

STANDARD DEPARTURE CHART-INSTRUMENT

RJEC / ASAHIKAWA

SID

KAGRA FOUR DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left,...

RWY34 : Climb via AWE R337 to 2.3DME, turn right,...

...direct to AWE VOR/DME, via AWE R283 to KAGRA.

Cross AWE VOR/DME at or above 4000FT, cross KAGRA at or above 5000FT.

Note RWY16 : 5.3% climb gradient required up to 1600FT.

OBST ALT 1247FT located at 2.0NM 146° FM end of RWY16.

RWY34 : 5.0% climb gradient required up to 1000FT.

OBST ALT 696FT located at 1.4NM 021° FM end of RWY34.



STANDARD DEPARTURE CHART-INSTRUMENT

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ASAHIKAWA REVERSAL FIVE DEPARTURE

RWY16 : Climb RWY HDG to 1600FT, turn left HDG320° to intercept and proceed ...

RWY34 : Climb via AWE R337 to 2.3DME, turn right,...

... via AWE R005 to 8.5DME, turn right, direct to AWE VOR/DME.

Cross AWE VOR/DME at or above 5000FT (8000FT for East bound).

Note RWY16 : 5.3% climb gradient required up to 1600FT.

OBST ALT 1247FT located at 2.0NM 146° FM end of RWY16.

ASAHIKAWA REVERSAL FIVE DEPARTURE

STANDARD ARRIVAL CHART-INSTRUMENT

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RNAV STAR RWY16

OSOBA ARRIVAL

Basic RNP1

Note GNSS required.

VAR 10° W(2017)



OSOBA ARRIVAL

From ASIBE at or above 8000FT, to OSOBA at or above 6000FT.

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	ASIBE	—	—	-9.5	—	—	+8000	—	—	Basic RNP1
002	TF	OSOBA	—	006 (356.1)	-9.5	25.5	—	+6000	—	—	Basic RNP1

INSTRUMENT APPROACH CHART

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ILS Z or LOC Z RWY34



CHANGE: GP angle added.

INSTRUMENT APPROACH CHART

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ILS Y or LOC Y RWY34

SAPPORO CONTROL 132.6 – 255.2 134.25 – 260.4	ILS-LOC 110.5 IAW :≡- ILS-GP 329.6 ILS-DME CH-42X	DAISETSU TOWER 118.55 – 126.2	NO RADAR
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MISSED APPROACH

Climb on HDG343° to 1200FT, turn right HDG085° to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT. Contact DAISETSU TOWER.

No turn before IAW 0.7DME.



Missed APCH climb gradient MNM 5.0%

MINIMA		THR elev. 721		AD elev. 690		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	RVR/CMV	MDA(H)	VIS
A	921(200)	550	1370(680)	1200	1370(680)	1600
B				1400		
C					1800	1560(870)
D				3200		

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

CHANGE: GP angle added.

