

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 ID</u> SDF	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 35L	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> LOUISVILLE	<u>STATE</u> KY
<u>AIRPORT ELEVATION</u> 501	<u>TDZE</u> 464	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 35L	<u>ORIGINAL/AMENDMENT</u> 1E	<u>DATED</u> 08/15/2019
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 11 JULY 2024	<u>REQUIRED EFFECTIVE DATE</u> 07/11/2024	<u>MAG VAR</u> 5W
				<u>EPOCH YEAR</u> 2020
				<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>
BRBON	IAF	RDBRD		TF	FB	1.00	350.45	4.41	5000
RDBRD		AWLEE		TF	FB	1.00	350.44	3.53	4000
AWLEE	IF	KNNOX		TF	FB	1.00	350.40	3.12	3000
KNNOX		CRDNL		TF	FB	1.00	350.43	2.98	2400
CRDNL	FAF	BARRR/2.64 NM TO RW35L		TF	FB	0.30	350.42	3.27	
BARRR/2.64 NM TO RW35L		RW35L	MAP	TF	FO	0.30	350.42	2.64	
RW35L	MAP	1000 MSL		CA			350.42		1000
1000 MSL		DAMEN		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW35L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 4000 DIRECT DAMEN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
2. PROFILE STARTS AT AWLEE
3. FAC: 350.42 FAF: CRDNL DIST FAF TO MAP: 5.90 DIST FAF TO THLD: 5.90
4. MIN ALT: AWLEE 4000, KNNOX 3000, CRDNL 2400, BARRR/2.64 NM TO RW35L 1360
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 200 HAT: 0.45 GS ANT: IM:
6. MIN GP INCPT: 2400 GP ALT AT PFAF: CRDNL 2400 OM: MM:
7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 59.1
8. MSA FROM: RW35L 3600

QUALITY
21
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING RWY 11 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: ARRIVAL HOLDING NOT REQUIRED AT BRBON ON V5-513 NORTHBOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CATS C/D VISIBILITY TO 1 1/2 SM.

CHART SPEED ICON IN PLANVIEW AT AWLEE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD W, LT, 099.01 INBOUND.
CHART ARRIVAL HOLDING AT BRBON: HOLD S, RT, 008.43 INBOUND, 6000.
CHART FAS OBST: 740 CONTROL_TOWER (21-001527) 380933N/0854348W.
CHART 1254 TOWER (21-000420) 380349N/0854352W, 849 TREE (21-022900) 380651N/0854345W.
CHART R-3704 A AND B.
CHART VDP AT 1.45 NM TO RW35L.
WAAS CHANNEL # 86203
REFERENCE PATH ID: W35A
CHART MANDATORY 6000 AT BRBON.
LTP HAE: 107.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-3

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	664	1800	200	664	1800	200	664	1800	200	664	1800	200			
LNAV/VNAV DA	901	4000	437	901	4000	437	901	4000	437	901	4000	437			
LNAV MDA	1000	2400	536	1000	2400	536	1000	5500	536	1000	5500	536			
CIRCLING	1040	1	539	1140	1	639	1160	1 3/4	659	1400	3	899			



