

**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><br>KGCK        | <b><u>PROCEDURE NAME</u></b><br>RNAV (GPS) RWY 30 | <b><u>ORIGINAL/AMENDMENT</u></b><br>1                  | <b><u>CITY</u></b><br>GARDEN CITY                   | <b><u>STATE</u></b><br>KS         |                             |                                  |
| <b><u>AIRPORT ELEVATION</u></b><br>2891 | <b><u>TDZE</u></b><br>2885                        | <b><u>SUPERSEDED</u></b><br>RNAV (GPS) RWY 30          | <b><u>ORIGINAL/AMENDMENT</u></b><br>ORIG-B          | <b><u>DATED</u></b><br>10/08/2020 | <b><u>MAG VAR</u></b><br>5E | <b><u>EPOCH YEAR</u></b><br>2025 |
| <b><u>FACILITY</u></b><br>RNAV          | <b><u>COORDINATES OF FACILITIES</u></b>           | <b><u>ACTUAL EFFECTIVE DATE</u></b><br>3 NOVEMBER 2022 | <b><u>REQUIRED EFFECTIVE DATE</u></b><br>11/03/2022 | <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            |                        | ORECA                 |                        | TF                     | FO                  | 1.00              | 129.31               | 11.46                  | 4600                   |
| POKPE                 | IAF                    | ORECA                 | NOPT                   | TF                     | FB                  | 1.00              | 240.19               | 13.34                  | 4600                   |
| ZILCH                 | IAF                    | ORECA                 | NOPT                   | TF                     | FB                  | 1.00              | 023.52               | 5.50                   | 4600                   |
| ORECA                 | IF/IAF                 | LULYI                 |                        | TF                     | FB                  | 1.00              | 310.51               | 6.03                   | 4600                   |
| LULYI                 | FAF                    | RYKES/2.19 NM TO RW30 |                        | TF                     | FB                  | 0.30              | 310.48               | 3.08                   |                        |
| RYKES/2.19 NM TO RW30 |                        | RW30                  | MAP                    | TF                     | FO                  | 0.30              | 310.48               | 2.19                   |                        |
| RW30                  | MAP                    | 3135 MSL              |                        | CA                     |                     |                   | 310.48               |                        |                        |
| 3135 MSL              |                        | REGE                  |                        | DF                     | FO                  | 1.00              |                      |                        | 4500                   |

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW30

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4500 DIRECT RERGE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

QUALITY  
20  
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SE ORECA, RT, 310.51 INBOUND, 4600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 310.48FAF: LULYIDIST FAF TO MAP: 5.27DIST FAF TO THLD: 5.27

4. MIN ALT: ORECA 4600, LULYI 4600, RYKES/2.19 NM TO RW30 3620

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.67GS ANT:

