

**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> ACQ	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> WASECA	<u>STATE</u> MN
<u>AIRPORT ELEVATION</u> 1127	<u>TDZE</u> 1127	<u>SUPERSEDED</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 12/31/2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 NOVEMBER 2023	<u>REQUIRED EFFECTIVE DATE</u> 11/30/2023	<u>MAG VAR</u> 2E
				<u>EPOCH YEAR</u> 2000
				<u>CANCEL/SUSPEND</u>

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PRAGS	IAF	WITUD	NOPT	TF	FB	1.00	201.49	18.35	3000
MEMCO	IAF	WITUD	NOPT	TF	FB	1.00	081.33	10.73	3000
WITUD	IF/IAF	VIBUC		TF	FB	1.00	152.06	6.03	2700
VIBUC	FAF	UBEYI/1.70 NM TO RW15		TF	FB	0.30	152.09	3.12	
UBEYI/1.70 NM TO RW15		RW15	MAP	TF	FO	0.30	152.09	1.70	
RW15	MAP	1377 MSL		CA			152.09		
1377 MSL		VUYUN		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW15

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT VUYUN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | |
|---|---------------------------|----------------|-----------------------|------------------------|---------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. HOLD NW WITUD, RT, 152.06 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | | |
| 3. FAC: 152.09 | FAF: VIBUC | | DIST FAF TO MAP: 4.82 | DIST FAF TO THLD: 4.82 | |
| 4. MIN ALT: WITUD 3000, VIBUC 2700, UBEYI/1.70 NM TO RW15 1700 | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 250 HAT: 0.66 | GS ANT: |
| 6. MIN GP INCPT: 2700 | GP ALT AT FAF: VIBUC 2700 | | | OM: | MM: |
| 7. GP ANGLE: 3.00 | 34:1: IS CLEAR | 20:1: IS CLEAR | TCH: 40.0 | | IM: |
| 8. MSA FROM: RW15 2900 | | | | | |

QUALITY
8
CHECKED

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 PROFILE NOTE: VGSi AND RNAV GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PRGS ON V505 NORTH BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MEMCO ON T400 SOUTHWEST BOUND.
CHART NOTE: PROCEDURE NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 332.20 INBOUND.
CHART FAS OBST: 1244 TREE (27-086342) 440607N/0933325W.
WAAS CHANNEL # 70532
REFERENCE PATH ID: W15A
CHART CIRCLING ICON.
LTP HAE: 314.6 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	1377	1	250	1377	1	250	1377	1	250		NA				
LNAV/VNAV DA	1516	1 1/8	389	1516	1 1/8	389	1516	1 1/8	389		NA				
LNAV MDA	1540	1	413	1540	1	413	1540	1 1/8	413		NA				
CIRCLING	1560	1	433	1620	1	493	1760	1 3/4	633		NA				



