| Flight Procedure Tracking Form | Action: FLIGHT CHECK | Task Type: IAP | Date Open: 08/24/2012 | Task #: 2012082423850201001 | Request #: 20120824238502 |
|---|---|---|---|---|---|
| Procedure: RNAV (GPS)-F AMDT 0-A | | Airport ID: KASE | Airport: ASPEN-PITKIN CO/SARDY FIELD | | Reimbursable #: |
| City: ASPEN | ST: CO | GPS #: | | Estimated Chart Date: 03/07/2013 | FICO #: |
| Fac ID: | Fac. Type: LNAV | | Specialist: RALPH DUMAR | | |

## Procedure Review

P3

| | Rec'd | Rel'd | Full Name | Comments |
|---|---|---|---|---|
| Lead: | 08/25/2012 | 09/25/2012 | CASIMIR TABAKA | |
| QA: | 09/25/2012 | 09/25/2012 | CASIMIR TABAKA | |
| Liaison: | 09/25/2012 | | Spurlin | REQUEST POSSIBLE TABLE TOP REVIEW |

**Procedure Comments:** ENROUTE **Remark Type:** INFORMATION

pkg 1 of 1

ASPEN CO, ASPEN-PITKIN CO/SARDY FIELD (KASE) RNAV (GPS)-F, ORIG-A ENROUTE-YES FC: 1.8.13 PUB 3.7.13

ATTACHED FORMS: 8260-3; 8260-10, 8260-9; 8260-2(S): GLENO-INT, REV 16; RED TABLE (DBL) VDME, REV 12.
FLCK NOTE: CORRECTS ARINC CODING FOR MISSED HOLDING AND HOLD IN LIEU OF PT INBOUND COURSES.

CONTACT: ADOLFO URRUTIA/LONNIE EVERHART-AVN-130 LEADS, 405.954.2079/ 405.954.4576.

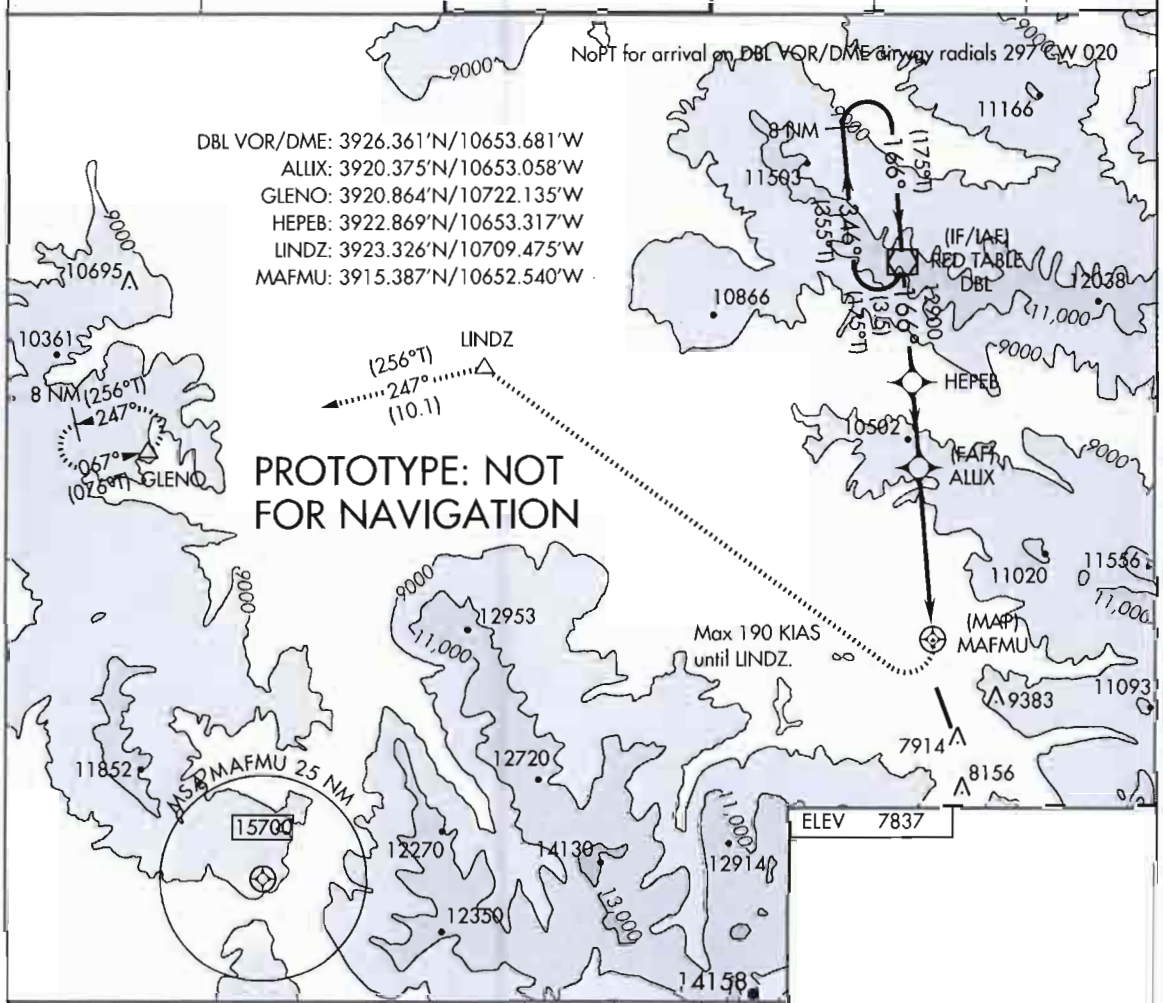
| APP CRS | Rwy ldg | N/A |
|---|---|---|
| 166° | THRE | N/A |
| | Apt Elev | 7837 |

