

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: RW28								
CXR VOR/DME				SUVNE (TF) (FB) (RNP 2.00)			025.96 / 5.05				2900		CLIMB TO 2300 DIRECT NEVTE AND HOLD.								
FAILS				OYEPA (TF) (FB) (RNP 2.00)			116.48 / 13.94				2900										
SUVNE (IAF)				WUTUR (NOPT) (TF) (FB) (RNP 1.00)			008.69 / 5.00				2900										
OYEPA (IAF)				WUTUR (NOPT) (TF) (FB) (RNP 1.00)			188.69 / 5.00				2900										
WUTUR (IF/IAF)				ULIYE (TF) (FB) (RNP 1.00)			278.69 / 6.20				2400		ADDITIONAL FLIGHT DATA: HOLD W, RT, 098.36 INBOUND. FAS OBST: 949 AAO 414003N/0811732W. CHART VDP AT 1.64 NM TO RW28. ULIYE TO RW28: 3.04/40.								
(SEE FORM 8260-10)																					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																					
2. HOLD E WUTUR, RT, 278.69 INBOUND, 2900 FT. IN LIEU OF PT (IAF)																					
3. FAC: 278.60 FAF: ULIYE _____ DIST FAF TO MAP: 5.37 THLD: 5.37																					
4. MIN. ALT: WUTUR 2900, ULIYE 2400																					
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: RW28 3100														MAG VAR: 8W				EPOCH YEAR: 1995			
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						
LNAV MDA	1260	1	634	1260	1	634	1260	1 3/4	634		NA										
CIRCLING	1260	1	634	1260	1	634	1260	1 3/4	634		NA										
NOTES: CHART NOTE: RWY 28 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																					
CITY AND STATE WILLOUGHBY, OH				ELEVATION: 626 TDZE: 626 AIRPORT NAME: WILLOUGHBY LOST NATION MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28, ORIG-A, 05/24/2018				SUP: AMDT: ORIG DATED 11/20/2008							



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:	
DEVELOPED BY					
NAME: Digitally signed by RUSSELL ROSLEWSKI RUSS ROSLEWSKI Dec 28, 2017				FIFO AJV-5423 DATE: 12/06/2017	
APPROVED BY					
NAME: JULIE A. MORGAN Digitally signed by DION E LANCIA MANAGER				FIFO AJV-5420 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 ALTERNATE MINIMUMS 4. ADDED RUNWAY AND VISIBILITY VALUE TO HELICOPTER NOTE 5. REMOVED "PROCEDURE NA FOR ARRIVAL" NOTES 6. REMOVED BACKUP ALTIMETER NOTE 7. ADDED VDP 8. ADDED PBN REQUIREMENTS NOTE: RNP APCH					
REASONS:					
1, 2. CURRENT DOCUMENTATION REQUIREMENT 3. LOCAL ALTIMETER SOURCE NOW IN USE 4. CURRENT DOCUMENTATION REQUIREMENT 5. AIRWAYS AT FIX HAVE BEEN CANCELED 6. LOCAL ALTIMETER NOW AVAILABLE, BACKUP NOTE MOVED TO FORM 8260-9 7. 20:1 IS CLEAR AND LOCAL ALTIMETER SOURCE IS NOW IN USE 8. 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
ULIYE (FAF)	RW28 (MAP) (TF) (FO) (RNP 0.30)	278.60 / 5.37	
RW28 (MAP)	1026 MSL (CA)	278.60	
1026 MSL	NEVTE (DF) (FO) (RNP 1.00)		2300

