

**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> DENISON MUNI | <u>AIRPORT ID</u> KDNS | <u>PROCEDURE NAME</u> RNAV (GPS) RWY 30 | <u>ORIGINAL/AMENDMENT</u> 1B | <u>CITY</u> DENISON | <u>STATE</u> IA |
| <u>AIRPORT ELEVATION</u> 1274 | <u>TDZE</u> 1266 | <u>SUPERSEDED</u> RNAV (GPS) RWY 30 | <u>ORIGINAL/AMENDMENT</u> 1A | <u>DATED</u> 05/24/2018 | <u>MAG VAR</u> 4E |
| <u>FACILITY</u> RNAV | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> 30 JANUARY 2020 | <u>REQUIRED EFFECTIVE DATE</u> ROUTINE | <u>CANCEL/SUSPEND</u> | <u>EPOCH YEAR</u> 2000 |

TAA

| FROM | FIX TYPE | TO | FIX TYPE | ALTITUDE |
|---------------------|----------|-------|----------|----------|
| 1. 210/30 CW 030/30 | NOPT | OTLAZ | IF/IAF | 3900 |
| 2. 030/30 CW 120/30 | | UKUPY | IAF | 3900 |
| 3. 120/30 CW 210/30 | | NIMFI | IAF | 3900 |

TERMINAL ROUTES

| FROM | FIX TYPE | TO | FIX TYPE | LEG TYPE | FO/FB | RNP | COURSE | DISTANCE | ALTITUDE |
|-----------------------|----------|-----------------------|----------|----------|-------|------|--------|----------|----------|
| NIMFI | IAF | OTLAZ | NOPT | TF | FB | 1.00 | 210.48 | 5.00 | 3900 |
| UKUPY | IAF | OTLAZ | NOPT | TF | FB | 1.00 | 030.40 | 5.00 | 3900 |
| OTLAZ | IF/IAF | LALJE | | TF | FB | 1.00 | 300.43 | 6.03 | 3000 |
| LALJE | FAF | WERAV/2.70 NM TO RW30 | | TF | FB | 0.30 | 300.36 | 2.57 | |
| WERAV/2.70 NM TO RW30 | | RW30 | MAP | TF | FO | 0.30 | 300.36 | 2.70 | |
| RW30 | MAP | 1551 MSL | | CA | | | 300.36 | | |
| 1551 MSL | | GECNU | | DF | FO | 1.00 | | | 3300 |

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW30

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3300 DIRECT GECNU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- 2. HOLD SE OTLAZ, RT, 300.43 INBOUND, 3900 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 300.36 **FAF:** LALJE **DIST FAF TO MAP:** 5.27 **DIST FAF TO THLD:** 5.27
- 4. **MIN ALT:** OTLAZ 3900, LALJE 3000, WERAV/2.70 NM TO RW30 2140*
- 5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **285 HAT:** 0.79 **GS ANT:**
- 6. **MIN GP INCPT:** 3000 **GP ALT AT FAF :** LALJE 3000 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 40.0
- 8. **MSA FROM:**

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 18 AND 36.
 CHART NOTE: RWY 30 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: BARO-VNAV NA WHEN USING CARROLL ALTIMETER SETTING.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CARROLL ALTIMETER SETTING: INCREASE LPV DA TO 1623 FEET, LNAV/VNAV DA TO 1925 FEET, INCREASE ALL MDAS 80 FEET AND VISIBILITY CIRCLING CAT C 1/4 SM.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW - 17C OR ABOVE 54C.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.59 NM TO RW30*
 *LNAV ONLY
 WAAS CHANNEL #45908
 REFERENCE PATH ID: W30A
 CHART FAS OBST: 1539 TREE 415749N/0952138W.
 CHART 1352 TREE 415845N/0952143W.
 HOLD NW, RT, 120.14 INBOUND
 LTP HAE: 354.2 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 | 1551 | 1 | 285 | 1551 | 1 | 285 | 1551 | 1 | 285 | | NA | | | | | |
| LNAV/VNAV DA | 1853 | 2 | 587 | 1853 | 2 | 587 | 1853 | 2 | 587 | | NA | | | | | |
| LNAV MDA | 1800 | 1 | 534 | 1800 | 1 | 534 | 1800 | 1 1/2 | 534 | | NA | | | | | |
| CIRCLING | 1840 | 1 | 566 | 1880 | 1 | 606 | 1880 | 1 3/4 | 606 | | NA | | | | | |