CHANGES - REASONS

1. ADDED FIX KNOX - REQUESTED BY ATC TO PROVIDE AN ADDITIONAL INTERMEDIATE STEPDOWN FIX AT OR ABOVE 3000 FOR A SMOOTHER DESCENT ON THE FINAL COURSE.
2. ADDED FIX LISSN - SERVES AS THE CAPTURE FIX AND INTERMEDIATE STEPDOWN FIX.
3. STRAIGHT INITIAL CHANGED FROM BRBON-RDBRD TO BRBON-RDBRD-AWLEE - TO MATCH THE RNAV (RNP) Z RWY 35L.
4. ADDED INTERMEDIATE SEGMENTS AABEY-EBOCO-FANIE-GIGUE-LISSN (EAST OF FINAL) AND DPAUW-HONUS-IVALE-JOPRA-LISSN (WEST OF FINAL) - MIRRORS RNAV (RNP) RWY 35L AND ADDS GREATER FLEXIBILITY FOR ATC AND INDUSTRY.
5. MOVED PFAF CRDNL 6.5 FT SOUTHWEST - TARGETS CALCULATED PFAF LOCATION.
6. MOVED FINAL STEPDOWN FIX BARRR/2.70 NM TO RW35L INWARD 388 FT AND CHANGED DISTANCE TO 2.64 NM TO RW35L - STEPDOWN FIX ALTITUDE LOWERED FROM 1380 TO 1360.
7. CHANGED MISSED APPROACH INSTRUCTIONS FROM 'CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 3000 DIRECT DAMEN AND HOLD' TO 'CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 4000 DIRECT DAMEN AND HOLD' - TO MATCH ILS OR LOC RWY 35L MISSED HOLDING ALTITUDE WHICH WAS ALTERED BY NAVAID RADIAL/DISTANCE/ALTITUDE LIMITATIONS.
8. PROFILE LINE 2: CHANGED FROM 'PROFILE STARTS AT RDBRD' TO 'PROFILE STARTS AT LISSN' - LISSN ADDED AS NEW CAPTURE FIX COMMON TO ALL THREE INTERMEDIATE SEGMENTS PER 8260.19I PARA. 8-6-7B(3)(B).
9. PROFILE LINE 3: FINAL APPROACH COURSE CHANGED FROM 350.41 TO 350.42 - RESULT OF PFAF CRDNL RELOCATION.
10. PROFILE LINE 4 CHANGED FROM 'RDBRD 5000, AWLEE 4000, CRDNL 2400, BARRR/2.70 NM TO RW35L 1380'' TO 'LISSN 2500, CRDNL 2400, BARRR/2.64 NM TO RW35L 1360' - BASED ON CHANGES TO INITIAL, INTERMEDIATE FIXES, AND FINAL STEPDOWN FIXES.
11. UPDATED PBN REQUIREMENTS NOTE FROM 'RNP APCH' TO 'RNP APCH - GPS' - PER 8260.19I PARA. 8-6-8B(2).
12. CHANGED NOTE 'FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -14°C OR ABOVE 54°C' TO 'FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10°C OR ABOVE 54°C' - UP-TO-DATE 5-YEAR WEATHER HISTORY.
13. REMOVED NOTE 'LNAV ONLY' AND ASSOCIATED ASTERISKS FROM VDP AT 1.5 NM TO RW35L AND STEPDOWN FIX BARRR 2.7 NM TO RW35L 1380 - NO LONGER REQUIRED BY CRITERIA.
14. MAX 210 KIAS SPEED RESTRICTIONS CHARTED AT AABEY AND DPAUW, MAX 185 KIAS SPEED RESTRICTION CHARTED AT HONUS, AND MAX 180 KIAS SPEED RESTRICTION CHARTED AT GIGUE, JOPRA AND AWLEE - REQUESTED BY ATC.
15. CHANGED MISSED HOLD PATTERN COURSE INBOUND FROM 099.00 TO 099.01 - FPT REQUESTED TO MATCH ILS OR LOC RWY 35L HOLDING COURSE.
16. ADDED MANDATORY ALTITUDES 6000 AT BRBON, AABEY, AND DPAUW AND 2500 AT LISSN - TRANSITION ALTITUDE FROM CONNECTING STARS AND CAPTURE MANDATORY FIX ALTITUDE PER 8260.58C APPENDIX C PARA.2B.
17. INCREASED ARRIVAL HOLDING ALTITUDE FROM 5000 TO 6000 - DUE TO MANDATORY 6000 AT BRBON.
18. ADDED PROFILE NOTE 'SEE PLANVIEW FOR MULTIPLE IF LOCATIONS' - PER 8260.19I PARA. 8-6-7B(3)(B).
19. FAS DATA: LTP COORDINATES CHANGED FROM 380929.3990N/0854421.3700W TO 380929.3985N/0854421.3710W - PER UPDATED AIRNAV DATA.
20. FAS DATA: FPAP COORDINATES CHANGED FROM 381113.1900N/0854455.6500W TO 381113.1635N/0854455.6085W - RESULT OF CHANGE TO LTP COORDINATES.
21. FAS DATA: CRC REMAINDER CHANGED FROM 354A53B0 TO 248AD368 - RESULT OF LTP AND FPAP COORDINATES CHANGES.
22. CONVERTED IF RDBRD TO AN INITIAL SEGMENT STEPDOWN FIX AND DESIGNATED AWLEE AS THE NEW IF - REQUESTED BY ATC/FPT/PBN OFFICE AND MATCHES THE RNAV (RNP) Z RWY 35L.