# RNAV (GPS)-F
## ASPEN-PITKIN COUNTY/SARDY FIELD (ASE)

When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA. Procedure NA at night.
Visibility reduction by helicopters NA.

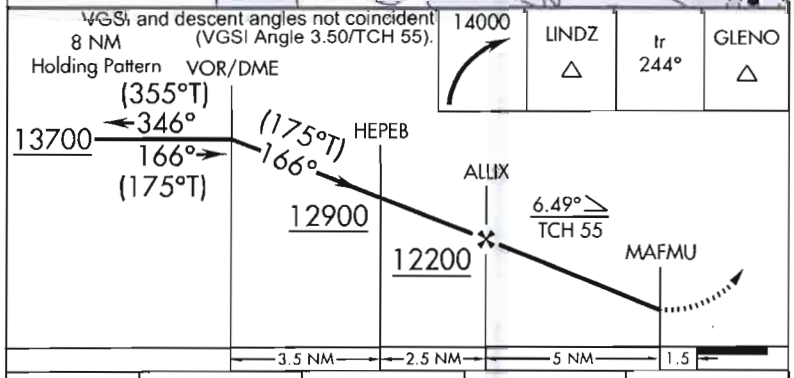
MISSED APPROACH: Climbing right turn to 14000 direct LINDZ and on track 247° to GLENO and hold.

| ATIS | ASPEN APP CON* | ASPEN TOWER* | GND CON | CLNC DEL | UNICOM |
|---|---|---|---|---|---|
| 120.4 | 123.8 288.3 | 118.85 (CTAF) L 288.3 | 121.9 | 123.75 | 122.95 |




VGSI and descent angles not coincident (VGSI Angle 3.50/TCH 55).

| 14000 | LINDZ | tr 244° | GLENO |
|---|---|---|---|




| CATEGORY | A | B | C | D |
|---|---|---|---|---|
| CIRCLING | 10200-1¾ | 2363 (2400-1¾) | 10220-3 2383 (2400-3) | NA |

REIL Rwy 33 L
MIRL Rwy 15-33

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

# RNAV - STANDARD
# INSTRUMENT APPROACH PROCEDURE
# TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

## TERMINAL ROUTES

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|---|---|---|---|
| DBL VOR/DME (IF/IAF) | HEPEB (FB) | 166.38 / 3.50 | 12900 |
| HEPEB | ALLIX (FB) | 166.38 / 2.50 | 12200 |
| ALLIX (FAF) | MAFMU (MAP) (FO) | 166.39 / 5.00 | |
| MAFMU (MAP) | 8237 MSL | 166.39 | |
| 8237 MSL | LINDZ (FB) | | |
| LINDZ | GLENO (FO) | 247.00 / 10.12 | 14000 |

## MISSED APPROACH

LNAV: MAFMU

CLIMBING RIGHT TURN TO 14000 DIRECT LINDZ AND ON TRACK 247.00 TO GLENO AND HOLD.

