

**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> KDYT	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> DULUTH	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 609	<u>TDZE</u> 609	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 1E	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 29 DECEMBER 2022	<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>
HAPVO	IAF	WOPMU	NOPT	TF	FB	1.00	232.42	6.00	3000
WUTEV	IAF	WOPMU	NOPT	TF	FB	1.00	052.25	6.00	3000
WOPMU	IF/IAF	OVUXE		TF	FB	1.00	322.33	6.00	2600
OVUXE	FAF	PODME/1.12 NM TO RW32		TF	FB	0.30	322.27	3.47	
PODME/1.12 NM TO RW32		RW32	MAP	TF	FO	0.30	322.27	1.12	
RW32	MAP	1100 MSL		CA			322.27		1100
1100 MSL		WOPMU		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV: RW32

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 DIRECT WOPMU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SE WOPMU, RT, 322.33 INBOUND, 3000 FT. IN LIEU OF PT (IF/IAF), MAX 6000.

3. FAF: 322.27FAF: OVUXEDIST FAF TO MAP: 4.59DIST FAF TO THLD: 4.59

4. MIN ALT: WOPMU 3000, OVUXE 2600, PODME/1.12 NM TO RW32 1120

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

6. MIN GP INCPT:GP ALT AT FAF :OM:MM:IM:

7. GP ANGLE:34:1: IS NOT CLEAR20:1: IS NOT CLEARTCH:

8. MSA FROM: RW32 3100

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CIRCLING NA TO WATERWAYS 13W, 31W, 9W, 27W.

ADDITIONAL FLIGHT DATA:

FAS OBST: 739 TREE 464212N/0920231W.
CHART: RICHARD I BONG AIRPORT.
OVUXE TO RW32: 4.00/40.
CHART 1114 TOWER 463846N/0915914W, 768 POLE 464219N/0920055W.

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	1000	1	391	1000	1	391		NA			NA				
CIRCLING	1100	1	491	1180	1	571		NA			NA				



CHANGES - REASONS

07/15/22: THIS IS A UPDATED COPY OF THE FORM DEVELOPED ON 12/11/20:

1. REMOVED CONTINGENCY NOTE: BARO-VNAV NA WHEN USING SUPERIOR ALTIMETER SETTING.
2. CHANGED WAAS COMPATIBLE TO NOT WAAS COMPATIBLE AND REMOVED REFERENCE PATH ID.
3. UPDATED RNP APCH TO RNP APCH-GPS.
4. REMOVED LPV AND LNAV/VNAV. - PER FLIGHT CHECK UNABLE TO VERIFY DUE TO LENGTH OF RUNWAY.
5. REMOVED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
6. UPDATED ARINC CODING.
7. REMOVED * LNAV ONLY FROM MIN ALT.
8. 8260-9: REMOVED CRITICAL TEMPERATURES AND CRITICAL TEMPERATURE REMARKS.
9. 8260-9: REMOVED LPV, AND LNAV/VNAV FROM "VISUAL PORTION OF FINAL" PENETRATIONS.
10. 8260-9: ADDED GENERAL REMARK ORDER 8260.3 CHAPTER 2 APPLIED TO 768 POLE 464219N/0920055W AND 1114 TOWER 463846N/0915914W.
11. ADDED VDA - LPV AND LNAV/VNAV MINIMUMS REMOVED; VDA ADDED PER 8260.3E, PARA 2-6-4.
12. REMOVED "CHART CIRCLING ICON" FROM ADDITIONAL FLIGHT DATA PER MEMO 279.

COORDINATED WITH:A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ **OTHER:** DLH APP CON, AMGR**FLIGHT CHECKED BY**

GREGORY SCOTT WIEBE

*Digitally signed by***JASON KRETSCHMER**

Nov 04, 2022

OFFICE

FPO

DATE

06/28/2022

DEVELOPED BY

DAVID DANNER (CHARLES B. BROOKS)

*Digitally signed by***JASON KRETSCHMER**

Nov 04, 2022

OFFICE

AJV-A421

DATE

10/18/2022

APPROVED BY

MARLON ROBINSON

*Digitally signed by***JASON KRETSCHMER**

Nov 04, 2022

OFFICE

AJV-A420

DATE**TITLE**
MANAGER