

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) - STANDARD
INSTRUMENT APPROACH PROCEDURE
FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
ARDUE	HAXUL (FB)	037.67 / 6.95	2700	LPV: DA LNAV/VNAV: DA LNAV: RW32
ARMUW	GOREC (FB)	208.58 / 15.40	2900	CLIMB TO 2700 DIRECT DOSCA AND HOLD.
CLAPS (IAF)	FETUD (NOPT) (FB)	310.32 / 10.18	2700	
GOREC (IAF)	FETUD (NOPT) (FB)	228.68 / 5.00	2700	
HAXUL (IAF)	FETUD (NOPT) (FB)	048.54 / 5.00	2700	
FETUD (IF/IAF)	CUCAT (FB)	318.61 / 6.29	2600	ADDITIONAL FLIGHT DATA: HOLD NW, RT, 138.39 INBOUND. CHART FAS OBST: 1332 STACK 451918N/0953751W DISTANCE TO THLD FROM 387 HAT: 1.09 NM. WAAS CHANNEL # 99710 REFERENCE PATH ID: W32A

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD SE FETUD, RT, 318.61 INBOUND, 2700 FT. IN LIEU OF PT (IAF)

3. FAC: 318.55 FAF: CUCAT DIST FAF TO MAP: 4.71 THLD: 4.71

4. MIN. ALT: FETUD 2700, CUCAT 2600

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:

6. MIN GS INCPT: 2600 GS ALT AT: CUCAT OM: MM: IM:

7. GS ANGLE: 3.00 TCH: 41.0 34:1 IS NOT CLEAR

8. MSA FROM: RW32 3400

MAG VAR: 5E EPOCH YEAR: 1985

MINIMUMS

TAKEOFF:		STANDARD	X	SEE FAA FORM 8260-15A FOR THIS AIRPORT	ALTERNATE: N A		STANDARD @									
CATEGORY ==>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1426	1 1/2	387	1426	1 1/2	387		NA			NA					
LNAV/VNAV DA	1710	2 1/2	671	1710	2 1/2	671		NA			NA					
LNAV MDA	1700	1	661	1700	1	661		NA			NA					
CIRCLING	1740	1	701	1740	1	701		NA			NA					

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ARMUW VIA V175 NORTHBOUND.
SEE 8260-10

CITY AND STATE BENSON, MN	ELEVATION: 1039 TDZE: 1039 AIRPORT NAME: BENSON MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, AMDT 1 12 MAR 2009	SUP: AMDT: ORIG DATED 09/01/2005
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NOTES CONT.**CHART NOTE: BARO-VNAV NA WHEN USING APPLETON ALTIMETER SETTING.****CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE APPLETON ALTIMETER SETTING AND INCREASE ALL DA AND MDA 40 FEET, INCREASE CIRCLING CAT B VISIBILITY 1/4 MILE.**

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FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBBB
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	W32A
REFERENCE PATH IDENTIFIER (APPROACH ID)	451838.0780N
LTP/FTP LATITUDE	0953845.4025W
LTP/FTP LONGITUDE	+02903
LTP/FTP ELLIPSOIDAL HEIGHT	452050.6800N
FPAP LATITUDE	0954000.5500W
FPAP LONGITUDE	00041.0
THRESHOLD CROSSING HEIGHT (TCH)	F
TCH UNITS SELECTOR (METERS OR FEET USED)	03.00
GLIDEPATH ANGLE (GPA)	106.75
COURSE WIDTH AT THRESHOLD	1528
LENGTH OFFSET	40.0
HORIZONTAL ALERT LIMIT (HAL)	50.0
VERTICAL ALERT LIMIT (VAL)	

CRC REMAINDER

E389519B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03166
FPAP ORTHOMETRIC HEIGHT	+03166

CITY AND STATE
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ARINC FLIGHT INSPECTION SUMMARY - VERSION 424-18

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	ARDUE	ARDUE	010		IF		FB				
	ARDUE	HAXUL	020	IAF	TF		FB	2.0	037.7 (043T)	007.0	02700
	ARDUE	FETUD	030		TF		FB	1.0	048.5 (054T)	005.0	02700
	ARMUW	ARMUW	010		IF		FB				
	ARMUW	GOREC	020	IAF	TF		FB	2.0	208.6 (214T)	015.4	02900
	ARMUW	FETUD	030		TP		FB	1.0	228.7 (234T)	005.0	02700
	CLAPS	CLAPS	010	IAF	IF		FB				
	CLAPS	FETUD	020		TP		FB	1.0	310.3 (315T)	010.2	02700
	FETUD	FETUD	010		HF	R	FB		318.6 (324T)	004.0	02700
		FETUD	010	FACF	IF		FB				02700
		CUCAT	020	FAF	TF		FB	0.5	318.6 (324T)	006.3	02600
		RW32	030	MAP	TF		FO	0.3	318.6 (324T)	004.7	01080

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE
	DOSCA	040		DF		FO	1.0			02700
	DOSCA	050		HM	R	FO	2.0	138.4 (143T)	004.0	02700

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ARDUE	N450243.92	W0954150.57	N4502.732	W09541.843
	ARMUW	N452636.41	W0951145.54	N4526.607	W09511.759
	CLAPS	N450334.50	W0951923.36	N4503.575	W09519.389
	CUCAT	N451551.75	W0953447.27	N4515.863	W09534.788
	DOSCA	N452901.87	W0954837.70	N4529.031	W09548.628
	FETUD	N451048.24	W0952930.39	N4510.804	W09529.507
	GOREC	N451346.06	W0952348.67	N4513.768	W09523.811
	HAXUL	N450750.14	W0953511.51	N4507.836	W09535.192
	RW32	N451939.08	W0953845.40	N4519.651	W09538.757

RUNWAY DATA	THRESHOLD	
RWY	ELEVATION	TCH
RW32	01039	41

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