

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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 (IAF)	OPTOO INT/I-PXP 17.27 DME/RADAR	328.87 / 21.43	6000	ILS: DA LOC: 6.76 MILES AFTER ZANGI/7.85 DME/RADAR OR AT 1.10 DME FIX CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 3000 DIRECT DJB VOR/DME AND HOLD, OR AS DIRECTED BY ATC.											
CXR VOR/DME (IAF)	OPTOO INT/I-PXP 17.27 DME/RADAR	248.56 / 15.71	6000												
OPTOO INT/I-PXP 17.27 DME/RADAR (IF)	NISYI/ 14.13 DME/RADAR	280.32 / 3.14 (I-PXP)	5000	ALTERNATE MA: CLIMB TO 3000 DIRECT SKY VOR/DME AND HOLD.											
NISYI/ 14.13 DME/RADAR	KUYED/ 10.99 DME/RADAR	280.32 / 3.14 (I-PXP)	4000												
KUYED/ 10.99 DME/RADAR	ZANGI/ 7.85 DME/RADAR	280.32 / 3.14 (I-PXP)	3000	ADDITIONAL FLIGHT DATA: HOLD W, RT, 077.04 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E SKY VOR/DME, RT, 274.00 INBOUND. CHART FAS OBST: 956 TOWER 412446N/0814716W CHART: 1252 TOWER 412426N/0814028W CHART IN PLANVIEW: SKY VOR/DME.											
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT OPTOO <u> </u> 3. FAC: <u>280.32</u> FAF: <u>ZANGI/ 7.85 DME/RADAR</u> DIST FAF TO MAP: <u>6.76</u> THLD: <u>6.76</u> 4. MIN. ALT: OPTOO 6000, NISYI 5000, KUYED 4000, ZANGI 3000, WITLO/2.90 DME/RADAR 1420* 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>1020</u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: <u>ZANGI 3000</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>48.0</u> 8. MSA FROM: <u>DJB VOR/DME 3100</u>				MAG VAR: <u>7W</u> EPOCH YEAR: <u>1990</u>											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: <u>NA</u>		ILS: <u>#</u>		LOC: <u>STANDARD</u>							
CATEGORY <u>=====></u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
	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
S-ILS 28 **	999	4000	200	999	4000	200	999	4000	200	999	4000	200			
S-LOC 28	1420	4000	621	1420	4000	621	1420	1 1/2	621	1420	1 1/2	621			
CIRCLING	1420	1	621	1420	1	621	1420	1 3/4	621	1420	2	621			
WITLO FIX MINIMUMS															
S-LOC 28	1320	4000	521	1320	4000	521	1320	1 1/4	521	1320	1 1/4	521			
CIRCLING	1320	1	521	1320	1	521	1320	1 1/2	521	1360	2	561			
NOTES: CHART NOTE: WHEN VGSINOP, CIRCLING RWY 10 NA AT NIGHT. CHART NOTE: DME OR RADAR REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON ACO VOR/DME AIRWAY RADIALS 293 CW 347. * LOC ONLY. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 799 THRE: 799		FACILITY IDENTIFIER: I-PXP		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
CLEVELAND, OH		AIRPORT NAME:		CLEVELAND-HOPKINS INTL		ILS OR LOC RWY 28, AMDT 24A				AMDT: 24					
						26 JULY 2012				DATED		12/15/2011			

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ILS - STANDARD
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NOTES, (CONT.):

CHART NOTE: **RVR 2600 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

CHART NOTE: FOR INOPERATIVE MALSF, INCREASE S-LOC 28 CAT D VISIBILITY 1/4 MILE.

