

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (RNP) 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>AIRPORT ID</b><br>LAS         | <b>PROCEDURE NAME</b><br>RNAV (RNP) Z RWY 19L | <b>ORIGINAL/AMENDMENT</b><br>1                  | <b>CITY</b><br>LAS VEGAS                  | <b>STATE</b><br>NV        |
| <b>AIRPORT ELEVATION</b><br>2181 | <b>TDZE</b><br>2112                           | <b>SUPERSEDED</b><br>RNAV (RNP) Z RWY 19L       | <b>DATED</b><br>02/25/2021                | <b>MAG VAR</b><br>11E     |
| <b>FACILITY</b><br>RNAV          | <b>COORDINATES OF FACILITIES</b>              | <b>ACTUAL EFFECTIVE DATE</b><br>31 OCTOBER 2024 | <b>REQUIRED EFFECTIVE DATE</b><br>ROUTINE | <b>EPOCH YEAR</b><br>2020 |
|                                  |   |   | <b>CANCEL/SUSPEND</b>                     |                           |

**TERMINAL ROUTES**

| FROM  | FIX TYPE | TO      | FIX TYPE | LEG TYPE | FO/FB | RNP  | COURSE                       | DISTANCE | ALTITUDE |
|-------|----------|---------|----------|----------|-------|------|------------------------------|----------|----------|
| PPENN | IAF      | KIVEY   |          | TF       | FB    | 0.50 | 263.48                       | 2.28     | 5300     |
| KIVEY | IF       | MOBBB   |          | TF       | FB    | 0.50 | 262.51                       | 4.17     | 3900     |
| MOBBB |          | KOOPA   | PFAF     | TF       | FB    | 0.50 | 257.96                       | 1.55     | 3500     |
| KOOPA | PFAF     | * DLARG |          | TF       | FB    | 0.30 | 243.65                       | 1.24     |          |
| DLARG |          | * GIFTT |          | RF       | FB    | 0.30 | (1.30 NM RADIUS CCW (CFFKJ)) | 1.13     |          |
| GIFTT |          | * RW19L | MAP      | TF       | FB    | 0.30 | 193.93                       | 1.86     |          |
| RW19L | MAP      | ECKKR   |          | TF       | FB    | 0.30 | 193.92                       | 1.34     |          |
| ECKKR |          | DUPEC   |          | TF       | FB    | 0.50 | 193.92                       | 1.00     |          |
| DUPEC |          | PAREE   |          | TF       | FB    | 1.00 | 193.91                       | 5.03     |          |
| PAREE |          | MATLR   |          | TF       | FO    | 1.00 | 172.37                       | 8.78     | 7000     |

**MISSED APPROACH**

**MAP:**

RNP: DA

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 7000 ON THE RNAV MISSED APPROACH ROUTE TO MATLR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7000.  
\*\*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 208 FEET PER NM TO 4880.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. **PT**                      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF**                      (IAF)
- 2. PROFILE STARTS AT KIVEY
- 3. **FAC:** \*                      **PFAF:** KOOPA                      **DIST PFAF TO MAP:**                      **DIST PFAF TO THLD:**
- 4. **MIN ALT:** KIVEY 5300, MOBBB 3900, KOOPA 3500
- 5. **DIST TO THLD FROM PFAF:** 4.22                      **MM:**                      **IM:**                      **150 HAT:**                      **359 HAT:** 0.99                      **GS ANT:**
- 6. **MIN GP INCPT:** 3500                      **GP ALT AT PFAF:** KOOPA 3500, DLARG 3107, GIFTT 2748                      **OM:**                      **MM:**                      **IM:**
- 7. **GP ANGLE:** 3.00                      **34:1:** IS CLEAR                      **20:1:** IS CLEAR                      **TCH:** 75.3
- 8. **MSA FROM:** RW19L 13200

**PBN REQUIREMENTS NOTE:**

RNP AR APCH – GPS, RF, MIN RNP 0.50. AUTHORIZATION REQUIRED. MISSED APPROACH REQUIRES RNP <1.00.

**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 0°C OR ABOVE 54°C.  
 CHART PLANVIEW NOTE AT PPENN: (RNP 0.5).  
 CHART SPEED ICON IN PLANVIEW AT PPENN: MAX 190 KIAS.

**ADDITIONAL FLIGHT DATA:**

CHART MANDATORY 6000 AT PPENN

HOLD N, LT, 172.13 INBOUND.

