

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> KMKC	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 19	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> KANSAS CITY	<u>STATE</u> MO		
<u>AIRPORT ELEVATION</u> 757	<u>TDZE</u> 754	<u>SUPERSEDED</u> RNAV (GPS) RWY 19	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 08/17/2017	<u>MAG VAR</u> 1E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 OCTOBER 2023	<u>REQUIRED EFFECTIVE DATE</u> 10/5/2023	<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>
BQS VOR/DME		DONNS		TF	FB	1.00	236.00	10.00	3000
DONNS	IAF	COVRI	NOPT	TF	FB	1.00	240.62	25.09	3000
COVRI	IF/IAF	ZODGA		TF	FB	1.00	191.73	7.10	2600
ZODGA	PFAF	RW19	MAP	TF	FO	0.30	191.71	5.65	
RW19	MAP	1300 MSL		CA			191.71		1300
1300 MSL		MIFEV		DF	FB	1.00			
MIFEV		YETUK		TF	FO	1.00	236.00	9.65	4000

MISSED APPROACH

MAP:

LPV: DA

LNAV/VNAV: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 4000 DIRECT MIFEV AND ON TRACK 236.00 TO YETUK AND HOLD.

*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 300 FEET PER NM TO 1500.

**MISSED APPROACH REQUIRES MINIMUM CLIMB OF 360 FEET PER NM TO 2400.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N COVRI, RT, 191.73 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 191.71FAF: ZODGADIST FAF TO MAP: 5.65DIST FAF TO THLD: 5.65

4. MIN ALT: COVRI 3000, ZODGA 2600

5. DIST TO THLD FROM FAF: 5.65MM:IM:150 HAT:250 HAT: 0.64GS ANT:

6. MIN GP INCPT: 2600GP ALT AT PFAF : ZODGA 2600OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 46.1

8. MSA FROM: RW19 3100

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 19 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV* ALL CATS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BQS VOR/DME ON V502 NORTHEAST BOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV VISIBILITY ALL CATS TO RVR 5500.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 296.19 INBOUND.
WAAS CHANNEL # 90320
REFERENCE PATH ID: W19A
LTP HAE: 197.4 M

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
LPV DA*	1004	4000	250	1004	4000	250	1004	4000	250	1004	4000	250			
LPV DA	1097	4000	343	1097	4000	343	1097	4000	343	1097	4000	343			
LNAV/VNAV DA**	1077	4000	323	1077	4000	323	1077	4000	323	1077	4000	323			
LNAV/VNAV DA	1468	1 3/4	714	1468	1 3/4	714	1468	1 3/4	714	1468	1 3/4	714			