CHECKED
1
QUALITY

CITY AND STATE
CLEVELAND, OH

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

FACILITY
IDENTIFIER:
I-PXP

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 28, AMDT 24A
26 JULY 2012

SUP:
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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCLEK5FI28	AACO	010ACO	K5D 0V	A	IF				18000		0	NS
SUSAP	KCLEK5FI28	AACO	020OPTOOK5EA0E	B	TF			+ 06000				0	NS
SUSAP	KCLEK5FI28	AACO	030NISYIK5EA0E		TF			+ 05000				0	NS
SUSAP	KCLEK5FI28	AACO	040KUYEDK5EA0EE		CF	IPXPK5	1003011028030031PI	+ 04000				0	NS
SUSAP	KCLEK5FI28	ACXR	010CXR	K5D 0V	A	IF				18000		0	NS
SUSAP	KCLEK5FI28	ACXR	020OPTOOK5EA0E	B	TF			+ 06000				0	NS
SUSAP	KCLEK5FI28	ACXR	030NISYIK5EA0E		TF			+ 05000				0	NS
SUSAP	KCLEK5FI28	ACXR	040KUYEDK5EA0EE		CF	IPXPK5	1003011028030031PI	+ 04000				0	NS
SUSAP	KCLEK5FI28	I	010KUYEDK5EA0E	I	IF	IPXPK5	10030110	PI	J	040000300018000		0	NS
SUSAP	KCLEK5FI28	I	020ZANGIK5EA0E	F	CF	IPXPK5	1003007828000031PI	H	0300003000		-300DJB	K5D	0 NS
SUSAP	KCLEK5FI28	I	030RW28	K5PG0GY	M	CF	IPXPK5	1003001128000068PI	00847		-300		0 NS
SUSAP	KCLEK5FI28	I	040		M	CA	2803		+ 01400				0 NS
SUSAP	KCLEK5FI28	I	050DJB	K5D 0VY		DF			+ 03000				0 NS
SUSAP	KCLEK5FI28	I	060DJB	K5D 0VE	R	HM	0770T010		+ 03000				0 NS

[illegible]

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	1	2	3	4	5	6	7	8	9	0	1	2	3	
ILS	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012													

SUSAP	KCLEK5IIPXP1	011070RW28	N41250152W0815121252803N41250343W0815009420456	10200600300W00704600786										

	1	2	3	4	5	6	7	8	9	0	1	2	3	
MSA	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012													

SUSAP	KCLEK5SDJB	K5D	0	18018003125										M

QUALITY
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CITY AND STATE CLEVELAND, OH	ELEVATION: 799	THRE: 799	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			ILS OR LOC RWY 28, AMDT 24A	AMDT: 24
	CLEVELAND-HOPKINS INTL		I-PXP	26 JULY 2012	DATED: 12/15/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ACO	ACO	010	IAF	IF		FB					
	ACO	OPTOO	020		TF		FB				AA 06000	
	ACO	NISYI	030		TF		FB				AA 05000	
	ACO	KUYED	040		CF		FB		280.3 ()	003.1	AA 04000	
	CXR	CXR	010	IAF	IF		FB					
	CXR	OPTOO	020		TF		FB				AA 06000	
	CXR	NISYI	030		TF		FB				AA 05000	
	CXR	KUYED	040		CF		FB		280.3 ()	003.1	AA 04000	
		KUYED	010	FACF	IF		FB				AA 04000	GI 03000
		ZANGI	020	FAF	CF		FB		280.0 ()	003.1	GI 03000	GS 03000
		RW28	030	MAP	CF		FO		280.0 ()	006.8	AT 00847	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		280.3 ()		AA 01400	
	DJB	050		DF		FO				AA 03000	
	DJB	060		HM	R	FO		077.0 ()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ACO	N410628.45	W0811205.47	N4106.474	W08112.091
	CXR	N413100.95	W0810947.46	N4131.016	W08109.791
	DJB	N412129.03	W0820943.09	N4121.484	W08209.718
	IPXP (DME)	N412458.72	W0815123.84	N4124.979	W08151.397
	KUYED	N412422.66	W0813648.45	N4124.378	W08136.808
	NISYI	N412411.19	W0813238.58	N4124.187	W08132.643
	OPTOO	N412359.57	W0812828.74	N4123.993	W08128.479
	ZANGI	N412433.97	W0814058.36	N4124.566	W08140.973
	RW28	N412457.82	W0814956.44	N4124.964	W08149.941
	IPXP (LOC)	N412501.52	W0815121.25	N4125.025	W08151.354

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW28	00799	46

QUALITY
1
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CITY AND STATE CLEVELAND, OH	ELEVATION: 799	THRE: 799	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: CLEVELAND-HOPKINS INTL		I-PXP	ILS OR LOC RWY 28, AMDT 24A 26 JULY 2012	AMDT: 24
					DATED: 12/15/2011

