

**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> KCOU	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> COLUMBIA	<u>STATE</u> MO		
<u>AIRPORT ELEVATION</u> 889	<u>TDZE</u> 889	<u>SUPERSEDED</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 2	<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>	<u>REQUIRED EFFECTIVE DATE</u> 12/02/2021	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 111/30 CW 292/30	NOPT	AGVOY	IF/IAF	3100
2. 292/30 CW 021/30		UZOTY	IAF	3100
3. 021/30 CW 111/30		YEGSA	IAF	3100

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
UZOTY	IAF	AGVOY	NOPT	TF	FB	1.00	291.61	9.00	3100
YEGSA	IAF	AGVOY	NOPT	TF	FB	1.00	111.38	9.00	3100
AGVOY	IF/IAF	FEZFY		TF	FB	1.00	201.49	6.37	2500
FEZFY	FAF	PUNTY/2.73 NM TO RW20		TF	FB	0.30	201.46	2.20	
PUNTY/2.73 NM TO RW20		RW20	MAP	TF	FO	0.30	201.46	2.73	
RW20	MAP	1139 MSL		CA			201.46		
1139 MSL		ULUFA		DF	FO	1.00			3100

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW20

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3100 DIRECT ULUFA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
18
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N AGVOY, RT, 201.49 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 201.46FAF: FEZFYDIST FAF TO MAP: 4.93DIST FAF TO THLD: 4.93

4. MIN ALT: AGVOY 3100, FEZFY 2500, PUNTY/2.73 NM TO RW20 1800

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.65GS ANT:

6. MIN GP INCPT: 2500GP ALT AT FAF : FEZFY 2500OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 45.1

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.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 978 TREE (29-043575) 384919N/0921208W.
HOLD S, LT, 021.38 INBOUND.
CHART VDP AT 0.97 NM TO RW20
WAAS CHANNEL # 93599
REFERENCE PATH ID: W20A
CHART CIRCLING ICON.
LTP HAE: 237.6 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	3/4	250	1139	3/4	250	1139	3/4	250	1139	3/4	250			
LNAV/VNAV DA	1139	3/4	250	1139	3/4	250	1139	3/4	250	1139	3/4	250			
LNAV MDA	1240	1	351	1240	1	351	1240	1	351	1240	1	351			
CIRCLING	1280	1	391	1340	1	451	1360	1 1/2	471	1440	2	551			



CHANGES - REASONS

1. LNAV VISIBILITY CAT A/B INCREASED FROM 3/4 SM TO 1 SM; CATS C/D INCREASED FROM 7/8 SM TO 1 SM. - NEW INOP VISIBILITY TABLE USED.
2. CIRCLING CAT A MDA/HAA DECREASED FROM 1300/411 TO 1280/391. - NEW CONTROLLING OBSTACLE.
3. TAA: SECTOR 1 UPDATED FROM 111/30 CW 291/30 TO 111/30 CW 292/30; SECTOR 2 UPDATED FROM 291/30 TO 021/30 TO 292/30 TO 021/30. - LEFT-BASE INITIAL POINT UZOTY MOVED TO ACCOMMODATE ATC VECTORS.
4. TERMINAL ROUTES: UZOTY TO AGVOY COURSE/DISTANC UPDATED FROM 291.58/6.50 TO 291.61/9.00. - UZOTY MOVED TO ACCOMMODATE ATC VECTORS.
5. TERMINAL ROUTES: YEGSA TO AGVOY COURSE/DISTANC UPDATED FROM 111.41/6.50 TO 111.38/9.00. - YEGSA MOVED TO ACCOMMODATE ATC VECTORS.
6. TERMINAL ROUTES: AGVOY TO FEZFY COURSE/DISTANCE UPDATED FROM 201.50/6.50 TO 201.49/6.37. - FAF FEZFY MOVED FOR NEW VGSI TCH.
7. TERMINAL ROUTES: FEZFY TO PUNTY/2.80 NM TO RW20 UPDATED TO FEZFY TO PUNTY/2.73 NM TO RW20; DISTANCE UPDATED FROM 2.14 TO 2.20. - FAF AND STEPDOWN MOVED FOR NEW VGSI TCH.
8. TERMINAL ROUTES: PUNTY/2.80 NM TO RW20 UPDATED TO PUNTY/2.73 NM TO RW20. - PUNTY MOVED FOR NEW VGSI TCH.
9. PROFILE LINE 2: HOLD-IN-LIEU COURSE UPDATED FROM 201.50 TO 201.49; MAX 6000 ADDED. - UPDATED TO MATCH INTERMEDIATE INBOUND COURSE; IAW 8260.19H PARA 8-6-7 B(2).
10. PROFILE LINE 3: UPDATED DIST FAF TO MAP AND DIST FAF TO THLD FROM 4.94 TO 4.93. - FAF FEZFY MOVED FOR NEW VGSI TCH.
11. PROFILE LINE 5: ADDED DIST TO THLD FROM 250 HAT: 0.65; REMOVED "DISTANCE TO THLD FROM 250 HAT: 0.67" FROM ADDITIONAL FLIGHT DATA. - NEW AIRNAV DATA INCORPORATED; UPDATED FORMS.
12. PROFILE LINE 7: ADDED 20:1 IS CLEAR. - NO 20:1 PENETRATIONS EXIST PER FPT.
13. REMOVED CHART NOTE: DME/DME RNP-0.3 NA; ADDED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH - GPS. - IAW 8260.19I 8-6-8 B(2).
14. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F) UPDATED TO -16C TO 54C. - FAHRENHEIT REMOVED IAW 8260.19I.
15. REMOVED CHART NOTE: FOR INOPERATIVE ALS, INCREASE CAT A/B VISIBLTY TO 7/8 SM. - NO ALS TO THIS RUNWAY.
16. UPDATED CHART FAS OBST: FROM 978 TREE TO 978 TREE (29-043575). - OBSTACLE NUMBER ADDED IAW 8260.19I 8-6-10C.
17. UPDATED ADDITIONAL FLIGHT DATA: FROM CHART VDP AT 0.98 NM TO RW20* TO CHART VDP AT 0.97 NM TO RW20; REMOVED *LNAV ONLY. - NOTES UPDATED IAW 8260.19I 8-6-10M.
18. ALTERNATE: NA WHEN LOCAL WEATHER NOT AVAILABLE ADDED. - ALTERNATE MINIMUMS PERMITTED; AIRPORT LINKED TO WMSCR.
19. FAS DATA: FPAF LATITUDE/LONGITUDE UPDATED FROM 384755.5730N/0921337.0555W TO 384803.8540N/0921332.9005W; LENGTH OFFSET UPDATED FROM 0768 TO 0496. - NEW AIRNAV DATA INCORPORATED.
20. FAS DATA: CRC REMAINDER UPDATED FROM B4321E35 TO 1971BA37. - FPAF LATITUDE/LONGITUDE AND LENGTH OFFSET UPDATED.