CHANGES - REASONS

1. INCORPORATED FDC NOTAMS 0/0401 AND 4/0477.
2. TERMINAL ROUTES: UPDATED IAF LEG FROM "MKT VOR/DME TO WITUD" TO "MEMCO TO WITUD," COURSE FROM "081.35" TO "081.33," AND DISTANCE FROM "10.72" TO "10.73" – MKT VOR/DME BEING DECOMMISSIONED, NEW POINT USED PER FPT REQUEST.
3. TERMINAL ROUTES: ADDED RNP "1.00" TO MISSED APPROACH LEG – IAW 8260.19I 4-6-10.
4. TERMINAL ROUTES: UPDATED VIBUC TO UBEYI/1.70 NM TO RW15 DISTANCE FROM "3.11" TO "3.12" – UPDATED FAF COORDINATES TO ALIGN PROCEDURE WITH CURRENT CRITERIA, IAW 8260.58C 1-3-1.
5. PROFILE LINE 3 DIST FAF TO MAP AND DIST FAF TO THLD CHANGED FROM "4.81" TO "4.82" – UPDATED FAF COORDINATES
6. PROFILE LINE 4: UPDATED MIN ALT FROM "WITUD 3000, VIBUC 2700, UBEYI/1.70 NM TO RW15 1700" TO "WITUD 3000, VIBUC 2700, UBEYI/1.70 NM TO RW15 1700" (ASTERISK REMOVED) - * NO LONGER REQUIRED IAW 8260.19I 8-6-7.
7. PROFILE LINE 7: UPDATE FROM "20:1 IS NOT CLEAR" AND "34:1 IS NOT CLEAR" TO "20:1 IS CLEAR" AND "34:1 IS CLEAR" – IAW 8260.19I 8-6-7, NEW SURVEY, NEW OBSTACLE EVALUATION.
8. PBN REQUIREMENT NOTES: UPDATED FROM "RNP APCH" TO "RNP APCH – GPS" – IAW 8260.19I 8-6-8.
9. NOTES: REMOVED CHART NOTE: "BARO-VNAV NA WHEN USING OWATONNA ALTIMETER SETTING" – MOVED TO PART C: GENERAL REMARKS. FPT APPROVED.
10. NOTES: ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MEMCO ON T400 SOUTHWEST BOUND" – IAW 8260.58C 1-2-5.
11. NOTES: REMOVED CHART PLANVIEW NOTE: "PROCEDURE NA FOR ARRIVALS AT MKT VOR/DME ON V456 SOUTHBOUND" – MKT VOR/DME BEING DECOMMISSIONED.
12. NOTES: UPDATED CHART PROFILE NOTE FROM: "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" – IAW 8260.19I 8-6-9.
13. NOTES: REMOVED "LNAV ONLY" – NO LONGER REQUIRED.
14. NOTES: UPDATED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OWATONNA ALTIMETER SETTING AND INCREASE ALL DA 34 FEET AND ALL MDA 40 FT; INCREASE LNAV/VNAV VISIBILITY ALL CATS 1/8 SM, LNAV AND CIRCLING CAT C VISIBILITY 1/4 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OWATONNA ALTIMETER SETTING AND INCREASE LPV DA TO 1410 FEET; INCREASE LNAV/VNAV DA TO 1549 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM" – UPDATED AND MOVED TO PART C: GENERAL REMARKS. FPT APPROVED.
15. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST FROM: "1239 TREE 440544N/0933328W" TO "1244 TREE (27-086342) 440607N/0933325W" – UPDATED OBSTACLE EVALUATION, NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
16. CRC REMAINDER CHANGED FROM 12E553DA TO E0BE7CB2 - FPAP LAT/LONG CHANGED FROM "440319.4300N/ 0933226.8300W" TO "440319.4270N/0933226.8350W," LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+03147" TO "+03146," LTP/FTP LAT/LONG CHANGED FROM "440439.6020N/0933320.7600W" TO "440439.6010N/0933320.7595W– UPDATED FAF COORDINATES, NEW SURVEY.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR, MN DOT

FLIGHT CHECKED BY

PENDING

Digitally signed by

CASIMIR L TABAKA

Sep 28, 2023

OFFICE

DATE

DEVELOPED BY

ERIC N SUSKI (JUDITH TUTTLE)

Digitally signed by

CASIMIR L TABAKA

Sep 28, 2023

OFFICE

AJV-A430

DATE

03/20/2023

APPROVED BY

ERIC N SUSKI

Digitally signed by

CASIMIR L TABAKA

Sep 28, 2023

OFFICE

AJV-A430

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KACQ
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	440439.6010N
LTP/FTP LONGITUDE	0933320.7595W
LTP/FTP ELLIPSOIDAL HEIGHT	+03146
FPAP LATITUDE	440319.4270N
FPAP LONGITUDE	0933226.8350W
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	1712
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	E0BE7CB2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03434
FPAP ORTHOMETRIC HEIGHT	+03434

