

**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><b>AIRPORT ID</b></u> KCOU	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 2	<u><b>ORIGINAL/AMENDMENT</b></u> 2C	<u><b>CITY</b></u> COLUMBIA	<u><b>STATE</b></u> MO		
<u><b>AIRPORT ELEVATION</b></u> 889	<u><b>TDZE</b></u> 889	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 2	<u><b>ORIGINAL/AMENDMENT</b></u> 2B	<u><b>DATED</b></u> 02/25/2021	<u><b>MAG VAR</b></u> 0E	<u><b>EPOCH YEAR</b></u> 2020
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 2 DECEMBER 2021	<u><b>REQUIRED EFFECTIVE DATE</b></u> 12/02/2021	<u><b>CANCEL/SUSPEND</b></u>		

**TAA**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>ALTITUDE</b>
1. 291/30 CW 064/30	NOPT	ULUFA	IF/IAF	3100
2. 064/30 CW 111/30	NOPT	064/24 CW 111/24		3900
3. 064/24 CW 111/24		ULUFA	IF/IAF	3100
4. 111/30 CW 201/30		LIDPE	IAF	3100
5. 201/30 CW 291/30		RAGVE	IAF	3100

**TERMINAL ROUTES**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>LEG TYPE</b>	<b>FO/FB</b>	<b>RNP</b>	<b>COURSE</b>	<b>DISTANCE</b>	<b>ALTITUDE</b>
LIDPE	IAF	ULUFA	NOPT	TF	FB	1.00	111.30	6.50	3100
RAGVE	IAF	ULUFA	NOPT	TF	FB	1.00	291.46	6.50	3100
ULUFA	IF/IAF	FECFE		TF	FB	1.00	021.38	6.50	2500
FECFE	FAF	SHAME/2.80 NM TO RW02		TF	FB	0.30	021.41	2.14	
SHAME/2.80 NM TO RW02		RW02	MAP	TF	FO	0.30	021.41	2.80	
RW02	MAP	1089 MSL		CA			021.41		
1089 MSL		AGVOY		DF	FO	1.00			3100



**MISSED APPROACH****MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW02

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3100 DIRECT AGVOY AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:****PROFILE:**

1. PT                      SIDE OF COURSE                      OUTBOUND                      FT WITHIN                      MILES OF                      (IAF)

2. HOLD S ULUFA, LT, 021.38 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 021.41                      FAF: FECFE                      DIST FAF TO MAP: 4.94                      DIST FAF TO THLD: 4.94

4. MIN ALT:    ULUFA 3100, FECFE 2500, SHAME/2.80 NM TO RW02 1820

5. DIST TO THLD FROM OM:                      MM:                      IM:                      150 HAT:                      200 HAT: 0.51                      GS ANT:

6. MIN GP INCPT: 2500                      GP ALT AT FAF :    FECFE 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 - GPS.

**NOTES:**

CHART NOTE: CIRCLING NA FOR CAT D W OF RWYS 2 AND 13.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000, AND INCREASE LNAV CAT C/D VISIBILITY TO RVR 5500.  
CHART NOTE: \*\*RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA.

**ADDITIONAL FLIGHT DATA:**

CHART FAS OBST: 975 TREE (29-062299) 384619N/0921515W.  
HOLD N, RT, 201.49 INBOUND.  
CHART VDP AT 0.98 NM TO RW02  
WAAS CHANNEL # 77599  
REFERENCE PATH ID: W02A  
CHART CIRCLING ICON.  
LTP HAE: 236.4 M



**MINIMUMS:**

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

**ALTERNATE:** NA ☐ STANDARD - 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>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>	<b>DA/MDA</b>	<b>VIS</b>	<b>HAT/HAA</b>
LPV DA**	1089	2400	200	1089	2400	200	1089	2400	200	1089	2400	200			
LNAV/VNAV DA	1143	2400	254	1143	2400	254	1143	2400	254	1143	2400	254			
LNAV MDA	1240	2400	351	1240	2400	351	1240	3000	351	1240	3000	351			
CIRCLING	1280	1	391	1340	1	451	1360	1 1/2	471	1440	2	551			

