

**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.

<b><u>AIRPORT ID</u></b> KGCK	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 12	<b><u>ORIGINAL/AMENDMENT</u></b> 1	<b><u>CITY</u></b> GARDEN CITY	<b><u>STATE</u></b> KS		
<b><u>AIRPORT ELEVATION</u></b> 2891	<b><u>TDZE</u></b> 2891	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 12	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG-A	<b><u>DATED</u></b> 12/05/2019	<b><u>MAG VAR</u></b> 5E	<b><u>EPOCH YEAR</u></b> 2025
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b> 3 NOVEMBER 2022	<b><u>REQUIRED EFFECTIVE DATE</u></b> 11/3/2022	<b><u>CANCEL/SUSPEND</u></b>		

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
GCK VORTAC		ERGE		TF	FO	1.00	311.49	11.75	4500
ADEER	IAF	ERGE	NOPT	TF	FB	1.00	052.35	10.02	4500
YANUK	IAF	ERGE	NOPT	TF	FB	1.00	189.61	5.01	4500
ERGE	IF/IAF	NOPYI		TF	FB	1.00	130.30	6.05	4500
NOPYI	FAF	JOKEK/2.14 NM TO RW12		TF	FB	0.30	130.38	2.76	
JOKEK/2.14 NM TO RW12		RW12	MAP	TF	FO	0.30	130.38	2.14	
RW12	MAP	3141 MSL		CA			130.38		
3141 MSL		ORECA		DF	FO	1.00			4600

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW12

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4600 DIRECT ORECA AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

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

2. HOLD NW RERGE, RT, 130.30 INBOUND, 4500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 130.38      FAF: NOPYI      DIST FAF TO MAP: 4.91      DIST FAF TO THLD: 4.91

4. MIN ALT:      RERGE 4500, NOPYI 4500, JOKEK/2.14 NM TO RW12 3620

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

6. MIN GP INCPT: 4500      GP ALT AT PFAF : NOPYI 4500      OM:      MM:      IM:

7. GP ANGLE: 3.00      34:1: IS CLEAR      20:1: IS CLEAR      TCH: 47.0

8. MSA FROM: RW12 5000

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -20°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 310.51 INBOUND.  
CHART FAS OBST: 3027 ELEVATOR (20-022584) 375727N/1004449W.  
CHART VDP AT 0.95 NM TO RW12.  
WAAS CHANNEL # 77803  
REFERENCE PATH ID: W12A  
CHART CIRCLING ICON.  
LTP HAE: 855.5 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	3141	1	250	3141	1	250	3141	1	250	3141	1	250			
LNAV/VNAV DA	3141	1	250	3141	1	250	3141	1	250	3141	1	250			
LNAV MDA	3240	1	349	3240	1	349	3240	1	349	3240	1	349			
CIRCLING	3320	1	429	3360	1	469	3480	1 1/2	589	3480	2	589			



