

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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> KCVG	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 18L	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>CITY</u> COVINGTON	<u>STATE</u> KY		
<u>AIRPORT ELEVATION</u> 896	<u>TDZE</u> 889	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 18L	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>DATED</u> 04/04/2013	<u>MAG VAR</u> 6W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 24 MARCH 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
SPUDR	IAF	PHILO		TF	FB	1.00	186.21	3.14	6000
PHILO		CRISM		TF	FB	1.00	186.21	3.14	5000
CRISM	IF	BAIRE		TF	FB	1.00	186.21	3.14	4000
BAIRE		FRAZE	PFAF	TF	FB	1.00	186.21	5.02	2400
FRAZE	PFAF	RW18L	MAP	TF	FO	0.30	186.21	4.52	
RW18L	MAP	LAPER		TF	FB	1.00	186.21	11.16	
LAPER		FLM VOR/DME		TF	FO	1.00	135.74	20.59	3000

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 ON TRACK 186.21 TO LAPER AND ON TRACK 135.74 TO FLM VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT SPUDR

3. FAC: 186.21

PFAF: FRAZE

DIST PFAF TO MAP:

DIST PFAF TO THLD:

4. MIN ALT: SPUDR 7000, PHILO 6000, CRISM 5000, BAIRE 4000, FRAZE 2400

5. DIST TO THLD FROM PFAF: 4.52

MM:

IM:

150 HAT:

394 HAT: 1.07

GS ANT:

6. MIN GP INCPT: 2400

GP ALT AT PFAF : FRAZE 2400

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 55.1

8. MSA FROM: RW18L 3000

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16°C OR ABOVE 47°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.25 ALL CATS VISIBILITY TO RVR 6000, RNP 0.30 ALL CATS VISIBILITY TO 1 3/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 317.00 INBOUND.

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

ALTERNATE: NA ☐ STANDARD

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
AUTHORIZATION REQUIRED															
RNP 0.25 DA	1283	3500	394	1283	3500	394	1283	3500	394	1283	3500	394			
RNP 0.30 DA	1472	1 1/4	583	1472	1 1/4	583	1472	1 1/4	583	1472	1 1/4	583			



CHANGES - REASONS

1. P-NOTAMS FOR ORIG-A, ORIG-B AND ORIG-C INCORPORATED INTO FORM - REQUIRED IAW 8260.19I, PARA 8-3-4C(3)
2. CHANGED ALL MAGNETIC HEADINGS TWO DEGREES - MAGNETIC VARIATION UPDATED FROM 4W TO 6W TO MATCH CURRENT AIRNAV DATA.
3. CHANGED CHART NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (4F) OR ABOVE 47C (116F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C OR ABOVE 47C - IAW 8260.19I PARA 8-6-9R.
4. CHANGED CHART PROFILE NOTE FROM VGSI AND RNAV GLIDEPATH NOT COINCIDENT TO CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW 8260.19I PARA 8-6-9M(1).
5. CHANGED CHART NOTE FOR INOPERATIVE MALSR, INCREASE RNP 0.21 AND RNP 0.25 VISIBILITY TO RVR 6000, RNP 0.30 VISIBILITY TO 2 SM TO FOR INOPERATIVE ALS, INCREASE RNP 0.25 ALL CATS VISIBILITY TO RVR 6000, RNP 0.30 TO ALL CATS VISIBILITY TO 1 3/4 SM - IAW 8260.3E TABLE 3-3-1.
6. ADDED EQUIPMENT NOTE RNP AR APCH-GPS - 8260.18I PARA 8-6-8, B, 1.
7. CHANGED MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 3000 VIA 184.21 TRACK TO LAPER AND VIA 133.74 TRACK TO FLM VOR/DME AND HOLD TO CLIMB TO 3000 ON TRACK 186.21 TO LAPER AND ON TRACK 135.74 TO FLM VOR/DME AND HOLD - IAW 8260.19I PARA 8-6-6D(11).
8. DELETED RADAR REQUIRED FOR PROCEDURE ENTRY - NO LONGER REQUIRED FOR RNAV APPROACHES
9. ADDED LINE 7 20:1 IS CLEAR - IAW 8260.19I PARA 8-6-7G(3)(A).
10. DELETED GPS REQUIRED NOTE - MOVED TO EQUIPMENT REQUIREMENT NOTES.
11. DELETED USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS NOTE - NO LONGER REQUIRED FOR RNAV (RNP).
12. CHANGED SIMULTANEOUS APPROACH NOTE FROM CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 18 C/R TO CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED - IAW 8260.19I PARA 8-6-11(8)(A).
13. DELETED RNP 0.21 LINE OF MINIMA - DOES NOT MEET 8260.58B PARA 4-1-1C(2)(A) CRITERIA FOR NEW LINE OF MINIMA, FPT CONCURS.
14. CHANGED DIST TO THLD FROM OM TO DIST TO THLD FROM PFAF: 4.52 - IAW 8260.19I 8-6-7E.
15. CHANGED DIST TO THLD FROM 383 HAT TO 394 HAT: 1.07 - RNP 0.21 MINIMUMS WERE REMOVED, NEW RESULT IS BASED ON 0.25 MINIMUMS.
16. DELETED FAS OBSTACLE - NOT REQUIRED ON PRECISION APPROACH, IAW 8260.19I, 8-6-10C.
17. CHANGED RNP 0.25 DA LINE OF MINIMA VISIBILITY FROM 5000 TO 3500 - IAW 8260.3E TABLE 3-3-1.
18. CHANGED RNP 0.30 DA LINE OF MINIMA VISIBILITY FROM 1 1/2 TO 1 1/4 - IAW 8260.3E TABLE 3-3-1.

COORDINATED WITH:A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ **OTHER:** ZID, CVG APP CON, CVG ATCT, AMGR*Digitally signed by*
CASIMIR L TABAKA
Dec 17, 2021**FLIGHT CHECKED BY**PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE
FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION**OFFICE****DATE****DEVELOPED BY**

WILLIAM D. MELTON

*Digitally signed by***CASIMIR L TABAKA**

Dec 17, 2021

OFFICE

AJV-A422

DATE

09/24/2021

APPROVED BY

MARLON ROBINSON

OFFICE

AJV-A420

DATE**TITLE**
MANAGER*Digitally signed by*
CASIMIR L TABAKA
Dec 17, 2021