

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> GREENBRIER VALLEY	<u>AIRPORT ID</u> KLWB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> LEWISBURG	<u>STATE</u> WV
<u>AIRPORT ELEVATION</u> 2302	<u>TDZE</u> 2288	<u>SUPERSEDED</u> RNAV (GPS) RWY 4	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 08/27/2009	<u>MAG VAR</u> 8W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 MARCH 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 313/30 CW 133/30	NOPT	313/5 CW 133/5		6700
2. 313/5 CW 133/5		RUFYO	IF/IAF	5000
3. 133/30 CW 313/30		133/5 CW 313/5		6800
4. 133/5 CW 313/5		RUFYO	IF/IAF	5000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
RUFYO	IF/IAF	LORTY		TF	FB	1.00	043.23	6.02	4100
LORTY	FAF	RW04	MAP	TF	FO	0.30	043.25	5.53	
RW04	MAP	2559 MSL		CA			043.25		
2559 MSL		HODFU		DF	FO	1.00			6300

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW04

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6300 DIRECT HODFU AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6300.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SW RUFYO, RT, 043.23 INBOUND, 5000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 043.25 FAF: LORTY DIST FAF TO MAP: 5.53 DIST FAF TO THLD: 5.53
4. MIN ALT: RUFYO 5000, LORTY 4100
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 271 HAT: 0.69 GS ANT:
6. MIN GP INCPT: 4100 GP ALT AT FAF : LORTY 4100 OM: MM: IM:
7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 50.7
8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 4 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19°C OR ABOVE 54°C.
FOR INOPERATIVE ALS, INCREASE LNAV CATS A/B VISIBILITIES TO 1 SM, CATS C/D TO 1 3/8 SM, AND INCREASE LPV ALL CATS VISIBILITIES TO 7/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.32 NM TO RW04*
*LNAV ONLY
WAAS CHANNEL #42613
REFERENCE PATH ID: W04A
FAS OBST: 2540 AAO 374713N/0802647W.
HOLD NE, RT, 223.39 INBOUND
LTP HAE: 665.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 1000-3, CAT D 1400-3, 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	2559	3/4	271	2559	3/4	271	2559	3/4	271	2559	3/4	271			
LNAV/VNAV DA	2738	7/8	450	2738	7/8	450	2738	7/8	450	2738	7/8	450			
LNAV MDA	2760	3/4	472	2760	3/4	472	2760	1	472	2760	1	472			
CIRCLING	2840	1	538	3040	1	738	3280	3	978	3680	3	1378			



