

**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> KPCW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> PORT CLINTON	<u>STATE</u> OH		
<u>AIRPORT ELEVATION</u> 590	<u>TDZE</u> 588	<u>SUPERSEDED</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 01/30/2020	<u>MAG VAR</u> 7W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 27 JANUARY 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
KUKAF	IF/IAF	HOZDE		TF	FB	1.00	269.73	6.09	1700
HOZDE	FAF	RW27	MAP	TF	FO	0.30	269.66	3.37	
RW27	MAP	842 MSL		CA			269.66		
842 MSL		SALFE		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW27

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT SALFE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD E KUKAF, RT, 269.73 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 269.66 FAF: HOZDE DIST FAF TO MAP: 3.37 DIST FAF TO THLD: 3.37
- MIN ALT: KUKAF 2500, HOZDE 1700
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 254 HAT: 0.67 GS ANT:
- MIN GP INCPT: 1700 GP ALT AT FAF: HOZDE 1700 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 40.0
- MSA FROM: RW27 3100



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING RWY 18, 36 NA AT NIGHT.

CHART NOTE: RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.

FAS OBST: 805 AAO 413151N/0824710W

HOLD W, RT, 089.44 INBOUND.

CHART FAS OBST: 716 BUILDING (39-080445) 413128N/0824827W.

CHART R-5502 A/B.

CHART VDP AT 1.10 NM TO RW27.

WAAS CHANNEL # 58012

REFERENCE PATH ID: W27A

LTP HAE: 143.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	842	1	254	842	1	254	842	1	254	842	1	254			
LNAV/VNAV DA	969	1 1/8	381	969	1 1/8	381	969	1 1/8	381	969	1 1/8	381			
LNAV MDA	980	1	392	980	1	392	980	1 1/8	392	980	1 1/8	392			
CIRCLING	1140	1	550	1140	1	550	1180	1 1/2	590	1580	3	990			

CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM FOR AMDT 1A, 1B, AND 1C INTO FORM - IAW 8260.19I 8-3-4. C. (3).
2. DELETED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. - AIRNAV DATA UPDATED, VGSI AND DESCENT ANGLES NOW COINCIDENT.
3. UPDATED PBN REQUIREMENT NOTE TO RNP APCH - GPS - 8260-19I PARA 8-6-8B(2).
4. ADDED ADDITIONAL FLIGHT DATA CHART VDP AT 1.10 NM TO RW27 - 20:1 OBSTACLES NO LONGER EXIST.
5. FAS DATA: UPDATED LTP/FTP LATITUDE/LONGITUDE FROM 413104.6310N/0825143.0280W TO 413104.6260N/0825143.0280W; UPDATED LTP/FTP ELLIPSOIDAL HEIGHT FROM +01438 TO +01437 - NEW AIRNAV DATA INCORPORATED.
6. FAS DATA: UPDATED FPAP LATITUDE/LONGITUDE FROM 413053.1325N/0825340.6445W TO 413053.1460N/0825340.6480W-NEW AIRNAV DATA INCORPORATED.
7. UPDATED CRC REMAINDER FORM 30F1B22E TO 5DED17F1- LTP/FTP LATITUDE/LONGITUDE, FPAP LATITUDE/LONGITUDE, AND FPAP ELLIPSOIDAL HEIGHT UPDATED.
8. MOVED BACKUP ALTIMETER NOTES FROM -3 TO REMARKS AS CONTINGENCY NOTE - WEATHER IS ON WMSCR.
9. UPDATED LPV DA/HAT FROM 910/322 TO 842/254 - NEW EVALUATION.
10. UPDATED LNAV/VNAV DA/HAT FROM 956/368 TO 969/381 - NEW EVALUATION.
11. UPDATED LPV VISIBILITY ALL CATS FROM 1 1/8 SM TO 1 SM - NEW VISIBILITY CALCULATIONS.
12. UPDATED LNAV/VNAV VISIBILITY ALL CATS FROM 1 1/4 SM TO 1 1/8 SM - NEW VISIBILITY CALCULATIONS.
13. UPDATED TERMINAL ROUTES, MISSED APPROACH SEGMENTS FROM "910 MSL TO MANGS" AND "MANGS TO VASHO" TO "842 MSL TO SALFE" - MISSED APPROACH REDESIGNED TO MEET CURRENT CRITERIA.
14. CHANGED MISSED APPROACH FROM "CLIMB TO 3000 DIRECT MANGS AND ON TRACK 188.53 TO VASHO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000" TO "CLIMB TO 3000 DIRECT SALFE AND HOLD" - ROUTE CHANGED TO COMPLY WITH CURRENT CRITERIA.
15. ADDED PROFILE LINE 7: 20:1 IS CLEAR. - NO 20:1 PENETRATIONS PRESENT.
16. UPDATED COURSE FOR LEG KUKAF TO HOZDE IN TERMINAL ROUTES FROM "269.74" TO "269.73" -NEW EVALUATION MOVED FAF.
17. UPDATED COURSE FOR LEG HOZDE TO RW27 IN TERMINAL ROUTES FROM "269.65" TO "269.66" -NEW EVALUATION MOVED FAF.
18. UPDATED COURSE FOR LEG RW27 TO 842 MSL IN TERMINAL ROUTES FROM "269.65" TO "269.66" -NEW EVALUATION MOVED FAF.
19. UPDATED CA ALTITUDE IN TERMINAL ROUTES FROM "910 MSL" TO "842 MSL" - IAW 8260.58B PARA 3-5-2.
20. UPDATED LINE 2 FROM "HOLD E KUKAF, RT, 269.74 INBOUND, 2500 FT. IN LIEU OF PT (IAF)" TO "HOLD E KUKAF, RT, 269.73 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000" -INBOUND COURSE CHANGE DUE TO MOVEMENT OF FAF AND "MAX 6000" DUE TO UPDATED CRITERIA.
21. UPDATED LINE 3 FAC FROM "269.65" TO 269.66"-NEW EVALUATION MOVED FAF.
22. ADDED LINE 5 DIST TO THLD FROM 254 HAT .067 AND REMOVED DIST TO THLD FROM 322 HAT: 0.89 NM FROM ADDITIONAL FLIGHT DATA -IAW 8260.19I PARA 8-6-7E(3).
23. REMOVED FAHRENHEIT TEMPERATURES FROM BARO-VNAV NOTE. - IAW 8260.19I PARA 8-6-9 R.
24. UPDATED ALTERNATE MINIMUMS FROM "@ NA WHEN LOCAL WEATHER NOT AVAILABLE" TO "STANDARD - CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE" -WX ON WMSCR; IAW .19I MEMO 276 ATTACHMENT 4 PARA 5B.
25. UPDATED ADDITIONAL FLIGHT DATA: HOLDING INFORMATION FROM "HOLD W, RT, 098.64 INBOUND" TO "HOLD W, RT, 089.44 INBOUND" - NEW MISSED APPROACH SEGMENT.
26. UPDATED ADDITIONAL FLIGHT DATA: RESTRICTED AREA INFORMATION FROM "CHART RESTRICTED AREA 5502 A/B" TO ".CHART R-5502 A/B" - IAW 8260.19I PARA 8-6-10 I.
27. UPDATED ADDITIONAL FLIGHT DATA: CHART FAS OBST FROM "706 TOWER 413032N/0825129W" TO "716 BUILDING (39-080445) 413128N/0824827W" - NEW EVALUATION.
28. ADDED ADDITIONAL FLIGHT DATA: FAS OBST: 805 AAO 413151N/0824710W- NEW EVALUATION, 7:1 OBST (AAO) RELIEF APPLIED.
29. UPDATED ADDITIONAL FLIGHT DATA: LTP HAE FROM "143.8 M" TO "143.7 M" - NEW AIRNAV DATA.
30. CHANGED HELICOPTER VISIBILITY NOTE FROM "3/4" TO "1" - PER FPT VISIBILITY LIMITED TO 1SM DUE TO RWY PROTECTION ZONE ISSUES.

COORDINATED WITH:

A4A ☐

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZOB, CLE APP CON, AMGR

FLIGHT CHECKED BY

BRIAN P CARSON

Digitally signed by

DONALD H LANIER

Dec 06, 2021

OFFICE

FPO

DATE

12/02/2021

DEVELOPED BY

DONALD H. LANIER (SCOTT LINDHOLM)

Digitally signed by

DONALD H LANIER

Dec 06, 2021

OFFICE

AJV-A431

DATE

09/29/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

DONALD H LANIER

Dec 06, 2021

OFFICE

AJV-A431

DATE

01/27/2022

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPCW
RUNWAY	RW27
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	413104.6260N
LTP/FTP LONGITUDE	0825143.0280W
LTP/FTP ELLIPSOIDAL HEIGHT	+01437
FPAP LATITUDE	413053.1460N
FPAP LONGITUDE	0825340.6480W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1088
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	5DED17F1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01793
FPAP ORTHOMETRIC HEIGHT	+01793