

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		LPV: DA LNAV/VNAV: DA LNAV: RW09  CLIMB TO 3000 DIRECT JUGIG AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD E, RT, 274.48 INBOUND. CHART FAS OBST: 1013 T-L TWR 411855N/0850847W DISTANCE TO THLD FROM 302 HAT: 0.79 NM. CHART VDP AT 1.14 NM TO RW09* *LNAV ONLY. WAAS CHANNEL # 40201 REFERENCE PATH ID: W09A CHART CIRCLING ICON. LTP HAE: 232.2 M									
FWA VORTAC		GUMUQ (TF) (FB) (RNP 2.00)		343.68 / 15.59		3000											
TAZCE		PUZRU (TF) (FB) (RNP 2.00)		273.18 / 13.07		3000											
GUMUQ (IAF)		DOVQU (NOPT) (TF) (FB) (RNP 1.00)		004.15 / 5.00		3000											
PUZRU (IAF)		DOVQU (NOPT) (TF) (FB) (RNP 1.00)		184.15 / 5.00		3000											
DOVQU (IF/IAF) (SEE FORM 8260-10)		KIZFU (TF) (FB) (RNP 1.00)		094.15 / 6.01		2500											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W DOVQU, RT, 094.15 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 094.24 FAF: KIZFU DIST FAF TO MAP: 4.91 THLD: 4.91 4. MIN. ALT: DOVQU 3000, KIZFU 2500 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2500 GS ALT AT: KIZFU 2500 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.04 TCH: 45.1 34:1 IS CLEAR 8. MSA FROM: RW09 2700										MAG VAR: 5W		EPOCH YEAR: 2000					
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		1182	1	302	1182	1	302	1182	1	302	1182	1	302				
LNAV/VNAV DA		1237	1 1/4	357	1237	1 1/4	357	1237	1 1/4	357	1237	1 1/4	357				
LNAV MDA		1280	1	400	1280	1	400	1280	1 1/8	400	1280	1 1/4	400				
CIRCLING		1320	1	440	1560	1	680	1720	2 1/2	840	1720	2 3/4	840				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). @ CAT C 900-2 1/2, CAT D 900-2 3/4 CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON FWA VORTAC AIRWAY RADIALS 285 CW 335.																	
CITY AND STATE AUBURN, IN		ELEVATION: 880 TDZE: 880 AIRPORT NAME: DE KALB COUNTY		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, ORIG-E, 04/27/2017						SUP: AMDT: ORIG-D DATED 08/18/2016					



ALL AFFECTED PROCEDURES REVIEWED? <div><input 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<input type="checkbox"/></div><div>AAT<input type="checkbox"/></div><div>ALPA<input type="checkbox"/></div><div>APA<input type="checkbox"/></div><div>AOPA<div><input checked="" type="checkbox"/></div></div><div>NBAA<div><input checked="" type="checkbox"/></div></div><div>OTHER (specify)<div><div><input checked="" type="checkbox"/></div>FWA AOO CON, ZAU, AMGR, ZOB</div></div></div>					
FLIGHT CHECKED BY					
NAME:			FIFO	DATE:	
DEVELOPED BY					
NAME: <div>JAMES ROGERS</div>			FIFO <div>AJV-5421</div>	DATE: <div>11/17/2016</div>	
APPROVED BY					
NAME: <div>TONY R LAWSON</div>			FIFO <div>AJV-5420</div>	DATE:	
CHANGES: <div>1. ADDED ALTERNATE MINIMUMS AND ASSOCIATED NON-STANDARD NOTE. 2. ADDITIONAL FLIGHT DATA: CHANGED DIST TO THLD FROM 302 HAT FROM 0.85 NM TO 0.79 NM. 3. ADDITIONAL FLIGHT DATA: ADDED VDP DATA. 4. DELETED NOTE "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA." 5. CHANGED ACT CHART NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 47C (116F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). 6. DELETED NOTE "BARO-VNAV NA WHEN USING FORT WAYNE INTL ALTIMETER SETTING" 7. ADDITIONAL FLIGHT DATA: UPDATED FAS OBSTACLE FROM 967 TREE TO 1013 T-L TWR. 8. TCH CHANGED FROM 42.0 TO 45.1. 9. DELETED BACKUP ALTIMETER NOTE. 10. CHANGED LINE 7 NOTE FROM "34:1 IS NOT CLEAR" TO "34:1 IS CLEAR" 11. CHANGED PROCEDURE ENTRY RESTRICTION NOTE FOR ARRIVALS AT FWA VORTAC FROM RADIALS 288 CW 038 TO 285 CW 335. 12. UPDATED FAS DATA BLOCK: CHANGED FPAP LAT/LONG FROM 411826.5500N/0850226.1900W TO 411826.5485N/0850226.1875W; CHANGED TCH FROM 42.0 TO 45.1; CHANGED GLIDEPATH ANGLE FROM 3.00 TO 3.04; CHANGED CRC REMAINDER FROM C0342D85 TO 13A1DFF7. (SEE FORM 8260-10)</div>					
REASONS: <div>1. CRITERIA: 8260.19G, PARA 8-6-4 (3 AND 4). 2. NEW PROCEDURE EVALUATION. 3-4. 20:1 PENETRATIONS NO LONGER EXIST. 5. NEW AFS LOW/HIGH TEMP CALCULATION. 6. BACKUP ALTIMETER NOTES NOT REQUIRED, CONTINGENCY ON BACK OF -9. 7. NEW OBSTACLE EVALUATION FOR LNAV FINAL. 8. TO ALIGN WITH CURRENT VGSI DATA. 9. NO LONGER REQUIRED, CONTINGENCY ON BACK OF -9. 10. 34:1 PENETRATIONS NO LONGER EXIST. 11. UPDATED RADIALS FOR TURNS THAT EXCEED 90 DEGREES. 12. UPDATED PROCEDURE EVALUATION.</div>					