**ADDITIONAL FLIGHT DATA:**
HOLD SW, LT, 067.17 INBOUND.
FAS OBST: 9619 AAO 391931N/1065210W
10319 AAO 392032N/1065150W
ALLIX TO RW15: 6.49/55.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD N DBL VOR/DME, RT, 166.38 INBOUND, 13700 FT. IN LIEU OF PT (IAF)
3. FAC: 166.39 FAF: ALLIX DIST FAF TO MAP: 5.00 THLD:
4. MIN. ALT: DBL VOR/DME 13700, HEPEB 12900, ALLIX 12200
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT:
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR
8. MSA FROM: MAFMU 15700

MAG VAR: 9E EPOCH YEAR: 2015

## MINIMUMS

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

| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| CIRCLING | 10200 | 1 3/4 | 2363 | 10200 | 1 3/4 | 2363 | 10220 | 3 | 2383 | | NA | | | | |

NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, PROCEDURE NA.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON DBL VOR/DME AIRWAY RADIALS 297 CW 020.
(SEE FORM 8260-10)

@ CAT A, B 2400-2, CAT C 2400-3

QUALITY CHECKED 4

| CITY AND STATE | ELEVATION: 7837 THRE: AIRPORT NAME: | FACILITY IDENTIFIER: | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| ASPEN, CO | ASPEN-PITKIN CO/SARDY FIELD | RNAV | RNAV (GPS)-F, ORIG-A | AMDT: ORIG |
| | | | | DATED 09/20/2012 |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| [ ] YES [X] NO | | ROUTINE |

COORDINATED WITH:

| ATA | AAT | ALPA | APA | AOPA | NBAA | OTHER (specify) |
|---|---|---|---|---|---|---|
| X | | X | | X | X | X ZDV, ASE, AMGR |

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: SCOTT ANDREW THOMPSON | FIFO FIOG | DATE: 05/03/2012 |
| **DEVELOPED BY** | | |
| NAME: RALPH DUMAR | FIFO AJV-354 | DATE: 09/12/2012 |
| **APPROVED BY** | | |
| NAME: DEZ SILAGYI MANAGER | FIFO AJV-354 | DATE: |

CHANGES:

1. CORRECTED INBOUND HOLDING COURES IN ARINC CODING FOR THE HOLD-IN-LIEU OF PT AND MISSED HOLDING PATTERNS.
2. CHANGED PROFILE NOTE VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE 3.50/TCH 57) TO READ VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE 3.50/TCH 55).

REASONS:

1. COURSES IN ARINC CODING DID NOT MATCH COURSES ON -3 AND PROCEDURE PLATE DEPICTION.
2. PER AVNIS DATA.

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NOTES, (CONT.):
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
CHART PLANVIEW NOTE AT MAFMU: MAX 190 KIAS UNTIL LINDZ.

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 7837 THRE: | FACILITY IDENTIFIER: | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| ASPEN, CO | AIRPORT NAME: ASPEN-PITKIN CO/SARDY FIELD | RNAV | RNAV (GPS)-F, ORIG-A | AMDT: ORIG |
| | | | | DATED: 09/20/2012 |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| ☐ YES ☐ NO | | |

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: | FIFO | DATE: |
| **APPROVED BY** | | |
| NAME: | FIFO | DATE: |

