

**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> 96D	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> WALHALLA	<u>STATE</u> ND		
<u>AIRPORT ELEVATION</u> 953	<u>TDZE</u> 953	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 04/28/2016	<u>MAG VAR</u> 7E	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 2 DECEMBER 2021	<u>REQUIRED EFFECTIVE DATE</u> 1/24/2021	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
EDSIQ		CUJZU		TF	FB	1.00	353.00	43.23	4000
HML TACAN		DEMKY		TF	FB	1.00	250.71	25.12	3200
DEMKY	IAF	BUWBI	NOPT	TF	FB	1.00	254.13	5.00	3200
CUJZU	IAF	BUWBI	NOPT	TF	FB	1.00	073.95	5.00	3200
BUWBI	IF/IAF	AKUSE		TF	FB	1.00	344.04	5.00	2700
AKUSE	FAF	RW33	MAP	TF	FO	0.30	344.03	5.36	
RW33	MAP	1353 MSL		CA			344.03		
1353 MSL		BUWBI		DF	FO	1.00			3200

**MISSED APPROACH**

**MAP:**

LNAV: RW33

**MISSED APPROACH INSTRUCTIONS:**

CLIMBING RIGHT TURN TO 3200 DIRECT BUWBI AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**





**CHANGES - REASONS**

1. UPDATE FEEDER NAME FROM HML VORTAC TO HML TACAN - VOR DECOMMISSIONED.
2. INCREASE CIRCLING CAT B MDA/HAA FROM 1680/727 TO 1960/1007 AND VISIBILITY FROM 1 TO 1 1/2 NM - UPDATED EVALUATION, NEW OBSTACLE DATA. INCOPORATED TNOTAM 0/9417 WHICH FLIGHT CHECKED THE EXPANDED CIRCLING AREAS.
3. ADDED RNP APCH - GPS TO PBN REQUIREMENTS NOTES - IAW 8260.19I, PARA 8-6-8B(2).
4. UPDATED ALTIMETER SOURCE FROM KHCO TO K96D - K96D IS THE PRIMARY LOCAL ALTIMETER SOURCE.
5. ADDED ALTERNATE MINIMUMS STANDARD EXCEPT CAT B 1100-2, NA WHEN LOCAL WEATHER NOT AVAILABLE- NEW CIRCLING RADII APPLIED VISIBILITIES INCREASED AND 96D NOW HAS ALTIMETER.
6. UPDATED PROFILE NOTE FROM VGSI AND DESCENT ANGLES NOT COINCIDENT TO VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW 8260.19I, PARA 8-6-9M(2).
7. UPDATED CHART NOTE FROM HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED TO RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - IAW 8260.19I, PARA 8-6-11K(3).
8. ADDED 20:1 IS CLEAR - AIRPORT VALIDATED 20:1 VISUAL SURFACE IS CLEAR.
9. MARVAR CORRECTED FROM 6E TO 7E - 6E APPLIED ON PREVIOUS FORM INCORRECTLY.
10. UPDATED TERMINAL ROUTE EDSIQ TO CUJZU COURSE FROM 354.00 TO 353.00 - MAGVAR 7E.
11. UPDATED TERMINAL ROUTE HML TACAN TO DEMKY COURSE FROM 251.72 TO 250.71 - MAGVAR 7E AND CHANGE FROM HML VORTAC TO MHL TACAN LAT/LONG DIFFERENCE.
12. UPDATED TERMINAL ROUTE HML TACAN TO DEMKY DISTANCE FROM 25.15 TO 25.12 - HML TACAN LAT/LONG UPDATED.
13. UPDATED TERMINAL ROUTE DEMKY TO BUWBI COURSE FROM 255.13 TO 254.13 - MAGVAR 7E.
14. UPDATED TERMINAL ROUTE CUJZU TO BUWBI COURSE FROM 074.95 TO 073.95 - MAGVAR 7E.
