

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> PINE RIDGE | <u>AIRPORT ID</u> KIEN | <u>PROCEDURE NAME</u> RNAV (GPS) RWY 12 | <u>ORIGINAL/AMENDMENT</u> ORIG | <u>CITY</u> PINE RIDGE | <u>STATE</u> SD |
| <u>AIRPORT ELEVATION</u> 3333 | <u>TDZE</u> 3319 | <u>SUPERSEDED</u> | <u>ORIGINAL/AMENDMENT</u> | <u>DATED</u> | <u>MAG VAR</u> 7E |
| <u>FACILITY</u> RNAV | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> 13 SEPTEMBER 2018 | <u>REQUIRED EFFECTIVE DATE</u> ROUTINE | <u>CANCEL SUSPEND</u> | <u>EPOCH YEAR</u> 2020 |

TAA

| <u>FROM</u> | <u>FIX TYPE</u> | <u>TO</u> | <u>FIX TYPE</u> | <u>ALTITUDE</u> |
|---------------------|------------------------|------------------|------------------------|------------------------|
| 1. 031/30 CW 211/30 | NOPT | ZUNON | IF/IAF | 6200 |
| 2. 211/30 CW 031/30 | | ZUNON | IF/IAF | 6200 |

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> |
|--------------------|------------------------|------------------|------------------------|------------------------|---------------------|-------------------|----------------------|------------------------|------------------------|
| ZUNON | IF/IAF | JUVSI | | TF | FB | 1.00 | 121.49 | 6.63 | 5000 |
| JUVSI | FAF | RW12 | MAP | TF | FO | 0.30 | 121.57 | 4.57 | |
| RW12 | MAP | 3589 MSL | | CA | | | 121.57 | | |
| 3589 MSL | | IROVE | | DF | FO | 1.00 | | | 5700 |

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW12

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5700 DIRECT IROVE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD NW ZUNON, RT, 121.49 INBOUND, 6200 FT. IN LIEU OF PT (IAF), MAX 8000.

3. FAC: 121.57

FAF: JUVSI

DIST FAF TO MAP: 4.57

DIST FAF TO THLD: 4.57

4. MIN ALT: ZUNON 6200, JUVSI 5000

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

270 HAT: 0.67

GS ANT:

6. MIN GP INCPT: 5000

GP ALT AT FAF : JUVSI 5000

OM:

MM:

IM:

7. GP ANGLE: 3.41

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 45.0

8. MSA FROM:

PBN REQUIREMENTS NOTES:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -28C OR ABOVE 54C.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.36 NM TO RW12*
*LNAV ONLY
WAAS CHANNEL #97542
REFERENCE PATH ID: W12A
FAS OBST: 3580 AAO 430324N/1023526W.
HOLD SE, RT, 301.78 INBOUND
LTP HAE: 987.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 900-2 1/2

| 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 | 3589 | 1 | 270 | 3589 | 1 | 270 | 3589 | 1 | 270 | | NA | | | | |
| LNAV/VNAV DA | 3772 | 1 3/8 | 453 | 3772 | 1 3/8 | 453 | 3772 | 1 3/8 | 453 | | NA | | | | |
| LNAV MDA | 3840 | 1 | 521 | 3840 | 1 | 521 | 3840 | 1 1/2 | 521 | | NA | | | | |
| CIRCLING | 3900 | 1 | 567 | 4080 | 1 | 747 | 4200 | 2 1/2 | 867 | | NA | | | | |

CHANGES - REASONS

1. ORIGINAL PROCEDURE - FPT IDENTIFIED AIRPORT HAS A NEW RUNWAY AND THE MAG VAR REQUIRES UPDATING.

PDF EDITED:
1. ADDED THRESHOLD COORDINATES (IF STRAIGHT-IN) 430132.00N/1023050.06W TO AIRSPACE.
2. ADDED PAT 1 TO MISSED APPROACH: LPV, LNAV/VNAV AND LNAV.



| | | | | | |
|---|---------------------------|--|-----------------------------------|---------------------------|---------------------------|
| <u>AIRPORT</u> PINE RIDGE | <u>AIRPORT ID</u> KIEN | <u>PROCEDURE NAME</u> RNAV (GPS) RWY 12 | <u>ORIGINAL/AMENDMENT</u> ORIG | <u>CITY</u> PINE RIDGE | <u>STATE</u> SD |
| <u>COORDINATED WITH:</u> | | | | | |
| A4A <input checked="" type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> OTHER: ZDV, CENTRAL FPO, AMGR | | | | | |
| <u>FLIGHT CHECKED BY</u> BRANDON VANDERSCHAAF | | <i>Digitally signed by</i> DAVID TEFFETELLER Aug 06, 2018 | | <u>OFFICE</u> FICO | <u>DATE</u> 7/31/18 |
| <u>DEVELOPED BY</u> DIANE S LAIR | | <i>Digitally signed by</i> DIANE S LAIR Jun 11, 2018 | | <u>OFFICE</u> AJV-5433 | <u>DATE</u> 05/09/2018 |
| <u>APPROVED BY</u> PATRICK MULQUEEN | | <i>Digitally signed by</i> DAVID TEFFETELLER Aug 06, 2018 | | <u>OFFICE</u> AJV-5430 | <u>TITLE</u> MANAGER |



FAS DATA BLOCK INFORMATION

| DATA FIELD | DATA |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KIEN |
| RUNWAY | RW12 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W12A |
| LTP/FTP LATITUDE | 430132.0015N |
| LTP/FTP LONGITUDE | 1023050.0625W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +09876 |
| FPAP LATITUDE | 430036.3535N |
| FPAP LONGITUDE | 1022915.1940W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00045.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.41 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1232 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| CRC REMAINDER | 83D694AF |
| | |
| ADDITIONAL PATH POINT RECORD INFORMATION | |
| ICAO CODE | K3 |
| LTP ORTHOMETRIC HEIGHT | +10057 |
| FPAP ORTHOMETRIC HEIGHT | +10057 |