CHANGES - REASONS

1. PROCEDURE NAME CHANGE FROM RNV (GPS) RWY 19 TO RNAV (GPS) Z RWY 19.
2. REMOVED LNAV AND CIRCLING LINES OF MINIMA - MOVED TO RNAV (GPS) Y RWY 19.
3. CHANGED FEEDER ROUTE BQS VOR/DME TO DONNS RNP VALUE FROM 2.00 TO 1.00
4. CHANGED INTERMEDIATE SEGMENT COVRI TO ZODGA COURSE FROM 191.71 TO 191.73 - ZODGA FIX LOCATION MOVED 2.01 FEET SOUTHWEST.
6. UPDATED MISSED APPROACH INSTRUCTIONS FROM CLIMBING RIGHT TURN TO 4000 DIRECT MIFEV AND ON TRACK 236.00 TO YETUK AND HOLD TO CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 4000 DIRECT MIFEV AND ON TRACK 236.00 TO YETUK AND HOLD. *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 360 FEET PER NM TO 2400. **MISSED APPROACH REQUIRES MINIMUM CLIMB OF 300 FEET PER NM TO 1500. - CA LEG ALTITUDE NEEDED IAW 8260.19I PARA 8-6-6.D.(2) MINIMUM CLIMB AND TERMINATION ALTITUDES ADDED TO ACHIEVE CORRESPONDING MINIMUMS.
7. ADDED PBN REQUIREMENTS NOTE RNP APCH - GPS - IAW 8260.19I PARA 8-6-8.B.(2)
8. CHANGED DISTANCE FAF TO MAP AND FAF TO THLD FROM 4.78 TO 5.65 REMOVED MINIMUM ALTITUDE ZEGAP/2.00 NM TO WALOR 1700* - UPDATED EVALUATION AFTER REMOVAL OF LNAV MINIMA.
9. ADDED DISTANCE TO THLD FROM FAF 5.65, CHANGED 403 HAT: 1.12 TO 250 HAT: 0.64 - UPDATED EVALUATION.
10. CHANGED TCH VALUE FROM 41.2 TO 41.1 - VGSI AND ILS TCH VALUE 46.147.
11. ADDED 20:1 IS CLEAR - ANNOTATED IAW 8260.19I PARA 8-6-7.G.(3)(A)
12. REMOVED CHART NOTE DME/DME RNP-0.3 NA - IAW 8260.19I PARA 1-1-5.F.(18)
13. CHANGED CHART NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6°C (22°F) OR ABOVE 54°C (130°F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19°C OR ABOVE 54°C - FORMAT AND VALUES UPDATED, DERIVED FROM 5-YEAR HISTORY (2018-2023).
14. DELETED NOTE CIRCLING CAT C/D NA TO RWY 3 - REMOVED CIRCLING MINIMA.
15. DELETED NOTE CIRCLING NA TO RWY 21 - REMOVED CIRCLING MINIMA.
16. REMOVED NOTE FOR INOPERATIVE ALS, INCREASE LNAV CAT A/B VISIBILITY TO RVR 6000 AND CAT C TO 1 3/4 SM. INOPERATIVE TABLE DOES NOT APPLY TO LNAV CAT D - LNAV REMOVED FROM PROCEDURE.
17. REMOVED VDP AND FAS OBST FROM ADDITIONAL FLIGHT DATA - REMOVED LNAV FROM PROCEDURE.
18. ALTERNATE MINIMUMS CHANGED FROM STANDARD - CAT D 900-3 TO STANDARD - NEW VIS CHECK.
19. CHANGED LPV ALL CATS DA/HAT/VIS FROM 1157/403/6000 TO 1097/343/4000 - NEW OBSTACLE EVALUATION.
20. CHANGED LNAV/VNAV ALL CATS DA/HAT/VIS FROM 1300/546/1 5/8 TO 1468/714/1 3/4 - NEW OBSTACLE EVALUATION.
21. ADDED NOTE FOR INOPERATIVE ALS, INCREASE LPV VISIBILITY ALL CATS TO RVR 5500.
22. ADDED NOTE INOPERATIVE TABLE DOES NOT APPLY TO LPV* ALL CATS.
23. REMOVED ASTERISKS AND CORRESPONDING *LNAV ONLY FROM ADDITIONAL FLIGHT DATA - REMOVED LNAV FROM PROCEDURE.
24. ADDED LINES OF MINIMA FOR LPV WITH CLIMB GRADIENT OF 300 FEET PER NM AND CLIMB GRADIENT TERMINATION ALTITUDE OF 1500 AND LNAV/VNAV WITH CLIMB GRADIENT OF 360 FEET PER NM AND CLIMB GRADIENT TERMINATION ALTITUDE OF 2400.
25. CRC REMAINDER CHANGED FROM 5A709CD0 TO F4403F20 - TCH AND FPAP LAT/LONG UPDATED.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZKC, MCI APP CON, MKC ATCT, AMGR

Digitally signed by

FLIGHT CHECKED BY DAVID TEFFETELLER

GREGORY MILLS

May 17, 2023

Digitally signed by

DAVID TEFFETELLER

May 17, 2023

Digitally signed by

DAVID TEFFETELLER

May 17, 2023

OFFICE

FPO

DATE

06/28/2023

OFFICE

AJV-A433

DATE

04/10/2023

OFFICE

AJV-A430

DATE

**TITLE
MANAGER**



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMKC
RUNWAY	RW19
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	390755.7930N
LTP/FTP LONGITUDE	0943525.0685W
LTP/FTP ELLIPSOIDAL HEIGHT	+01974
FPAP LATITUDE	390628.7880N
FPAP LONGITUDE	0943550.2095W
THRESHOLD CROSSING HEIGHT (TCH)	00046.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0760
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	F4403F20

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02299
FPAP ORTHOMETRIC HEIGHT	+02299