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

```
ARINC PACKET - 424-18 - RNAV (GPS)

                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        DBL   K2011300VDHW N39262164W106534085    N39262164W106534085E0120118002     NARRED TABLE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ALLIX K20    C     N39202249W106530347                    E0096     NAR          ALLIX
        SUSAEAENRT   GLENO K20    C   B N39205184W107220809                    E0099     NAR          GLENO
        SUSAEAENRT   HEPEB K20    C     N39225214W106531903                    E0096     NAR          HEPEB
        SUSAEAENRT   LINDZ K20    C   L N39231955W107092850                    E0098     NAR          LINDZ
        SUSAEAENRT   MAFMU K20    C     N39152320W106523241                    E0096     NAR          MAFMU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KASEK2AASE     0     080YHN39131876W106520565E009007837         1800018000C    MNAR    ASPEN-PITKIN CO/SARDY FIELD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KASEK2FRNV-F ADBL   010DBL  K2D 0VE AR   HF                    16640080    + 13700     18000                 B JC
        SUSAP KASEK2FRNV-F R      010DBL  K2D 0V  I    IF                                + 13700     18000                 B JC
        SUSAP KASEK2FRNV-F R      011HEPEBK2EA0E S  051TF                    16640035    + 12900                           B JC
        SUSAP KASEK2FRNV-F R      020ALLIXK2EA0E  F 051TF                    16640025    + 12200                 MAFMU K2EAB JC
        SUSAP KASEK2FRNV-F R      030MAFMUK2EA0EY M 031TF                    16640050      10220              000          B JC
        SUSAP KASEK2FRNV-F R      040          0  M     CA                    1664        + 08237                           B JC
        SUSAP KASEK2FRNV-F R      050LINDZK2EA0E   R   DF                                                190              B-JC
        SUSAP KASEK2FRNV-F R      060GLENOK2EA0EY   010TF                    2470        + 14000                           B JC
        SUSAP KASEK2FRNV-F R      070GLENOK2EA0EE  L   HM                    06720080    + 14000                           B JC

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KASEK2SMAFMUK2EA                0   18018015725                                                                   M
```

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 7837 THRE: | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| **ASPEN, CO** | AIRPORT NAME: **ASPEN-PITKIN CO/SARDY FIELD** | **RNAV** | **RNAV (GPS)-F, ORIG-A** | AMDT: **ORIG** |
| | | | | DATED: **09/20/2012** |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| ☐ YES ☐ NO | | |

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: | NFPG | DATE: |
| **APPROVED BY** | | |
| NAME: | NFPG | DATE: |

CHANGES:

REASONS:

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**

# RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DBL | DBL | 010 | IAF | HF | R | FO | | 166.4(175.4T) | 008.0 | AA 13700 | |
| | | DBL | 010 | FACF | IF | | FB | | | | AA 13700 | |
| | | HEPEB | 011 | SDF | TF | | FB | 0.5 | 166.4(175.4T) | 003.5 | AA 12900 | |
| | | ALLIX | 020 | FAF | TF | | FB | 0.5 | 166.4(175.4T) | 002.5 | AA 12200 | |
| | | MAFMU | 030 | MAP | TF | | FO | 0.3 | 166.4(175.4T) | 005.0 | AT 10220 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 040 | | CA | | FB | | 166.4(175.4T) | | AA 08237 | |
| | LINDZ | 050 | | DF | R | FB | | | | | AB 190 |
| | GLENO | 060 | | TF | | FO | 1.0 | 247.0(256.0T) | | AA 14000 | |
| | GLENO | 070 | | HM | L | FO | | 067.2(076.2T) | 008.0 | AA 14000 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|---|---|---|---|---|---|
| | DBL | N392621.64 | W1065340.85 | N3926.361 | W10653.681 |
| | ALLIX | N392022.49 | W1065303.47 | N3920.375 | W10653.058 |
| | GLENO | N392051.84 | W1072208.09 | N3920.864 | W10722.135 |
| | HEPEB | N392252.14 | W1065319.03 | N3922.869 | W10653.317 |
| | LINDZ | N392319.55 | W1070928.50 | N3923.326 | W10709.475 |
| | MAFMU | N391523.20 | W1065232.41 | N3915.387 | W10652.540 |

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 7837 THRE: | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| ASPEN, CO | AIRPORT NAME: ASPEN-PITKIN CO/SARDY FIELD | RNAV | RNAV (GPS)-F, ORIG-A | AMDT: ORIG |
| | | | | DATED: 09/20/2012 |

| ALL AFFECTED PROCEDURES REVIEWED? | COORDINATES OF FACILITIES | REQUIRED EFFECTIVE DATE |
|---|---|---|
| ☐ YES ☐ NO | | |

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: | NFPG | DATE: |
| **APPROVED BY** | | |
| NAME: | NFPG | DATE: |

CHANGES:

REASONS:

# STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

| 1. APP SEGMENT | FROM | TO | OBSTRUCTION | COORDINATES | ELEV. MSL | ROC | ALT. ADJUSTMENTS | MIN. ALT. |
|---|---|---|---|---|---|---|---|---|
| INTERMEDIATE | DBL VOR/DME | HEPEB | 1. AAO | 392639.00N/1065412.00W | 11884 (3E) | 500 | AC115 PR320 | 12900 |
| | (IF/IAF) | | 2. TERRAIN | 392639.00N/1065412.00W | 11684 | | AS1000 | 12700 |
| | | | | | (11700) | | | |
| | | | | | | | | |
| INTERMEDIATE: | HEPEB | ALLIX | 3. AAO | 392400.00N/1065054.00W | 10991 (3E) | 500 | PR320 AC115 AT274 | 12200 |
| STEPDOWN | | | 4. TERRAIN | 392400.00N/1065054.00W | 10791 | | AS1000 | 11800 |
| | | | | | (10800) | | | |
| | | | | | | | | |
| FINAL: LNAV | ALLIX | MAFMU | 5. AAO | 391931.36N/1065210.42W | 9619 (2C) | 250 | PR250 DG81 | 10200 |
| 2. HOLD-IN-LIEU-OF-PT | DBL VOR/DME | P-11 | 6. AAO | 392512.60N/1064616.80W | 12238 (6C) | 1000 | PR375 | 13700 |
| | | | 7. TERRAIN | 392512.60N/1064616.80W | 12038 | | AS1500 | 13500 |
| | | | | | (12000) | | | |
| 3. MISSED APPROACH — MAP: | MAFMU | GLENO | | | | ASC | | 14000 |
| | | | 8. AAO | 391806.00N/1072224.00W | 10739 (4E) | 1000 | PR380 | 12200 |
| ELEV: | 9850 | | 9. TERRAIN | 391806.00N/1072224.00W | 10539 | | AS1500 | 12000 |
| 10. TREE | | | | 391132.72N/1065231.21W | 9219 (2C) | 300 | SI | 10200 |
| 11. TREE | | | | 391333.32N/1065010.91W | 9459 (2C) | 300 | SI | 10200 |
| 12. TREE | | | | 391106.57N/1065235.17W | 9659 (2C) | 300 | PR250 | 10220 |

| 4. CIRCLING AREA | DISTANCE | HT. ABV. ARPT. REQUIRED | HT. ABV. ARPT. ACTUAL |
|---|---|---|---|
| CATEGORY A | 1.3 NM | 350 | 2363 |
| CATEGORY B | 1.5 NM | 450 | 2363 |
| CATEGORY C | 1.7 NM | 450 | 2383 |
| CATEGORY D | 2.3 NM | 550 | |
| CATEGORY E | 4.5 NM | 550 | |

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: MAFMU

| SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A | SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M.S.A |
|---|---|---|---|---|---|---|---|---|---|
| 360-360 | AAO | 091/ 19.2 | 14640 (6C) | 15700 | | | | | |
| | | | | | | | | | |

| CITY AND STATE | ELEVATION: 7837 / AIRPORT NAME: | FACILITY | PROCEDURE AND AMENDMENT NO: | REGION |
|---|---|---|---|---|
| ASPEN, CO | ASPEN-PITKIN CO/SARDY FIELD | RNAV | RNAV (GPS)-F, ORIG-A | ANM |

## PART B - SUPPLEMENTAL DATA

| 1. COMMUNICATIONS WITH: | 2. WEATHER SERVICE | | | 3. ALTIMETER SETTING |
|---|---|---|---|---|
| ASE TOWER<br>ZDV ARTCC<br>ASE APP CON<br>DEN FSS | | N W S | OTHER:<br>ASOS | SOURCE: KASE |
| | | F A A | | DISTANCE: |
| SATISFACTORY ON: | | A / C | | HOURS REMOTE OPERATION: |
| X V H F X U H F H F | LOCATION: | | | ADJUSTMENT: 0 |

| | | |
|---|---|---|
| 4. MONITOR STATUS | PRIMARY NAVAID: | |
| | MONITOR POINT: | |
| | HRS OPTN: | CAT 1 |
| | | CAT 3 |

| 5. APPROACH & RUNWAY LIGHTING | |
|---|---|
| | ALS |
| | (S) SALS |
| X | MALSF 15 |
| | HIRL |
| X | MIRL 33, 15 |
| X | REIL 33 |
| | TDZ |
| | C/LINE |
| X | OTHER (SPECIFY)<br>PAPI-4L 15 |

| | | |
|---|---|---|
| 6. RUNWAY MARKINGS | BASIC | |
| | ALL WEATHER | |
| | INSTRUMENT | NPI-G 33, 15 |
| 7. RUNWAY VISUAL RANGE | APPROACH | |
| | MIDFIELD | |
| | ROLL OUT | |
| 8. GLIDE PATH | GP ANGLE: | ELEV RWY THRESHOLD: |
| | DISTANCE FROM RWY: | ELEV GP ANTENNA: |
| | | THRESHOLD CROSSING HEIGHT: |

| | | | |
|---|---|---|---|
| 9. FINAL APPROACH COURSE AIMING | X | RUNWAY THRESHOLD | FT. FROM THRESHOLD |
| | | ON CENTERLINE | FT. FROM CENTERLINE |