04/14/21: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/01/21.

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

10/04/2021: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 04/15/2021.

1. REMOVED "FO" FROM TERMINAL ROUTES MISSED APPROACH CA LEG.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZKC ARTCC, MIZZU APP CON, ARPT MGR, COU ATCT

FLIGHT CHECKED BY

PENDING

Digitally signed by

JON DENTON

OFFICE

DATE

Oct 04, 2021

DEVELOPED BY

JON DENTON (BARBARA GORMAN)

Digitally signed by

JON DENTON

OFFICE

AJV-A432

DATE

03/01/2021

Oct 04, 2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

JON DENTON

OFFICE

AJV-A430

DATE

TITLE
MANAGER

Oct 04, 2021



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCOU
RUNWAY	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	384926.8715N
LTP/FTP LONGITUDE	0921251.2410W
LTP/FTP ELLIPSOIDAL HEIGHT	+02376
FPAP LATITUDE	384803.8540N
FPAP LONGITUDE	0921332.9005W
THRESHOLD CROSSING HEIGHT (TCH)	00045.1
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)	50.0
CRC REMAINDER	1971BA37

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02701
FPAP ORTHOMETRIC HEIGHT	+02701



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KCOU	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<u>AMDT NO.</u> 3	<u>CITY</u> COLUMBIA	<u>STATE</u> MO	<u>AIRPORT ELEVATION</u> 889	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
111/30 CW 292/30

TO
AGVOY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (29-002111)	391549.00N/0920807.00W		2043	500	50	5D	1000					3100
TERRAIN	390254.00N/0920545.00W		964 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LEFT BASE AREA

FROM
292/30 CW 021/30

TO
UZOTY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (29-001264)	384214.50N/0920521.80W		1799	500	125	5E	1000				AT301	3100
TERRAIN	382745.00N/0914906.00W		984 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



RIGHT BASE AREA

FROM
021/30 CW 111/30

TO
YEGSA

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (29-001464)	383815.73N/0922935.13W		2037	500	125	5E	1000					3100
TERRAIN	384018.00N/0924209.00W		935 (900)								AS1500	2400

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

INITIAL

FROM
UZOTY

TO
AGVOY

<u>RNP</u>	<u>DISTANCE</u> 9.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (29-002028)	385716.00N/0920540.00W		1207	50	20	2C	1000				AT893	3100
TERRAIN	385712.00N/0920430.00W		925 (900)								AS1500	2400

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



INITIAL

FROM
YEGSA

TO
AGVOY

RNP	DISTANCE 9.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (29-002002)	390052.17N/0921632.66W		1884	50	20	2C	1000				AT216	3100
TERRAIN	390418.00N/0921524.00W		928 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
AGVOY (IF/IAF)

TO
FEZFY

RNP	DISTANCE 6.37	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (29-002028)	385716.00N/0920540.00W		1207	50	20	2C	500				AT793	2500
TERRAIN	390042.00N/0920512.00W		915 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM
FEZFY