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCLEK5FL28	AACO	010ACO	K5D 0V	A	IF				18000		0	NS
SUSAP	KCLEK5FL28	AACO	020OPTOOK5EA0E	B	TF			+ 06000				0	NS
SUSAP	KCLEK5FL28	AACO	030NISYIK5EA0E		TF			+ 05000				0	NS
SUSAP	KCLEK5FL28	AACO	040KUYEDK5EA0EE		CF	IPXPK5	1003011028030031PI	+ 04000				0	NS
SUSAP	KCLEK5FL28	ACXR	010CXR	K5D 0V	A	IF				18000		0	NS
SUSAP	KCLEK5FL28	ACXR	020OPTOOK5EA0E	B	TF			+ 06000				0	NS
SUSAP	KCLEK5FL28	ACXR	030NISYIK5EA0E		TF			+ 05000				0	NS
SUSAP	KCLEK5FL28	ACXR	040KUYEDK5EA0EE		CF	IPXPK5	1003011028030031PI	+ 04000				0	NS
SUSAP	KCLEK5FL28	L	010KUYEDK5EA0E	I	IF	IPXPK5	10030110	PI	+ 04000	18000		0	NS
SUSAP	KCLEK5FL28	L	020ZANGIK5EA0E	F	CF	IPXPK5	10030078280000031PI	+ 03000			DJB	K5D	0
SUSAP	KCLEK5FL28	L	021WITLOK5EA0E	S	CF	IPXPK5	10030029280000050PI	+ 01420		-300			0
SUSAP	KCLEK5FL28	L	030RW28	K5PGOGY	M	CF	IPXPK5	10030011280000018PI	00847	-300			0
SUSAP	KCLEK5FL28	L	040		M	CA	2803	+ 01400					0
SUSAP	KCLEK5FL28	L	050DJB	K5D 0VY		DF		+ 03000					0
SUSAP	KCLEK5FL28	L	060DJB	K5D 0VE	R	HM	0770T010	+ 03000					0

[illegible]

SUP:	
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FLIGHT STANDARDS SERVICES - FAR PART 97.25

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[illegible]

QUALITY
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SUP:	
AMDT:	24
DATED:	12/15/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ACO	ACO	010	IAF	IF		FB					
	ACO	OPTOO	020		TF		FB				AA 06000	
	ACO	NISYI	030		TF		FB				AA 05000	
	ACO	KUYED	040		CF		FB		280.3 ()	003.1	AA 04000	
	CXR	CXR	010	IAF	IF		FB					
	CXR	OPTOO	020		TF		FB				AA 06000	
	CXR	NISYI	030		TF		FB				AA 05000	
	CXR	KUYED	040		CF		FB		280.3 ()	003.1	AA 04000	
		KUYED	010	FACF	IF		FB				AA 04000	
		ZANGI	020	FAF	CF		FB		280.0 ()	003.1	AA 03000	
		WITLO	021	SDF	CF		FB		280.0 ()	005.0	AA 01420	
		RW28	030	MAP	CF		FO		280.0 ()	001.8	AT 00847	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		280.3 ()		AA 01400	
	DJB	050		DF		FO				AA 03000	
	DJB	060		HM	R	FO		077.0 ()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ACO	N410628.45	W0811205.47	N4106.474	W08112.091
	CXR	N413100.95	W0810947.46	N4131.016	W08109.791
	DJB	N412129.03	W0820943.09	N4121.484	W08209.718
	IPXP (DME)	N412458.72	W0815123.84	N4124.979	W08151.397
	KUYED	N412422.66	W0813648.45	N4124.378	W08136.808
	NISYI	N412411.19	W0813238.58	N4124.187	W08132.643
	OPTOO	N412359.57	W0812828.74	N4123.993	W08128.479
	WITLO	N412451.54	W0814733.14	N4124.859	W08147.552
	ZANGI	N412433.97	W0814058.36	N4124.566	W08140.973
	RW28	N412457.82	W0814956.44	N4124.964	W08149.941
	IPXP (LOC)	N412501.52	W0815121.25	N4125.025	W08151.354

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW28	00799	46

QUALITY
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CITY AND STATE CLEVELAND, OH	ELEVATION: 799	THRE: 799	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: CLEVELAND-HOPKINS INTL		I-PXP	ILS OR LOC RWY 28, AMDT 24A 26 JULY 2012	AMDT: 24
					DATED: 12/15/2011