15. UPDATED TERMINAL ROUTE BUWBI TO AKUSE COUSE FROM 345.04 TO 344.04 - MAGVAR 7E.
16. UPDATED TERMINAL ROUTE AKUSE TO RWY 33 COURSE FROM 345.04 TO 344.03 - MAGVAR 7E AND DIFFERENCE FROM IAPA TO TARGETS BUILD, AKUSE AND RW33 DID NOT MOVE.
17. ADDED CA LEG TO TERMINAL ROUTES - CA LEG IS USED AT THE FIRST LEG OF AN RNAV MISSED APPROACH AND BE FOLLOWED BY A DF LEG IAW 8260.58B, PARA 3-5-2.
18. UPDATED PROFILE LINE 2 HOLDING COURSE FROM 345.04 TO 344.04 - MAGVAR 7E.
19. ADDED PROFILE LINE 2 BUWBI MAX HOLDING ALTITUDE 6000 - BUWBI -2 MAX HOLDING ALT UPDATED.
20. UPDATED PROFILE LINE 3 FAC FROM 345.04 TO 344.03 - MAGVAR 7E AND DIFFERENCE FROM IAPA TO TARGETS BUILD, AKUSE AND RW33 DID NOT MOVE.
21. ADDED DIST FAF TO MAP 5.36 - MUST BE SPECIFIED FOR ALL RNAV PROCEDURES IAW 8260.19L, PARA 8-6-7.C(3)
22. CHANGED CHART NOTE FROM USE HALLOCK MUNI ALTIMETER SETTING TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HALLOCK ALTIMETER SETTING - UPDATED ALTIMETER SOURCES.
23. DELETED "CHART NOTE: DME/DME RNP-0.3 NA" - IAW 8260.19H, PARA 1-1-5.F.(18).
24. ADDED 7:1 EXCLUDED OBS 1385 AAO 485036N/0975412W TO ADDITIONAL FLIGHT DATA - ORDER 8260.3 CHAPTER 2 APPLIED.
25. ADDED CHART MINNEAPOLIS CENTER FREQUENCY TO ADDITIONAL FLIGHT DATA - APPROACH CONTROL PROVIDED BY ARTCC THROUGH A REMOTE SITE IAW 8260.19L, PARA 8-2-4.B(1).
26. ADDED CHART VDP AT 2.19 NM TO RW33 - PRIMARY ALTIMETER NOW LOCAL, 20:1 SURFACE CONFIRMED CLEAR.
27. UPDATED TERMINAL ROUTE BUWBI TO AKUSE ADDED FIX TYPE (IF/IAF) - IF/IAF FIX TYPES REUQUIRED IAW 8260.19L, PARA 8-6-4.A
28. REMOVED FINAL SEGMENT TF FROM ADDITIONAL FLIGHT DATA - LEG TYPE INFORMATION FOUND IN TERMINAL ROUTES.
29. ADDED RNP VALUE TO TERMINAL ROUTE RW33 TO BUWBI - RNP VALUES FOR EACH SEGMENT IN TERMINAL ROUTES TO BE DOCUMENTED.
30. UPDATED FAS OBST ENTRY FROM FAS OBST: 1301 TREE 485409/0975357 TO CHART FAS OBST: 1301 TREES 485409N/0975357W - ADDED CHART IAW 8260.19I PARA 8-6-10.C. CHANGES FROM P-NOTAM FOR ORIG- A INCORPORATED INTO FORM - REQUIRED IAW 8260.19I PARA 8-3-4C(3).

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: AMGR, ZMP ARTCC

*Digitally signed by*

**FLIGHT CHECKED BY**  
PENDING

**DAVID TEFFETELLER**  
Oct 13, 2021

**OFFICE**

**DATE**

**DEVELOPED BY**  
DAVID TEFFETELLER (GUY COPELAND)

*Digitally signed by*  
**DAVID TEFFETELLER**  
Oct 13, 2021

**OFFICE**  
AJV-A433

**DATE**  
09/02/2021

**APPROVED BY**  
LONNIE EVERHART

*Digitally signed by*  
**DAVID TEFFETELLER**  
Oct 13, 2021

**OFFICE**  
AJV-A430

**DATE**

**TITLE**  
MANAGER

