

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> CUYAHOGA COUNTY	<u>AIRPORT ID</u> KCGF	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 24	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> CLEVELAND	<u>STATE</u> OH
<u>AIRPORT ELEVATION</u> 876	<u>TDZE</u> 873	<u>SUPERSEDED</u> RNAV (GPS) RWY 24	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 8W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 8 NOVEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> 11/08/2018	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1995

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>
WEIDS	IAF	EBLIS		TF	FB	1.00	269.73	7.11	3000
EBLIS	IF	IMUSY		TF	FB	1.00	237.62	4.43	3000
IMUSY		KROOK		TF	FB	1.00	237.57	3.75	2300
KROOK	FAF	RW24	MAP	TF	FO	0.30	237.53	4.34	
RW24	MAP	2500 MSL		CA			237.53		2500
2500 MSL		ZUPKO		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW24

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 THEN CLIMBING LEFT TURN TO 3000 DIRECT ZUPKO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT EBLIS
3. FAC: 237.53 FAF: KROOK DIST FAF TO MAP: 4.34 DIST FAF TO THLD: 4.34
4. MIN ALT: EBLIS 3000, IMUSY 3000, KROOK 2300
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 200 HAT: 0.49 GS ANT:
6. MIN GP INCPT: 2300 GP ALT AT FAF : KROOK 2300 OM: MM: IM:
7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 44.0
8. MSA FROM: RW24 3100

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C OR ABOVE 38C.
CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV VISIBILITY ALL CATS TO 7/8 SM, LNAV CAT C, D TO 1 1/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.13 NM TO RW24*
*LNAV ONLY
WAAS CHANNEL #42528
REFERENCE PATH ID: W24A
FAS OBST: 1029 AAO 413600N/0812448W.
HOLD N, RT, 195.61 INBOUND
LTP HAE: 231.9 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2

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	1073	1/2	200	1073	1/2	200	1073	1/2	200	1073	1/2	200			
LNAV/VNAV DA	1178	1/2	305	1178	1/2	305	1178	1/2	305	1178	1/2	305			
LNAV MDA	1280	1/2	407	1280	1/2	407	1280	3/4	407	1280	3/4	407			
CIRCLING	1400	1	524	1500	1	624	1560	2	684	1620	2 1/2	744			



CHANGES - REASONS

- 1. FIX KROOK RELOCATED 418.18 FEET (.07NM) SW OF PREVIOUS LOCATION (NEW LAT/LONG 413656.04N-0812427.65W) - NEW RUNWAY AND SURVEY DATA.
- 2. CHANGED 34:1 IS NOT CLEAR TO 34:1 IS CLEAR - VISUAL SURFACE CLEAR.
- 3. LPV DA/HAT DECREASED FROM 1194/315 TO 1073/200 ALL CATS - SURFACE CLEAR.
- 4. LNAV/VNAV DA/HAT DECREASED FROM 1190/311 TO 1178/305 ALL CATS - NEW OBSTACLE SURVEY.
- 5. LNAV HAT INCREASED FROM 401 TO 407 ALL CATS -TDZE CHANGED FROM 873 TO 879.
- 6. CHANGED STRAIGHT-IN LPV AND LNAV/VNAV VISIBILITY FROM ¾ TO ½ SM ALL CATS - PER VISI CHECK.
- 7. CHANGED STRAIGHT-IN LNAV VISIBILITY FOR CAT A/B FROM ¾ TO ½ SM - PER VISI CHECK.
- 8. CHANGED CIRCLING CAT A HAA FROM 521 TO 524, CATS B MDA/HAA INCREASED FROM 1440/561 TO 1500/624, CAT C MDA/HAA INCREASED FROM 1440/561 TO 1560/684 AND CAT D MDA/HAA 1540/661 TO 1620/744 - NEW CONTROLLING OBSTACLES FROM THE IMPLEMENTATION OF NEW CIRCLING CRITERIA.
- 9. CHANGED CAT C CIRCLING VISIBILITY FROM 1 ½ TO 2 SM AND CAT D FROM 2 TO 2 1/2 SM - PER VISI CHECK.
- 10. APPLIED NEW CIRCLING CRITERIA - AS PER ORDER 8260.3, VOLUME 1, AND CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
- 11. CHANGED TCH FROM 46.9 TO 44 - MATCH ILS TCH.
- 12. DELETED THE CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - NEW SURVEY DATA MAKING ANGLES COINCIDENT.
- 13. DELETED HELICOPTER NOTE - VISUAL SURFACES ARE CLEAR.
- 14. CHANGED MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 3000 DIRECT HIGUL AND ON TRACK 147 TO ZUPKO AND HOLD TO CLIMB TO CLIMB TO 2500 DIRECT HIGUL THEN CLIMBING LEFT TURN TO 3000 TO ZUPKO AND HOLD - PER FPT.
- 15. CHANGED INOPERATIVE MALSR FROM INCREASE LNAV/VNAV VISIBILITY ALL CATS TO 1 SM, LNAV CAT A, B VISIBILITY TO 1 SM AND CAT C, D TO 1 1/8 SM TO INCREASE LNAV/VNAV VISIBILITY ALL CATS TO 7/8 SM, LNAV CAT C, D TO 1 1/8 SM - PER VISI CHECK.
- 16. ADDED ALTERNATE MINIMUM NOTE: CAT D 800-2 ½ - AS GENERATED BY SIAP AND 8260.3C, PARA. 3-4-1.
- 17. CRC REMAINDER CHANGED FROM 9E11CCC9 TO F0304741 - NUMEROUS FAS DATA CHANGES.
- 18. CHANGED LTP/FTP LATITUDE/LONGITUDE FROM 413410.8155N - 0812845.3695W TO 413406.8900N - 0812851.4900W - NEW OR UPDATED AIRNAV DATA.



COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZOB, CLE APP CON, CGF ATCT, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by
DONALD H LANIER

OFFICE

DATE

DEVELOPED BY

LONNIE EVERHART (ANDRE MARSH)

Oct 01, 2018

OFFICE

DATE

Digitally signed by
DONALD H LANIER

AJV-5400

08/20/2018

APPROVED BY

LONNIE EVERHART

Oct 01, 2018

OFFICE

DATE

TITLE

MANAGER

Digitally signed by
DONALD H LANIER
Oct 01, 2018

AJV-5400



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCGF
RUNWAY	RW24
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	413406.8900N
LTP/FTP LONGITUDE	0812851.4900W
LTP/FTP ELLIPSOIDAL HEIGHT	+02319
FPAP LATITUDE	413308.9605N
FPAP LONGITUDE	0813021.7015W
THRESHOLD CROSSING HEIGHT (TCH)	00044.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	F0304741

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02662
FPAP ORTHOMETRIC HEIGHT	+02662