**CHANGES - REASONS**

1. CHANGED MAG VAR FROM 9E TO 5E - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
2. CHANGED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH-GPS PER FAAO 8260.19H, PARA 8-6-8.B.(2).
3. CHANGED RNAV CHART NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -20°C OR ABOVE 43°C TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -20°C OR ABOVE 54°C - UTILIZED 5-YEAR ACT AND AHT TEMPERATURES FROM 2017 TO 2021, TARGETS CALCULATED.
4. CHANGED TERMINAL ROUTE FROM GCK VORTAC TO RERGE COURSE FROM 307.49 TO 311.49 AND CHANGED DISTANCE FROM 11.74 TO 11.75 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
5. CHANGED TERMINAL ROUTE FROM ADEER TO RERGE COURSE FROM 48.35 TO 52.35 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
6. CHANGED TERMINAL ROUTE FROM YANUK TO RERGE COURSE FROM 185.61 TO 189.61 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
7. CHANGED TERMINAL ROUTE FROM RERGE TO NOPYI COURSE FROM 126.31 TO 130.30 AND CHANGED DISTANCE FROM 6.12 TO 6.05 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025; TARGETS CALCULATED PFAF MOVED 416 FT NORTHWEST; AND NEW SURVEY DATA CHANGED FINAL ALIGNMENT.
8. CHANGED TERMINAL ROUTE FROM NOPYI TO JOKEK/2.20 NM TO NOPYI TO JOKEK/2.14 NM; CHANGED COURSE FROM 126.37 TO 130.38; AND CHANGED DISTANCE FROM 2.64 TO 2.76 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025; TARGETS CALCULATED PFAF MOVED 416 FT NORTHWEST AND SDF MOVED 350 FT SOUTHEAST; AND NEW SURVEY DATA CHANGED FINAL ALIGNMENT.
9. CHANGED TERMINAL ROUTE FROM JOKEK/2.20 NM TO RW12 TO JOKEK/2.14 NM TO RW12; CHANGED COURSE FROM 126.37 TO 130.38; AND CHANGED DISTANCE FROM 2.20 TO 2.14 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025; TARGETS CALCULATED SDF MOVED 350 FT SOUTHEAST; AND NEW SURVEY DATA CHANGED FINAL ALIGNMENT.
10. CHANGED TERMINAL ROUTE FROM RW12 TO 3141 MSL CHANGED COURSE FROM 126.37 TO 130.38 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025 AND NEW SURVEY DATA CHANGED FINAL AND EXTENDED FINAL ALIGNMENT.
11. CHANGED PROFILE LINE 2 FROM HOLD NW RERGE, RT, 126.31 INBOUND, 4500 FT. IN LIEU OF PT (IAF), MAX 6000 TO HOLD NW RERGE, RT, 130.30 INBOUND, 4500 FT IN LIEU OF PT (IAF), MAX 6000 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
12. CHANGED PROFILE LINE 3 FROM FAC 126.37 TO 130.38; CHANGED DIST FAF TO MAP/DIST FAF TO THLD FROM 4.84 TO 4.91 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025; TARGETS CALCULATED PFAF MOVED 416 FT NORTHWEST; AND NEW SURVEY DATA CHANGED FINAL ALIGNMENT.
13. CHANGED PROFILE LINE 4 FROM JOKEK/2.20 NM TO JOKEK/2.14 - TARGETS CALCULATED SDF MOVED 350 FT SOUTHEAST.
14. CHANGED ADDITIONAL FLIGHT DATA: "CHART \*VDP AT 1.07 NM TO RW12" TO "CHART VDP AT 0.95 NM TO RW12"; CHANGED ""\*3620" TO "3620"; REMOVED "\*\*LNAV ONLY" - MDA LOWERED 40 FT; AND PER FAAO 8260.19I, ASTERISK NO LONGER REQUIRED FOR VDP NOTE OR STEP DOWN FIX ALTITUDE.
15. REMOVED FROM ADDITIONAL FLIGHT DATA: CHART 2991 POLE 375819N/1004627W - NOT REQUIRED, THE HIGHEST OBSTACLE IN THE LNAV FINAL SEGMENT PRIOR TO THE SDF IS AAO 3120 300008N/1004744W.
16. CHANGED ADDITIONAL FLIGHT DATA: HOLD SE, RT, 306.52 INBOUND TO HOLD SE, RT, 310.51 INBOUND - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
17. CRC REMAINDER CHANGED FROM 34B1A19B TO 9BDBADF8 - FPAP LOCATION CHANGED.
18. LOWERED LNAV/VNAV DA/HAT FROM 3184/293 TO 3141/250 - NO OCS PENETRATIONS EXIST.
19. LOWERED LNAV MDA/HAT FROM 3280/389 TO 3240/349 - FINAL STEP-DOWN FIX CONTROLLING OBSTACLE SECONDARY AREA REDUCTION TAKEN.
20. CHANGED CHART FAS OBST FROM "3027 ELEVATOR 375727N/1004449W" TO "3027 ELEVATOR (20-022584) 375727N/1004449W" - ADDED OBSTACLE ID PER FAAO 8260.19I.
21. LOWERED LNAV CAT C VISIBILITY FROM 1 1/8 SM AND CAT D VISIBILITY FROM 1 1/4 SM TO CATS C/D VISIBILITY 1 SM - PER FAAO 8260.3E, TABLE 3-3-1.
22. ADDED 4500 TO PROFILE LINE 6 GP ALT AT PFAF - ADDED MISSING PFAF ALTITUDE.

**COORDINATED WITH:**A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: AMGR, GCK ATCT, ZKC, KS STATE AERO.**FLIGHT CHECKED BY**

PENDING

**OFFICE****DATE***Digitally signed by*  
**DONALD E SMITH**  
Aug 23, 2022**DEVELOPED BY**

WILLIAM HANBY

*Digitally signed by*  
**WILLIAM HANBY**  
Aug 05, 2022**OFFICE**

AJV-A412

**DATE**

07/07/2022

**APPROVED BY**

JULIE MORGAN

**OFFICE**

AJV-A410

**DATE****TITLE**  
MANAGER*Digitally signed by*  
**DONALD E SMITH**  
Aug 23, 2022

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGCK
RUNWAY	RW12
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	375551.2145N
LTP/FTP LONGITUDE	1004359.7940W
LTP/FTP ELLIPSOIDAL HEIGHT	+08555
FPAP LATITUDE	375447.6745N
FPAP LONGITUDE	1004240.7635W
THRESHOLD CROSSING HEIGHT (TCH)	00047.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1016
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	9BDBADF8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+08811
FPAP ORTHOMETRIC HEIGHT	+08811