CHANGES - REASONS

1. FAS DATA: CRC REMAINDER UPDATED FROM BDF236B7 TO B0117E6C - LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +06658 TO +06657, LTP/FTP COORDINATES UPDATED FROM 375101.6600N 0802423.3600W TO 375101.6515N 0802423.3550W, FPAP COORDINATES UPDATED FROM 375214.4600N 0802318.3400W TO 375214.4590N 0802318.3530W - NEW TARGET FAS DATA CALCULATIONS AND UPDATED AIRNAV DATA.
2. LPV DA/HAT DECREASED FROM 2589/301 TO 2559/271 - NEW CONTROLLING OBSTACLE.
3. LNAV/VNAV DA/HAT DECREASED FROM 2786/498 TO 2738/450; VISIBILITY DECREASED FROM 1 1/4 MILE TO 7/8 MILE - NEW CONTROLLING OBSTACLE, VISCHECK AND HISTORICAL TEMPERATURES UPDATE.
4. LNAV MDA/HAT INCREASED FROM 2680/392 TO 2760/472 - NEW CONTROLLING OBSTACLE.
5. LNAV CAT C VISIBILITY INCREASED FROM 3/4 MILE TO 1 MILE. - VISCHECK, NEW CONTROLLING OBSTACLE.
6. CIRCLING CAT A MDA/HAA INCREASED FROM 2820/518 TO 2840/538 - NEW CIRCLING RADII, NEW CONTROLLING OBSTACLE.
7. CIRCLING CAT B MDA/HAA INCREASED FROM 2900/598 TO 3040/738 - NEW CIRCLING RADII, NEW CONTROLLING OBSTACLE.
8. CIRCLING CAT C MDA/HAA/VIS INCREASED FROM 3080/778/ 2 1/4 MILES TO 3280/978/ 3 MILES - NEW CIRCLING RADII, NEW CONTROLLING OBSTACLE, VISCHECK CALCULATION.
9. CIRCLING CAT D MDA/HAA INCREASED FROM 3280/978 TO 3680/1378 - NEW CONTROLLING OBSTACLE
10. REMOVED FEEDERS (BECKLEY (BKW), RAINELLE (RNL) - VOR MON DECOMMISSIONING, ADDED TAA.
11. REMOVED INITIALS (CASTE, WEDAN, LAWOP) - ADDED TAA, PER FPT.
12. CHANGED RUFYO (IF/IAF) ALTITUDE FROM 4900 FEET TO 5000 FEET - NEW TAA OBSTACLE ALTITUDE REQUIREMENTS.
13. REMOVED MSA ADDED TAA AND H-I-L - REQUIRED WITH TAA PER CRITERIA.
14. PROFILE LINE 2 CHANGED FROM "HOLD SW RUFYO, RT, 043.21 INBOUND, 4900 FT IN LIEU OF PT (IAF)" TO "HOLD SW RUFYO, RT, 043.23 INBOUND 5000 FT IN LIEU OF PT (IAF), MAX 6000" - TARGETS EVALUATION, NEW H-I-L CONTROLLING OBSTACLE.
15. REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RNL VOR VIA V260 WESTBOUND - VOR MON RNL DECOMMISSIONING.
16. REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CASTE VIA V140 EASTBOUND - FIX (CASTE) REMOVED.
17. REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BKW VORTAC VIA V258 NORTHWEST BOUND - VOR MON BKW DECOMMISSIONING.
18. MISSED APPROACH INSTRUCTIONS CHANGED FROM "CLIMB TO 5500 DIRECT RIGWA AND LEFT TURN VIA TRACK 313 TO TONPE AND LEFT TURN VIA TRACK 223 TO VURZO AND VIA TRACK 176 TO RUFYO AND HOLD" TO "CLIMB TO 6300 DIRECT HODFU AND HOLD, CONTINUE CLIMB IN HOLD TO 6300" - NEW MISSED APPROACH PROCEDURE PER FPT, REMOVED FIXES (RIGWA), (TONPE) AND (VURZO).
19. CHANGED TERMINAL ROUTE RUFYO TO LORTY FROM 43.21/6.10 TO 43.23/6.02 - PFAF (LORTY) MOVED, TARGETS EVALUATION.
20. CHANGED TERMINAL ROUTE LORTY TO RW04/MAP DISTANCE FROM 5.45 TO 5.53 - PFAF (LORTY) MOVED, TARGETS EVALUATION.
21. CHANGED ADDITIONAL FLIGHT DATA NOTE FROM "CHART FAS OBST: 2389 TREE 375028N/0802506W" TO "FAS OBST: AAO 2540 374712.77/0802646.96W" - NEW LNAV CONTROLLING OBSTACLE.
22. CHANGED ADDITIONAL FLIGHT DATA NOTE FROM "DISTANCE TO THLD FROM 301 HAT: 0.79 NM" TO "DISTANCE TO THLD FROM 271 HAT: 0.69 NM" - NEW TARGETS EVALUATION.
23. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
24. ADDED TO PROFILE 20:1: IS CLEAR - NO 20:1 PENETRATIONS EXIST.
25. REMOVED CHART NOTE: DME/DME RNP-0.3NA, ADDED PBN REQUIREMENTS NOTE: RNP APCH - NEW CRITERIA REQUIREMENT FOR GPS PROCEDURES PER 8060.19H, 8-6-8B(1).
26. REMOVED THE BACK-UP ALTIMETER NOTE AND ALL ASSOCIATED NOTES - IAW 8260.19H.
27. ADDITIONAL FLIGHT DATA CHANGED CHART VDP FROM "1.07 MILES TO RW04 *LNAV ONLY" TO "1.32NM TO RW04* (*LNAV ONLY)" - LNAV MINIMUM CHANGE; TARGETS EVALUATION.
28. BARO-VNAV NOTE, CHANGED HIGH TEMPERATURE FROM 44C TO 54C AND REMOVED FAHRENHEIT VALUES - CURRENT WEATHER DATA AND 8260.19H POLICY.
29. REMOVED CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA, ADDED CHART NOTE: RWY 4 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - IAW FAAO 8260.19H, PARA 8-6-11 K (3).
30. CHANGED NOTE "FOR INOPERATIVE MALSR, INCREASE LNAV ALL CATS VISIBILITY 1/4 MILE TO " FOR INOPERATIVE ALS, INCREASE LNAV CATS A/B VISIBILITIES TO 1 SM, CATS C/D TO 1 3/8 SM, AND INCREASE LPV ALL CATS VISIBILITIES TO 7/8 SM" - VISCHECK EVALUATION.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZDC, AMGR, KLWB ATCT

FLIGHT CHECKED BY

EDWARD W MESA

Digitally signed by
WARDELL HENNING
Jan 24, 2020

OFFICE

FICO

DATE

12/9/19

DEVELOPED BY

WARDELL HENNING (GORDON LEMON)

Digitally signed by
WARDELL HENNING
Jan 24, 2020

OFFICE

AJV-A432

DATE

08/05/2019

APPROVED BY

LONNIE EVERHART

Digitally signed by
WARDELL HENNING
Jan 24, 2020

OFFICE

AJV-A430

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLWB
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	375101.6515N
LTP/FTP LONGITUDE	0802423.3550W
LTP/FTP ELLIPSOIDAL HEIGHT	+06657
FPAP LATITUDE	375214.4590N
FPAP LONGITUDE	0802318.3530W
THRESHOLD CROSSING HEIGHT (TCH)	00050.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	B0117E6C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+06972
FPAP ORTHOMETRIC HEIGHT	+06972

