

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		LPV: DA LNAV/VNAV: DA LNAV: RW28 CLIMB TO 3000 DIRECT FIMOL AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 101.11 INBOUND. CHART FAS OBST: 987 CONTROL_TOWER 412441N/0815020W 1076 AAO 412409N/0814403W DISTANCE TO THLD FROM 200 HAT: 0.48 NM. CHART VDP AT 1.30 NM TO RW28* *LNAV ONLY. WAAS CHANNEL # 40109 REFERENCE PATH ID: W28A CHART CIRCLING ICON. LTP HAE: 209.4 M									
ACO VOR/DME		YEVUL (TF) (FB) (RNP 2.00)		336.24 / 20.50				5000											
CXR VOR/DME		YEVUL (TF) (FB) (RNP 2.00)		248.46 / 14.39				5000											
YEVUL (IAF)		EKUME (NOPT) (TF) (FB) (RNP 1.00)		281.58 / 5.00				4000											
EKUME (IF/IAF)		ZANGI (TF) (FB) (RNP 1.00)		281.51 / 5.97				3000											
ZANGI (FAF)		CINSO/4.40 NM TO RW28 (TF) (FB) (RNP 0.30)		281.42 / 2.36															
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E EKUME, LT, 281.51 INBOUND, 4000 FT. IN LIEU OF PT (IAF) 3. FAC: 281.42 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: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 3000 GS ALT AT: ZANGI 3000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 48.0 34:1 IS CLEAR 8. MSA FROM: RW28 3100																MAG VAR: 8W		EPOCH YEAR: 2020	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD									
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	4000	200	999	4000	200	999	4000	200	999	4000	200							
LNAV/VNAV DA	1168	5000	369	1168	5000	369	1168	5000	369	1168	5000	369							
LNAV MDA	1260	4000	461	1260	4000	461	1260	6000	461	1260	6000	461							
CIRCLING	1420	1	621	1420	1	621	1420	1 3/4	621	1420	2	621							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ACO VOR/DME AIRWAY RADIALS 293 CW 347. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV DA. CHART NOTE: CIRCLING RWY 10 NA AT NIGHT.																			
CITY AND STATE CLEVELAND, OH		ELEVATION: 799 TDZE: 799 AIRPORT NAME: CLEVELAND-HOPKINS INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28, AMDT 2B 7 DECEMBER 2017						SUP:							
												AMDT: 2A							
												DATED 01/08/2015							

QUALITY
 25
 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CINSO/4.40 NM TO RW28	RW28 (MAP) (TF) (FO) (RNP 0.30)	281.42 / 4.40	
RW28 (MAP)	999 MSL (CA)	281.42	
999 MSL	FIMOL (DF) (FO) (RNP 1.00)		3000

QUALITY
25
CHECKED

CITY AND STATE
CLEVELAND, OH

ELEVATION: 799 TDZE: 799
AIRPORT NAME:
CLEVELAND-HOPKINS INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 28, AMDT 2B
7 DECEMBER 2017

SUP:
AMDT: 2A
DATED: 01/08/2015

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
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	412502.9660N
FPAP LONGITUDE	0815154.6690W
THRESHOLD CROSSING HEIGHT (TCH)	00048.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0912
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 86601A67

ADDITIONAL PATH POINT RECORD INFORMATION

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

QUALITY
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CHECKED

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				AMDT: 2A
				DATED: 01/08/2015