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 |
|---|---|---|---|
| DABIE (IF/IAF) | AARTA (FB) | 313.07 / 6.90 | 2000 |
| AARTA (FAF) | CABAS/2.50 NM TO RW31 (FB) | 313.01 / 1.86 | |
| CABAS/2.50 NM TO RW31 | RW31 (MAP) (FO) | 312.99 / 2.50 | |
| RW31 (MAP) | 1200 MSL | 312.99 | 1200 |
| 1200 MSL | DABIE (FO) | | 2700 |

## MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2700 DIRECT DABIE AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SE DABIE, RT, 313.07 INBOUND, 2700 FT. IN LIEU OF PT (IAF)
3. FAC: 313.01 FAF: AARTA DIST FAF TO MAP: 4.36 THLD: 4.36
4. MIN. ALT: DABIE 2700, AARTA 2000, CABAS/2.50 NM TO RW31 1400*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2000 GS ALT AT: AARTA 2000 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR
8. MSA FROM:

ADDITIONAL FLIGHT DATA:
CHART FAS OBST: 720 TANK 343936N/0872005W
CHART FAS OBST: 929 TREE 343742N/0871757W
CHART 1147 TOWER 343716N/0871548W
DISTANCE TO THLD FROM 200 HATH: 0.50 NM.
CHART VDP AT 1.78 MILES TO RW31*
*LNAV ONLY.
WAAS CHANNEL # 48830
REFERENCE PATH ID: W31A
LTP HAE: 147.7 M

MAG VAR: 3W EPOCH YEAR: 2015

## MINIMUMS

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

| 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 |
| LPV DA | 772 | 3/4 | 200 | 772 | 3/4 | 200 | 772 | 3/4 | 200 | 772 | 3/4 | 200 | | | |
| LNAV/VNAV DA | 931 | 1 1/4 | 359 | 931 | 1 1/4 | 359 | 931 | 1 1/4 | 359 | 931 | 1 1/4 | 359 | | | |
| LNAV MDA | 1180 | 1 | 608 | 1180 | 1 | 608 | 1180 | 1 3/4 | 608 | 1180 | 1 3/4 | 608 | | | |
| CIRCLING | 1180 | 1 | 592 | 1240 | 1 | 652 | 1240 | 1 3/4 | 652 | 1260 | 2 1/4 | 672 | | | |

NOTES:
CHART NOTE: CIRCLING TO RWY 17 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 40C (104F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE MUSCLE SHOALS ALTIMETER SETTING AND (SEE FORM 8260-10)

@ CAT D 800-2 1/4
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 588 THRE: 572 | FACILITY IDENTIFIER: | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| COURTLAND, AL | AIRPORT NAME: COURTLAND | RNAV | RNAV (GPS) RWY 31, AMDT 2 | AMDT: |
| | | | | DATED 09/23/2010 |

| 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] ZME, HSV APP CON, AMGR |

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **DEVELOPED BY** | | |
| NAME: DONALD E. SMITH (HEIDI SNIDER) | FIFO AJV-352 | DATE: 03/29/2012 |
| **APPROVED BY** | | |
| NAME: DARRYEL ADAMS MANAGER | FIFO AJV-352 | DATE: |

CHANGES:

1. INTERMEDIATE SEGMENT COURSE/DISTANCE CHANGED FROM 311.18/6.10 TO 313.07/6.90.
2. STEPDOWN FIX LOCATION CHANGED FROM 2.6 NM TO R31 TO 2.5 NM TO R31.
3. FINAL COURSE/LENGTH CHANGED FROM 311.13/4.31 TO 313.01/4.36.
4. HOLD-IN-LIEU COURSE INBOUND CHANGED FROM 311.18 TO 313.07.
5. MISSED APPROACH INSTRUCTION CHANGED FROM CLIMBING RIGHT TURN TO 2700 DIRECT DABIE AND HOLD TO CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2700 DIRECT DABIE AND HOLD.
6. ADDED VDP.
7. ADDED LPV AND LNAV/VNAV LINES OF MINIMA.
8. PROCEDURAL ELEVATION CHANGED FROM TDZE 579 TO THRE 572.
9. LNAV MDA/HAT CHANGED FROM 1240/661 TO 1180/608.
10. LNAV CAT D VISIBILITY CHANGED FROM 2 TO 1 3/4 MILE.
11. CIRCLING MDA/HAA CAT A CHANGED FROM 1240/652 TO 1180/592; CAT B/C CHANGED FROM 1280/692 TO 1240/652; CAT D CHANGED FROM 1300/712 TO 1260/672.
12. CIRCLING CAT C VISIBILITY CHANGED FROM 2 TO 1 3/4 MILE.
13. ADDED RESTRICTION FOR BARO-VNAV WHEN USING MUSCLE SHOALS ALTIMETER SETTING.

SEE 8260-10

REASONS:

1, 2. PFAF MOVED TO 8260.54A FORMULA 2-16B PFAF LOCATION.
3, 4. RECALCULATION OF SEGMENT COURSE
5. IAW 8260.19D PARA 856
6. IAW 8260.19D PARA 857
7, 17, 18, 19. FPT REQUEST.
8. IAW 8260.3B CHG 20 PARA 3.1.
9, 10, 11, 12. RECALCULATED IAW 8260.3B CHG 20 CHAPTER 3.
13. IAW 8260.19D PARA 855E(8).
14. IAW 8260.19D PARA 497
15. IAW 8260.19D PARA 854I(3).
16. PRIMARY ALTIMETER SOURCE, AWOS-3 ON THE FIELD.
20. VISUAL SURFACE CLEAR.
21. IAW 8260.19E PARA 854M(2).
22. IAW 8260.19E PARA 853B(4).

