

**FEDERAL AVIATION ADMINISTRATION**  
**FLIGHT STANDARDS SERVICE**  
**ILS STANDARD INSTRUMENT APPROACH PROCEDURE**  
**TITLE 14 CFR PART 97.29**

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> FORT WAYNE INTL	<u>AIRPORT ID</u> KFWA	<u>PROCEDURE NAME</u> ILS OR LOC RWY 32	<u>ORIGINAL/AMENDMENT</u> 31A	<u>CITY</u> FORT WAYNE	<u>STATE</u> IN	
<u>AIRPORT ELEVATION</u> 815	<u>TDZE</u> 800	<u>SUPERSEDED</u> ILS OR LOC RWY 32	<u>ORIGINAL/AMENDMENT</u> 31	<u>DATED</u> 04/27/2017	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-FWA	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
FWA VORTAC		LILRE/I-FWA 6.02 DME/RADAR					139.35	4.75	2900
JEGPU/I-FWA 17.26 DME/RADAR	IF	LILRE/I-FWA 6.02 DME/RADAR					320.76	11.25 (I-FWA)	2300

**MISSED APPROACH**

**MAP:**

ILS: DA  
 LOC: 4.55 NM AFTER LILRE/I-FWA 6.02 DME/RADAR OR AT I-FWA 1.47 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 THEN LEFT TURN ON FWA VORTAC R-285 TO TELEY INT/FWA 17.48 DME AND HOLD..

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 3500 THEN CLIMBING LEFT TURN TO 4000 ON GSH VORTAC R-130 TO WERBU INT/GSH 31.17 DME AND HOLD.

**PROFILE:**

1. PT L    **SIDE OF COURSE** 140.76    **OUTBOUND** 2400    **FT WITHIN** 10    **MILES OF** LILRE (IAF)

2.

3. **FAC:** 320.76    **FAF:** LILRE/I-FWA 6.02 DME/RADAR    **DIST FAF TO MAP:** 4.55    **DIST FAF TO THLD:** 4.55

4. **MIN ALT:** LILRE/I-FWA 6.02 DME/RADAR 2300, ZINOM/I-FWA 2.87 DME 1280\*

5. **DIST TO THLD FROM OM:**    **MM:**    **IM:**    **150 HAT:**    **GS ANT:** 1051

6. **MIN GS INCPT:** 2300    **GS ALT AT FAF :** LILRE/I-FWA 6.02 DME/RADAR 2300    **OM:**    **MM:**    **IM:**

7. **GP ANGLE:** 3.00    **34:1:**    **20:1:**    **TCH:** 55.6

8. **MSA FROM:** FWA VORTAC 2700

**EQUIPMENT REQUIREMENTS NOTES:**

DME REQUIRED FOR LOC ONLY.  
 DME OR RADAR REQUIRED FOR PROCEDURE ENTRY.

**NOTES:**



CHART PROFILE NOTE: VGSi AND ILS GLIDEPATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).  
\*LOC ONLY  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON FWA VORTAC AIRWAY RADIALS 097 CW 198.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 32 CAT E VISIBILITY TO RVR 4000, S-LOC 32 CAT E VISIBILITY TO RVR 6000.  
CHART NOTE: USE I-FWA DME WHEN ON THE LOCALIZER COURSE.  
CHART PLANVIEW NOTE: CAT E PROCEDURE TURN NA.  
CHART NOTE: \*\*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.  
CHART: ASR.  
CHART CIRCLING ICON.  
CHART IN PLANVIEW: WERBU INT/GSH 31.17 DME  
CHART FAS OBST: 900 TREE 405745N/0850935W.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW WERBU INT/GSH 31.17 DME, RT, 130.47 INBOUND.  
HOLD W, RT, 105.25 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/4, CAT E 800-2 1/2

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 32**	1000	2400	200	1000	2400	200	1000	2400	200	1000	2400	200	1000	2400	200
S-LOC 32	1160	2400	360	1160	2400	360	1160	4000	360	1160	4000	360	1160	4000	360
CIRCLING	1300	1	485	1300	1	485	1420	1 3/4	605	1520	2 1/4	705	1520	2 1/2	705

