

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		LNAV: RW10						
CXR VOR/DME		OYITI (TF) (FB) (RNP 2.00)			291.64 / 21.49			2900		CLIMB TO 2900 DIRECT PADIY AND ON 150.87 TRACK TO CXR VOR/DME AND HOLD.						
FAILS		WADIV (TF) (FB) (RNP 2.00)			253.38 / 10.14			2300								
OYITI (IAF)		NEVTE (NOPT) (TF) (FB) (RNP 1.00)			008.36 / 5.00			2300		ADDITIONAL FLIGHT DATA: HOLD NW, RT, 150.87 INBOUND. CHART FAS OBST: 1207 STACK 414014N/0812634W. CHART VDP AT 2.38 NM TO RW10. HUSIS TO RW10: 3.03/40.						
WADIV (IAF)		NEVTE (NOPT) (TF) (FB) (RNP 1.00)			188.36 / 5.00			2300								
NEVTE (IF/IAF) (SEE FORM 8260-10)		HUSIS (TF) (FB) (RNP 1.00)			098.36 / 6.20			2000								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD W NEVTE, RT, 098.36 INBOUND, 2300 FT. IN LIEU OF PT (IAF)																
3. FAC: 098.45 FAF: HUSIS DIST FAF TO MAP: 4.15 THLD: 4.15																
4. MIN. ALT: NEVTE 2300, HUSIS 2000																
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																
7. GS ANGLE: _____ TCH: 20:1 IS CLEAR 34:1 IS NOT CLEAR																
8. MSA FROM: RW10 3100										MAG VAR: 8W			EPOCH YEAR: 1995			
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	
LNAV MDA	1560	1 1/4	935	1560	1 1/4	935	1560	2 3/4	935		NA					
CIRCLING	1560	1 1/4	934	1560	1 1/4	934	1560	2 3/4	934		NA					
NOTES: CHART NOTE: RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). PBN REQUIREMENTS NOTE: RNP APCH																
@ CAT A, B 1000-2, CAT C 1000-2 3/4																
CITY AND STATE WILLOUGHBY, OH		ELEVATION: 626 TDZE: 625 AIRPORT NAME: WILLOUGHBY LOST NATION MUNI			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10, ORIG-B, 05/24/2018					SUP: AMDT: ORIG-A DATED 05/07/2009				

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>05/24/2018</div>	
COORDINATED WITH:					
ATA <div><input checked="" type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>		ALPA <div><input checked="" type="checkbox"/></div>	
APA <div><input type="checkbox"/></div>		AOPA <div><input checked="" type="checkbox"/></div>		NBAA <div><input checked="" type="checkbox"/></div>	
OTHER (specify) <div><input checked="" type="checkbox"/> ZOB, CLE APP CON, AMGR</div>		<div>Digitally signed by</div>			
FLIGHT CHECKED BY <div>DION E LANCIA</div>					
NAME: FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-333) MEMO, DEC 22, 2017				Jan 04, 2018 FIFO	
DATE: FIFO					
DEVELOPED BY					
NAME: Digitally signed by RUSSELL ROSLEWSKI				FIFO AJV-5423	
Dec 28, 2017 RUSS ROSLEWSKI				DATE: 12/06/2017	
APPROVED BY					
NAME: Digitally signed by JULIE A. MORGAN				FIFO AJV-5420	
MANAGER				DATE:	
CHANGES: Jan 04, 2018					
1. ADDED MISSED APPROACH, LEG TYPES AND RNP VALUES TO TERMINAL ROUTES					
2. LINE 7, ADDED "20:1 IS CLEAR"					
3. ADDED VDP					
4. ADDED ALTERNATE MINIMUMS					
5. ADDED RUNWAY AND VISIBILITY VALUE TO HELICOPTER NOTE					
6. REMOVED "PROCEDURE NA FOR ARRIVAL" NOTES					
7. REMOVED BACKUP ALTIMETER NOTE					
8. CHANGED MISSED APPROACH INSTRUCTION WORDING FROM "VIA" TO "ON"					
9. ADDED PBN REQUIREMENTS NOTE: RNP APCH					
REASONS:					
1, 2. CURRENT DOCUMENTATION REQUIREMENT					
3. 20:1 PENETRATIONS WERE REMOVED					
4. LOCAL ALTIMETER SOURCE NOW IN USE					
5. CURRENT DOCUMENTATION REQUIREMENT					
6. AIRWAYS AT FIX HAVE BEEN CANCELED					
7. LOCAL ALTIMETER NOW AVAILABLE, BACKUP NOTE MOVED TO FORM 8260-9					
8. CURRENT MISSED APPROACH INSTRUCTION POLICY					
9. NAVSPEC REQUIREMENT					
PDF EDIT: REMOVED CHART NOTE: DME/DME RNP-0.3 NA.					