04/06/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/23/24.

1. CHANGED AWLEE SPEED RESTRICTION FROM MAX 180 KNOTS TO MAX 210 KNOTS - PER PBN/FPT TO MATCH THE ILS OR LOC RWY 35L SPEED RESTRICTIONS.

05/03/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/23/24.

1. REMOVED RNAV TRANSITIONS AABEY-EBOCO-FANIE-GIGUE-LISSN AND DPAUW-HONUS-IVALE-JOPRA-LISSN AND ALL ASSOCIATED FIXES, MANDATORY ALTITUDES AND SPEED RESTRICTIONS - PER FLIGHT INSPECTION UNSAT RESULT DUE TO FLIGHT MANAGEMENT SYSTEM DIFFICULTIES TRANSITIONING FROM THE EAST/WEST INTERMEDIATE SEGMENTS AND CAPTURE FIX TO FINAL GLIDE PATH.
2. COMBINED KNOX-LISSN DISTANCE 1.88 AND LISSN-CRDNL DISTANCE 1.10 TO KNOX-CRDNL DISTANCE 1.98 - CAPTURE FIX LISSN REMOVED FROM APPROACH.
3. PROFILE LINE 2: CHANGED 'PROFILE STARTS AT LISSN' TO 'PROFILE STARTS AT AWLEE' - CAPTURE FIX LISSN REMOVED FROM APPROACH AND PER 8260.19J PARA. 8-6-7(3)(A).
4. PROFILE LINE 4: REMOVED 'LISSN 2500' AND ADDED 'AWLEE 4000, KNOX 3000' - CAPTURE FIX LISSN REMOVED FROM APPROACH AND INTERMEDIATE FIXES ADDED PER 8260-19I PARA. 8-6-7D.
5. REMOVED PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS - NOT REQUIRED. APPROACH REDUCED TO ONE INTERMEDIATE FIX.

06/03/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/23/24.

1. CHANGED PUBLICATION FROM ROUTINE TO HARD DATE.



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER:

ZID, SDF APP CON, SDF ATCT, AMGR.

FLIGHT CHECKED BY
PENDING

Digitally signed by

RAKE MCGRAW

OFFICE

DATE

Jun 03, 2024

DEVELOPED BY

RALPH DUMAR

Digitally signed by

RALPH DUMAR

Jun 03, 2024

OFFICE

DATE

AJV-A422

01/23/2024

APPROVED BY

DAVID DANNER

Digitally signed by

RAKE MCGRAW

OFFICE

DATE

Jun 03, 2024

AJV-A420

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSDF
RUNWAY	RW35L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	380929.3985N
LTP/FTP LONGITUDE	0854421.3710W
LTP/FTP ELLIPSOIDAL HEIGHT	+01074
FPAP LATITUDE	381113.1635N
FPAP LONGITUDE	0854455.6085W
THRESHOLD CROSSING HEIGHT (TCH)	00059.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	248AD368

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01406
FPAP ORTHOMETRIC HEIGHT	+01406