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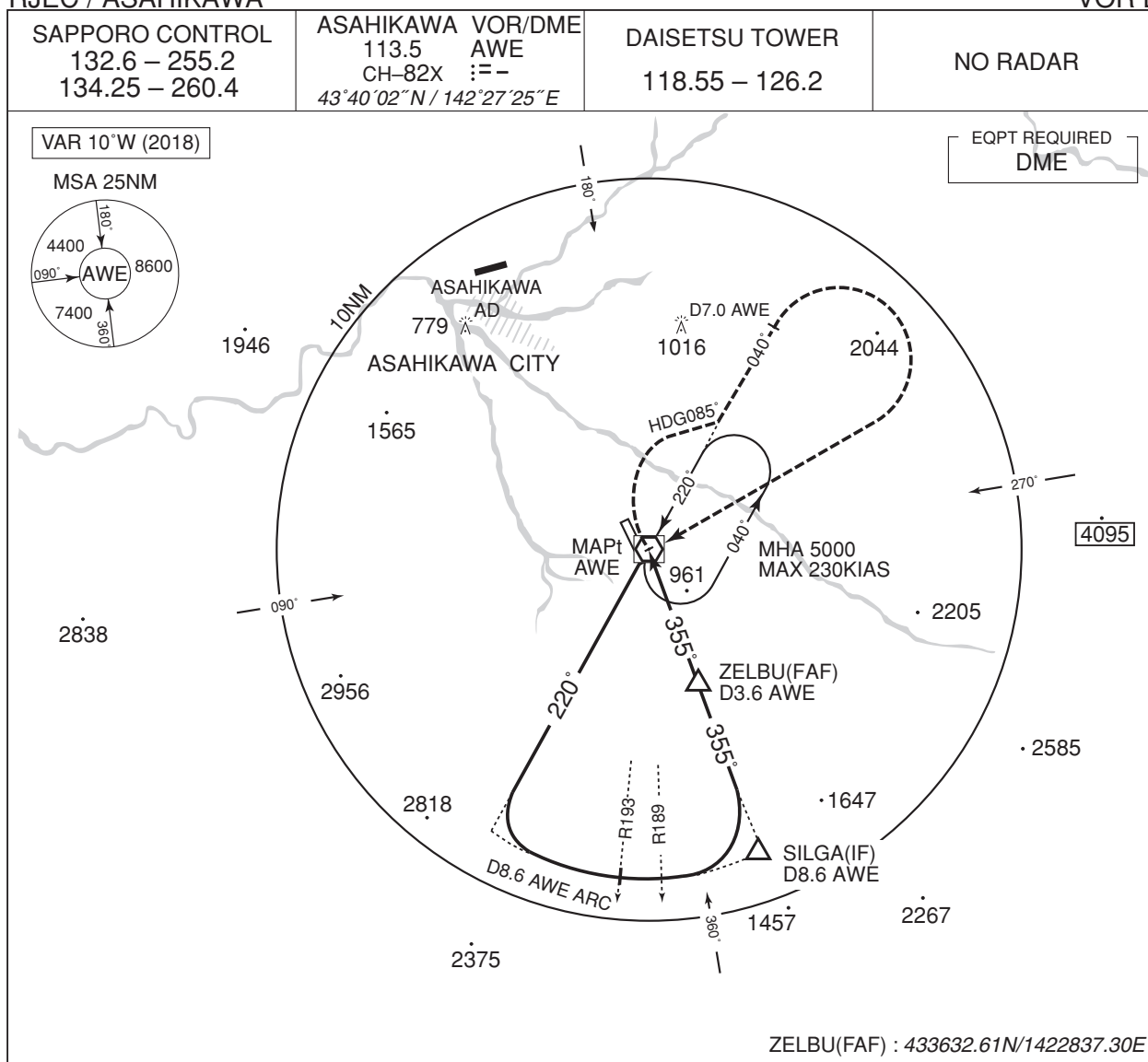
VOR A



INSTRUMENT APPROACH CHART

RJEC / ASAHIKAWA

VOR B



MISSED APPROACH

Turn right HDG085° to intercept and proceed via AWE R040 to 7.0DME, turn right, direct to AWE VOR/DME and hold at 5000FT.
Contact DAISETSU TOWER.

No turn before MAPt.
Timing not authorized for defining the MAPt.



Missed APCH climb gradient MNM 5.0%

MINIMA AD elev. 690		
CAT	CIRCLING	
	MDA(H)	VIS
A	1460(770)	1600
B		1600
C	1560(870)	2400
D		3200

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

INSTRUMENT APPROACH CHART

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VOR C



INSTRUMENT APPROACH CHART

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RNAV(GNSS) Z RWY16



MISSED APPROACH

Direct to EC660, turn right
direct to AWE and hold at 5000FT.
Contact DAISETSU TOWER.

(For using VOR/DME)

Climb via AWE R166 to 6.0DME,
turn right, direct to AWE
VOR/DME and hold at 5000FT.
Contact DAISETSU TOWER.