10. WAIVERS: NONE

| | |
|---|---|
| PART D - PREPARED BY: RALPH DUMAR | DATE: 09/12/2012 |
| TITLE: AERONAUTICAL INFORMATION SPECIALIST | OFFICE: AJV-354 |

## PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS 289 APPLIED TO 10319 AAO 392032N/1065150W

100' VEGETATION USED PER WST FPT.

PRECIPITOUS TERRAIN ADJUSTMENT ADDED TO CIRCLING FOR CATS B AND C FOR CONSISTENCY WITH LOC/DME-E PROCEDURE.

RWY 33 20:1 VISUAL SURFACE PENETRATIONS NOT LISTED, PROCEDURE IS NA AT NIGHT.

MISSED APPROACH USES 25 BANK ANGLE.

MAX SPEED MAFMU TO LINDZ - 190 KIAS.

ASOS ON SERVICE A AND BROADCASTED OVER ATIS.

SEE ATTACHED AIRSPACE LETTER.

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** GLENO **STATE:** CO **COUNTRY:** US

**LATITUDE/LONGITUDE:** 392051.84N/1072208.09W **TYPE:** WP, INT, DME

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** NO CHANGE

**FIX MAKE-UP FACILITIES:**

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM | FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RED TABLE | DBL | VOR/DME | H | 244.17 | 256.17 | 22.73 | 22.73 | | 14000 | 45000 |
| 2 | MEEKER | EKR | VOR/DME | H | 134.00 | 149.00 | | 50.24 | | 16000 | 45000 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|
| EKR | VOR/DME | R-134 | 51 | 16000 | 22200 |

**FIX RESTRICTIONS:**
MRA V134 16000
SPECIAL LOC/DME RWY 15, KASE, ASPEN, CO
SPECIAL RNAV (RNP) Y RWY 15, KASE, ASPEN, CO
SPECIAL GLENO (RNP), KASE, ASPEN, CO

**HOLDING:** **HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | DME | HOLDING ALTITUDES MIN | MAX | TEMPLATES MIN | MAX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SW | DBL | VOR/DME | 244.17 | 064.17 | L | 1-1 1/2 | | 14000 | 29000 | 12 | 24 |
| 2 | SW | | WP | 247.17 | 067.17 | L | | 8 | 14000 | 17500 | 11 | 17 |
| 3 | SW | DBL | VOR/DME | 244.17 | 064.17 | L | 1-1 1/2 | | 14200 | 17500 | 16 | 18 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 230 | AAO | 391420.00N/1072217.00W | 11683 | 6A |
| 2 | 230 | AAO | 391420.00N/1072217.00W | 11683 | 6A |
| 3 | 265 | AAO | 391554.00N/1071036.00W | 13081 | 4E |
| 3 | 310 | AAO | 391540.60N/1071003.30W | 13153 | 6C |

**PRECIPITOUS TERRAIN ADDITIONS:**

| PAT | SPEED | ADDITION |
|---|---|---|
| 1 | 230 | 375 |
| 2 | 230 | 375 |
| 3 | 265 | 375 |

**REASON FOR NONSTANDARD HOLDING:**
PAT 2 HIGH TERRAIN SOUTH
PAT 1 HIGH TERRAIN SOUTH
PAT 3 HIGH TERRAIN SOUTH

**HOLDING RESTRICTIONS:**
HOLDING LIMITED TO ESTABLISHED PATTERNS

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|
| 3 | LOC/DME RWY 15 | KASE | ASPEN | CO (US) |

