

**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> SMITH FIELD	<u>AIRPORT ID</u> KSMD	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> FORT WAYNE	<u>STATE</u> IN	
<u>AIRPORT ELEVATION</u> 836	<u>TDZE</u> 836	<u>SUPERSEDED</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 01/13/2011	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 2000
<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>
GAREN		SIQEK		TF	FB	2.00	286.03	9.54	2600
WERBU		WOUDE		TF	FB	2.00	092.32	4.24	2600
SIQEK	IAF	UDOMY	NOPT	TF	FB	1.00	223.04	5.00	2600
WOUDE	IAF	UDOMY	NOPT	TF	FB	1.00	042.95	5.00	2600
UDOMY	IF/IAF	GRUSS		TF	FB	1.00	133.00	6.02	2400
GRUSS	FAF	RW13	MAP	TF	FO	0.30	133.07	4.73	
RW13	MAP	1135 MSL		CA			133.07		
1135 MSL		CUKEP		DF	FB	1.00			
CUKEP		ZOBID		TF	FB	1.00	043.16	7.00	
ZOBID		OHOCY		TF	FB	1.00	313.22	5.00	
OHOCY		UDOMY		TF	FO	1.00	280.11	12.83	2600

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW13

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2600 DIRECT CUKEP AND ON TRACK 043.16 TO ZOBID AND ON TRACK 313.22 TO OHOCY AND ON TRACK 280.11 TO UDOMY AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD NW UDOMY, RT, 133.00 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 133.07FAF: GRUSSDIST FAF TO MAP: 4.73DIST FAF TO THLD: 4.73

4. MIN ALT: UDOMY 2600, GRUSS 2400

5. DIST TO THLD FROM OM:MM:IM:150 HAT:299 HAT: 0.78GS ANT:

6. MIN GP INCPT: 2400GP ALT AT FAF : GRUSS 2400OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS NOT CLEARTCH: 40.0

8. MSA FROM: RW13 2700

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.  
CHART NOTE: RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FORT WAYNE INTL ALTIMETER SETTING: INCREASE LPV DA TO 1162 FEET; LNAV/VNAV DA TO 1435 FEET; INCREASE ALL MDA 40 FEET AND LNAV CAT C VISIBILITY 1/4 SM.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WERBU ON V55 NORTHWEST BOUND AND AT GAREN ON V221 NORTHBOUND AND V8 EASTBOUND.  
CHART NOTE: BARO-VNAV NA WHEN USING FORT WAYNE INTL ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
WAAS CHANNEL #69220  
REFERENCE PATH ID: W13A  
FAS OBST: 1089 AAO 410918N/0851136W.  
LTP HAE: 221.7 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	1135	1	299	1135	1	299	1135	1	299		NA				
LNAV/VNAV DA	1408	2	572	1408	2	572	1408	2	572		NA				
LNAV MDA	1340	1	504	1340	1	504	1340	1 1/2	504		NA				
CIRCLING	1400	1	564	1400	1	564	1940	3	1104		NA				



CHANGES - REASONS

1. CHANGED CHART NOTE FROM "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY13 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - WORDING UPDATED IAW 8260.19H PARA 8-6-11K(3).
2. AMENDED CIRCLING CAT C MDA/HAA FROM 1400/564 TO 1940/1104 AND VISIBILITY FROM 1 1/2 TO 3 - NEW CONTROLLING OBSTACLE IDENTIFIED WHEN USING LARGER CAT C RADIUS. MATCHES FLIGHT INSPECTED CAT C CIRCLING MDA ON THE RNAV (GPS) RWY 23.
3. CHANGED LINE 7 NOTE FROM "34:1 IS NOT CLEAR" TO "20:1 IS NOT CLEAR, 34:1 IS NOT CLEAR" - IAW 8260.19H PARA 8-6-7G(3).
4. NOTE DELETED: DME/DME RNP-0.3 NA - IAW 8260.19H, PARA 8-6-8.
5. ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H, PARA 8-6-8.
6. CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FORT WAYNE INTL ALTIMETER SETTING AND INCREASE ALL DA 27 FEET AND LPV ALL CATS VISIBILITY 1/4 MILE, INCREASE ALL MDA 40 FEET AND CIRCLING CAT C VISIBILITY 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FORT WAYNE INTL ALTIMETER SETTING: INCREASE LPV DA TO 1162 FEET; LNAV/VNAV DA TO 1435 FEET; INCREASE ALL MDA 40 FEET AND LNAV CAT C VISIBILITY 1/4 SM" - WORDING UPDATED IAW 8260.19H, PARA 8-6-11N(1)(A)2.
7. ADDITIONAL FLIGHT DATA: REMOVED "CHART FAS OBST: 956 TOWER 410913N/0851039W" - NOT REQUIRED, IAW 8260.19H PARA 8-6-10C.
8. ADDITIONAL FLIGHT DATA: CHANGED "DISTANCE TO THLD FROM 299 HAT: 0.82" TO "DISTANCE TO THLD FROM 299 HAT: 0.78" - NEW VISCHECK UPDATED.
9. CHANGED "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C OR ABOVE 54C" - IAW 8260.19H PARA 8-6-9(S).
10. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - IAW 8260.19H PARA 8-6-10T AND UPDATE TO NEW CIRCLING CRITERIA.
11. ADDED MAX 6000 TO LINE 2 - IAW 8260.19H PARA 8-6-7B(2)A.
12. ADDED NOTE: PROCEDURE NA AT NIGHT - UNLIT 20:1 VISUAL SURFACE PENETRATIONS.
13. REMOVED ALL INSTANCES OF LEFT TURN IN MISSED APPROACH INSTRUCTIONS - NO LONGER REQUIRED, TURNS ARE LESS THAN 90 DEGREES.

COORDINATED WITH:

A4A ☐

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZAU, FWA APP CON, AMGR

FLIGHT CHECKED BY

JEFFREY W HARING

Digitally signed by

DAVID TEFFETELLER

Dec 10, 2018

OFFICE

FICO

DATE

12/6/18

DEVELOPED BY  
KWEKU DONKOR

Digitally signed by

KWEKU DONKOR

Oct 25, 2018

OFFICE

AJV-5433

DATE

10/16/2018

APPROVED BY  
PATRICK MULQUEEN

Digitally signed by

DAVID TEFFETELLER

Dec 10, 2018

OFFICE

AJV-5430

DATE

TITLE

MANAGER



**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSMD
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	410842.3055N
LTP/FTP LONGITUDE	0850922.1715W
LTP/FTP ELLIPSOIDAL HEIGHT	+02217
FPAP LATITUDE	410747.2700N
FPAP LONGITUDE	0850749.4100W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1952
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	2A961BB9

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02545
FPAP ORTHOMETRIC HEIGHT	+02545