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
KIZFU (FAF)	RW09 (MAP) (TF) (FO) (RNP 0.30)	094.24 / 4.91	
RW09 (MAP)	1182 MSL	094.24	
1182 MSL	JUGIG (DF) (FO) (RNP 1.00)		3000

CITY AND STATE

AUBURN, IN

ELEVATION: 880

TDZE: 880

AIRPORT NAME:

DE KALB COUNTY

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 9, ORIG-E, 04/27/2017

SUP:

AMDT: ORIG-D

DATED: 08/18/2016

QUALITY  
10  
CHECKED

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: CHANGES CONT.  CHANGES FROM P-NOTAMS FOR ORIG-A THROUGH ORIG-D INCOPORATED INTO FORM.					
REASONS:					



**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR 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.

**FAS DATA BLOCK INFORMATION****DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGWB
RUNWAY	RW09
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	411825.4915N
LTP/FTP LONGITUDE	0850424.4065W
LTP/FTP ELLIPSOIDAL HEIGHT	+02322
FPAP LATITUDE	411826.5485N
FPAP LONGITUDE	0850226.1875W
THRESHOLD CROSSING HEIGHT (TCH)	00045.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.04
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

**CRC REMAINDER**

13A1DFF7

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02653
FPAP ORTHOMETRIC HEIGHT	+02653

QUALITY  
10  
CHECKED

CITY AND STATE  AUBURN, IN	ELEVATION: 880 AIRPORT NAME:  DE KALB COUNTY	TDZE: 880   	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  RNAV (GPS) RWY 9, ORIG-E, 04/27/2017	SUP:
					AMDT: ORIG-D
					DATED: 08/18/2016