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
HUSIS (FAF)	RW10 (MAP) (TF) (FO)(RNP 0.30)	098.45 / 4.15	
RW10 (MAP)	1026 MSL (CA)	098.45	
1026 MSL	PADIY (DF) (FB) (RNP 1.00)		
PADIY	CXR VOR/DME (TF) (FO) (RNP 1.00)	150.87 / 12.41	2900

QUALITY
20
CHECKED

CITY AND STATE
WILLOUGHBY, OH

ELEVATION: 626 **TDZE: 625**
 AIRPORT NAME:
 WILLOUGHBY LOST NATION MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 10, ORIG-B, 05/24/2018

SUP:
 AMDT: **ORIG-A**
 DATED: **05/07/2009**

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <input type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input type="checkbox"/>	APA <input type="checkbox"/>	AOPA <input type="checkbox"/>	NBAA <input type="checkbox"/>
OTHER (specify) <input type="checkbox"/> _____					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD																			
PART - A OBSTRUCTION DATA																			
1. APP SEGMENT		FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL	ROC	ALT. ADJUSTMENTS		MIN. ALT.					
FEEDER		CXR VOR/DME		OYITI		1. TOWER (39-001483)		412858.20N/0811157.40W		1624 (5D)	1000			2700					
						2. TERRAIN		412906.00N/0811221.00W		1375 (1400)		AS1500		2900					
FEEDER		FAILS		WADIV		3. AAO		414839.53N/0813721.89W		772 (2C)	1000	AT528		2300					
						4. TERRAIN		414839.53N/0813721.89W		572 (600)		AC1500		2100					
INITIAL		OYITI		NEVTE		5. AAO		413503.00N/0813224.00W		834 (4E)	1000	AT466		2300					
						6. TERRAIN		413603.00N/0813248.00W		614 (600)		AS1500		2100					
INITIAL		WADIV		NEVTE		7. AAO		414101.64N/0813706.77W		772 (2C)	1000	AT528		2300					
						8. TERRAIN		414101.64N/0813706.77W		572 (600)		AS1500		2100					
INTERMEDIATE		NEVTE (IF/IAF)		HUSIS		7. AAO		414101.64N/0813706.77W		772 (2C)	500	AT728		2000					
						8. TERRAIN		414101.64N/0813706.77W		572 (600)		AS1000		1600					
FINAL: LNAV		HUSIS		RW10		9. STACK (39-000556)		414014.23N/0812633.55W		1207 (1D)	250	AC50 XP53		1560					
2. HOLD-IN-LIEU-OF-PT		NEVTE		P-5		7. AAO		414101.64N/0813706.77W		772 (2C)	1000	AT528		2300					
						10. TERRAIN		414448.00N/0814421.00W		571 (600)		AS1500		2100					
3. MISSED APPROACH	MAP:		RW10		CXR VOR/DME						ASC			2900					
	ELEV:		1460				11. TOWER (39-001618)		413024.00N/0811132.00W		1610 (5D)	1000	2700						
						12. TERRAIN		412957.00N/0811157.00W		1372 (1400)		AS1500		2900					
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	934	13. TANK (39-006188)		414025.00N/0812120.00W		776 (4D)	300	SI	1560				
CATEGORY B		1.5 NM			450		934	14. TOWER (39-003627)		413928.00N/0812233.00W		789 (4D)	300	SI	1560				
CATEGORY C		1.7 NM			450		934	15. POLE (39-002633)		413918.00N/0812223.00W		849 (5D)	300	SI	1560				
CATEGORY D		2.3 NM			550														
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES											PRIMARY NAVAID: RW10								
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
360-360		TWR (39-001180)		225/22.6		2049 (5D)		3100											
CITY AND STATE		ELEVATION: 626				FACILITY		PROCEDURE AND AMENDMENT NO:				REGION							
WILLOUGHBY, OH		AIRPORT NAME: WILLOUGHBY LOST NATION MUNI				RNAV				RNAV (GPS) RWY 10, ORIG-B, 05/24/2018				AGL					