CHANGES - REASONS

1. ADDED CA LEG TO TERMINAL ROUTES - IAW 8260.58A PARA 3-5-2.
2. ADDED TO LINE 7: 20:1 IS CLEAR - IAW 8260.19H PARA 8-6-7 G(3).
3. ADDED RNP APCH TO PBN REQUIREMENTS NOTE - IAW 8260.19H PARA 8-6-8 B(1).
4. REMOVED CHART NOTE: DME/DME RNP-0.3 NA - IAW 8260.19H PARA 8-6-8 B(1).
5. CHANGED CHART NOTE VGSI AND RNAV GLIDEPATH NOT COINCIDENT TO VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW 8260.19H PARA 8-6-9 M(1).
6. CHANGED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C (2°F) OR ABOVE 54°C (130°F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C - IAW 8260.19H PARA 8-6-9 S.
7. DELETED "CHART ARPT ELEV: 1274" AND "CHART TDZE: 1266" FROM ADDITIONAL FLIGHT DATA - NEW FORMS POPULATE WITH THIS DATA.
8. CHANGED CHART NOTE FROM "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 30 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - IAW 8260.19H 8-6-11 K(3)/NO 20:1 PENETRATIONS/ONLY 34:1.
9. ADDED CHART NOTE CIRCLING NA TO RWYS 18 AND 36 - INCORPORATE NOTAM FDC 9/6975.
10. LINE 2 ADDED MAX 6000 - REVISED CRITERIA.
11. ADDED STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE TO ALTERNATE - IAW 8260.19H PARA 8-6-11 B(4)/DNS ALTIMETER NOW ON WMSCR.
12. LOWERED CIRCLING CAT A MDA/HAA FROM 1880/606 TO 1840/566 - PER .19H PARA 8-4-4(17) AMDT 1A MDA/HAA INCREASE TEMPORARY CONDITION.
13. CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CARROLL ALTIMETER SETTING AND INCREASE ALL DA 72 FEET AND ALL MDAS 80 FEET. INCREASE LPV VISIBILITY 1/4 MILE ALL CATS, LNAV/VNAV VISIBILITY 1/2 MILE ALL CATS, LNAV CAT C 1/4 MILE, AND CIRCLING CAT C 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CARROLL ALTIMETER SETTING: INCREASE LPV DA TO 1623 FEET, LNAV/VNAV DA TO 1925 FEET, INCREASE ALL MDAS 80 FEET AND VISIBILITY CIRCLING CAT C 1/4 SM" - REVISED CRITERIA.
14. AMDT 1A RAISED CIRCLING CAT A MDA/HAA FROM 1840/566 TO 1880/606. AMDT 1B LOWERED IT TO 1840/566 - REVISED OBSTACLE.
15. ADDED VDP AT 1.59 NM TO RWY30* *LNAV ONLY AND DELETED *LNAV ONLY FROM NOTES SECTION - NO 20:1 PENETRATIONS.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZMP, AMGR

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE *Digitally signed by* **DATE**
WARDELL HENNING

DEVELOPED BY

WARDELL HENNING (KENO HARTSHORN)

Digitally signed by
WARDELL HENNING Nov 15, 2019
OFFICE Nov 15, 2019
AJV-A432 **DATE**
09/03/2019

APPROVED BY

LONNIE EVERHART

Digitally signed by
WARDELL HENNING
Nov 15, 2019

OFFICE **DATE**
AJV-A430

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KDNS |
| RUNWAY | RW30 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W30A |
| LTP/FTP LATITUDE | 415854.7865N |
| LTP/FTP LONGITUDE | 0952218.9165W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +03542 |
| FPAP LATITUDE | 415945.0000N |
| FPAP LONGITUDE | 0952357.6400W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00040.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1224 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| | |
| CRC REMAINDER | 675992D2 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K3 |
| LTP ORTHOMETRIC HEIGHT | +03834 |
| FPAP ORTHOMETRIC HEIGHT | +03834 |

