

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.29**

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> RALEIGH COUNTY MEMORIAL	<u>AIRPORT ID</u> KBKW	<u>PROCEDURE NAME</u> ILS OR LOC RWY 19	<u>ORIGINAL/AMENDMENT</u> 7	<u>CITY</u> BECKLEY	<u>STATE</u> WV
<u>AIRPORT ELEVATION</u> 2504	<u>TDZE</u> 2468	<u>SUPERSEDED</u> ILS OR LOC RWY 19	<u>ORIGINAL/AMENDMENT</u> 6B	<u>DATED</u> 07/21/2016	<u>MAG VAR</u> 6W
<u>FACILITY</u> I-MQU	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 DECEMBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1985

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
BKW VOR/DME		LEONE/BKW 12.47 DME					012.92	12.47	5000
LAFOR/BKW 18.19 DME	IAF	LEONE/BKW 12.47 DME	NOPT				193.49	5.72 (I-MQU)	5000
LEONE/BKW 12.47 DME	IF/IAF	VOCUK/BKW 7.16 DME					193.49	5.31 (I-MQU)	4400

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 5.95 NM AFTER VOCUK/BKW 7.16 DME OR AT BKW 1.21 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3300 THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 360 AND BKW VOR/DME R-324 TO NUTTR INT AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 4000 THEN CLIMBING RIGHT TURN TO 5500 ON HEADING 330 AND HVQ VOR/DME R-150 TO HVQ VOR/DME AND HOLD.

**PROFILE:**

1. PT      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**
2. HOLD N LEONE, LT, 193.49 INBOUND, 5000 FT. IN LIEU OF PT (IF/IAF), MAX 7000.
3. **FAC:** 193.49      **FAF:** VOCUK/BKW 7.16 DME                      **DIST FAF TO MAP:** 5.95                      **DIST FAF TO THLD:** 5.95
4. **MIN ALT:** LEONE/BKW 12.47 DME 5000, VOCUK/BKW 7.16 DME 4400, ZIDNA/BKW 3.70 DME 3180\*
5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **GS ANT:** 959
6. **MIN GS INCPT:** 4400                      **GS ALT AT FAF :** VOCUK/BKW 7.16 DME 4400                      **OM:**                      **MM:**                      **IM:**
7. **GP ANGLE:** 3.00                      **34:1:**                      **20:1:**                      **TCH:** 55.1
8. **MSA FROM:** BKW VOR/DME 5400

**EQUIPMENT REQUIREMENTS NOTES:**

DME REQUIRED.



**NOTES:**

**ADDITIONAL FLIGHT DATA:**

CHART CIRCLING ICON.  
 CHART IN PLANVIEW: HVQ VOR/DME  
 CHART VDP AT 2.32 DME\*  
 DISTANCE VDP TO THLD 1.10 NM  
 \* LOC ONLY  
 CHART FAS OBST: 2524 TREE 374830N/0810719W.  
 2992 AAO 375331N/0810544W.  
 CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W HVQ VOR/DME, RT, 081.00 INBOUND.  
 HOLD NW, RT, 144.29 INBOUND

**MINIMUMS:**

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

**ALTERNATE:** NA  ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: STANDARD - CAT C 900-2 1/2, CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<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>												
S-ILS 19	2688	1/2	220	2688	1/2	220	2688	1/2	220	2688	1/2	220			
S-LOC 19	2860	1/2	392	2860	1/2	392	2860	5/8	392	2860	5/8	392			
CIRCLING	3120	1	616	3180	1	676	3320	2 1/2	816	3500	3	996			

**CHANGES - REASONS**

1. MOVED BACKUP ALTIMETER SETTING AND ASSOCIATED NOTES TO -9 AS CONTINGENCY NOTES - ASOS ON WMSCR.
2. ADDED CHART CIRCLING ICON - 8260.19H PARA 8-6-8 AND 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
3. DELETED FEEDER RAINELLE (RNL) AND NUTTR IAF FROM APPROACH SEGMENT - RNL VOR BEING DECOMMISSIONED.
4. ADDED DME REQUIRED - RNL BEING DECOMMISSIONED.
5. CHANGED FAS OBSTACLE FROM "2539 TREE 374853N/0810706W" TO "2524 TREE 374830.02N/0810719.43W" - CURRENT SURVEY DATA.
6. INCREASED ILS ALL CATS DA/HAT FROM 200/2649 TO 220/2688 - PRECIPITOUS TERRAIN, IAW 8260.3 3-2-2 B (1) (A) 2. (10% OF HAT).
7. CHANGED CIRC CAT C MDA/HAA FROM 3180/676 TO 3320/816 AND VISIBILITY FROM 2 SM TO 2 1/2 SM, CAT D MDA/HAA FROM 3180/676 TO 3500/996 AND VISIBILITY FROM 2 1/4 SM TO 3 SM - NEW CIRCLING CRITERIA AND OBSTACLES.
8. DELETED ZIDNA FIX MINIMUMS (DME FIX) - NO LONGER REQUIRED, DME NOW REQUIRED FOR PROCEDURE, RNL VOR BEING DECOMMISSIONED.
9. S-LOC 19 MDA/HAT INCREASED FROM 2820/352 TO 2860/392 - LOWER FAS OBST/PRECIPITOUS TERRAIN ADJUSTMENT ADDED.
10. CHANGED REFERENCE FOR HVQ FROM VORTAC TO VOR/DME IN ALTERNATE MISSED APPROACH - TACR PROJECT.
11. ADDED CHART VDP AT 2.32 DME\*, DISTANCE VDP TO THLD 1.1 NM, AND \* LOC ONLY - IAW 8260.3 2-6-5, 8260.19 8-6-10, VDP PUBLISHABLE.
12. REMOVED CHART OM IN HALF-TONE - NO LONGER APPLIES.
13. DELETED INOP NOTE FOR LOC - INCREASE EQUALS INOP TABLE.
14. ADDED 2992 AAO 375331N/0810544W TO ADDITIONAL FLIGHT DATA - TARGETS 7:1 OBSTACLE LOC FINAL.

10/21/2019: THIS IS A UPDATED COPY OF THE FORM DEVELOPED ON 07/23/2019.

1. ADDED FIX MINIMUM TO LINE 4 OF THE 8260-3: VOCUK/BKW 7.16 DME 4400.
2. CHANGED TERMINAL ROUTES IAF LAFOR FROM SEGMENT: FROM "LAFOR/18.19 DME" TO "LAFOR/BKW 18.19 DME".



**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZID, CRW APPCH CON, AMGR, ATA

**FLIGHT CHECKED BY**

JORGE A MALCUN

*Digitally signed by*

**DAVID DANNER**

Oct 28, 2019

**OFFICE**

FICO

**DATE**

10/04/19

**DEVELOPED BY**

DAVID DANNER (DEAN GRACEY)

*Digitally signed by*

**DAVID DANNER**

**OFFICE**

AJV-A421

**DATE**

07/23/2019

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by*

**DAVID DANNER**

Oct 28, 2019

**OFFICE**

AJV-A420

**DATE**

**TITLE**  
MANAGER