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD

| <b>CATEGORY:</b>       | <b>A</b>      |            |                | <b>B</b>      |            |                | <b>C</b>      |            |                | <b>D</b>      |            |                | <b>E</b>      |            |                |
|------------------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|---------------|------------|----------------|
| <b>FINAL TYPE</b>      | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> | <b>DA/MDA</b> | <b>VIS</b> | <b>HAT/HAA</b> |
| AUTHORIZATION REQUIRED |               |            |                |               |            |                |               |            |                |               |            |                |               |            |                |
| RNP 0.10 DA**          | 2471          | 1          | 359            | 2471          | 1          | 359            | 2471          | 1          | 359            | 2471          | 1          | 359            |               |            |                |
| RNP 0.30 DA            | 2559          | 1 3/8      | 447            | 2559          | 1 3/8      | 447            | 2559          | 1 3/8      | 447            | 2559          | 1 3/8      | 447            |               |            |                |



**CHANGES - REASONS**

1. AIRPORT ID CHANGED FROM KLAS TO LAS – IAW 8260.19J, PARA 8-6-2
2. TERMINAL ROUTES – ADDED LEG FROM ECKKR TO DUPEC – ATC REQUESTED REDESIGN
3. TERMINAL ROUTES – ADDED LEG FROM DUPEC TO PAREE – ATC REQUESTED REDESIGN
4. MISSED APPROACH INSTRUCTIONS – CHANGED MISSED CLIMB GRADIENT FROM “\*\*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 225 FEET PER NM TO 5000” TO “\*\*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 208 FEET PER NM TO 4880” – UPDATED TARGETS EVALUATION
5. PROFILE LINE 5 – HAT CHANGED FROM 358 HAT: 0.99 TO 359 HAT: 0.99 - NEW CONTROLLING OBSTACLE
6. PROFILE LINE 8 – MSA CHANGED FROM RW19L 12900 TO RW19L 13200 – UPDATED TARGETS EVALUATION
7. PBN REQUIREMENTS NOTE – REMOVED RNP AR APCH & RF REQUIRED AND REPLACED WITH RNP AR APCH – GPS, RF, MIN RNP 0.50. AUTHORIZATION REQUIRED. MISSED APPROACH REQUIRES RNP <1.00. – IAW 8260.19I, PARA 8-6-8, B
8. NOTES – MOVED NOTE “MISSED APPROACH REQUIRES RNP LESS THAN 1.0” TO PBN REQUIREMENTS NOTE SECTION - IAW 8260.19J, PARA 8-6-8, B
9. NOTES – CHANGED SPEED RESTRICTION AT PPENN FROM MAX 210 KIAS TO 190 KIAS – ATC REQUESTED
10. MINIMUMS – REMOVED RNP 0.20 DA\* AND RNP 0.30\* LINES OF MINIMA – ATC REQUESTED
11. MINIMUMS – CHANGED RNP 0.10DA\* DA/HAT FROM 2470/358 TO 2471/359 – NEW MISSED SLOPE CONTROLLING OBSTACLES
12. MINIMUMS – CHANGED RNP 0.30DA DA/HAT FROM 2582/470 TO 2559/447 – NEW MISSED SLOPE CONTROLLING OBSTACLES
13. TERMINAL ROUTES - COURSE FROM MOB BB TO KOOPA CHANGED FROM 257.97 TO 257.96 - UPDATED TARGETS BUILD
14. TERMINAL ROUTES - DISTANCE FROM PAREE TO MATLR CHANGED FROM 7.98 TO 8.78 - ATC REQUESTED REDESIGN
15. PROFILE LINE 5 - CHANGED DIST TO THLD FROM OM TO DIST TO THLD FROM PFAF - IAW 8260.19, PARA 8-6-7 E.

**COORDINATED WITH:**

**A4A**   
 **ALPA**   
 **AOPA**   
 **APA**   
 **HAI**   
 **NBAA**   
 **OTHER:** ZLA, LAS APP CON, LAS ATCT, AMGR

**FLIGHT CHECKED BY**

GARY J VEER

*Digitally signed by*  
**JOSEPH L ZEDER**  
 Aug 28, 2024

**OFFICE**

FPO

**DATE**

08/21/2024

**DEVELOPED BY**

JOSEPH BLANCO

*Digitally signed by*  
**JOSEPH A BLANCO**  
 Jul 01, 2024

**OFFICE**

AJV-A432

**DATE**

04/24/2024

**APPROVED BY**

BEV L BORDY

*Digitally signed by*  
**JOSEPH L ZEDER**  
 Aug 28, 2024

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER

