

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> POV	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> RAVENNA	<u>STATE</u> OH
<u>AIRPORT ELEVATION</u> 1198	<u>TDZE</u> 1198	<u>SUPERSEDED</u> RNAV (GPS) RWY 9	<u>ORIG-AMENDMENT</u> ORIG-A	<u>DATED</u> 06/26/2014
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 DECEMBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 8W
				<u>EPOCH YEAR</u> 2010
				<u>CANCEL/SUSPEND</u>

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 003/30 CW 183/30	NOPT	IWWEB	IF/IAF	4000
2. 183/30 CW 003/30		IWWEB	IF/IAF	4000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
IWWEB	IF/IAF	WUNIS		TF	FB	1.00	092.94	6.10	2800
WUNIS	FAF	RW09	MAP	TF	FO	0.30	093.03	4.92	
RW09	MAP	1448 MSL		CA			093.03		
1448 MSL		WHINR		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW09

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT WHINR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. HOLD W IWWEB, RT, 092.94 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 093.03

FAF: WUNIS

DIST FAF TO MAP: 4.92

DIST FAF TO THLD: 4.92
4. MIN ALT: IWWEB 4000, WUNIS 2800
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

250 HAT: 0.67

GS ANT:
6. MIN GP INCPT: 2800

GP ALT AT PFAF: WUNIS 2800

OM:

MM:

IM:
7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 40.0
8. MSA FROM:



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CAK ALTIMETER SETTING.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.

CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CAK ALTIMETER SETTING AND INCREASE LPV DA TO 1498 FEET. INCREASE LNAV/VNAV DA TO 1557 FEET. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 273.27 INBOUND.

CHART FAS OBST: 1433 TOWER (39-003647) 411209N/0811750W.

CHART VDP AT 1.46 NM TO RW09.

WAAS CHANNEL # 77735

REFERENCE PATH ID: W09A

CHART CIRCLING ICON.

LTP HAE: 330.4 M

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
LPV DA	1448	1	250	1448	1	250	1448	1	250		NA				
LNAV/VNAV DA	1507	1	309	1507	1	309	1507	1	309		NA				
LNAV MDA	1700	1	502	1700	1	502	1700	1 3/8	502		NA				
CIRCLING	1740	1	542	1800	1	602	1860	1 3/4	662		NA				

CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM FOR AMDT ORIG-A INTO FORM - 8260.19J PARA 8-3-4.C (3).
2. TERMINAL ROUTES, ALL SEGMENTS: ADDED RNAV LEG TYPES AND RNP VALUES - 8260.19J PARA 8-6-4.A(6)(A) AND (B).
3. TERMINAL ROUTES, IWWEB TO WUNIS: CHANGED COURSE FROM 092.92 TO 092.94 - REALIGNMENT OF FINAL AND INTERMEDIATE SEGMENTS WITH RUNWAY BEARING.
4. TERMINAL ROUTES, WUNIS TO RW09: CHANGED COURSE FROM 093.01 TO 093.03 - REALIGNMENT OF FINAL SEGMENT WITH RUNWAY BEARING.
5. TERMINAL ROUTES, RW09 TO 1448 MSL: CHANGED COURSE FROM 093.01 TO 093.03 - REALIGNMENT OF FINAL SEGMENT.
6. MISSED APPROACH INSTRUCTIONS: ADDED CLIMB-IN-HOLD TO 4000 - MINIMUM PROJECTED AIRCRAFT ALTITUDE AT CLEARANCE LIMIT WAS LESS THAN MISSED APPROACH ALTITUDE OF 4000.
7. PROFILE LINE 2: CHANGED HOLDING COURSE FROM 092.92 TO 092.94 - TO MATCH NEW COURSE ON INTERMEDIATE SEGMENT FROM IWWEB TO WUNIS.
8. PROFILE LINE 2: ADDED MAX HOLDING ALTITUDE 6000 - 8260.19J PARA 8-6-7.B(2).
9. PROFILE LINE 3: CHANGED FAC FROM 093.01 TO 093.03 - REALIGNMENT OF FINAL SEGMENT.
10. PROFILE LINE 5: ADDED DIST TO THLD FROM 250 HAT 0.67 NM - 8260.19J PARA 8-6-7.E(3).
11. PROFILE LINE 7: ADDED "20:1 IS CLEAR" - 20:1 SURFACE IS NOW CLEAR, 8260.19J PARA 8-6-7.G(3)(A).
12. PBN REQUIREMENTS NOTE: ADDED "RNP APCH - GPS" - 8260.19J PARA 8-6-8.D(5)(A)1.
13. NOTES: DELETED "DME/DME RNP-0.3 NA" - REPLACED BY PBN REQUIREMENTS NOTE.
14. NOTES: DELETED "NIGHT LANDING CAT C: PROCEDURE NA" - 20:1 SURFACE IS NOW CLEAR.
15. NOTES: CHANGED "BARO-VNAV NA WITH AKRON-CANTON RGNL ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING CAK ALTIMETER SETTING" - ADDED VDP AND REFORMATTED AIRPORT NAME TO LOCATION ID, 8260.19J PARA 8-6-10.E(8) AND (9).
16. NOTES: REFORMATTED "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C" - REMOVED FAHRENHEIT REFERENCES, 8260.19J PARA 8-6-10.R.
17. NOTES: CHANGED "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - 20:1 SURFACE IS NOW CLEAR AND REFORMATTED, 8260.19J PARA 8-6-12.K(2).
18. NOTES: CHANGED "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AKRON-CANTON RGNL ALTIMETER SETTING AND INCREASE ALL DA 50 FEET AND ALL MDA 60 FEET, INCREASE LNAV CAT C VISIBILITY 1/8 MILE, LNAV/VNAV ALL CATS AND CIRCLING CAT C VISIBILITY 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CAK ALTIMETER SETTING AND INCREASE LPV DA TO 1498 FEET. INCREASE LNAV/VNAV DA TO 1557 FEET. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM" - NEW VISIBILITY EVALUATION AND UPDATED FORMAT, 8260.19J PARA 8-6-12.N(1)(A)2 AND 3.
19. ADDITIONAL FLIGHT DATA: CHANGED MISSED APPROACH HOLDING COURSE FROM 273.25 TO 273.27 - MATCHES UPDATE TO HOLDING AT WHNR ON RNAV (GPS) RWY 27.
20. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST TO ADD OBSTACLE ID AND UPDATE COORDINATES - OAS DATABASE UPDATE AND 8260.19J PARA 8-6-11.C.
21. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 1.46 NM TO RW09" - 20:1 SURFACE IS NOW CLEAR, 8260.3E PARA 2-6-5.A(4) AND 8260.19J PARA 8-6-11.M.
22. ADDITIONAL FLIGHT DATA: DELETED "DISTANCE TO THLD FROM 250 HATH: 0.66 NM" - DATA UPDATED AND MOVED TO PROFILE LINE 5.
23. MINIMUMS: LOWERED LNAV ALL CATS MDA/HAT FROM 1760/562 TO 1700/502 - IMPROVED OBSTACLE ACCURACY CODE FROM 4D TO 1A.
24. MINIMUMS: LOWERED LNAV CAT C VISIBILITY FROM 1 5/8 TO 1 3/8 SM - REDUCTION IN LNAV MDA/HAT AND 8260.3E TABLE 3-3-1.
25. MINIMUMS: LOWERED CIRCLING CAT A MDA/HAA FROM 1760/562 TO 1740/542 - REDUCTION IN LNAV MDA ALLOWS BASING CAT A CIRCLING ON OBSTACLE EVALUATION, MATCHES OTHER PROCEDURES AT AIRPORT.
26. MINIMUMS: LOWERED CIRCLING CAT C MDA/HAA FROM 1920/722 TO 1860/662 - IMPROVED OBSTACLE ACCURACY CODE FROM 5D TO 1A.
27. MINIMUMS: LOWERED CIRCLING CAT C VISIBILITY FROM 2 TO 1 3/4 SM - REDUCTION IN CAT C MDA/HAA AND 8260.3E TABLE 3-3-7.
28. FAS DATA BLOCK: UPDATED LTP LAT/LONG FROM 411235.1795N / 0811528.6550W TO 411235.1835N / 0811528.6530W, FPAP LAT/LONG FROM 411242.8090N / 0811331.0345W TO 411242.7820N / 0811331.0285W, AND LENGTH OFFSET FROM 1688 TO 1680 - NEW AIRPORT SURVEY AND NEW FAS DATA CALCULATION.
29. FAS DATA BLOCK: CHANGED CRC REMAINDER FROM C910969D TO C53D7B3C - NEW FAS DATA CALCULATION.

COORDINATED WITH:

A4A

ALPA

☒

AOPA

☒

APA

HAI

NBAA

☒

OTHER: ZOB, CAK APP CON, ARPT MGR

FLIGHT CHECKED BY
JEREMY C LEIGHTON

Digitally signed by
DAVID DANNER
Oct 15, 2024

OFFICE
FPO
DATE
10/03/2024

DEVELOPED BY
RICHARD BRUCE

Digitally signed by
RICHARD A BRUCE
Aug 19, 2024

OFFICE
AJV-A422
DATE
08/19/2024

APPROVED BY
CASIMIR L. TABAKA

Digitally signed by
DAVID DANNER
Oct 15, 2024

OFFICE
AJV-A420
DATE
TITLE
MANAGER



AIRPORT ID
POV

PROCEDURE NAME
RNAV (GPS) RWY 9

ORIGINAL/AMENDMENT
1

CITY
RAVENNA

STATE
OH

FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

0
0
KPOV
RW09
0
0
W09A
411235.1835N
0811528.6530W
+03304
411242.7820N
0811331.0285W
00040.0
F
03.00
106.75
1680
40.0
50.0

CRC REMAINDER

C53D7B3C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K5
+03640
+03640