CHANGES - REASONS

1. REMOVED ARC SEGMENT ZULUG TO JEGPU - PER FPT FOR RID VORTAC DECOMMISSIONING.
2. REPLACED DME REQUIRED NOTE WITH EQUIPMENT REQUIREMENTS NOTE: "DME REQUIRED FOR LOC ONLY" - 19H, CH. 8 REQUIREMENT.
3. REMOVED S-ILS 32 ALTERNATE MINIMUMS - PER 8260-3C, TABLE 3-4-1.
4. ADDED S-LOC 32 ALTERNATE MINIMUMS - PER 8260-3, TABLE 3-4-1.
5. ADDED EQUIPMENT REQUIREMENTS NOTE: "DME OR RADAR REQUIRED FOR PROCEDURE ENTRY" - 19H, CH. 8 REQUIREMENT.



<u>AIRPORT</u> FORT WAYNE INTL	<u>AIRPORT ID</u> KFWA	<u>PROCEDURE NAME</u> ILS OR LOC RWY 32	<u>ORIGINAL/AMENDMENT</u> 31A	<u>CITY</u> FORT WAYNE	<u>STATE</u> IN
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COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZAU, FWA APP CON, FWA ATCT, AMGR, ATA

<u>FLIGHT CHECKED BY</u> FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.	<u>OFFICE</u>	<u>DATE</u>	<i>Digitally signed by</i> <b>ROBERT G HAMILTON</b> Jun 21, 2018	
<u>DEVELOPED BY</u> DAVID A. DOWLING	<i>Digitally signed by</i> <b>DAVID A DOWLING</b> Jun 18, 2018	<u>OFFICE</u> AJV-5420	<u>DATE</u> 05/04/2018	
<u>APPROVED BY</u> JULIE MORGAN	<u>OFFICE</u> AJV-5420	<u>DATE</u>	<i>Digitally signed by</i> <b>ROBERT G HAMILTON</b> Jun 21, 2018	<u>TITLE</u> MANAGER



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> FORT WAYNE INTL	<u>AIRPORT ID</u> KFWA	<u>PROCEDURE NAME</u> ILS OR LOC RWY 32	<u>AMDT NO.</u> 31A	<u>CITY</u> FORT WAYNE	<u>STATE</u> IN	<u>AIRPORT ELEVATION</u> 815	<u>FACILITY</u> I-FWA
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM  
FWA VORTAC

TO  
LILRE/I-FWA 6.02 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u> 4.75	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (18-000023)	410012.00N/0850559.00W		1159	250	50	4D	1000				AT741	2900
2.TERRAIN	405327.00N/0850936.00W		837 (800)								AS1500	2300

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT  
REMARKS:

INTERMEDIATE

FROM  
JEGPU/I-FWA 17.26 DME/RADAR

TO  
LILRE/I-FWA 6.02 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u> 11.25	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.TOWER (18-000947)	404914.17N/0845511.87W		1209	500	50	5D	500					1800
4.TERRAIN	404509.00N/0845954.00W		840 (800)								AS1500	2300

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT  
REMARKS:







PROCEDURE TURN

FROM

LILRE

TO

10 NM

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
9.TOWER (18-001086)	405714.00N/0845307.00W	1248	500	50	5D	1000					2300
10.TERRAIN	404954.00N/0851030.00W	860 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:

MISSED APPROACH : ILS

FROM

DA

TO

TELEY INT/FWA 17.48 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
							828				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3000
11.TOWER (18-000724)	410625.00N/0852134.00W	1249	500	50	5D	1000					2300
12.TERRAIN	410348.00N/0852545.00W	903 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT  
REMARKS:







MISSED APPROACH ALTERNATE : LOC

FROM  
4.55 NM AFTER LILRE/I-FWA 6.02 DME/RADAR OR AT I-FWA 1.47 DME

TO  
WERBU INT/GSH 31.17 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
								910				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>	
							ASC				4000	
11.TOWER (18-000724)	410625.00N/0852134.00W	1249	500	50	5D	1000					2300	
13.TERRAIN	411612.00N/0852600.00W	995 (1000)								AS1500	2500	

