

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</u> WAUSAU DOWNTOWN	<u>AIRPORT ID</u> KAUW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> WAUSAU	<u>STATE</u> WI	
<u>AIRPORT ELEVATION</u> 1201	<u>TDZE</u> 1196	<u>SUPERSEDED</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 04/02/2015	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 15 AUGUST 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 037/30 CW 217/30	NOPT	FALET	IF/IAF	3600
2. 217/30 CW 037/30	PT	FALET	IF/IAF	3600

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>
FALET	IF/IAF	HAKMO		TF	FB	1.00	126.88	7.00	3000
HAKMO	FAF	JALER/2.10 NM TO RW13		TF	FB	0.30	126.97	3.44	
JALER/2.10 NM TO RW13		RW13	MAP	TF	FO	0.30	126.97	2.10	
RW13	MAP	1800 MSL		CA			126.97		1800
1800 MSL		ZUPIG		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW13

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1800 THEN CLIMBING LEFT TURN TO 4000 DIRECT ZUPIG AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD NW FALET, RT, 126.88 INBOUND, 3600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 126.97FAF: HAKMODIST FAF TO MAP: 5.54DIST FAF TO THLD: 5.54

4. MIN ALT:FALET 3600, HAKMO 3000, JALER/2.10 NM TO RW13 1900*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.65GS ANT:

6. MIN GP INCPT: 3000GP ALT AT FAF : HAKMO 3000OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 43.3

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 12W AND 30W.
CHART NOTE: CIRCLING NA SW OF RWY 13-31.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.14 NM TO RW13*
*LNAV ONLY
WAAS CHANNEL #90330
REFERENCE PATH ID: W13A
CHART FAS OBST: 1349 TOWER 445520N/0893850W.
HOLD S, RT, 009.55 INBOUND
LTP HAE: 328.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 1100-3

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	1446	3/4	250	1446	3/4	250	1446	3/4	250	1446	3/4	250			
LNAV/VNAV DA	1534	1 1/8	338	1534	1 1/8	338	1534	1 1/8	338	1534	1 1/8	338			
LNAV MDA	1600	1	404	1600	1	404	1600	1 1/8	404	1600	1 1/8	404			
CIRCLING	1840	1	639	1840	1	639	1960	2 1/4	759	2260	3	1059			



