

**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> BOGGS FIELD	<u>AIRPORT ID</u> KUSW	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> SPENCER	<u>STATE</u> WV
<u>AIRPORT ELEVATION</u> 928	<u>TDZE</u> 928	<u>SUPERSEDED</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 04/27/2017	<u>MAG VAR</u> 8W
<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>	<u>EPOCH YEAR</u> 2010

**TAA**

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 190/30 CW 010/30	NOPT	190/6 CW 010/6		4900
2. 190/6 CW 010/6		RAPGE	IF/IAF	3200
3. 010/30 CW 190/30		RAPGE	IF/IAF	3800

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
RAPGE	IF/IAF	WUNES		TF	FB	1.00	280.34	6.91	2800
WUNES	FAF	ZODSA/2.40 NM TO RW28		TF	FB	0.30	280.25	3.35	
ZODSA/2.40 NM TO RW28		RW28	MAP	TF	FO	0.30	280.25	2.40	
RW28	MAP	1328 MSL		CA			280.25		
1328 MSL		WILHI		DF	FO	1.00			3500

**MISSED APPROACH**

**MAP:**

LP: RW28  
LNAV: RW28

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3500 DIRECT WILHI AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. PT            **SIDE OF COURSE**                            **OUTBOUND**                            **FT WITHIN**                            **MILES OF**                            (IAF)
- 2. HOLD E RAPGE, RT, 280.34 INBOUND, 3200 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 280.25                            **FAF:** WUNES                            **DIST FAF TO MAP:** 5.75                            **DIST FAF TO THLD:** 5.75
- 4. **MIN ALT:** RAPGE 3200, WUNES 2800, ZODSA/2.40 NM TO RW28 1720\*
- 5. **DIST TO THLD FROM OM:**                            **MM:**                            **IM:**                            **150 HAT:**                            **GS ANT:**
- 6. **MIN GP INCPT:**                            **GP ALT AT FAF :**                            **OM:**                            **MM:**                            **IM:**
- 7. **GP ANGLE:**                            **34:1:** IS NOT CLEAR                            **20:1:** IS NOT CLEAR                            **TCH:**
- 8. **MSA FROM:**

**PBN REQUIREMENTS NOTE:**

RNP APCH.

**NOTES:**

CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
 CHART NOTE: RWY RWY 28 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT.  
 CHART NOTE: WHEN LOCAL ALTIMETER NOT RECEIVED, USE CHARLESTON ALTIMETER SETTING AND INCREASE ALL MDA'S 80 FEET, LP AND LNAV CATS C AND D VISIBILITY 1/8 SM AND CIRCLING CATS C AND D VISIBILITY 1/4 SM.  
 CHART NOTE: \*1780 WHEN USING CHARLESTON ALTIMETER SETTING.

**ADDITIONAL FLIGHT DATA:**

HOLD W, RT, 100.00 INBOUND.  
 CHART FAS OBST: 1252 TREE 384923N/0811740W.  
 WAAS CHANNEL # 62928  
 REFERENCE PATH ID: W28A  
 CHART CIRCLING ICON.  
 CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.  
 LTP HAE: 249.2 M

**MINIMUMS:**

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

**ALTERNATE:** NA

<b>CATEGORY:</b>	<b>A</b>			<b>B</b>			<b>C</b>			<b>D</b>			<b>E</b>		
<b>FINAL TYPE</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>
LP MDA	1520	1	592	1520	1	592	1520	1 3/4	592	1520	1 3/4	592			
LNAV MDA	1520	1	592	1520	1	592	1520	1 3/4	592	1520	1 3/4	592			
CIRCLING	1560	1	632	1760	1 1/4	832	1760	2 1/2	832	1760	2 3/4	832			



**CHANGES - REASONS**

1. TERMINAL ROUTES: CHANGED ZODSA TO RW28 AND RW28 TO MAP COURSE FROM 280.20 TO 280.25 - NO CHANGES IN FIXES OR COURSE, ADMINSTRATIVE UPDATE IAW 8260.58A, 3-5-2.
2. PROFILE: LINE 2 ADDED MAX 6000 - 8260.19H, 8-6-7.B(2).
3. PROFILE: LINE 7 ADDED 20:1 NOT CLEAR - 8260.19H, 8-6-7.G(3).
4. REMOVED CHART NOTE DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - 8260.19H, 8-6-8.B(1).
5. CHART NOTE: ADDED MIN ALT: ZODSA 1720\* AND \*1780 WHEN USING CHARLESTON ALTIMETER SETTING - 8260.19H, 8-6-7.D(7)
6. ADDITIONAL FLIGHT DATA: REMOVED CHART FAS OBST: 1226 TREE 384931N/0811744W - LP STEPDOWN AND LNAV STEPDOWN NOW HAVE SAME CONTROLLING OBSTACLE PER NEW TARGETS EVALUATION IAW 8260.19H 8-6-10.C
7. ADDITIONAL FLIGHT DATA: ADDED CHART CIRCLING ICON - UPDATED TO NEW CIRCLING CRITERIA AND NEW CONROLLING OBSTACLE - 8260.19H, 8-6-10.T.
8. CHANGED CIRCLING CAT B MDA/HAA FROM 1600/672 TO 1760/832 - NEW CONTROLLING OBSTACLE WITH NEW CIRCLING EXPANDED RADIUS - 8260.19H, 8-6-10.T.
9. CHANGED CIRCLING CAT B VISIBILITY FROM 1 SM TO 1 1/4 SM - NEW CONTOLLING OBSTACLE WITH INCREASED HAA WHICH INCREASED VISIBILTY - 8260.3D, TABLE 3-3-7.
10. CHANGED LP MDA/HAT ALL CATS FROM 1480/552 TO 1520/592 AND CATS C AND D VISIBILITY FROM 1 5/8 SM TO 1 3/4 SM - PER NEW TARGETS EVALUATION AND THIS CLEARS FDC NOTAM 9/0709.
11. FAS DATA CHANGES:  
CRC REMAINDER CHANGED FROM 4A0AC0E7 TO 7AB8C0FA - CHANGED FPAP LAT/LONG FROM 384928.1770N/0812220.9975W TO 384928.1890N/0812220.9965W  
THRESHOLD CROSSING HEIGHT (TCH) CHANGED FROM 00040.0 TO 00000.0 AND GLIDEPATH ANGLE (GPA) CHANGED FROM 3.00 TO 00.00 - FLIGHT INSPECTION RESULTS DO NOT WARRANT A VDA.

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZID, CRW APP CON, AMGR

*Digitally signed by*

**FLIGHT CHECKED BY**

**JASON KRETSCHMER**

**OFFICE**

**DATE**

DANIEL KIRBY

Jan 04, 2021

FICO

12/22/2020

*Digitally signed by*

**DEVELOPED BY**

**JASON KRETSCHMER**

**OFFICE**

**DATE**

JASON KRETSCHMER (RAYMOND JOHNSON)

Aug 06, 2020

AJV-A421

06/30/2020

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by*

**JASON KRETSCHMER**

**OFFICE**

**DATE**

**TITLE**  
MANAGER

Aug 06, 2020

AJV-A420



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KUSW
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	384924.8155N
LTP/FTP LONGITUDE	0812027.0675W
LTP/FTP ELLIPSOIDAL HEIGHT	+02492
FPAP LATITUDE	384928.1890N
FPAP LONGITUDE	0812220.9965W
THRESHOLD CROSSING HEIGHT (TCH)	00000.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	00.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1360
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	7AB8C0FA

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02827
FPAP ORTHOMETRIC HEIGHT	+02827

