

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> CFE	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> BUFFALO	<u>STATE</u> MN
<u>AIRPORT ELEVATION</u> 968	<u>TDZE</u> 968	<u>SUPERSEDED</u> RNAV (GPS) RWY 36	<u>DATED</u> 06/22/2017	<u>MAG VAR</u> 1E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ORIGINAL/AMENDMENT</u> 1	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2010
		<u>ACTUAL EFFECTIVE DATE</u> 20 FEBRUARY 2025	<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>
DRAIL	IAF	HUBEV	NOPT	TF	FB	1.00	019.80	9.25	3000
MAYER	IAF	HUBEV	NOPT	TF	FB	1.00	059.72	6.25	3000
JONNA	IAF	HUBEV	NOPT	TF	FB	1.00	324.60	10.76	3000
HUBEV	IF/IAF	YABFE		TF	FB	1.00	359.78	6.10	2600
YABFE	FAF	RW36	MAP	TF	FO	0.30	359.74	5.04	
RW36	MAP	1368 MSL		CA			359.74		
1368 MSL		ZIKPO		DF	FB	1.00			
ZIKPO		SODIE		TF	FO	1.00	346.70	6.00	3400

MISSED APPROACH

MAP:

LNAV: RW36

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3400 DIRECT ZIKPO AND ON TRACK 346.70 TO SODIE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD S HUBEV, RT, 359.78 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 359.74 FAF: YABFE DIST FAF TO MAP: 5.04 DIST FAF TO THLD: 5.04
4. MIN ALT: HUBEV 3000, YABFE 2600
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: MM: IM:
6. MIN GP INCPT: GP ALT AT FAF:
7. GP ANGLE: 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH:
8. MSA FROM: RW36 3500



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DRAIL ON V412 WESTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MAYER ON V148 SOUTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

YABFE TO RW36: 3.00/40
HOLD NW, RT, 117.00 INBOUND.
FAS OBST: 1191 AAO 450648N/0935051W.
CHART VDP AT 1.40 NM TO RW36.
CHART CIRCLING ICON.

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
LNAV MDA	1460	1	492	1460	1	492	1460	1 3/8	492		NA				
CIRCLING	1460	1	492	1540	1	572	1580	1 1/2	612		NA				

CHANGES - REASONS

- PBN REQUIREMENTS CHANGED FROM "DME/DME RNP-0.3 NA" TO "RNP APCH - GPS" - IAW 8260.19J 8-6-8 (MEMO)
- ADJUSTED MISSED APPROACH CA ALTITUDE FROM "1280" TO "1368" - LNAV ONLY APPROACH AVAILABLE
- AMENDED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 3400 DIRECT ZIKPO AND TRACK 346.70 TO SODIE AND HOLD" TO "CLIMB TO 3400 DIRECT ZIKPO AND ON TRACK 346.70 TO SODIE AND HOLD" - IAW 8260.19J 8-8-6
- ADDED "20:1 IS CLEAR" - IAW 8260.19J 8-6-79(G)(3)(A)
- DELETED CHART NOTE "CHART NOTE: CIRCLING RWY 18 NA AT NIGHT" - NO 20:1 PENETRATIONS
- DELETED LPV & LNAV/VNAV APPROACHES AND ALL ASSOCIATED DATA - DUE TO VGS PENETRATIONS AND FPT AIS VALIDATION CHECKLIST
- AMENDED FAS OBSTACLE FROM "1159 AAO 450554N/0935108W" TO "1191 AAO 450648N/0935051W" - IAW 8260.19J 8-6-11(C)(NOTE)
- AMENDED CHART VDP FROM "VDP AT 1.46 NM TO RWY 36" TO "VDP AT 1.40 NM TO RWY 36" - IAW 8260.19J 8-6-11(M)(2)
- ADDED VDA IN ADDITIONAL FLIGHT DATA "YABFE TO RW36: 3.00/40" - IAW 8260.19J 8-6-11(O)(1)
- ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" TO ALTERNATE MINIMUMS - IAW 8260.19J 8-6-12(B)(4)
- AMENDED CIRCLING MINIMUMS FROM "CAT B MDA 1460/HAA 492" TO "CAT B MDA 1540/HAA 572", FROM "CAT C MDA 1540/572" TO "CAT C MDA 1580/HAA 612" - REVISED TARGETS EVALUATION



COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: MSP ATCT, AMGR, WESTERN FPT

FLIGHT CHECKED BY
JAMES MICHAEL HAWLEY

Digitally signed by
DAVID DANNER
Dec 02, 2024

OFFICE
FIOG
DATE
03/15/2017

DEVELOPED BY
CHRISTOPHER MENDENHALL

Digitally signed by
CHRIS MENDENHALL
Nov 25, 2024

OFFICE
AJV-A421
DATE
11/25/2024

APPROVED BY
BEV L BORDY

Digitally signed by
DAVID DANNER
Dec 02, 2024

OFFICE
AJV-A420
DATE
TITLE
MANAGER

