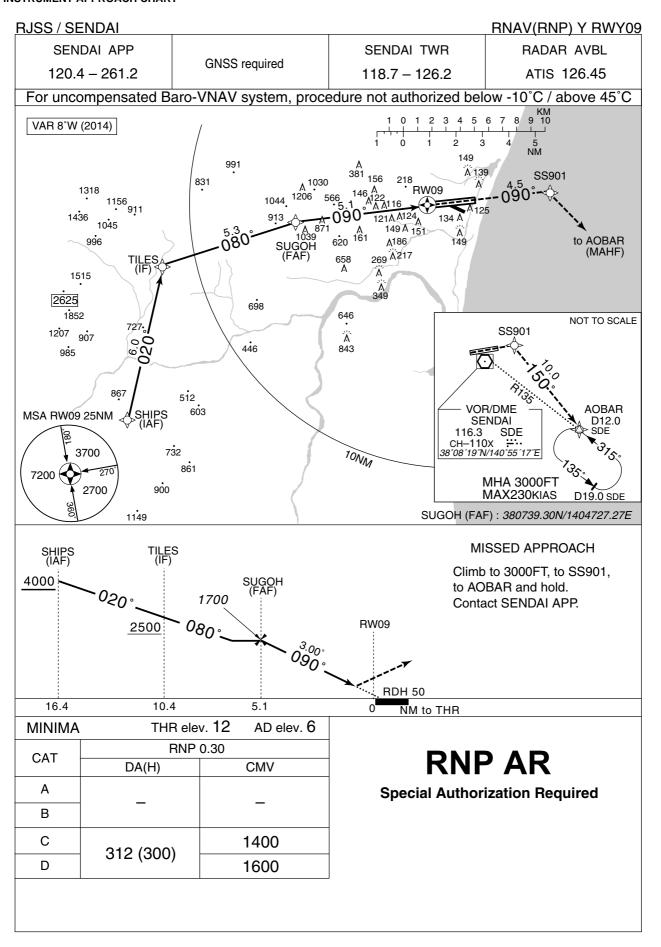












RJSS / SENDAI

RNAV(RNP) Y RWY09

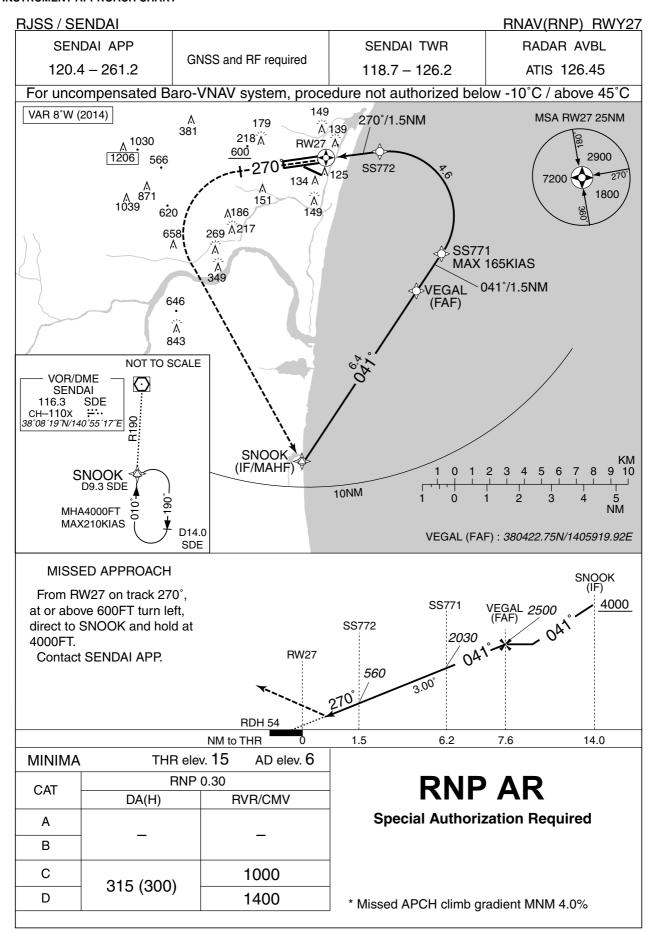
RNAV(RNP) Y RWY09

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	SHIPS	_	_	-7.8	_	_	+4000	_	_	_
002	TF	TILES	_	020 (012.4)	-7.8	6.0	_	+2500	_	_	1.0
003	TF	SUGOH	_	080 (072.1)	-7.8	5.3	_	1700	_	_	1.0
004	TF	RW09	Υ	090 (082.5)	-7.8	5.1	_	62	_	-3.00/50	0.3
005	TF	SS901	_	090 (082.5)	-7.8	4.5	_	_	_	_	1.0
006	TF	AOBAR	_	150 (142.0)	-7.8	10.0	_	3000	_	_	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates
SHIPS	380010.38N/1403927.39E
TILES	380602.47N/1404105.50E
SUGOH	380739.30N/1404727.27E
RW09	380819.58N/1405355.40E
SS901	380854.58N/1405935.60E
AOBAR	380102.14N/1410723.23E



