

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT ID</u> KBBB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> BENSON	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1039	<u>TDZE</u> 1039	<u>SUPERSEDED</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 07/18/2019	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 25 JANUARY 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
DAWSO		JELDI		TF	FB	1.00	023.90	28.18	4000
ULJAB		HODUL		TF	FB	1.00	237.23	23.82	3600
HODUL	IAF	DOSCA	NOPT	TF	FB	1.00	228.46	5.00	2700
JELDI	IAF	DOSCA	NOPT	TF	FB	1.00	048.32	5.00	2700
DOSCA	IF/IAF	CUKUP		TF	FB	1.00	138.39	6.00	2700
CUKUP	FAF	RW14	MAP	TF	FO	0.30	138.45	5.02	
RW14	MAP	1382 MSL		CA			138.45		
1382 MSL		FETUD		DF	FO	1.00			2700

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 DIRECT FETUD AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

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

2. HOLD NW DOSCA, RT, 138.39 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 138.45 FAF: CUKUP DIST FAF TO MAP: 5.02 DIST FAF TO THLD: 5.02

4. MIN ALT: DOSCA 2700, CUKUP 2700

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 343 HAT: 0.95 GS ANT:

6. MIN GP INCPT: 2700 GP ALT AT PFAF : CUKUP 2700 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 40.0

8. MSA FROM: RW14 3400

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DAWSO ON T462 WESTBOUND.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING APPLETON ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE APPLETON ALTIMETER SETTING AND INCREASE LPV DA TO 1422 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1466 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 318.61 INBOUND.
FAS OBST: 1259 AAO 452417N/0954318W.
CHART VDP AT 1.44 NM TO RW14.
WAAS CHANNEL # 49210
REFERENCE PATH ID: W14A
LTP HAE: 290.2 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1382	1	343	1382	1	343		NA			NA				
LNAV/VNAV DA	1426	1 1/8	387	1426	1 1/8	387		NA			NA				
LNAV MDA	1540	1	501	1540	1	501		NA			NA				



CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM FOR AMDT 1A INTO FORM - IAW 8260.19I PARA 8-3-4.C(3).
2. TERMINAL ROUTES: CUKUP TO RW14 COURSE FROM "138.46" TO "138.45"- NEW TARGETS EVALUATION.
3. TERMINAL ROUTES: ADDED CA LEG - IAW 8260.58B, 3-5-2.A.
4. PROFILE LINE 2: UPDATED FROM "HOLD NW DOSCA, RT, 138.39 INBOUND, 2700 FT. IN LIEU OF PT (IAF)" TO "HOLD NW DOSCA, RT, 138.39 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000." - IAW 8260.19, PARA 8-6-7.B(2).
5. PROFILE LINE 3: CHANGED FAC FROM "138.46" TO "138.45"- UPDATED EVALUATION, IAW 8260.19I.
6. PROFILE LINE 6: ADDED "2700" TO GP ALT AT PFAF - IAW 8260.19I, 8-6-7.F(2).
7. PROFILE LINE 7: ADDED "20:1: IS CLEAR" - NO PENETRATING 20:1 PENETRATIONS, IAW 8260.19I, PARA 8-6-7.G(3)(A).
8. PBN REQUIREMENTS NOTE: UPDATED "RNP APCH" TO "RNP APCH - GPS" - IAW 8260.19I, PARA 8-6-8.B(2).
9. NOTES: DELETED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DAWSO VIA V78 WESTBOUND", ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DAWSO ON T462 WESTBOUND" - V78 AIRWAY DOES NOT INCLUDE DAWSO, REPLACED WITH T462.
10. NOTES: UPDATED BACKUP ALTIMETER NOTES FROM "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE APPLETON ALTIMETER SETTING AND INCREASE ALL DA AND MDA 40 FEET" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE APPLETON ALTIMETER SETTING AND INCREASE LPV DA TO 1422 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1466 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 40 FEET" - IAW 8260.19I, PARA 8-6-11.1(A)(1).
11. ADDITIONAL FLIGHT DATA: DELETED ASTERISK FROM VDP AND "LNAV ONLY", UPDATED "CHART VDP AT 1.45 NM TO RW14" TO "CHART VDP AT 1.44 NM TO RW14" - IAW 8260.19I, PARA 1-1-5.F(12), UPDATED LTP ORTHOMETRIC HEIGHT .
12. MINIMUMS: REDUCED LPV ALL CATS VISIBILITIES FROM "1 1/4" TO "1" - IAW 8260.3E, TABLE 3-3-1.
13. MINIMUMS: REDUCED LNAV/VNAV ALL CATS VISIBILITIES FROM "1 1/2" TO "1 1/8"- IAW 8260.3E, TABLE 3-3-1.
14. FAS DATA BLOCK: UPDATED LTP ORTHOMETRIC HEIGHT FROM "+03164" TO "+03165" - CURRENT AIRNAV DATA, IAW 8260.19I, APPENDIX K(4).

COORDINATED WITH:A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR, MN AERO**FLIGHT CHECKED BY**

SCOTT WIEBE

*Digitally signed by***CASIMIR L TABAKA**

Nov 24, 2023

OFFICE

FPO

DATE

11/17/2023

DEVELOPED BY

DAVID TEFFETELLER (JOSHUA C. JUONI)

*Digitally signed by***CASIMIR L TABAKA**

Nov 24, 2023

OFFICE

AJV-A433

DATE

07/11/2023

APPROVED BY

DAVID TEFFETELLER

*Digitally signed by***CASIMIR L TABAKA**

Nov 24, 2023

OFFICE

AJV-A430

DATE**TITLE**
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBBB
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	452010.8285N
LTP/FTP LONGITUDE	0953918.7090W
LTP/FTP ELLIPSOIDAL HEIGHT	+02902
FPAP LATITUDE	451859.2100N
FPAP LONGITUDE	0953803.6000W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	8795FF56

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03165
FPAP ORTHOMETRIC HEIGHT	+03165