CHANGES - REASONS

1. AMENDED LPV DA/HAT FROM "1396/200" TO "1446/250" - NONPRECISION RWY MARKINGS.
2. REMOVED "CHART NOTE: DME/DME RNP0.3 NA" - 8260.19H, CH 8, 8-6-8 N.
3. ADDED "RNP APCH" TO PBN EQUIPMENT REQUIREMENT NOTES - 8260.19H, CH 8, 8-6-8 B(1).
4. REMOVED "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE MOSINNE ALTIMETER SETTING AND INCREASE ALL DA 32 FT AND ALL MDA 40 FT; INCREASE LNAV-VNAV ALL CATS VISIBILITY 1/8 MILE AND LNAV AND CIRCLING CATS C/D VISIBILITY 1/4 MILE" - RELOCATED AND UPDATED AS CONTINGENCY NOTE TO FORM 8260-9.
5. AMENDED NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C (2°F) OR ABOVE 54°C (96°F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C - 8260-19H, 8-6-9, S.
6. CRC REMAINDER UPDATED FROM "E54A22DB" TO "823F48F8" - UPDATED AIRNAV DATA.
7. AMENDED ADDITIONAL FLIGHT DATA FROM "CHART VDP AT 1.15 NM TO RWY 13"" TO "CHART VDP AT 1.14 NM FROM RWY 13"" - 8360.3D FORMULA 2-6-5.
8. AMENDED TERMINAL ROUTE SEGMENT FROM FALET TO HAKMO RNP VALUE FROM "0.50" TO "1.00" - 8260.58A, TABLE 1-2-1.
9. ADDED "20:1: IS CLEAR" TO LINE 7 - 8260.19H, 8-6-7, G(3).
10. ADDED "CHART NOTE: CIRCLING NA TO RWYS 12W AND 30W" TO ADDITIONAL FLIGHT DATA - 8260.19H, 8-9-11, O(5)(E) AND SOP UNPAVED RUNWAYS REVISION 1.2.
11. ADDED "CHART CIRCLING ICON" TO ADDITIONAL FLIGHT DATA - EXPANDED CIRCLING TO MATCH RNAV GPS RWY 31.
12. AMENDED CIRCLING CAT C MDA/HAA FROM "1840/639" TO "1960/759" - IDENTIFIED NEW CONTROLLING OBSTACLE WHILE EXPANDING CIRCLING TO MATCH RNAV GPS RWY 31.
13. AMENDED CIRCLING CAT D MDA/HAA FROM "1840/639" TO "2260/1059" - IDENTIFIED NEW CONTROLLING OBSTACLE WHILE EXPANDING CIRCLING TO MATCH RNAV GPS RWY 31.
14. AMENDED ALTERNATE MINIMUMS FROM "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE." TO "STANDARD - CAT C 800 2 1/4, CAT D 1100-3 - DUE TO INCREASE IN CIRCLING CAT C & D MINIMUMS AND LOCAL WEATHER ON WMSCR.
15. LNAV/VNAV DA CHANGED FROM "1530" TO "1534" - P-NOTAM 5/9550 AMDT 1A.
16. LNAV HAT CHANGED FROM "408" TO "404" - P-NOTAM 5/9550 AMDT 1A.
17. AMENDED THRE 1192 TO TDZE 1196 - P-NOTAM 5/9550 AMDT 1A.
18. AMENDED LINE 5 FROM "DISTANCE TO THLD FROM 200 HAT: 0.49" TO "DISTANCE TO THLD FROM 250 HAT: 0.65" - 8260.19H, 8-6-7, E(3).
19. FAS DATA: LTP/FTP LONGITUDE CHANGED FROM "0893821.1470W" TO "0893821.1500W" - UPDATED AIRNAV DATA.
20. FAS DATA: LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+03288 "TO "+03287" - UPDATED AIRNAV DATA.
21. FAS DATA: VERTICAL ALERT LIMIT (VAL) CHANGED FROM "35" TO "50" - LPV HAT AMENDED FROM 200 TO 250.
22. FAS DATA: LTP/FPAP ORTHOMETRIC HEIGHT CHANGED FROM "+03633" TO "+03634" - UPDATED AIRNAV DATA.
23. TERMINAL ROUTES: CHANGED JALER/2.10 NM TO RW13 AND RW13 TO 1800 MSL FROM 127.02 TO 126.97 - TO ALIGN WITH FINAL APPROACH COURSE IAW 8260.19H PARA 8-6-4.B

COORDINATED WITH:

A4A ☐

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZMP, AMGR

<u>FLIGHT CHECKED BY</u>		Digitally signed by	<u>OFFICE</u>	<u>DATE</u>	
THOMAS CONKLIN		DAVID DANNER	FICO	5/11/19	
		May 15, 2019			
<u>DEVELOPED BY</u>		Digitally signed by	<u>OFFICE</u>	<u>DATE</u>	
DAVID DANNER (KELLY CARLSON)		DAVID DANNER	AJV-A421	02/19/2019	
		May 15, 2019			
<u>APPROVED BY</u>		Digitally signed by	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
MARLON ROBINSON		DAVID DANNER	AJV-A420		MANAGER
		May 15, 2019			



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KAUW
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	445550.1595N
LTP/FTP LONGITUDE	0893821.1500W
LTP/FTP ELLIPSOIDAL HEIGHT	+03287
FPAP LATITUDE	445500.2600N
FPAP LONGITUDE	0893637.2600W
THRESHOLD CROSSING HEIGHT (TCH)	00043.3
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	823F48F8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03634
FPAP ORTHOMETRIC HEIGHT	+03634