RJSS / SENDAI

RNAV(RNP) RWY27

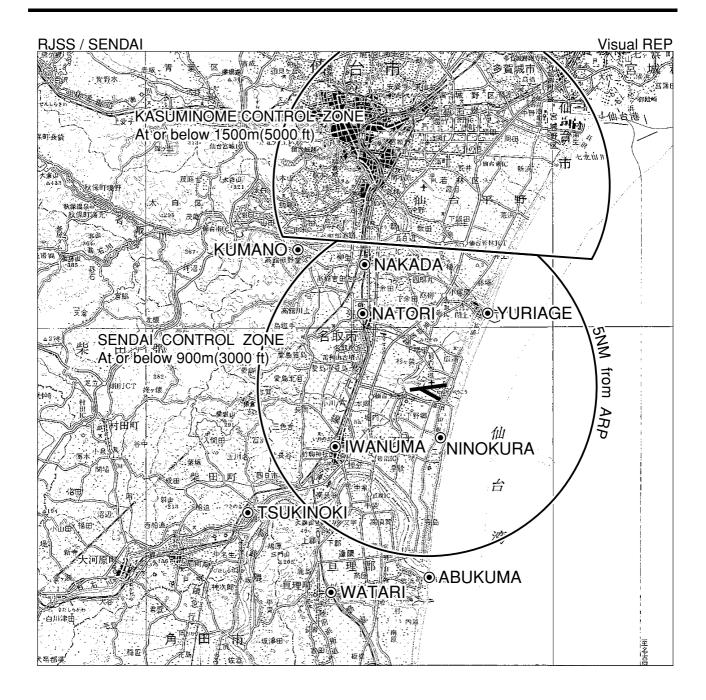
RNAV(RNP) RWY27

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	SNOOK	_	_	-7.8	_	_	+4000	_	_	_
002	TF	VEGAL	_	041 (033.3)	-7.8	6.4	_	2500	_	_	1.0
003	TF	SS771	_	041 (033.4)	-7.8	1.5	_	2030	-165	-3.00	0.3
004	RF Center: SSRF1 R=2.02NM	SS772	_	_	-7.8	4.6	L	560	_	-3.00	0.3
005	TF	RW27	Υ	270 (262.6)	-7.8	1.5	_	69	_	-3.00/54	0.3
006	FA	_	_	270 (262.6)	-7.8	_	_	+600	_	_	1.0
007	DF	SNOOK	_	_	-7.8	_	L	4000	_	_	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
SNOOK	375901.53N/1405451.66E	SSRF1	380643.74N/1405813.69E
VEGAL	380422.75N/1405919.92E		
SS771	380536.78N/1410021.86E		
SS772	380844.14N/1405753.87E		
RW27	380832.18N/1405557.56E		



RJSS / SENDAI Visual REP

Call sign	BRG / DIST from ARP	Remarks
槻 木 Tsukinoki	242°/ 6.2NM	JR槻木駅 Station
岩 沼 Iwanuma	244°/ 3.0NM	JR岩沼駅 Station
亘 理 Watari	212°/ 6.6NM	JR亘理駅 Station
阿 武 隈 Abukuma	186°/ 5.6NM	阿武隈川河口 River-mouth of the Abukuma
二 の 倉 Ninokura	169°/ 1.7NM	県南浄化センター Sewage disposal center
閖 上 Yuriage	054°/ 3.0NM	名取川河口 River-mouth of the Natori
中 田 Nakada	343°/ 3.8NM	JR南仙台駅 Station
名 取 Natori	329°/ 2.6NM	JR名取駅 Station
熊 野 Kumano	327°/ 5.1NM	熊野神社 the Kumano Shrine

注:有視界飛行方式により霞目管制圏から仙台管制圏へ進入しようとする航空機は、仙台管制圏に入圏する前に仙台タワーへ通報すること。

NOTE: When any VFR flight enters SENDAI CTR directly via KASUMINOME CTR, the pilot shall report to "SENDAI TWR" before entering SENDAI CTR.

注:VFR機とIFR機の航行の安全のため、仙台進入管制区のうち、仙台空港から15NM以内の地域をVFRで航行する場合は、仙台TCAと積極的にコンタクトすること。

NOTE: In order to ensure the safety operations for both VFR and IFR aircraft, VFR aircraft should contact SENDAI TCA positively when the flight includes SENDAI Approach Control Area, within 15 miles from Sendai Airport.

