

**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> COLUMBIA RGNL	<u>AIRPORT ID</u> KCOU	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> COLUMBIA	<u>STATE</u> MO	
<u>AIRPORT ELEVATION</u> 889	<u>TDZE</u> 888	<u>SUPERSEDED</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 10/12/2017	<u>MAG VAR</u> 0E	<u>EPOCH YEAR</u> 2020
<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>		

**TAA**

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 045/30 CW 090/30	NOPT	045/26 CW 090/26		3900
2. 045/26 CW 090/26		NAYLU	IF/IAF	3100
3. 090/30 CW 225/30	NOPT	NAYLU	IF/IAF	3100
4. 225/30 CW 315/30		NAHWI	IAF	3100
5. 315/30 CW 045/30		315/21 CW 045/21		3900
6. 315/21 CW 045/21		OPNEJ	IAF	3100

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
NAHWI	IAF	NAYLU	NOPT	TF	FB	1.00	225.22	6.48	3100
OPNEJ	IAF	NAYLU	NOPT	TF	FB	1.00	045.25	6.50	3100
NAYLU	IF/IAF	RIYVO		TF	FB	1.00	135.32	6.50	2500
RIYVO	FAF	ROPSE/2.40 NM TO RW13		TF	FB	0.30	135.38	2.52	
ROPSE/2.40 NM TO RW13		RW13	MAP	TF	FO	0.30	135.38	2.40	
RW13	MAP	2000 MSL		CA			135.38		2000
2000 MSL		NAYLU		DF	FO	1.00			3100

MISSED APPROACH

MAP:  
LPV: DA  
LNAV/VNAV: DA  
LNAV: RW13

MISSED APPROACH INSTRUCTIONS:  
CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3100 DIRECT NAYLU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD NW NAYLU, RT, 135.32 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC: 135.38	FAF: RIYVO	DIST FAF TO MAP: 4.92	DIST FAF TO THLD: 4.92		
4. MIN ALT: NAYLU 3100, RIYVO 2500, ROPSE/2.40 NM TO RW13 1680*					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.65	GS ANT:
6. MIN GP INCPT: 2500	GP ALT AT FAF : RIYVO 2500	OM:	MM:	IM:	
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 45.0		
8. MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA FOR CAT D W OF RWYS 2 AND 13.  
CHART NOTE: CIRCLING RWY 20 NA AT NIGHT.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 953 TREE 385017N/0921401W.  
DISTANCE TO THLD FROM 250 HAT: 0.65 NM.  
CHART VDP AT 0.90 NM TO RW13\*  
\*LNAV ONLY.  
WAAS CHANNEL # 40042  
REFERENCE PATH ID: W13A  
CHART CIRCLING ICON.  
LTP HAE: 238.2 M



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

ALTERNATE: NA ☐ STANDARD - 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	1139	1	251	1139	1	251	1139	1	251	1139	1	251			
LNAV/VNAV DA	1139	1	251	1139	1	251	1139	1	251	1139	1	251			
LNAV MDA	1220	1	332	1220	1	332	1220	1	332	1220	1	332			
CIRCLING	1300	1	411	1340	1	451	1360	1 1/2	471	1440	2	551			

CHANGES - REASONS

1. DELETED NOTE: DME/DME RNP-0.3 NA. - NO LONGER REQUIRED.
2. ADDED PBN REQUIREMENTS NOTE: RNP APCH. - 8260.19H, 8-6-8B1.
3. DELETED FAHRENHEIT TEMPERATURES FROM BARO-VNAV NOTE. - 8260.19H, 8-6-9S.
4. CHANGED CIRCLING CAT C MINIMUMS FROM CMDA/HAA 1340/451 TO 1360/471. - NEW CONTROLLING OBSTACLE.
5. ADDED 20:1 IS CLEAR IN PROFILE VIEW. - 8260.19H, 8-6-11K3.
6. ADDED CHART NOTE: CIRCLING TO RWY 20 NA AT NIGHT. - EVALUATION REVEALED 20:1 PENETRATIONS FOR RWY 20/ENTERED INTO 20:1 TRACKER.
7. FAS DATA CHANGED LTP/FTP LATITUDE FROM 384938.0500N TO 384938.0435N, LONGITUDE FROM 0921322.6800W TO 0921322.6820W AND CRC REMAINDER FROM D6F1431E TO 50E7124C. - NEW AIRNAV DATA.
8. ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" TO ALTERNATE MINIMUMS. - MEMO #266, ATTACHMENT 4, PARA 6.
9. ADDED MAX 6000 C-I-H ON LINE 2 OF PROFILE. - 8260.19H, 8-6-7 B2A.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: COU ATCT, MIZZU APP CON, ZKC, MO STATE AERO

FLIGHT CHECKED BY

ANTHONY VALLERA

Digitally signed by

WARDELL HENNING

OFFICE

FICO

DATE

10/09/2020

Nov 03, 2020

Digitally signed by

WARDELL HENNING

OFFICE

AJV-A432

DATE

04/10/2020

Nov 03, 2020

APPROVED BY

GEORGE DAVIS

Digitally signed by

WARDELL HENNING

OFFICE

AJV-A430

DATE

TITLE  
MANAGER

Nov 03, 2020



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCOU
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	384938.0435N
LTP/FTP LONGITUDE	0921322.6820W
LTP/FTP ELLIPSOIDAL HEIGHT	+02382
FPAP LATITUDE	384834.5140N
FPAP LONGITUDE	0921202.6760W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1080
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	50E7124C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02707
FPAP ORTHOMETRIC HEIGHT	+02707

