

**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> KDTL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> DETROIT LAKES	<u>STATE</u> MN		
<u>AIRPORT ELEVATION</u> 1396	<u>TDZE</u> 1372	<u>SUPERSEDED</u> RNAV (GPS) RWY 32	<u>ORIGINAL/AMENDMENT</u> 2	<u>DATED</u> 02/25/2021	<u>MAG VAR</u> 2E	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 7 OCTOBER 2021	<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>
PEYOK	IAF	HUSES	NOPT	TF	FB	1.00	228.12	7.20	3100
LEMDE	IAF	HUSES	NOPT	TF	FB	1.00	047.93	7.20	3100
HUSES	IF/IAF	JUSAT		TF	FB	1.00	318.02	6.00	3100
JUSAT	FAF	RW32	MAP	TF	FO	0.30	317.96	5.32	
RW32	MAP	1622 MSL		CA			317.96		
1622 MSL		ZUTIP		DF	FO	1.00			3100

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW32

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3100 DIRECT ZUTIP AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

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

2. HOLD SE HUSES, RT, 318.02 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 317.96 FAF: JUSAT DIST FAF TO MAP: 5.32 DIST FAF TO THLD: 5.32

4. MIN ALT: HUSES 3100, JUSAT 3100

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.68 GS ANT:

6. MIN GP INCPT: 3100 GP ALT AT FAF : JUSAT 3100 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 42.2

8. MSA FROM: RW32 3600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 18 AND 36.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV, LNAV/VNAV, AND LNAV CATS A/B.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 137.77 INBOUND.
FAS OBST: 1610 AAO 464537N/0954848W.
1750 AAO 464424N/0954743W.
CHART VDP AT 1.43 NM TO RW32.
WAAS CHANNEL # 86704
REFERENCE PATH ID: W32A
CHART CIRCLING ICON.
LTP HAE: 388.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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	1622	1	250	1622	1	250	1622	1	250	1622	1	250			
LNAV/VNAV DA	1656	1	284	1656	1	284	1656	1	284	1656	1	284			
LNAV MDA	1860	1	488	1860	1	488	1860	1 1/8	488	1860	1 1/8	488			
CIRCLING	1860	1	464	1860	1	464	2080	2	684	2140	2 1/2	744			



CHANGES - REASONS

1. DELETED CHART NOTE: RNP APCH AND ADDED RNP APCH - GPS TO PBN REQUIREMENTS NOTE.
2. CHANGED TERMINAL ROUTE CA LEG COURSE FROM 319.96 TO 317.96. - TYPO FROM PREVIOUS AMENDMENT.
3. MOVED ALL NOTES AND REFERENCES TO PARK RAPIDS ALTIMETER SETTING FROM 8160-3 TO REMARKS FOR CONTINGENCY PURPOSES - WEATHER INFORMATION ON WMSCR.
4. CHANGED LPV VISIBILITY ALL CATS FROM 3/4 SM TO 1 SM. - UPDATED VISCHECK RESULTS/ IAW 8260.3D TABLE 3-3-6.
5. CHANGED LNAV/VNAV VISIBILITY ALL CATS FROM 7/8 SM TO 1 SM. - UPDATED VISCHECK RESULTS/ IAW 8260.3D TABLE 3-3-6.
6. CHANGED LNAV VISIBILITY CATS A/B FROM 3/4 SM TO 1 SM. - UPDATED VISCHECK RESULTS/ IAW 8260.3D TABLE 3-3-6.
7. CHANGED CHART NOTE: INOP TABLE FROM DOES NOT APPLY TO LPV TO DOES NOT APPLY TO LPV, LNAV/VNAV, AND LNAV CATS A/B. - UPDATED VISCHECK RESULTS.
8. DELETED CHART NOTE FOR INOP ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM - UPDATED VISCHECK RESULTS.
9. RAISED CA ALTITUDE FROM 1572 TO 1622- UPDATED DA.
10. RAISED LPV DA/HAT FROM 1572/200 TO 1622/250 - NEW CONTROLLING OBSTACLE.
11. CHANGED CRC REMAINDER FROM CB0EF2F2 TO 34F1DFDF - VAL UPDATED.
12. CHANGED PROFILE LINE 5 FROM 200 HAT: 0.53 TO 250 HAT: 0.68. - NEW CONTROLLING OBSTACLE.

COORDINATED WITH:

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

FLIGHT CHECKED BY
JEFFREY W HARING

Digitally signed by
LONNIE EVERHART
Jul 19, 2021

OFFICE
FICO

DATE
07/15/2021

DEVELOPED BY
DAVID TEFFETELLER (KATHERINE EUBANKS)

Digitally signed by
LONNIE EVERHART
Jul 19, 2021

OFFICE
AJV-A432

DATE
05/12/2021

APPROVED BY
LONNIE EVERHART

Digitally signed by
LONNIE EVERHART
Jul 19, 2021

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	KDTL
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	464859.6705N
LTP/FTP LONGITUDE	0955225.2565W
LTP/FTP ELLIPSOIDAL HEIGHT	+03886
FPAP LATITUDE	465007.7835N
FPAP LONGITUDE	0955348.8570W
THRESHOLD CROSSING HEIGHT (TCH)	00042.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	34F1DFDF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04151
FPAP ORTHOMETRIC HEIGHT	+04151