Missed APCH climb gradient MNM 3.1%

MINIMA

THR elev. 660

AD elev. 690

CAT	LNAV/VNAV		LNAV		CIRCLING	
	DA(H)	CMV	MDA(H)	CMV	MDA(H)	VIS
A	Not applicable	1000 (340)	1200	1280 (590)	1600	1600
B				1300 (640)		
C				1400		
D				1560 (870)		

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

INSTRUMENT APPROACH CHART

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➔ RNAV(RNP) Y RWY16

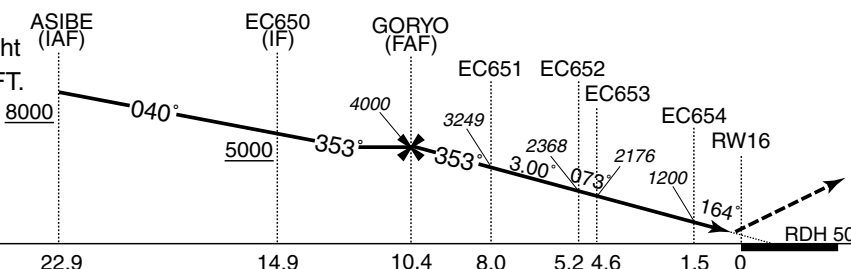
SAPPORO CONTROL 132.6 – 255.2 134.25 – 260.4	GNSS and RF required.	DAISETSU TOWER 118.55 – 126.2	NO RADAR
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For uncompensated Baro-VNAV systems, procedure not authorized below -30°C / above 45°C



MISSED APPROACH

To EC660 on track 164°, turn right
direct to AWE and hold at 5000FT.
Contact DAISETSU TOWER.



NM to THR

22.9

14.9

10.4

8.0

5.2

4.6

1.5

0

Missed APCH climb gradient MNM 3.0%

MINIMA THR elev.660 AD elev.690

CAT	RNP 0.30	
	DA(H)	CMV
A	—	—
B	—	—
C	960 (300)	1400
D	—	—

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

RNP AR
Special Authorization Required

INSTRUMENT APPROACH CHART

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➡ RNAV(RNP) Y RWY16

RNAV (RNP) Y RWY16Coding 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	ASIBE	—	—	-9.5	—	—	+8000	—	—	—
002	TF	EC650	—	040 (030.1)	-9.5	8.0	—	+5000	—	—	1.0
003	TF	GORYO	—	353 (343.1)	-9.5	4.5	—	4000	—	—	1.0
004	TF	EC651	—	353 (343.0)	-9.5	2.4	—	3249	—	-3.00	0.30
005	RF Center: ECRF1 r=1.98NM	EC652	—	—	-9.5	2.8	R	2368	—	-3.00	0.30
006	TF	EC653	—	073 (063.0)	-9.5	0.6	—	2176	—	-3.00	0.30
007	RF Center: ECRF2 r=1.93NM	EC654	—	—	-9.5	3.1	R	1200	—	-3.00	0.30
008	TF	RW16	Y	164 (154.2)	-9.5	1.5	—	710	—	-3.00/50	0.30
009	CF	EC660	Y	164 (154.2)	-9.5	7.2	—	—	—	—	1.0
010	DF	AWE	—	—	-9.5	—	R	5000	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
ASIBE	432703.98N/1421700.93E	ECRF1	434104.78N/1422225.25E
EC650	433359.28N/1422233.14E	ECRF2	434123.69N/1422307.68E
GORYO	433814.72N/1422045.68E		
EC651	434030.03N/1421948.65E		
EC652	434250.78N/1422111.17E		
EC653	434307.07N/1422155.45E		
EC654	434214.29N/1422531.40E		
RW16	434051.04N/1422626.96E		
EC660	433419.98N/1423047.35E		
AWE	434002.15N/1422724.65E		

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Visual REP



Call sign	BRG / DIST from ARP	Remarks
旭山 Asahiyama	022°/ 6.0NM	旭山動物園 Zoo
神楽岡 Kaguraoka	332°/ 5.9NM	神楽岡公園 Park
神居古潭 Kamuikotan	298°/11.3NM	橋 Bridge
美瑛 Biei	194°/ 5.3NM	道路 (大曲) Road
西神楽 Nishikagura	296°/ 2.4NM	JR駅 Station
上富良野 Kamifurano	185°/12.4NM	JR駅 Station
芦別 Ashibetsu	240°/14.7NM	JR駅 Station
忠別ダム Chubetsu dam	119°/ 8.3NM	ダム Dam
神居ダム Kamui dam	237°/ 6.1NM	ダム Dam
岐登牛山 Kitoushiyama	060°/ 5.6NM	スキー場 Ski ground

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Minimum Vectoring Altitude CHART