**REMARKS:**
RED TABLE (FAC 1) USED TO ESTABLISH FIX COORDINATES
PAT 1, 3 - DBL DME REQUIRED FOR HOLDING BELOW 16000
PRECIPITOUS TERRAIN EVALUATION COMPLETED
PAT 2 230K CONTROLLING OBSTRUCTION LOCATED 1067' INTO SECONDARY AREA, PRIMARY EQUIVALENT 11139' MSL.
PAT 3 265K CONTROLLING OBSTRUCTION LOCATED 9420' INTO SECONDARY AREA, PRIMARY EQUIVALENT 12194' MSL.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| DP | GLENO (RNP) | | 2 | KASE | ASPEN | CO (US) |
| DP | PITKIN (RNAV) | | | KASE | ASPEN | CO (US) |
| EN ROUTE | J80 | 1, 2 | 1 | | | (US) |
| EN ROUTE | V134 | 1, 2 | 1 | | | (US) |
| EN ROUTE | V591 | 1, 2 | 1 | | | (US) |
| IAP | LOC/DME RWY 15 | 1 | 1, 3 | KASE | ASPEN | CO (US) |
| IAP | LOC/DME-E | 1 | 1 | KASE | ASPEN | CO (US) |
| IAP | RNAV (GPS)-F | | 2 | KASE | ASPEN | CO (US) |
| IAP | RNAV (RNP) Y RWY 15 | | 2 | KASE | ASPEN | CO (US) |
| IAP | VOR/DME-C | 1 | 1 | KASE | ASPEN | CO (US) |

**REQUIRED CHARTING:** DP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

QUALITY CHECKED

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 16 **DATE OF REVISION:** 03/07/2013

**REASON FOR REVISION:**
DELETED PROCEDURES SPECIAL VOR/DME D, KASE, ASPEN, CO AND SPECIAL RNAV (RNP) Z RWY 15 KASE, ASPEN, CO FROM FIX RESTRICTIONS.
CHANGED PAT 1 AND 2 CONTROLLING OBSTRUCTION FROM AAO, 11599, 2C TO AAO, 11683, 6A.
ADDED REMARK RED TABLE (FAC 1) USED TO ESTABLISH FIX COORDINATES.
ADDED REMARK PAT 2 230K CONTROLLING OBSTRUCTION LOCATED 1067' INTO SECONDARY AREA, PRIMARY EQUIVALENT 11139' MSL.
UPDATED FIX USE.

| | | | |
|---|---|---|---|
| **DEVELOPED BY:** | **DATE:** 09/24/2012 | **OFFICE:** AJV-354 | **NAME:** RALPH DUMAR |
| **APPROVED BY:** | **DATE:** | **OFFICE:** AJV-354 | **NAME:** DEZ SILAGYI |
| | **SIGNATURE:** | | |

**DISTRIBUTION:** **NFDC**
**FPO:** WST
**ARTCC:** ZDV
**ATC FACILITY:** ASE
**OTHER:**

QUALITY 4 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** RED TABLE VOR/DME **STATE:** CO **COUNTRY:** US

**LATITUDE/LONGITUDE:** 392621.64N/1065340.85W **TYPE:**

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** NO CHANGE

**FIX MAKE-UP FACILITIES:**

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM | DIST FROM FAC FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RED TABLE | DBL | VOR/DME | H | | | | | | | 45000 |

**FIX RESTRICTIONS:**
SPECIAL RNAV (GPS) Z RWY 15, KASE, ASPEN, CO
SPECIAL LOC/DME RWY 15, KASE, ASPEN, CO
SPECIAL GLENO (RNP), KASE, ASPEN, CO

**HOLDING:** **HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | LEG LENGTH DME | HOLDING ALTITUDES MIN | HOLDING ALTITUDES MAX | TEMPLATES MIN | TEMPLATES MAX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | N | DBL | VOR/DME | 344.00 | 164.00 | R | 1-1 1/2 | | 14000 | 29000 | 10 | 22 |
| 2 | N | DBL | VOR/DME | 343.38 | 163.38 | R | 1-1 1/2 | | 13700 | 17500 | 10 | 16 |
| 3 | N | | WP | 346.38 | 166.38 | R | | 8 | 13700 | 17500 | 11 | 17 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 230 | AAO | 392506.00N/1064648.00W | 11979 | 4E |
| 2 | 230 | AAO | 392506.00N/1064648.00W | 11979 | 4E |
| 3 | 230 | AAO | 392512.60N/1064616.80W | 12238 | 6C |

