

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: RW14 CLIMB TO 3000 DIRECT CABAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 320.87 INBOUND. FAS OBST: 1069 AAO 410240N/0851735W CHART: ASR. DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.46 NM TO RW14* *LNAV ONLY. WAAS CHANNEL # 86417 REFERENCE PATH ID: W14A CHART CIRCLING ICON. LTP HAE: 211 M							
FWA VORTAC		LABIC (FO)		321.30 / 12.31				3000									
LABIC (IF/IAF)		MUPUE (FB)		140.63 / 6.10				2500									
MUPUE (FAF)		RW14 (MAP) (FO)		140.70 / 5.10													
RW14 (MAP)		1002 MSL		140.70				3000									
1002 MSL		CABAC (FO)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW LABIC, RT, 140.63 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 140.70 FAF: MUPUE DIST FAF TO MAP: 5.10 THLD: 5.10 4. MIN. ALT: LABIC 3000, MUPUE 2500 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2500 GS ALT AT: MUPUE 2500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 52.7 34:1 IS CLEAR 8. MSA FROM: RW14 2700										MAG VAR: 6W		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	1002	3/4	200	1002	3/4	200	1002	3/4	200	1002	3/4	200					
LNAV/VNAV DA	1199	1 1/4	397	1199	1 1/4	397	1199	1 1/4	397	1199	1 1/4	397					
LNAV MDA	1320	1	518	1320	1	518	1320	1 3/8	518	1320	1 3/8	518					
CIRCLING	1320	1	505	1320	1	505	1420	1 3/4	605	1520	2 1/4	705					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 47C (116F). @ CAT D 800-2 1/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON FWA VORTAC AIRWAY RADIALS 236 CW 038.																	
CITY AND STATE		ELEVATION: 815 TDZE: 802				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
FORT WAYNE, IN		AIRPORT NAME:						RNAV (GPS) RWY 14, AMDT 1A, 04/27/2017				AMDT: 1					
		FORT WAYNE INTL										DATED 04/08/2010					

ALL AFFECTED PROCEDURES REVIEWED? <div><input checked="" type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>04/27/2017</div>	
COORDINATED WITH: <div><div>ATA<div><input checked="" type="checkbox"/></div></div><div>AAT<div><input type="checkbox"/></div></div><div>ALPA<div><input checked="" type="checkbox"/></div></div><div>APA<div><input checked="" type="checkbox"/></div></div><div>AOPA<div><input checked="" type="checkbox"/></div></div><div>NBAA<div><input checked="" type="checkbox"/></div></div><div>OTHER (specify)<div><input checked="" type="checkbox"/> ZAU, FWA APP CON, FWA ATCT, AMGR</div></div></div>					
FLIGHT CHECKED BY					
NAME: <div>PENDING</div>				FIFO	DATE:
DEVELOPED BY					
NAME: <div><div>Digitally signed by JACOB POWERS Sep 07, 2016</div><div>PABLO ORTIZ</div></div>				FIFO AJV-5423	DATE: 06/17/2016
APPROVED BY					
NAME: <div><div>Digitally signed by JACOB POWERS Sep 07, 2016</div><div>TONY R LAWSON</div><div>MANAGER</div></div>				FIFO AJV-5420	DATE:
CHANGES: <div>1. UPDATED ALL COURSES PLUS 3 DEGREES. 2. ADDED TERMINAL ROUTES FROM MUPUE (FAF) TO MISSED ALTITUDE 3000. 3. REMOVED CHART FAS OBST 901 TREE. 4. ADDED CHART CIRCLING ICON. 5. ADDED LTP HAE. 6. UPDATED MAG VAR EPOCH YEAR FROM 3W/1985 TO 6W/2020. 7. ADDED ALTERNATE MINIMUMS @ CAT D 800-2 1/4 8. LOWERED LNAV CAT C VIS FROM 1 1/2 TO 1 3/8 AND CAT D FROM 1 3/4 TO 1 3/8. 9. LOWERED CIRCLING CAT A, B HAA FROM 506 TO 505, RAISED CAT C FROM MDA 1320/HAA 506, VIS 1 1/2 TO MDA 1420/HAA 605, VIS 1 3/4, CAT D FROM MDA 1380/HAA 566, VIS 2 TO MDA 1520/HAA 705, VIS 2 1/4. 10. UPDATED PROCEDURE NA FOR ARRIVALS ON FWA VORTAC AIRWAY RADIALS FROM 279 CW 016 TO 236 CW 038. 11. UPDATED AIRPORT ELEVATION FROM 814 TO 815. 12. UPDATED LTP/FTP LATITUDE/LONGITUDE FROM 405936.6690N/0851213.1830W TO 405936.6700N/0851213.1860W. 13. UPDATED CRC REMAINDER FROM E4401DBE TO BA71B4D4.</div>					
REASONS: <div>1. AIRPORT MAG VAG UPDATED FROM 3W/1985 TO 6W/2020. 2. CURRENT DOCUMENTATION REQUIREMENT. 3. ONLY REQUIRED FOR NONPRECISION CONTROLLING OBSTACLE. 4. NEW CIRCLING CRITERIA APPLIED. 5. REQUIRED WHEN DEVELOPING WAAS PROCEDURES. 6. MAG VAR OUT OF TOLERANCE. 7. NEW CIRCLING CAT D HAA CAUSE THE ADDITION. 8. CURRENT VISIBILITY VALUE. 9. CATS A, B, C, D HAA DUE TO NEW AIRPORT ELEVATION, CAT C NEW CONTROLLING OBSTRUCTION 61 FEET HIGHER, CAT D NEW CONTROLLING OBSTRUCTION 169 FEET HIGHER. 10. RNAV TURNS ONLY ACCOMMODATES A 90-DEGREE INTERCEPT ANGLE. 11, 12. PER CURRENT AIRNAV DATA SHEET. 13. NEW LTP/FTP LATITUDE/LONGITUDE CAUSED THE CHANGE.</div>					