**CHANGES - REASONS**

1. LNAV DA/HAT INCREASED FROM 1220/331 TO 1240/351; CAT C/D VISIBILITY INCREASED FROM 2400 TO 3000. - NEW LNAV CONTROLLING OBSTACLE; TO REMOVE NOTAM 1/2380.
2. CIRCLING CAT A MDA/AA DECREASED FROM 1300/411 TO 1280/389. - NEW CONTROLLING OBSTACLE; XP REMOVED FROM PREVIOUS AMDT.
3. UPDATED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH - GPS. - IAW 8260.19I 8-6-8 B(2).
4. UPDATED CHART NOTE: FROM: "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C OR ABOVE 54C." - NEW EVALUATION COMPLETED.
5. UPDATED CHART NOTE: FROM "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500" TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000, AND INCREASE LNAV CAT C/D VISIBILITY TO RVR 5500." - NEW LNAV MINS, VISCHECK RESULTS.
6. UPDATED CHART FAS OBSTACLE FROM 965 TREE 384747N/0921359W TO 975 TREE (26-062299) 384619N/0921515W. - NEW LNAV CONTROLLING OBSTACLE; OBSTACLE NUMBER ADDED IAW 8260.19I 8-6-10C.
7. UPDATED ADDITIONAL FLIGHT DATA: FROM HOLD N, RT, 201.50 INBOUND TO HOLD N, RT, 201.49 INBOUND. - INBOUND COURSE UPDATED ON RNAV (GPS) RWY 20 AFTER PFAF MOVED TO ACCOMODATE NEW VGSI GPA/TCH.
8. REMOVED ADDITIONAL FLIGHT DATA: DISTANCE TO THLD FROM 200 HAT: 0.51 NM. - INFORMATION DISPLAYED IN PROFILE LINE 5.
9. UPDATED ADDITIONAL FLIGHT DATA: FROM CHART VDP AT 0.92 NM TO RW02\* TO CHART VDP AT 0.98 NM TO RW02; REMOVED \*LNAV ONLY. - NOTES UPDATED IAW 8260.19I 8-6-10M.
10. FAS DATA: LTP/FTP LATITUDE UPDATED FROM 384818.7755N TO 384818.7750N. - NEW AIRNAV DATA.
11. FAS DATA: CRC REMAINDER UPDATED FROM 659AF9EB TO FA3E2D6E. - LTP/FTP LATITUDE UPDATED.
12. REMOVED CHART NOTE: CIRCLING RWY 20 NA AT NIGHT. - 20:1 PENETRATION REMOVED PER FPT.

04/14/21: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/22/21.

1. CHANGE REQUIRED EFFECTIVE DATE FROM ROUTINE TO 12/02/21.

**COORDINATED WITH:****A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAL** ☐ **NBAA** ☒ **OTHER:** ZKC ARTCC, MIZZU APP CON, ARPT MGR, COU ATCT**FLIGHT CHECKED BY**

PENDING

Digitally signed by

**JON DENTON****OFFICE****DATE****DEVELOPED BY**

JON DENTON (BARBARA GORMAN)

Digitally signed by

Apr 15, 2021

**JON DENTON****OFFICE**

AJV-A432

**DATE**

02/22/2021

**APPROVED BY**

LONNIE EVERHART

Digitally signed by

**JON DENTON**

Apr 15, 2021

**OFFICE**

AJV-A430

**DATE****TITLE**  
MANAGERQUALITY  
18  
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCOU
RUNWAY	RW02
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W02A
LTP/FTP LATITUDE	384818.7750N
LTP/FTP LONGITUDE	0921325.4150W
LTP/FTP ELLIPSOIDAL HEIGHT	+02364
FPAP LATITUDE	384941.7915N
FPAP LONGITUDE	0921243.7500W
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	0496
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	FA3E2D6E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02689
FPAP ORTHOMETRIC HEIGHT	+02689