**PRECIPITOUS TERRAIN ADDITIONS:**

| PAT | SPEED | ADDITION |
|---|---|---|
| 1 | 230 | 375 |
| 2 | 230 | 375 |
| 3 | 230 | 375 |

**HOLDING RESTRICTIONS:**
HOLDING LIMITED TO ESTABLISHED PATTERN

**REMARKS:**
PRECIPITOUS TERRAIN EVALUATION COMPLETED

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| DP | ASPEN | | | KASE | ASPEN | CO (US) |
| DP | GLENO (RNP) | | | KASE | ASPEN | CO (US) |
| DP | LINDZ | | | KASE | ASPEN | CO (US) |
| DP | SARDD (OBSTACLE) | | | KASE | ASPEN | CO (US) |
| DP | TAKE-OFF MINIMUMS | | | KASE | ASPEN | CO (US) |
| DP | ROCKIES | | 1 | KBKF | AURORA | CO (US) |
| DP | SPRINGS | | | KCOS | COLORADO SPRINGS | CO (US) |
| DP | ROCKIES | | 1 | KAPA | DENVER | CO (US) |
| DP | ROCKIES | | 1 | KBJC | DENVER | CO (US) |
| DP | ROCKIES | | 1 | KDEN | DENVER | CO (US) |
| DP | ROCKIES | | 1 | KFTG | DENVER | CO (US) |
| DP | GYPSUM | | | KEGE | EAGLE | CO (US) |
| DP | MEEKER | | | KEGE | EAGLE | CO (US) |
| DP | ROCKIES | | 1 | KFNL | FORT COLLINS/LOVELAND | CO (US) |
| DP | GRAND JUNCTION | | | KGJT | GRAND JUNCTION | CO (US) |
| DP | GRAND MESA | | | KGJT | GRAND JUNCTION | CO (US) |
| DP | ROCKIES | | 1 | KGXY | GREELEY | CO (US) |
| DP | CANYON | | | KPUB | PUEBLO | CO (US) |
| DP | UYRIG (RNAV) DP | | | KRIL | RIFLE | CO (US) |
| EN ROUTE | J206 | | | | | (US) |
| EN ROUTE | J60 | | | | | (US) |
| EN ROUTE | J80 | | | | | (US) |
| EN ROUTE | V108 | | | | | (US) |
| EN ROUTE | V134 | | | | | (US) |
| EN ROUTE | V356 | | | | | (US) |
| EN ROUTE | V361 | | | | | (US) |
| EN ROUTE | V421 | | | | | (US) |
| IAP | LOC/DME RWY 15 | | | KASE | ASPEN | CO (US) |
| IAP | LOC/DME-E | | | KASE | ASPEN | CO (US) |
| IAP | RNAV (GPS) Z RWY 15 | | | KASE | ASPEN | CO (US) |
| IAP | RNAV (GPS)-F | | 3 | KASE | ASPEN | CO (US) |
| IAP | ROARING FORK VISUAL RWY 15 | | | KASE | ASPEN | CO (US) |
| IAP | VOR/DME-C | | 2 | KASE | ASPEN | CO (US) |
| IAP | ILS RWY 26 | | | KRIL | RIFLE | CO (US) |
| IAP | LOC/DME-A | | | KRIL | RIFLE | CO (US) |

QUALITY CHECKED 4

| | | | | |
|---|---|---|---|---|
| IAP | RNAV (GPS) Z RWY 26 | KRIL | RIFLE | CO (US) |
| IAP | RNAV (RNP) Y RWY 26 | KRIL | RIFLE | CO (US) |
| STAR | LARKS | KDEN | DENVER | CO (US) |
| STAR | POWDR | KDEN | DENVER | CO (US) |

**REQUIRED CHARTING:** DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 12 **DATE OF REVISION:** 03/07/2013

**REASON FOR REVISION:**
PAT 3: CHANGED RAD/CRS/BRG FROM 343.38 TO 346.38.
PAT 3: CHANGED CRS INBOUND FROM 163.38 TO 166.38.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 09/11/2012 **OFFICE:** AJV-354 **NAME:** RALPH DUMAR

**APPROVED BY:** **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**
**FPO:** WST
**ARTCC:** ZDV
**ATC FACILITY:** ASE ATCT, DEN APP CON
**OTHER:**

QUALITY 4 CHECK