6. MIN GP INCPT: 4600GP ALT AT PFAF : LULYI 4600OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 45.0

8. MSA FROM: RW30 5000

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.  
CHART SPEED ICON IN PLANVIEW AT ZILCH: MAX 230 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 130.30 INBOUND.  
CHART FAS OBST: 2939 NAVAID (20-022605) 375530N/1004306W.  
CHART 2987 TOWER 375328N/1004102W.  
CHART VDP AT 0.87 NM TO RW30.  
WAAS CHANNEL # 86703  
REFERENCE PATH ID: W30A  
CHART CIRCLING ICON.  
LTP HAE: 851.4 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       | 3135   | 1   | 250     | 3135   | 1   | 250     | 3135   | 1     | 250     | 3135   | 1   | 250     |        |     |         |
| LNAV/VNAV DA | 3137   | 1   | 252     | 3137   | 1   | 252     | 3137   | 1     | 252     | 3137   | 1   | 252     |        |     |         |
| LNAV MDA     | 3200   | 1   | 315     | 3200   | 1   | 315     | 3200   | 1     | 315     | 3200   | 1   | 315     |        |     |         |
| 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 ORECA COURSE FROM 125.32 TO 129.31 AND CHANGED DISTANCE FROM 11.74 TO 11.46 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025 AND NEW SURVEY DATA CHANGED ALIGNMENT.
5. CHANGED TERMINAL ROUTE FROM POKPE TO ORECA COURSE FROM 236.19 TO 240.19 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
6. CHANGED TERMINAL ROUTE FROM ZILCH TO ORECA COURSE FROM 019.52 TO 023.52 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
7. CHANGED TERMINAL ROUTE FROM ORECA TO LULYI COURSE FROM 306.52 TO 310.51 AND CHANGED DISTANCE FROM 6.11 TO 6.03 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025; TARGETS CALCULATED PFAF MOVED 478 FT SOUTHEAST; AND NEW SURVEY DATA CHANGED FINAL ALIGNMENT
8. CHANGED TERMINAL ROUTE FROM LULYI TO RW30 TO LULYI TO RYKES/2.19 NM; CHANGED COURSE FROM 306.47 TO 310.48; CHANGED DISTANCE FROM 5.19 TO 3.08 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025; TARGETS CALCULATED PFAF MOVED 478 FT SOUTHEAST; TARGETS CALCULATED SDF ADDED; AND NEW SURVEY DATA CHANGED FINAL ALIGNMENT.
9. ADDED TERMINAL ROUTE FROM RYKES/2.19 NM TO RW30, COURSE 310.48, DISTANCE 2.19 NM - TARGETS CALCULATED SDF ADDED.
10. CHANGED TERMINAL ROUTE FROM RW30 TO 3135 MSL COURSE FROM 306.47 TO 310.48 - 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 SE, RT, 306.52 INBOUND" TO "HOLD SE, RT, 310.51 INBOUND" - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025 AND NEW SURVEY DATA CHANGED INBOUND ALIGNMENT.
12. CHANGED PROFILE LINE 3 FROM FAC 306.47 TO 310.48; CHANGED DIST FAF TO MAP/DIST FAF TO THLD FROM 5.19 TO 5.27 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025; TARGETS CALCULATED PFAF MOVED 478 FT SOUTHEAST; AND NEW SURVEY DATA CHANGED FINAL ALIGNMENT.
13. ADDED TO PROFILE LINE 4 "RYKES/2.19 NM 3620" - ADDED TARGETS CALCULATED SDF TO MITIGATE NEW FINAL CONTROLLING OBSTACLE 3030 FT AAO.
14. CHANGED VDP PROFILE VIEW NOTE FROM "1.18 NM TO RW30" TO "0.87 NM TO RW30" - ASTERISK REMOVED, NO LONGER REQUIRED AND MDA LOWERED 100 FT.
15. CHANGED ADDITIONAL FLIGHT DATA FROM "CHART FAS OBST: 2987 TOWER 375328N/1004102W" TO "CHART: 2987 TOWER 375328N/1004102W" AND ADDED "CHART FAS OBST: 2939 NAVAID (20 -022605) 375530N/1004306W" - THE 2987 FT TOWER IS NOW THE 7:1 OBSTACLE, STEPPED OVER WITH THE NEW SDF, THE NEW FINAL APPROACH SEGMENT CONTROLLING OBSTACLE IS NOW THE 2939 FT NAVAID.
16. CHANGED ADDITIONAL FLIGHT DATA FROM HOLD NW, RT, 126.31 INBOUND TO HOLD NW, RT, 130.30 INBOUND - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025 AND NEW SURVEY DATA CHANGED INBOUND ALIGNMENT.
17. CRC REMAINDER CHANGED FROM 3BA737C8 TO 10C12BAA - FPAP LOCATION CHANGED.
18. LOWERED LNAV/VNAV DA/HAT FROM 3186/301 TO 3137/252 - FINAL OCS IS CLEAR (250 FT HAT) HOWEVER, MISSED APPROACH PENETRATION RAISED 250 FT HAT TO 252 FT HAT.
19. LOWERED LNAV MDA/HAT FROM 3300/415 TO 3200/315 - FINAL STEP-DOWN FIX ADDED TO LOWER MINIMA.
20. LOWERED LNAV CAT C/D VISIBILITY FROM 1 1/4 SM TO 1 SM - PER FAAO 8260.3E, TABLE 3-3-1.
21. ADDED CHART SPEED ICON IN PLANVIEW AT ZILCH: MAX 230 KIAS - CFPT REQUESTED, REQUIRED TO RETAIN INITIAL APPROACH SEGMENT LEG LENGTH.
22. REMOVED \*LNAV ONLY FROM ADDITIONAL FLIGHT DATA - PER FAAO 8260.19I, ASTERISK NO LONGER REQUIRED FOR VDP NOTE.
23. ADDED 4600 TO LINE 6 GP ALT AT PFAF: LULYI - ADDED MISSING ALTITUDE 4600.

**COORDINATED WITH:**

**A4A** ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAJ** ☐ **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 12, 2022

**OFFICE**

AJV-A412

**DATE**

06/16/2022

**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                                   | RW30          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          |               |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W30A          |
| LTP/FTP LATITUDE                         | 375511.0815N  |
| LTP/FTP LONGITUDE                        | 1004309.8705W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +08514        |
| FPAP LATITUDE                            | 375614.6160N  |
| FPAP LONGITUDE                           | 1004428.9145W |
| 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                            | 1016          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 50.0          |
| <br>                                     |               |
| CRC REMAINDER                            | 10C12BAA      |

ADDITIONAL PATH POINT RECORD INFORMATION

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K3     |
| LTP ORTHOMETRIC HEIGHT  | +08770 |
| FPAP ORTHOMETRIC HEIGHT | +08770 |