

**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</u><br>LONG BEACH /DAUGHERTY FIELD/ | <u>AIRPORT ID</u><br>KLGB        | <u>PROCEDURE NAME</u><br>RNAV (GPS) Z RWY 30     | <u>ORIGINAL/AMENDMENT</u><br>4            | <u>CITY</u><br>LONG BEACH  | <u>STATE</u><br>CA        |
| <u>AIRPORT ELEVATION</u><br>60                 | <u>TDZE</u><br>38                | <u>SUPERSEDED</u><br>RNAV (GPS) Z RWY 30         | <u>ORIGINAL/AMENDMENT</u><br>3A           | <u>DATED</u><br>09/13/2018 | <u>MAG VAR</u><br>14E     |
| <u>FACILITY</u><br>RNAV                        | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u><br>28 FEBRUARY 2019 | <u>REQUIRED EFFECTIVE DATE</u><br>ROUTINE | <u>CANCEL/SUSPEND</u>      | <u>EPOCH YEAR</u><br>1980 |

**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> |
|-------------|-----------------|-----------|-----------------|-----------------|--------------|------------|---------------|-----------------|-----------------|
| EZKEL       | IAF             | LUCIG     |                 | TF              | FB           | 1.00       | 017.87        | 4.87            | 3000            |
| MIDS        | IAF             | LUCIG     |                 | TF              | FB           | 1.00       | 274.85        | 4.21            | 3000            |
| DRTTY       | IAF             | LUCIG     |                 | TF              | FB           | 1.00       | 301.02        | 6.93            | 3000            |
| LUCIG       | IF              | GUNEY     |                 | TF              | FB           | 1.00       | 300.80        | 4.94            | 1600            |
| GUNEY       | FAF             | RW30      | MAP             | TF              | FO           | 0.30       | 300.76        | 4.74            |                 |
| RW30        | MAP             | 800 MSL   |                 | CA              |              |            | 300.76        |                 | 800             |
| 800 MSL     |                 | PADDR     |                 | DF              | FO           | 1.00       |               |                 | 3000            |

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW30

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 800 THEN CLIMBING LEFT TURN TO 3000 DIRECT PADDR AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. **PT**      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF (IAF)**
- 2. PROFILE STARTS AT LUCIG
- 3. **FAC:** 300.76      **FAF:** GUNEY                      **DIST FAF TO MAP:** 4.74                      **DIST FAF TO THLD:** 4.74
- 4. **MIN ALT:** LUCIG 3000, GUNEY 1600
- 5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **222 HAT:** 0.54                      **GS ANT:**
- 6. **MIN GP INCPT:** 1600                      **GP ALT AT FAF :** GUNEY 1600                      **OM:**                      **MM:**                      **IM:**
- 7. **GP ANGLE:** 3.00                      **34:1:** IS CLEAR                      **20:1:** IS CLEAR                      **TCH:** 58.4
- 8. **MSA FROM:** RW30 7700

**PBN REQUIREMENTS NOTE:**

RNP APCH.

**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 4°C OR ABOVE 54°C.  
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C AND D VISIBILITY TO 1 3/8SM.

**ADDITIONAL FLIGHT DATA:**

CHART MANDATORY 3000 AT DRTTY  
 CHART MANDATORY 4000 AT MIDDS.  
 CHART MANDATORY 4000 AT EZKEL  
 CHART CIRCLING ICON.  
 CHART VDP AT 2.24 NM TO RW30\*  
 \*LNAV ONLY  
 WAAS CHANNEL #99521  
 REFERENCE PATH ID: W30A  
 CHART FAS OBST: 255 STACK 334543N/1180542W.  
 HOLD SE, LT, 326.00 INBOUND  
 LTP HAE: -26.2 M

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD

| CATEGORY:    | A      |      |         | B      |      |         | C      |       |         | D      |       |         | E      |     |         |
|--------------|--------|------|---------|--------|------|---------|--------|-------|---------|--------|-------|---------|--------|-----|---------|
|              | 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       | 261    | 1800 | 223     | 261    | 1800 | 223     | 261    | 1800  | 223     | 261    | 1800  | 223     |        |     |         |
| LNAV/VNAV DA | 568    | 5500 | 530     | 568    | 5500 | 530     | 568    | 5500  | 530     | 568    | 5500  | 530     |        |     |         |
| LNAV MDA     | 520    | 2400 | 482     | 520    | 2400 | 482     | 520    | 5000  | 482     | 520    | 5000  | 482     |        |     |         |
| CIRCLING     | 840    | 1    | 780     | 840    | 1    | 780     | 840    | 1 3/8 | 780     | 840    | 1 3/8 | 780     |        |     |         |



**CHANGES - REASONS**

1. CHANGED INITIAL FROM ALBAS TO EZKEL-PER FPT.
2. LNAV/VNAV DA/HATCHANGED FROM 664/626 TO 568/530-NEW MA OBSTACLE.
3. LNAV MDA/HAT CHANGED FROM 820/782 TO 520/482-NEW MA OBSTACLE.
4. CIRCLING CAT A,B,C AND D MDA/HAA CHANGED FROM 880/820 TO 840/780-NEW OBSTACLE.
5. INCREASED VEGETATION FROM 80FT TO 100FT-PER FPT.
6. CHANGED CHART MANDATORY 4000 AT ALBAS TO MANDATORY 4000 AT ZEKEL-PER FPT.

12/11/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/13/2018.

1. CHANGED DISTANCE OF EZKEL TO LUCIG FROM 6.86 TO 4.87.

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: LA ARTCC, SOCAL TRACON, KLGB ATCT

**FLIGHT CHECKED BY**

THOMAS EDWARD MOLOKIE

*Digitally signed by*

**ROBERT G HAMILTON**

Dec 11, 2018

**OFFICE**

FIOG

**DATE**

12/09/2018

**DEVELOPED BY**

LONNIE EVERHART (BRANDON MAULDIN)

*Digitally signed by*

**ROBERT G HAMILTON**

Dec 11, 2018

**OFFICE**

AJV-5400

**DATE**

08/13/2018

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*

**ROBERT G HAMILTON**

Dec 11, 2018

**OFFICE**

AJV-5400

**DATE**

**TITLE**  
MANAGER



**FAS DATA BLOCK INFORMATION**

| <u>DATA FIELD</u>                        | <u>DATA</u>   |
|--|---------------|
| OPERATION TYPE                           | 0             |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0             |
| AIRPORT IDENTIFIER                       | KLGB          |
| RUNWAY                                   | RW30          |
| APPROACH PERFORMANCE DESIGNATOR          | 0             |
| ROUTE INDICATOR                          | Z             |
| REFERENCE PATH DATA SELECTOR             | 0             |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W30A          |
| LTP/FTP LATITUDE                         | 334838.6435N  |
| LTP/FTP LONGITUDE                        | 1180834.1570W |
| LTP/FTP ELLIPSOIDAL HEIGHT               | -00262        |
| FPAP LATITUDE                            | 334941.4385N  |
| FPAP LONGITUDE                           | 1180950.1425W |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00058.4       |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F             |
| GLIDEPATH ANGLE (GPA)                    | 03.00         |
| COURSE WIDTH AT THRESHOLD                | 143.75        |
| LENGTH OFFSET                            | 0312          |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0          |
| VERTICAL ALERT LIMIT (VAL)               | 35.0          |
| <br>                                     |               |
| CRC REMAINDER                            | 65C725FF      |

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K2     |
| LTP ORTHOMETRIC HEIGHT  | +00095 |
| FPAP ORTHOMETRIC HEIGHT | +00095 |