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT  
REMARKS:

CIRCLING    ☒ ALL CATS    ☒ CAT A    ☒ CAT B    ☒ CAT C    ☒ CAT D    ☒ CAT E    ☐ NOT AUTHORIZED

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>RADIUS</u>	<u>HAA</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
<u>CATEGORY A</u>											
14.CTRL TWR (18-002642)	405819.62N/0851115.84W	1.30	485	1000	20	3	1A	300			1300
<u>CATEGORY B</u>											
14.CTRL TWR (18-002642)	405819.62N/0851115.84W	1.83	485	1000	20	3	1A	300			1300
<u>CATEGORY C</u>											
15.TOWER (18-001956)	405504.00N/0851126.00W	2.88	605	1061	20	3	1A	300		XP50	1420
<u>CATEGORY D</u>											
16.TOWER (18-001314)	405854.70N/0851640.70W	3.77	705	1169	500	50	5D	300		AC50	1520
<u>CATEGORY E</u>											
16.TOWER (18-001314)	405854.70N/0851640.70W	4.71	705	1169	500	50	5D	300		AC50	1520

CIRCLING REMARKS:  
CIRC CAT C PREVIOUSLY LISTED 5D AC FOR THE 1A OBS #18-001956. WITH THE NEXT FULL AMDT, ANY ADJUSTMENTS NOT DUE TO CRITERIA, SHOULD BE REMOVED.



MSA

CENTER  
FWA VORTAC

RADIUS  
25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TWR (18-000045)	410539.00N/0851049.00W	009	06.9	1648	250	50	4D	1000			2700

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

BACK UP ALTIMETER NOT PUBLISHED, REDUNDANT WEATHER SOURCES AVAILABLE

KFWA ASOS ON WMSCR.

VEGETATION HEIGHT CHANGED FROM 70 FT TO 100 FT, PER FPT CHECKLIST.

XP=50 FOR CIRC CAT C: PREVIOUSLY LISTED 5D AC FOR THE 1A OBS #18-001956. WITH THE NEXT FULL AMDT ANY ADJUSTMENTS, NOT DUE TO CRITERIA SHOULD BE REMOVED.

VGSI DATA: 3.00/75.70

#6 ALTITUDE DETERMINED BY QUAD MAP STUDY

#10 KFWAT000422

PER ATCT THEY ARE 24 HR FACILITY

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

FWA TOWER, ZAU ARTCC, FWA APP CON

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KFWA	24	KFWA	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
I-FWA	ATCT	24	1

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW09	BSC-G	QUALITY 41 CHECKED
RW27	BSC-G	
RW05 - TDZ, ALSF-2, HIRL, C/LINE	PIR-G	APPROACH, MIDPOINT, ROLL OUT

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	796.4	55.6	792.7	1051	3.00	75.7

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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## "VISUAL PORTION OF FINAL" PENETRATIONS

and/or

**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

VDP NOT ESTABLISHED - VDP IS LESS THAN 0.5 NM AFTER STERDOWN FIX.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	2.98
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.86
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	314.76
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	811
DISTANCE FROM	THLD	TO 1500FT POINT	4.55
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	314.76
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	811

THRESHOLD  
COORDINATES  
(IF STR-IN)405841.01N/0851059.09W

ARP COORDINATES405842.50N/0851142.60W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP RUNWAY 5 DISTANCE 1.24 NM

FAF  
COORDINATES405528.72N/0850643.54W

FIX NAME  
COORDINATES

REMARKS  
NO ADDITIONAL AIRSPACE REQUIRED.  
REMARKS: APPROACH/DRAWING ATTACHED.



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
FORT WAYNE INTL	KFWA	ILS OR LOC RWY 32	31A	FORT WAYNE	IN	815	I-FWA

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
DAVID A. DOWLING	AJV-5420	05/04/2018	AERONAUTICAL INFORMATION SPECIALIST