TO
RW20

<u>RNP</u>	<u>DISTANCE</u> 4.93	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 250			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (29-062384)	384933.37N/0921243.95W		926	20	3	1A		34:1				1139

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM
FEZFY

TO
RW20

<u>RNP</u>	<u>DISTANCE</u> 4.93	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 250			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				1139

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



FINAL: LNAV

FROM
FEZFY

TO
PUNTY/2.73 NM TO RW20

RNP	DISTANCE 2.20	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	385301.30N/0921116.76W		1090	50	20	2C	250				RA80 DG380	1800

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM
PUNTY/2.73 NM TO RW20

TO
RW20

<u>RNP</u>	<u>DISTANCE</u> 2.73	<u>PAT</u>	<u>MAP</u> RW20	<u>HAT</u> 351			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (29-043575)	384918.94N/0921208.41W		978	20	3	1A	250					1240

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM
AGVOY

TO
P-5

RNP	DISTANCE	PAT P-5	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (29-000454)	390821.00N/0920827.00W		1213	500	50	5D	1000				AT887	3100
TERRAIN	390254.00N/0920545.00W		964 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LPV

FROM
DA

TO
ULUFA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 951					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				3100
AAO	384410.59N/0921540.90W		1100	50	20	2C	1000					2100
TERRAIN	384621.00N/0921612.00W		898 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV/VNAV

FROM
DA

TO
ULUFA

RNP	DISTANCE	PAT	MAP	HAT			HMAS 978					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3100
AAO	384410.59N/0921540.90W		1100	50	20	2C	1000					2100
TERRAIN	384621.00N/0921612.00W		898 (900)								AS1500	2400

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM
RW20

TO
ULUFA

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1140					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3100
AAO	384410.59N/0921540.90W		1100	50	20	2C	1000					2100
TERRAIN	384621.00N/0921612.00W		898 (900)								AS1500	2400

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



<div>AIRPORT ID KCOU</div>	<div>PROCEDURE NAME RNAV (GPS) RWY 20</div>	<div>AMDT NO. 3</div>	<div>CITY COLUMBIA</div>	<div>STATE MO</div>	<div>AIRPORT ELEVATION 889</div>	<div>FACILITY RNAV</div>
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CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE (29-043575)	384918.94N/0921208.41W	1.30	391	978	20	3	1A	300			1280
CATEGORY B											
TOWER (29-062465)	384945.50N/0921504.14W	1.84	451	987	20	10	1B	300		HAA	1340
CATEGORY C											
WATER_TOWER (29-062343)	384735.71N/0921612.73W	2.89	471	1046	20	10	1B	300			1360
CATEGORY D											
AAO	385308.00N/0921246.00W	3.77	551	1090	50	20	2C	300		HAA	1440

CIRCLING REMARKS:

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

110 FT VEGETATION USED.

QUALITY
18
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZKC ARTCC, MIZZU APP CON, COU TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KCOU	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCOU	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KJEF	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KJEF	<u>DISTANCE</u> 13.681	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 80

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KCOU 889, KJEF 549
RA = 79.5.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW13 - MIRL (PCL), REIL, PAPI-4L		NPI-G	
RW31 - MIRL (PCL), REIL, PAPI-4L		NPI-G	
RW02 - MALSR (PCL), HIRL (PCL)		PIR-G	APPROACH
RW20 - HIRL (PCL), REIL, PAPI-4L (PCL)		PIR-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 886.2	<u>TCH</u> 45.1	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 45.1
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -16C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -16C	<u>APT ISA</u> +13.24C
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CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2012-2016).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 967 HIGH TEMP 1276.

"VISUAL PORTION OF FINAL" PENETRATIONS



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FOR CONTINGENCY PURPOSES:

-CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JEFFERSON CITY ALTIMETER SETTING: INCREASE DA TO 1219 FT AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDAS 80 FT AND VISIBILITY LNAV CAT C AND D 1/4 SM.

-CHART NOTE: BARO-VNAV NA WHEN USING JEFFERSON CITY ALTIMETER SETTING.

-CHART NOTE: VDP NA WITH JEFFERSON CITY ALTIMETER SETTING.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.04
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	201.46
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.73
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	201.46
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD
COORDINATES
(IF STR-IN)384926.87N/0921251.24W

ARP COORDINATES384903.85N/0921304.05W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 2 DISTANCE 0.80 NM

FAF
COORDINATES385402.21N/0921032.86W

FIX NAME
COORDINATES

IAF AGVOY: 385958.20N/0920733.47W, IAF YEGSA: 390215.75N/0921818.47W, IAF UZOTY: 385639.65N/0915649.47W

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED
TAA STRAIGHT-IN:
111/30 CW 292/30 TO AGVOY.
TAA LEFT BASE: 292/30 CW 021/30 TO UZOTY.
TAA RIGHT BASE: 021/30 CW 111/30 TO YEGSA.



PART E: PREPARED BY

<u>NAME</u> JON DENTON (BARBARA GORMAN)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 03/01/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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