

**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> KLNL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> LAND O' LAKES	<u>STATE</u> WI		
<u>AIRPORT ELEVATION</u> 1706	<u>TDZE</u> 1705	<u>SUPERSEDED</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>DATED</u> 04/22/2021	<u>MAG VAR</u> 2W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 23 FEBRUARY 2023	<u>REQUIRED EFFECTIVE DATE</u> 12/29/2022	<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>
DINER		TECOL		TF	FO	1.00	307.23	9.35	3500
JAYME		HURSO		TF	FB	1.00	347.46	25.57	3500
HURSO	IAF	TECOL	NOPT	TF	FB	1.00	070.16	5.19	3500
COTMO	IAF	TECOL	NOPT	TF	FB	1.00	144.42	16.01	3500
TECOL	IF/IAF	JELAR		TF	FB	1.00	144.60	6.00	3500
JELAR	FAF	POZWU/1.35 NM TO RW14		TF	FB	0.30	144.66	2.78	
POZWU/1.35 NM TO RW14		RW14	MAP	TF	FO	0.30	144.66	1.35	
RW14	MAP	2106 MSL		CA			144.66		
2106 MSL		TOLOY		DF	FO	1.00			3500

MISSED APPROACH

MAP:

LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT TOLOY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD NW TECOL, RT, 144.60 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 144.66FAF: JELARDIST FAF TO MAP: 4.13DIST FAF TO THLD: 4.13

4. MIN ALT: TECOL 3500, JELAR 3500, POZWU/1.35 NM TO RW14 2320

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: RW14 3300

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 5 AND 23.
CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DINER ON V430 SOUTHEASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JAYME ON V63 SOUTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT COTMO ON V316 WESTBOUND.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 324.83 INBOUND.
CHART FAS OBST: 1921 TREE (55-093110) 461059N/0891342W.
2069 AAO 461311N/0891507W.
CHART CIRCLING ICON.
JELAR TO RW14: 4.00/40.

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	2180	1	475	2180	1	475		NA			NA				
CIRCLING	2200	1	494	2240	1	534		NA			NA				



CHANGES - REASONS

1. CHANGED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH - GPS - IAW 8260.19I PARA 8-6-8B(2).
2. REMOVED CHART NOTE: PROCEDURE NA AT NIGHT - UNLIGHTED 20:1 PENETRATIONS REMOVED AND VERIFIED REMOVED FROM THE DATABASE.
3. REMOVED CAT C FROM THE APPROACH - NEW FINAL ANGLE AND IAW 8260.3E, TABLE 2-6-1.
4. INCREASED FINAL ANGLE AND TCH FROM 3.00/35 TO 4.00/40 - TO MATCH THE PUBLISHED VGSI ANGLE/TCH.
5. CHANGED DINER FEEDER COURSE/DIST FROM 309.48/10.70 TO 307.23/9.35 - DUE TO FIX TECOL RELOCATION.
6. CHANGED HURSO INITIAL COURSE/DIST FROM 054.51/5.00 TO 070.16/5.19 - DUE TO FIX TECOL RELOCATION.
7. CHANGED COTMO INITIAL DISTANCE FROM 14.61 TO 16.01 - DUE TO TECOL RELOCATION.
8. CHANGED TECOL INTERMEDIATE COURSE FROM 144.58 TO 144.60 - DUE TO TECOL RELOCATION.
9. FINAL COURSE CHANGED FROM 144.64 TO 144.66 - FAF RELOCATION DUE TO CHANGE IN FINAL ANGLE/TCH.
10. ADDED LNAV STEPDOWN FIX POZWU/1.35 NM TO RW14 AND CROSSING ALTITUDE OF 2320- TO GAIN BEST POSSIBLE MDA PER FPT REQUEST.
11. LOWERED MDA/HAT FROM 2220/515 TO 2180/475 - PER FPT REQUEST TO GAIN LOWEST POSSIBLE MINIMUMS VIA ADDING FINAL SDF.
12. CHANGED ADDITIONAL FLIGHT DATA NOTE JELAR TO RW14: 3.00/35 TO READ JELAR TO RW14: 4.00/40 - FINAL ANGLE CHANGED.
13. CHANGED HOLD IN LIEU INBOUND HEADING FROM 144.58 TO 144.60 - TO ALIGN WITH NEW INTERMEDIATE COURSE.
14. CHANGED MISSED APPROACH HOLD INBOUND HEADING FROM 324.82 TO 324.83 - TO MATCH THE RNAV GPS RWY 32 NEW HOLD IN LIEU HEADING.
15. AIRPORT ELEVATION CHANGED FROM 1705 TO 1706 - NEW AIRNAV DATA.
16. CHANGED CA LEG FROM 2105 MSL TO 2106 MSL - AIRPORT ELEVATION CHANGED FROM 1705 TO 1706.
17. DELETED "CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - REVISED ANGLE/TCH TO MATCH PUBLISHED VGSI ANGLE/TCH.
18. CHANGED DISTANCE FAF TO MAP AND FAF TO THLD FROM 5.53 TO 4.13 - DUE TO FAF RELOCATION.
19. CIRCLING CAT A MDA LOWERED FROM 2220 TO 2200 - DUE TO LOWERING OF LNAV MDA.
20. CIRCLING CAT B HAA LOWERED FROM 535 TO 534 - DUE TO AIRPORT ELEV CHANGE.
21. CHANGED MSA CONTROLLING OBSTACLE FROM 3326 TWR (50-0226) 454003.00N/0891230.00W (4D) TO 2284 TOWER (55-000952) 460954.00N/0892147.00W (5D) AND LOWERED ALTITUDE FROM 4400 TO 3300 - NEW CONTROLLING OBSTACLE.

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

MICHAEL A GREENWOOD

Digitally signed by

RAKE MCGRAW

Dec 07, 2022

OFFICE

FPO

DATE

12/06/2022

DEVELOPED BY

JOHN LINDSEY

Digitally signed by

JOHN LINDSEY

Sep 20, 2022

OFFICE

AJV-A423

DATE

08/16/2022

APPROVED BY

MARLON ROBINSON

Digitally signed by

RAKE MCGRAW

Dec 07, 2022

OFFICE

AJV-A420

DATE**TITLE**
MANAGER