

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 ID</u> KHUF	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1E	<u>CITY</u> TERRE HAUTE	<u>STATE</u> IN		
<u>AIRPORT ELEVATION</u> 589	<u>TDZE</u> 582	<u>SUPERSEDED</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 11/08/2018	<u>MAG VAR</u> 2W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 25 FEBRUARY 2021	<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>
TTH VORTAC		IPEDY		TF	FO	1.00	047.93	9.02	2400
VANJI	IAF	IPEDY	NOPT	TF	FB	1.00	143.45	7.84	2400
MATAN	IAF	IPEDY	NOPT	TF	FB	1.00	269.29	7.25	2400
IPEDY	IF/IAF	IMTEW		TF	FB	1.00	229.34	6.50	2400
IMTEW	FAF	CUVOS/1.70 NM TO RW23		TF	FB	0.30	229.28	3.83	
CUVOS/1.70 NM TO RW23		RW23	MAP	TF	FO	0.30	229.28	1.70	
RW23	MAP	874 MSL		CA			229.28		
874 MSL		POKHY		DF	FO	1.00			2600

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW23

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2600 DIRECT POKHY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD NE IPEDY, RT, 229.34 INBOUND, 2400 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	229.28	FAF: IMTEW	DIST FAF TO MAP:	5.53	DIST FAF TO THLD: 5.53
4. MIN ALT:	IPEDY 2400, IMTEW 2400, CUVOS/1.70 NM TO RW23 1160*				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	292 HAT: 0.74	GS ANT:
6. MIN GP INCPT:	2400	GP ALT AT FAF :	IMTEW 2400	OM:	MM:
7. GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR
			TCH:	55.0	
8. MSA FROM:	RW23 2600				

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PARIS ALTIMETER SETTING.
CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TTH VORTAC AIRWAY RADIALS 317 CW 137.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PARIS ALTIMETER SETTING AND INCREASE ALL DA 61 FEET AND ALL MDA 80 FEET, INCREASE LPV AND LNAV/VNAV VISIBILTY ALL CATS 1/8 SM, INCREASE LNAV AND CIRCLING CATS C/D VISIBILTIES 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 049.10 INBOUND.
CHART FAS OBST: 738 TREE 392822N/0871650W.
849 AAO 393026N/0871237W.
CHART VDP AT 1.15 NM TO RW23*
*LNAV ONLY.
WAAS CHANNEL # 72625
REFERENCE PATH ID: W23A
CHART CIRCLING ICON.
LTP HAE: 144.7 M



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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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	890	7/8	308	890	7/8	308	890	7/8	308	890	7/8	308			
LNAV/VNAV DA	874	7/8	292	874	7/8	292	874	7/8	292	874	7/8	292			
LNAV MDA	1000	1	418	1000	1	418	1000	1 1/8	418	1000	1 1/8	418			
CIRCLING	1040	1	451	1040	1	451	1220	1 3/4	631	1220	2	631			

CHANGES - REASONS

1. CHANGED LPV DA/HAT FROM 782/200 TO 890/308 AND VISIBILITY FROM 3/4 TO 7/8 - NEW CONTROLLER AND VISI CALC.
2. CHANGED LNAV MDA/HAT FROM 980/398 TO 1000/418 - NEW CONTROLLER.
3. CHANGED CIRCLING CAT A MDA/HAA FROM 1020/431 TO 1040/451 - NEW CONTROLLER.
4. CHANGED 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 OR ABOVE 54C" - DELETED FAHRENHEIT IAW 8260.19H AND UPDATED THE ABOVE TEMPERATURE.
5. CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PARIS, IL ALTIMETER SETTING AND INCREASE ALL DA 61 FEET AND ALL MDA 80 FEET, INCREASE LPV AND LNAV/VNAV VISIBILTY ALL CATS 1/8 MILE, INCREASE LNAV AND CIRCLING CATS C/D VISIBILTIES 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PARIS ALTIMETER SETTING AND INCREASE ALL DA 61 FEET AND ALL MDA 80 FEET, INCREASE LPV AND LNAV/VNAV VISIBILTY ALL CATS 1/8 SM, INCREASE LNAV AND CIRCLING CATS C/D VISIBILTIES 1/4 SM" - NEW VISI CALC.
6. CHANGED 34:1 IS CLEAR TO IS NOT CLEAR - NEW 34:1 PENETRATION.
7. ADDED CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - NEW 34:1 PENETRATION.
8. CHANGED FAS DATA BLOCK AS FOLLOWS: LTP/FTP ELLIPSOIDAL HEIGHT FROM 01446 TO 01447; VAL FROM 35 TO 50; CRC REMAINDER FROM 211D838B TO 3DEBB3F2 - LPV MINS CHANGED DUE TO NEW CONTROLLER.
9. ADDITIONAL FLIGHT DATA: CHANGED LTP HAE: FROM 144.6 M TO 144.7 M - NEW SURVEY.
10. CHANGED CHART FAS OBST FROM "720 TREE 392752N/0871623W, 713 TREE 392723N/0871717W" TO "738 TREE 392822N/0871650W" - NEW CONTROLLER.
11. TERMINAL ROUTES: CA ALTITUDE CHANGED FROM 782 TO 874 - LPV MINS INCREASED.
12. TERMINAL ROUTES: TTH VORTAC TO IPEDY CHANGED RNP FROM 2.00 TO 1.00 - IAW 8260.58A TABLE 1-2-1.
13. TERMINAL ROUTES: CHANGED CUVOS TO RWY 23 AND RWY 23 TO MAP COURSE FROM 229.23 TO 229.28 - NEW SURVEY.
14. LINE 5: ADDED 292 HAT AND 0.74 NM - LPV MINS CHANGED.
15. ADDITIONAL FLIGHT DATA: ADDED 849 AAO 393026N/0871237W - 7:1 EXCLUDABLE OBSTACLE.
16. ADDITIONAL FLIGHT DATA: DELETED CHART: ASR - NO LONGER REQUIRED IAW 8260.19I.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID ARTCC, HUF ATCT, AMGR.

FLIGHT CHECKED BY
Michael A Greenwood

Digitally signed by
ALLAN WILL
Dec 17, 2020

OFFICE
FICO

DATE
12/11/2020

DEVELOPED BY
SHANE FOWLER

Digitally signed by
SHANE FOWLER
Nov 06, 2020

OFFICE
AJV-A423

DATE
09/09/2020

APPROVED BY
MARLON ROBINSON

Digitally signed by
ALLAN WILL
Dec 17, 2020

OFFICE
AJV-A420

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHUF
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	392726.4375N
LTP/FTP LONGITUDE	0871758.9880W
LTP/FTP ELLIPSOIDAL HEIGHT	+01447
FPAP LATITUDE	392625.8545N
FPAP LONGITUDE	0871923.3925W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	3DEBB3F2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01775
FPAP ORTHOMETRIC HEIGHT	+01775