QUALITY
20

CHECKED

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. FOR CONTINGENCY BACKUP ALTIMETER USE ONLY: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BURKE LAKEFRONT ALTIMETER SETTING AND INCREASE ALL MDAS 20 FEET AND VISIBILITY CATS B AND C 1/4 SM. CHART NOTE: VDP NA WHEN USING BURKE LAKEFRONT ALTIMETER SETTING. KLNN NOW HAS AN ON-FIELD AWOS-3PT. THE PREVIOUS AMENDMENT HAD AN ADJUSTMENT FOR THE PRIMARY REMOTE ALTIMETER OF 45 FEET. USING KLNN AS THE PRIMARY WOULD ELIMINATE THIS ADJUSTMENT, ALLOWING A LOWER MDA. HOWEVER, THIS PROCEDURE IS AN ABBREVIATED AMENDMENT IN SUPPORT OF THE CLE/DET METROPLEX PROJECT AND MUST REMAIN AN ABBREVIATED AMENDMENT - THEREFORE THE MDA CANNOT BE LOWERED. SINCE THE NEW MDA WOULD BE 1520, USING THE NEW SECONDARY ALTIMETER SOURCE RESULTS IN AN INCREASE TO 1580, OR THE 20 FOOT INCREASE SPECIFIED IN THE CONTINGENCY NOTE. THIS HAS BEEN CLEARED WITH AJV-5 QC MANAGEMENT. AIRWAYS AT FAILS AND CXR VOR/DME HAVE BEEN CANCELED, HOWEVER FEEDERS RETAINED AT FPT REQUEST. 2. KLNN AWOS-3PT HRS OPTN: 24 3. KLNN AWOS-3PT AND KBKL ASOS BOTH ON WMSCR. TAA NOT USED PER ATC REQUEST. CAT D MINIMA NOT CONSTRUCTED PER CEN FPT REQUEST. "VISUAL PORTION OF FINAL" PENETRATIONS: 34:1 707 TREE (39-069276) 414054.04N/0812417.02W (20.10) 712 TREE (39-028952) 414055.33N/0812420.97W (16.25) 717 TREE (39-028953) 414053.97N/0812423.26W (16.17) 714 TREE (39-028954) 414051.79N/0812427.64W (3.46) 643 BLDG (39-024213) 414054.83N/0812357.05W (0.64) VGSI DATA: 3.50/47.1 LPV MINIMA NA PER FI DATED 9/24/08, NUMEROUS TREES OBSCURE RUNWAY THLD. LNAV/VNAV MINIMUMS NA, STACK 1207 MSL CAUSES EXCESSIVELY HIGH MINIMUMS. INITIALS AND HOLD IN LIEU ALTITUDE SET AT 2300 DUE TO MISSED LEVEL SURFACE OF OPPOSITE MISSED APPROACH. NO ADDITIONAL AIRSPACE REQUIRED. RASS PRESSURE PATTERNS THE SAME KLNN 625.7, KBKL 583.5 RA = 43.93. XP53 USED IN FINAL TO MAINTAIN PREVIOUS MDA		
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING						
CLE APP CON				N W S	OTHER: AWOS-3PT		SOURCE:KLNN / KBKL					
				F A A			DISTANCE: 0 / 16.53					
				A / C			HOURS REMOTE OPERATION: 24/YES / 24/YES					
SATISFACTORY ON:						LOCATION: KLNN					ADJUSTMENT: 0 / 44	
X	V H F	X	U H F		H F							
4. MONITOR STATUS	PRIMARY NAVAID:											
	MONITOR POINT:											
	HRS OPTN:	CAT 1		CAT 3								
5. APPROACH & RUNWAY LIGHTING										ALS		
										(S) SALS		
										MALS		
										HIRL		
	X	MIRL 05 (PCL), 10 (PCL), 23 (PCL), 28 (PCL)										
	X	REIL 05 (PCL), 10 (PCL), 23 (PCL), 28 (PCL)										
										TDZ		
										C/LINE		
	X	OTHER (SPECIFY) PAPI-4R 05 (PCL) PAPI-2L 10 (PCL), 28 (PCL) PAPI-4L 23 (PCL)										
6. RUNWAY MARKINGS		BASIC										
		ALL WEATHER										
		INSTRUMENT NPI-G 05, 23; -F 10, 28										
7. RUNWAY VISUAL RANGE		APPROACH										
		MIDFIELD										
		ROLL OUT										
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:						
		DISTANCE FROM RWY:				ELEV GP ANTENNA:						
						THRESHOLD CROSSING HEIGHT:						
9. FINAL APPROACH COURSE AIMING			X	RUNWAY THRESHOLD					FT. FROM THRESHOLD			
			X	ON CENTERLINE					FT. FROM CENTERLINE			
10. WAIVERS: NONE												
PART D - PREPARED BY: RUSS ROSLEWSKI						DATE: 12/06/2017						
TITLE: AERONAUTICAL INFORMATION SPECIALIST						OFFICE: AJV-5423						

