

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE												
ACO VOR/DME	YEVUL (FB)	335.24 / 20.50	5000	LPV: DA LNAV/VNAV: DA LNAV: RW28											
CXR VOR/DME	YEVUL (FB)	247.46 / 14.39	5000												
YEVUL (IAF)	EKUME (NOPT) (FB)	280.58 / 5.00	4000	CLIMB TO 3000 DIRECT FIMOL AND HOLD.											
EKUME (IF/IAF)	ZANGI (FB)	280.51 / 5.97	3000												
ZANGI (FAF)	CINSO/4.40 NM TO RW28 (FB)	280.42 / 2.36		ADDITIONAL FLIGHT DATA: HOLD W, RT, 100.11 INBOUND. CHART FAS OBST: 993 ATCT 412441N/0815020W CHART 1952 TOWER 412310N/0814121W. 1076 AAO 412409N/0814403W DISTANCE TO THLD FROM 200 HATH: 0.48 NM. CHART VDP AT 1.31 MILES TO RW28* *LNAV ONLY. WAAS CHANNEL # 40109 REFERENCE PATH ID: W28A LTP HAE: 209.4 M											
CINSO/4.40 NM TO RW28	RW28 (MAP) (FO)	280.39 / 4.40													
(SEE FORM 8260-10)															
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD E EKUME, LT, 280.51 INBOUND, 4000 FT. IN LIEU OF PT (IAF) 3. FAC: 280.42 FAF: ZANGI DIST FAF TO MAP: 6.76 THLD: 6.76 4. MIN. ALT: EKUME 4000, ZANGI 3000, CINSO/4.40 NM TO RW28 2240* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCP: 3000 GS ALT AT: ZANGI 3000 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: 3.00 TCH: 48.0 34:1 IS CLEAR 8. MSA FROM: RW28 3100				MAG VAR: 7W EPOCH YEAR: 1990											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A											
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	999	2400	200	999	2400	200	999	2400	200	999	2400	200			
LNAV/VNAV DA	1154	4000	355	1154	4000	355	1154	4000	355	1154	4000	355			
LNAV MDA	1260	2400	461	1260	2400	461	1260	5000	461	1260	5000	461			
CIRCLING	1300	1	501	1300	1	501	1320	1 1/2	521	1360	2	561			
NOTES: CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 10 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 38C (100F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON ACO VOR/DME AIRWAY RADIALS 293 CW 347.															
CITY AND STATE CLEVELAND, OH		ELEVATION: 799 THRE: 799 AIRPORT NAME: CLEVELAND-HOPKINS INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28, AMDT 2 15 DEC 2011				SUP: AMDT: 1 DATED 11/20/2008					

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW28 (MAP)	999 MSL (CA)	280.39	
999 MSL	FIMOL (FO)		3000

CITY AND STATE

CLEVELAND, OH

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RNAV (GPS) RWY 28, AMDT 2

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCLE
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	412457.8200N
LTP/FTP LONGITUDE	0814956.4400W
LTP/FTP ELLIPSOIDAL HEIGHT	+02094
FPAP LATITUDE	412502.9700N
FPAP LONGITUDE	0815154.6700W
THRESHOLD CROSSING HEIGHT (TCH)	00048.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	102.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

C1B792BB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02437
FPAP ORTHOMETRIC HEIGHT	+02437

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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	10	11	12	13
SUSAP KCLEK5FR28	AACO	010ACO	K5D	0V	IF				18000			A JS	
SUSAP KCLEK5FR28	AACO	020YEVULK5EAOE	A	020TF		33520205	+	05000				A JS	
SUSAP KCLEK5FR28	AACO	030EKUMEK5EAOEE	B	010TF		28060050	+	04000				A JS	
SUSAP KCLEK5FR28	ACXR	010CXR	K5D	0V	IF				18000			A JS	
SUSAP KCLEK5FR28	ACXR	020YEVULK5EAOE	A	020TF		24750144	+	05000				A JS	
SUSAP KCLEK5FR28	ACXR	030EKUMEK5EAOEE	B	010TF		28060050	+	04000				A JS	
SUSAP KCLEK5FR28	AEKUME	010EKUMEK5EAOEE	AL	HF		28050040	+	04000	18000			A JS	
SUSAP KCLEK5FR28	R	010EKUMEK5EAOE	I	IF			+	04000	18000			A JS	
SUSAP KCLEK5FR28	R	020ZANGIK5EA1E	F	051TF		28050060	+	03000			RW28	K5PGA	JS
SUSAP KCLEK5FR28	R	020ZANGIK5EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KCLEK5FR28	R	021CINSOK5EAOE	S	031TF		28040024	V	0224002248		-300		A JS	
SUSAP KCLEK5FR28	R	030RW28	K5PGOGY	M	031TF	28040044		00847		-300		A JS	
SUSAP KCLEK5FR28	R	040	0	M	CA	2804	+	00999				A JS	
SUSAP KCLEK5FR28	R	050FIMOLK5EAOEY		DF			+	03000				A JS	
SUSAP KCLEK5FR28	R	060FIMOLK5EAOEE	R	HM		10010040	+	03000				A JS	

QUALITY
b
CHECKED

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[illegible]

SUSAP KCLEK5GRW28 0060182803 N41245782W081495644-0500 +0209400799000048150I

[illegible]

SUSAP KCLEK5PR28 RW28 001 0000W28A0N4124578200W08149564400+020940300N4125029700W08151546700102750920000480F400350C1B792BB

SUSAP	KCLEK5PR28	RW28	002E	+02437+02437LPV	40109
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[illegible]

SUSAP KCLEK5SRW28 K5PG 0 18018003125

1

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