

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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> WOOD COUNTY	<u>AIRPORT ID</u> 1G0	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>CITY</u> BOWLING GREEN	<u>STATE</u> OH	
<u>AIRPORT ELEVATION</u> 673	<u>TDZE</u> 673	<u>SUPERSEDED</u> RNAV (GPS) RWY 10	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 JUNE 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
WUDAT	IAF	UBAYA	NOPT	TF	FB	1.00	005.66	5.00	2300
LEYIR	IAF	UBAYA	NOPT	TF	FB	1.00	185.66	6.97	2300
UBAYA	IF/IAF	ZIMBO		TF	FB	1.00	095.66	6.25	2300
ZIMBO	FAF	RW10	MAP	TF	FO	0.30	095.75	4.92	
RW10	MAP	939 MSL		CA			095.75		
939 MSL		MELIS		DF	FO	1.00			2300

MISSED APPROACH

MAP:

LPV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2300 DIRECT MELIS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD W UBAYA, RT, 095.66 INBOUND, 2300 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 095.75 FAF: ZIMBO DIST FAF TO MAP: 4.92 DIST FAF TO THLD: 4.92

4. MIN ALT: UBAYA 2300, ZIMBO 2300

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 266 HAT: 0.70 GS ANT:

6. MIN GP INCPT: 2300 GP ALT AT FAF : ZIMBO 2300 OM: MM: IM:

7. GP ANGLE: 3.04 34:1: IS CLEAR 20:1: IS CLEAR TCH: 40.4

8. MSA FROM: RW10 3100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 36 NA AT NIGHT.
CHART NOTE: VDP NA WHEN USING TOLEDO EXPRESS ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOLEDO EXPRESS ALTIMETER SETTING: INCREASE DA TO 974 FEET; INCREASE ALL MDAS 40 FEET AND VISIBILITY LNAV CAT C AND CIRCLING CAT D 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.40 NM TO RW10*
*LNAV ONLY
WAAS CHANNEL #62803
REFERENCE PATH ID: W10A
CHART FAS OBST: 876 TOWER 412313N/0834312W.
CHART: 1068 WINDMILL 412228N/0834427W.
HOLD E, RT, 275.99 INBOUND
LTP HAE: 169.3 M

MINIMUMS:

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

ALTERNATE: NA ☒

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
LPV DA	939	1	266	939	1	266	939	1	266	939	1	266			
LNAV MDA	1160	1	487	1160	1	487	1160	1 3/8	487	1160	1 1/2	487			
CIRCLING	1300	1	627	1300	1	627	1300	1 3/4	627	1320	2	647			



CHANGES - REASONS

1. RAISED LPV MINS FROM 926 DA TO 939 DA AND 253 HAT TO 266 HAT. - NEW MA PENETRATION OBSTACLE FROM NEW EVAL AND SURVEY AND INCORPORATED NOTAM FDC 9/5106.
2. CHANGED THE BACK UP ALTIMETER NOTE INCREASE IN DA FROM 961 TO 974. - LPV MINS INCREASED DUE TO NEW MA PENETRATION AND INCORPORATED NOTAM FDC 9/5106.
3. CRC REMAINDER CHANGED FROM 8B393825 TO B2BB6D4F. - NEW SURVEY YIELDED SLIGHTLY DIFFERENT LTP.
4. CHANGED GP ANGLE FROM 3.00 TO 3.04. - REFLECT CURRENT CRITERIA IAW 8260.3D 2-6.
5. UPDATED 7:1 OBST FROM 1066 TO 1068 IN ADDITIONAL FLIGHT DATA. - NEW SURVEY COMPLETED.
6. CHANGED FAS OBST FROM 847 TOWER TO 876 TOWER IN ADDITIONAL FLIGHT DATA, RETAINED SAME MINIMUMS. - NEW SURVEY AND EVAL COMPLETED.
7. CHANGED LINE 5 FROM 253 HAT: .067 TO 266 HAT: .070. - NEW EVALUATION AND LPV DA RAISED.
8. ADD MAX ALT OF 6000FT TO LINE 2 HOLD IN LIEU. - REFLECT CURRENT CRITERIA IAW 8260.19H 8-6-7 B. (2).
9. LTP HAE CHANGED FROM 169.4M TO 169.3M IN ADDITIONAL FLIGHT DATA. - NEW SURVEY COMPLETED.
10. FAS DATA LTP COORDINATES CHANGED FROM 412330.4490N/0833806.8005W TO 412330.4470N/0833806.8040W. - NEW SURVEY COMPLETED.
11. FAS DATA FPAP COORDINATES CHANGED FROM 412329.1600N/0833608.4300W TO 412329.1530N/0833608.4360W. NEW SURVEY AND EVAL COMPLETED.
12. FAS DATA LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +01694 TO +01693. - NEW SURVEY COMPLETED.
13. FAS DATA LTP AND FPAP ORTHOMETRIC HEIGHT CHANGED FROM +02046 TO +02047. - NEW SURVEY COMPLETED.

PDF EDIT: DELETED 7. TREE (39-084614) MISSED PENETRATION OBSTRUCTION FROM LNAV MISSED APPROACH OBSTRUCTION DATA. COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZOB, TOL APP CON, AMGR.

<u>FLIGHT CHECKED BY</u> JEFFREY W HARING	<i>Digitally signed by</i> ROBERT G HAMILTON Mar 01, 2019	<u>OFFICE</u> FICO	<u>DATE</u> 2/22/19	
<u>DEVELOPED BY</u> ROBERT G HAMILTON (ANDRE TUCKER)	<i>Digitally signed by</i> ROBERT G HAMILTON Mar 01, 2019	<u>OFFICE</u> AJV-A422	<u>DATE</u> 12/06/2018	
<u>APPROVED BY</u> JULIE MORGAN	<i>Digitally signed by</i> ROBERT G HAMILTON Mar 01, 2019	<u>OFFICE</u> AJV-A42	<u>DATE</u>	<u>TITLE</u> MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	1G0
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	412330.4470N
LTP/FTP LONGITUDE	0833806.8040W
LTP/FTP ELLIPSOIDAL HEIGHT	+01693
FPAP LATITUDE	412329.1530N
FPAP LONGITUDE	0833608.4360W
THRESHOLD CROSSING HEIGHT (TCH)	00040.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.04
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	B2BB6D4F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02047
FPAP ORTHOMETRIC HEIGHT	+02047