**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	KFWA
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	405936.6700N
LTP/FTP LONGITUDE	0851213.1860W
LTP/FTP ELLIPSOIDAL HEIGHT	+02110
FPAP LATITUDE	405833.9000N
FPAP LONGITUDE	0851049.6400W
THRESHOLD CROSSING HEIGHT (TCH)	00052.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 BA71B4D4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02443
FPAP ORTHOMETRIC HEIGHT	+02443

CITY AND STATE

FORT WAYNE, IN

ELEVATION: 815

TDZE: 802

AIRPORT NAME:

FORT WAYNE INTL

FACILITY
IDENTIFIER:
RNAVPROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 14, AMDT 1A, 04/27/2017

SUP:

AMDT:

DATED: 04/08/2010

 QUALITY
10
CHECKED

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



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

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ARINC SUMMARY - KFWA

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
FWA	010	FWA	IF	FB										V
FWA	020	LABIC	TF	FO	2.0	321.3						AA 03000		EY
FWA	030	LABIC	HF	FO		140.6			R			AA 03000		EE A
	010	LABIC	IF	FB								AA 03000		E I
	020	MUPUE	TF	FB	1.0	140.6				RW14		AA 02500		E F
	030	RW14	TF	FO	0.3	140.7		3.00				AT 00854		GY M
	040		CA	FB		140.7						AA 01002		M
	050	CABAC	DF	FO								AA 03000		EY
	060	CABAC	HM	FO		320.9			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FWA	N405844.63	W0851117.01
CABAC	N405116.71	W0850109.58
LABIC	N410729.56	W0852244.69
MUPUE	N410311.95	W0851700.20

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW14	N405936.67	W0851213.19	00802	52.7

CITY AND STATE FORT WAYNE, IN	ELEVATION: 815 TDZE: 802	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 14, AMDT 1A, 11/10/2016	SUP:
	AIRPORT NAME: FORT WAYNE INTL			AMDT: 1
	DATED: 04/08/2010			

QUALITY
10
CHECKED

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: <div>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"/> _____</div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				NFPG	DATE:
APPROVED BY					
NAME:				NFPG	DATE:
CHANGES:					
REASONS:					



