

**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 10 | <u>ORIGINAL/AMENDMENT</u> 2B | <u>CITY</u> SPENCER | <u>STATE</u> WV |
| <u>AIRPORT ELEVATION</u> 928 | <u>TDZE</u> 928 | <u>SUPERSEDED</u> RNAV (GPS) RWY 10 | <u>ORIGINAL/AMENDMENT</u> 2A | <u>DATED</u> 09/18/2014 | <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. 010/30 CW 190/30 | NOPT | 010/7 CW 190/7 | | 4600 |
| 2. 010/7 CW 190/7 | | WILHI | IF/IAF | 3500 |
| 3. 190/30 CW 010/30 | | WILHI | IAF | 3900 |

TERMINAL ROUTES

| FROM | FIX TYPE | TO | FIX TYPE | LEG TYPE | FO/FB | RNP | COURSE | DISTANCE | ALTITUDE |
|----------|----------|----------|----------|----------|-------|------|--------|----------|----------|
| WILHI | IF/IAF | WIKON | | TF | FB | 1.00 | 100.00 | 6.88 | 2700 |
| WIKON | FAF | RW10 | MAP | TF | FO | 0.30 | 100.09 | 5.44 | |
| RW10 | MAP | 1178 MSL | | CA | | | 100.09 | | |
| 1178 MSL | | RAPGE | | DF | FO | 1.00 | | | 3200 |

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW10

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3200 DIRECT RAPGE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

| | | | | | |
|--|------------------------|-----------------|-----------------------|------------------------|----------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. HOLD W WILHI, RT, 100.00 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | | |
| 3. FAC: | 100.09 | FAF: WIKON | DIST FAF TO MAP: 5.44 | DIST FAF TO THLD: 5.44 | |
| 4. MIN ALT: | WILHI 3500, WIKON 2700 | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 250 HAT: 0.66 | GS ANT: |
| 6. MIN GP INCPT: | 2700 | GP ALT AT FAF : | WIKON 2700 | OM: | MM: |
| 7. GP ANGLE: | 3.00 | 34:1: | IS NOT CLEAR | 20:1: | IS CLEAR |
| | | | TCH: | 40.0 | |
| 8. MSA FROM: | | | | | |

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 28 NA AT NIGHT.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CHARLESTON ALTIMETER SETTING.
CHART NOTE: RWY 10 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 NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHARLESTON ALTIMETER SETTING, INCREASE LPV DA TO 1247 FEET, LNAV/VNAV DA TO 1730 FEET, AND LNAV/VNAV VISIBILITY ALL CATS BY 1/2 SM; INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT B 1/4 SM AND CAT C AND D 1/2 SM, AND CIRCLING VISIBILITY CATS C AND D BY 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 280.34 INBOUND.
FAS OBST: 1359 AAO 384953N/0812649W.
CHART VDP AT 2.04 NM TO RW10*
*LNAV ONLY.
WAAS CHANNEL # 93632
REFERENCE PATH ID: W10A
CHART CIRCLING ICON.
LTP HAE: 249.2 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 | 1178 | 1 | 250 | 1178 | 1 | 250 | 1178 | 1 | 250 | 1178 | 1 | 250 | | | |
| LNAV/VNAV DA | 1661 | 2 | 733 | 1661 | 2 | 733 | 1661 | 2 | 733 | 1661 | 2 | 733 | | | |
| LNAV MDA | 1620 | 1 | 692 | 1620 | 1 | 692 | 1620 | 2 | 692 | 1620 | 2 | 692 | | | |
| CIRCLING | 1620 | 1 | 692 | 1760 | 1 1/4 | 832 | 1760 | 2 1/2 | 832 | 1760 | 2 3/4 | 832 | | | |

CHANGES - REASONS

1. CHANGED THRE 928 TO TDZE 928 AND REMOVED PROCEDURE NA AT NIGHT - INCORPORATED NOTAM FDC 4/4456.
2. CHANGED TERMINAL ROUTE WILHI TO WIKON RNP VALUE FROM 0.50 TO 1.00 - IAW 8260.58A TABLE 1-2-1.
3. PROFILE: LINE 2 ADDED MAX 6000 - 8260.19H, 8-6-7.B(2).
4. REMOVED DISTANCE TO THLD FROM 250 HATH: 0.66 NM FROM ADDITIONAL FLIGHT DATA AND ADDED 250 HAT: 0.66 TO PROFILE LINE 5 - 8260.19H, 8-6-7.E(3).
5. REMOVED CHART NOTE DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - 8260.19H, 8-6-8.B(1).
6. CHART NOTE: CHANGED FROM: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHARLESTON ALTIMETER SETTING AND INCREASE ALL DA 75FT AND ALL MDA 80FT. INCREASE LPV ALL CATS VISIBILITY 1/8 MILE, LNAV CAT B VISIBILITY 1/4 MILE, CAT C/D VISIBILITY 1/2 MILE AND CIRCLING CAT B/C/D VISIBILITY 1/4 MILE -TO- WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHARLESTON ALTIMETER SETTING, INCREASE LPV DA TO 1247 FEET, LNAV/VNAV DA TO 1730 FEET, AND LNAV/VNAV VISIBILITY ALL CATS BY 1/2 SM; INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT B 1/4 SM AND CAT C AND D 1/2 SM, AND CIRCLING VISIBILITY CATS C AND D BY 1/4 SM - PER NEW TARGETS EVALUATION AND VIS CHECK.
7. CHART NOTE: CHANGED FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C. - 8260-19H, 8-6-9.S.
8. CHART NOTE: CHANGED FROM: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED -TO- RWY 10 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED-PER CURRENT CRITERIA 8260.19, 8-6-11.K(3).
9. ADDITIONAL FLIGHT DATA: ADDED CHART CIRCLING ICON- UPDATED TO NEW CIRCLING CRITERIA.
10. CHANGED LNAV/VNAV ALL CATS VISIBILITY FROM 3 SM -TO- 2 SM - TO MATCH CURRENT VISIBILITY 8260.3D TABLE 3-3-1.
11. CHANGED CIRCLING CAT B MDA/HAA FROM 1620/692 TO 1760/832 - UPDATED TO NEW CIRCLING CRITERIA AND NEW CONTROLLING OBSTACLE-8260.19H, 8-6-10.T.
12. CHANGED CRC REMAINDER FROM DOC8C027 TO 2CE92EE3 - CHANGED FPAP LAT/LONG FROM 3894923.1425N/0811930.5720W -TO- 348923.1310N/0811930.572.

COORDINATED WITH:

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

FLIGHT CHECKED BY

DANIEL KIRBY

DEVELOPED BY

JASON KRETSCHMER (RAYMOND JOHNSON)

APPROVED BY

MARLON ROBINSON

Digitally signed by
JASON KRETSCHMER
Aug 06, 2020

Digitally signed by
JASON KRETSCHMER
Jan 04, 2021

Digitally signed by
JASON KRETSCHMER
Aug 06, 2020

| OFFICE | DATE |
|----------|------------|
| FICO | 12/22/2020 |
| OFFICE | DATE |
| AJV-A421 | 06/30/2020 |
| OFFICE | DATE |
| AJV-A420 | |

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KUSW |
| RUNWAY | RW10 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W10A |
| LTP/FTP LATITUDE | 384926.5200N |
| LTP/FTP LONGITUDE | 0812124.5000W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +02492 |
| FPAP LATITUDE | 384923.1310N |
| FPAP LONGITUDE | 0811930.5725W |
| 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 | 1360 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| | |
| CRC REMAINDER | 2CE92EE3 |

ADDITIONAL PATH POINT RECORD INFORMATION

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