QUALITY
20
CHECKED

CITY AND STATE
WILLOUGHBY, OH

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

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 28, ORIG-A, 05/24/2018

SUP:
AMDT: ORIG
DATED: 11/20/2008

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	SUVNE	1. TOWER (39-003969)	413457.39N/0810804.33W	1671 (4D)	1000		2700		
			2. TERRAIN	413127.00N/0810800.00W	1375 (1400)		AS1500	2900		
FEEDER	FAILS	OYEPA	3. AAO	414206.00N/0810918.00W	1162 (4E)	1000	AT738	2900		
			4. TERRAIN	414206.00N/0810918.00W	962 (1000)		AS1500	2500		
INITIAL	SUVNE	WUTUR	1. TOWER (39-003969)	413457.39N/0810804.33W	1671 (4D)	1000		2700		
			5. TERRAIN	413645.00N/0810842.00W	1352 (1400)		AS1500	2900		
INITIAL	OYEPA	WUTUR	6. AAO	414039.00N/0810500.00W	1401 (4E)	1000	AT499	2900		
			7. TERRAIN	414039.00N/0810500.00W	1201 (1200)		AS1500	2700		
INTERMEDIATE	WUTUR (IF/IAF)	ULIYE	8. AAO	413648.00N/0810848.00W	1542 (4E)	500	AC98 AT260	2400		
			9. TERRAIN	413706.00N/0810842.00W	1333 (1300)		AS1000	2300		
FINAL: LNAV	ULIYE	RW28	10. AAO	414003.23N/0811732.31W	949 (2C)	250	XP61	1260		
2. HOLD-IN-LIEU-OF-PT	WUTUR	P-5	11. TOWER (39-003235)	413802.00N/0810340.00W	1620 (6F)	1000	AC250	2900		
			12. TERRAIN	413839.00N/0810333.00W	1326 (1300)		AS1500	2800		
3. MISSED APPROACH	MAP: RW28	NEVTE				ASC		2300		
	ELEV: 1160		13. STACK (39-000556)	414014.23N/0812633.55W	1207 (1D)	1000		2300		
			14. TERRAIN	413945.00N/0812333.00W	667 (700)		AS1500	2200		
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	ACTUAL	634	15. TANK (39-006188)	414025.00N/0812120.00W	776 (4D)	300	SI	1260
CATEGORY B	1.5 NM			634	16. TOWER (39-003627)	413928.00N/0812233.00W	789 (4D)	300	SI	1260
CATEGORY C	1.7 NM			634	17. POLE (39-002633)	413918.00N/0812223.00W	849 (5D)	300	SI	1260
CATEGORY D	2.3 NM									
CATEGORY E	4.5 NM									
5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAID: RW28						
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	
360-360	TWR (39-001180)	226/22.9	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 28, ORIG-A, 05/24/2018			AGL		

QUALITY
20

CHECKED

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:																
1. COMMUNICATIONS WITH:					2. WEATHER SERVICE					3. ALTIMETER SETTING					THRESHOLD DISPLACED 1124 FEET.											
CLE APP CON							N W S		OTHER: AWOS-3PT			SOURCE:KLNN / KBKL					PRECIPITOUS TERRAIN EVALUATION COMPLETED. FOR CONTINGENCY BACKUP ALTIMETER USE ONLY: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BURKE LAKEFRONT ALTIMETER SETTING. CHART NOTE: VDP NA WHEN USING BURKE LAKEFRONT ALTIMETER SETTING.									
							F A A					DISTANCE: 0 / 16.53														
							A / C					HOURS REMOTE OPERATION: 24/YES / 24/YES														
SATISFACTORY ON:					LOCATION: KLNN					ADJUSTMENT: 0 / 44																
4. MONITOR STATUS					PRIMARY NAVAID:										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 1200, USING THE NEW SECONDARY ALTIMETER SOURCE RESULTS IN AN INCREASE TO 1260, WHICH IS THE CURRENT MDA. THEREFORE NO ADJUSTMENT IS REQUIRED. THIS HAS BEEN CLEARED WITH AJV-5 QC MANAGEMENT.											
					MONITOR POINT:																					
					HRS OPTN:		CAT 1																			
							CAT 3								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. LPV AND LNAV/VNAV NOT CONSTRUCTED, GQS PENETRATIONS EXIST. CAT D MINIMA NOT CONSTRUCTED PER CEN FPT REQUEST. "VISUAL PORTION OF FINAL" PENETRATIONS: 34:1 708 TREE (39-028292) 414100.17N/0812239.49W (32.38) 711 TREE (39-028294) 414055.84N/0812237.35W (30.49) 710 TREE (39-028293) 414055.61N/0812237.58W (30.00) 713 TREE (39-069418) 414100.24N/0812234.55W (26.36) 717 TREE (39-028299) 414055.70N/0812232.49W (25.64) 720 TREE (39-028300) 414100.27N/0812229.55W (22.20) 718 TREE (39-028301) 414100.33N/0812228.11W (16.99) 736 TREE (39-028303) 414050.82N/0812218.10W (12.39) 729 TREE (39-028302) 414051.47N/0812218.89W (7.17) 731 TREE (39-033847) 414101.06N/0812217.04W (5.31) 675 POLE (39-001903) 414056.00N/0812241.00W (2.64) VGSI DATA: 3.50/24.2 NO ADDITIONAL AIRSPACE REQUIRED. RASS PRESSURE PATTERNS THE SAME KLNN 625.7, KBKL 583.5 RA = 43.93. XP61 USED IN FINAL TO MAINTAIN PREVIOUS MDA											
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					6. RUNWAY MARKINGS																
					ALL WEATHER																					
					INSTRUMENT NPI-G 05, 23; -F 10, 28																					
7. RUNWAY VISUAL RANGE					APPROACH					7. RUNWAY VISUAL RANGE																
					MIDFIELD																					
					ROLL OUT																					
8. GLIDE PATH					GP ANGLE:					ELEV RWY THRESHOLD:					8. GLIDE PATH											
					DISTANCE FROM RWY:					ELEV GP ANTENNA:																
										THRESHOLD CROSSING HEIGHT:																
9. FINAL APPROACH COURSE AIMING					X		RUNWAY THRESHOLD			FT. FROM THRESHOLD					9. FINAL APPROACH COURSE AIMING											
					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																