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
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PART - A OBSTRUCTION DATA

1. APP SEGMENT			FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL		ROC		ALT. ADJUSTMENTS		MIN. ALT.	
FEEDER			FWA VORTAC		LABIC		1. TOWER (18-000724)		410625.00N/0852134.00W		1249 (5D)		1000		AT751		3000	
							2. TERRAIN		410357.00N/0852533.00W		893 (900)				AS1500		2400	
INTERMEDIATE			LABIC (IF/IAF)		MUPUE		1. TOWER (18-000724)		410625.00N/0852134.00W		1249 (5D)		500		AT751		2500	
							3. TERRAIN		410357.00N/0852530.00W		893 (900)				AS1500		2400	
FINAL: LPV			MUPUE		RW14								ASC				1002/200	
FINAL: LNAV/VNAV			MUPUE		RW14		4. TREE (KFWAT0003)		405959.12N/0851254.38W		901 (2C)		23.4:1		AC20		1199/397	
FINAL: LNAV			MUPUE		RW14		5. AAO		410239.82N/0851734.66W		1069 (2C)		250				1320	

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. CRITICAL TEMPERATURES: CRITICAL LOW :-16C (+4F) CRITICAL HIGH :+47C (+116F) ACT :-16C APT ISA :+13.39C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 965 HIGH TEMP 1126. ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.83NM CAT C: 2.88NM CAT D: 3.77NM NO ADDITIONAL AIRSPACE REQUIRED. FPT/ATC REQUEST NO FINAL STEPDOWN FIX BE DEVELOPED TAA NOT DEVELOPED AT FPT/ATC REQUEST LPV: INNER/OUTER SURFACE = 34:1 LNAV/VNAV: INNER SURFACE = 23.4:1 OUTER SURFACE = 34:1 VGSI DATA: 3.00 /TCH 52.7 BACK UP ALTIMETER NOT PUBLISHED, REDUNDANT WEATHER SOURCES AVAILABLE KFWA ASOS IS ON SERVICE A 70 FT VEGETATION USED PER FPT CHECKLIST PER ATCT THEY ARE 24 HR FACILITY																													
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																															
FWA APP CON ZAU ARTCC FWA TOWER						N W S		OTHER: ASOS												SOURCE:KFWA																			
						F A A														DISTANCE:																			
						A / C														HOURS REMOTE OPERATION:																			
SATISFACTORY ON:																				LOCATION: KFWA										ADJUSTMENT: 0									
4. MONITOR STATUS		PRIMARY NAVAID:																																					
		MONITOR POINT:																																					
		HRS OPTN:		CAT 1																																			
				CAT 3																																			
5. APPROACH & RUNWAY LIGHTING		X		ALSF-2 05																																			
				(S) SALS																																			
		X		MALSR 32																																			
		X		HIRL 05, 14, 23, 32																																			
				MIRL																																			
		X		REIL 14, 23																																			
		X		TDZ 05																																			
		X		C/L 05, 23																																			
		X		OTHER (SPECIFY) PAPI-4L 14, 23, 32																																			
6. RUNWAY MARKINGS				BASIC BSC-G 09, 27																																			
				ALL WEATHER PIR-G 05, 14, 23, 32																																			
				INSTRUMENT																																			
7. RUNWAY VISUAL RANGE				APPROACH 05, 23, 32																																			
				MIDFIELD 05, 23																																			
				ROLL OUT 05, 23																																			
8. GLIDE PATH				GP ANGLE: 3.00										ELEV RWY THRESHOLD:801.6																									
				DISTANCE FROM RWY:										ELEV GP ANTENNA:																									
														THRESHOLD CROSSING HEIGHT:52.7																									
9. FINAL APPROACH COURSE AIMING						X		RUNWAY THRESHOLD												FT. FROM THRESHOLD																			
						X		ON CENTERLINE												FT. FROM CENTERLINE																			
10. WAIVERS: NONE																																							
PART D - PREPARED BY: PABLO ORTIZ														DATE: 06/17/2016																									
TITLE: AERONAUTICAL INFORMATION SPECIALIST														OFFICE: AJV-5423																									