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		FWA VORTAC		GUMUQ		1. TOWER (18-000045)		410539.00N/0851049.00W		1648 (4D)		1000		AT352		3000			
						2. TERRAIN		411236.00N/0852109.00W		922 (900)				AS1500		2400			
FEEDER		TAZCE		PUZRU		3. TOWER (18-000942)		412354.00N/0851508.00W		1484 (5D)		1000		AT516		3000			
						4. TERRAIN		412654.00N/0851224.00W		1060 (1100)				AS1500		2600			
INITIAL		GUMUQ		DOVQU		5. AAO		411954.00N/0851857.00W		1191 (4E)		1000		AT809		3000			
						6. TERRAIN		411954.00N/0851857.00W		991 (1000)				AS1500		2500			
INITIAL		PUZRU		DOVQU		3. TOWER (18-000942)		412354.00N/0851508.00W		1484 (5D)		1000		AT516		3000			
						7. TERRAIN		412315.00N/0851748.00W		1054 (1100)				AS1500		2600			
INTERMEDIATE		DOVQU (IF/IAF)		KIZFU		8. AAO		412154.00N/0851645.00W		1214 (4E)		500		AC98		1900			
						9. TERRAIN		412154.00N/0851645.00W		1014 (1000)				AS1500		2500			
FINAL: LPV		KIZFU		RW09		10. TREE		411819.65N/0850434.66W		940 (1A)		34:1				1182/302			
FINAL: LNAV/VNAV		KIZFU		RW09		11. TREE		411807.65N/0850424.75W		981 (1A)		161				1237/357			
FINAL: LNAV		KIZFU		RW09		12. T-L TWR (18-026550)		411854.94N/0850847.32W		1013 (1A)		250				1280			
2. HOLD-IN-LIEU-OF-PT		DOVQU		P-5		13. TOWER (18-002382)		411445.00N/0852747.00W		1270 (5D)		1000		AT730		3000			
						14. TERRAIN		412039.00N/0851751.00W		1011 (1000)				AS1500		2500			
3. MISSED APPROACH	MAP:		DA / DA / RW09		JUGIG						ASC				3000				
	ELEV:		963/1096/1180				15. TOWER (18-000570)		412026.00N/0845352.00W		1115 (5D)		1000		2200				
						16. TERRAIN		411948.00N/0845857.00W		876 (900)				AS1500		2400			
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	440	17. T-L TWR (18-026560)		411801.49N/0850149.14W		1003 (1A)		300		1320			
CATEGORY B		1.5 NM			450		680	18. TOWER (18-000300)		412001.00N/0850307.00W		1192 (4D)		300		AC50		1560	
CATEGORY C		1.7 NM			450		840	19. TOWER (18-001112)		412101.00N/0850429.00W		1370 (5D)		300		AC50		1720	
CATEGORY D		2.3 NM			550		840	19. TOWER (18-001112)		412101.00N/0850429.00W		1370 (5D)		300		AC50		1720	
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES																			
PRIMARY NAVAID: RW09																			
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)			
360-360		TOWER (18-		206/13.7		1648 (4D)		2700											
CITY AND STATE				ELEVATION: 880		AIRPORT NAME:		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION							
AUBURN, IN				DE KALB COUNTY				RNAV		RNAV (GPS) RWY 9, ORIG-E, 04/27/2017		AGL							

PART B - SUPPLEMENTAL DATA										
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE			3. ALTIMETER SETTING			
FWA APP CON HUF FSS ZAU ARTCC						N W S	OTHER: AWOS-3		SOURCE:KGWB / KFWA	
						F A A			DISTANCE: 0 / 20.60	
						A / C			HOURS REMOTE OPERATION: 0/YES / 24/YES	
SATISFACTORY ON:										
X	V H F	X	U H F		H F	LOCATION: KGWB			ADJUSTMENT: 0 / 57	
4. MONITOR STATUS		PRIMARY NAVAID:								
		MONITOR POINT:								
		HRS OPTN:	CAT 1							
			CAT 3							
5. APPROACH & RUNWAY LIGHTING		ALS								
		(S) SALS								
		X	MALSR 27 (PCL)							
		HIRL								
		X	MIRL 09 (PCL), 27 (PCL)							
		X	REIL 09 (PCL), 27 (PCL)							
		TDZ								
		C/LINE								
		X	OTHER (SPECIFY) PAPI-2L 09, 27							
6. RUNWAY MARKINGS		BASIC								
		ALL WEATHER    PIR-F 27								
		INSTRUMENT    NPI-F 09								
7. RUNWAY VISUAL RANGE		APPROACH								
		MIDFIELD								
		ROLL OUT								
8. GLIDE PATH		GP ANGLE: 3.04				ELEV RWY THRESHOLD:870.4				
		DISTANCE FROM RWY:				ELEV GP ANTENNA:				
						THRESHOLD CROSSING HEIGHT:45.1				
9. FINAL APPROACH COURSE AIMING			X	RUNWAY THRESHOLD					FT. FROM THRESHOLD	
			X	ON CENTERLINE					FT. FROM CENTERLINE	
10. WAIVERS: NONE										
PART D - PREPARED BY: JAMES ROGERS						DATE: 11/17/2016				
TITLE: AERONAUTICAL INFORMATION SPECIALIST						OFFICE: AJV-5421				

PART C - REMARKS:	
PRECIPITOUS TERRAIN EVALUATION COMPLETED.	
CRITICAL TEMPERATURES: CRITICAL LOW :-16C (+4F) CRITICAL HIGH :+54C (+130F) ACT :-16C APT ISA :+13.26C	
CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 966 HIGH TEMP 1127.	
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.84NM CAT C: 2.89NM CAT D: 3.77NM	
NO ADDITIONAL AIRSPACE REQUIRED. RASS PRESSURE PATTERNS SAME KGWB 880, KFWA 815 RA = 57.	
TAA NOT USED BY ATC REQUEST.	
LPV SLOPE: 34:1	
LPV INTERMEDIATE SEGMENT AAO LOWER BY 3 FT, USED LNAV/VNAV AAO FOR CONTROLLING OBS.	
VGSI DATA: 3.00/45.1	
QUALITY 10 CHECKED	