QUALITY CHECKED

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NOTES, (CONT.):
INCREASE ALL DA 38 FEET AND ALL MDA 40 FEET, INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C AND D VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART NOTE: VDP AND BARO-VNAV NA WITH MUSCLE SHOALS ALTIMETER SETTING.

TAA

| | FROM | TO | ALT |
|---|---|---|---|
| 1. | 223/30 CW 043/30 (NOPT) | 223/20 CW 043/20 | 3100 |
| 2. | 223/20 CW 043/20 | DABIE (IF/IAF) (FB) | 2700 |
| 3. | 043/30 CW 223/30 | 043/20 CW 223/20 | 3200 |
| 4. | 043/20 CW 223/20 | DABIE (IAF) (FO) | 2700 |

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 588 THRE: 572 | FACILITY IDENTIFIER: | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| COURTLAND, AL | AIRPORT NAME: COURTLAND | RNAV | RNAV (GPS) RWY 31, AMDT 2 | AMDT: 1 |
| | | | | DATED: 09/23/2010 |

| 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:

**CHANGES CONT.**
**14. ADDED BARO-VNAV TEMPERATURE RESTRICTION. 15. ADDED VDP RESTRICTION WITH MUSCLE SHOALS ALTIMETER SETTING 16. UPDATED B/U ALSTG SOURCE AND MINIMA ADJUSTMENT NOTE 17. MAGVAR CHANGED FROM 1W/1995 TO 3W/2015. 18. REMOVED IAF IDARE. 19. REMOVED IAF HAGGY. 20. 34:1 SURFACE CHANGED FROM NOT CLEAR TO CLEAR. 21. ADDED NOTE: " CIRCLING TO RWY 17 NA AT NIGHT." 22. ADDED ALTERNATE MINIMUMS.**

REASONS:

QUALITY CHECKED

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## FAS DATA BLOCK INFORMATION

| DATA FIELD | DATA |
|---|---|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | 9A4 |
| RUNWAY | RW31 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W31A |
| LTP/FTP LATITUDE | 343909.6695N |
| LTP/FTP LONGITUDE | 0872027.5960W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +01477 |
| FPAP LATITUDE | 344006.9900N |
| FPAP LONGITUDE | 0872150.3900W |
| 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 | 1232 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 35.0 |
| CRC REMAINDER | 0DB214D3 |

## ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|---|---|
| ICAO CODE | K7 |
| LTP ORTHOMETRIC HEIGHT | +01743 |
| FPAP ORTHOMETRIC HEIGHT | +01743 |

QUALITY CHECK

| CITY AND STATE | ELEVATION: 588 THRE: 572 | FACILITY IDENTIFIER: | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| COURTLAND, AL | AIRPORT NAME: COURTLAND | RNAV | RNAV (GPS) RWY 31, AMDT 2 | AMDT: 1 |
| | | | | DATED: 09/23/2010 |

| 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**

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP       123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAEAENRT   AARTA K70    W     N34362129W087162475                     W0028     NAR           AARTA
         SUSAEAENRT   CABAS K70    W     N34373315W087180833                     W0028     NAR           CABAS
         SUSAEAENRT   DABIE K70    W     N34315450W087100090                     W0028     NAR           DABIE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP 9A4 K7A9A4     0     049YHN34393390W087205610W003000588         1800018000C    MNAR    COURTLAND

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP 9A4 K7FR31   ADABIE 010DABIEK7EA0EE AR   HF                    31310040    + 02700     18000                A JS
         SUSAP 9A4 K7FR31   R      010DABIEK7EA0E  I    IF                                + 02700     18000                A JS
         SUSAP 9A4 K7FR31   R      020AARTAK7EA1E  F 051TF                    31310069    + 02000                          A JS
         SUSAP 9A4 K7FR31   R      020AARTAK7EA2WALPV       ALNAV/VNAV ALNAV                                                 JS
         SUSAP 9A4 K7FR31   R      021CABASK7EA0E S  031TF                    31300019    V 0140001408        -300         A JS
         SUSAP 9A4 K7FR31   R      030RW31 K7PG0GY M 031TF                    31300025      00612             -300         A JS
         SUSAP 9A4 K7FR31   R      040         0  M     CA                    3130        + 01200                          A JS
         SUSAP 9A4 K7FR31   R      050DABIEK7EA0EY  R   DF                                + 02700                          A JS
         SUSAP 9A4 K7FR31   R      060DABIEK7EA0EE  R   HM                    31310040    + 02700                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY   123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP 9A4 K7GRW31    0049943130 N34390967W087202760+0200    +0147700572000040100R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP       123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP 9A4 K7PR31   RW31 001 0000W31A0N3439096695W08720275960+014770300N3440069900W087215039001067512320004 00F4003500DB214D3
         SUSAP 9A4 K7PR31   RW31 002E      +01743+01743LPV       48830
```

| CITY AND STATE | ELEVATION: 588 THRE: 572 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| COURTLAND, AL | AIRPORT NAME: COURTLAND | RNAV | RNAV (GPS) RWY 31, AMDT 2 | AMDT: 1 |
| | | | | DATED: 09/23/2010 |

QUALITY CHECKED

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DABIE | DABIE | 010 | IAF | HF | R | FO | | 313.1(310.1T) | 004.0 | AA 02700 | |
| | | DABIE | 010 | FACF | IF | | FB | | | | AA 02700 | |
| | | AARTA | 020 | FAF | TF | | FB | 0.5 | 313.1(310.1T) | 006.9 | AA 02000 | |
| | | CABAS | 021 | SDF | TF | | FB | 0.3 | 313.0(310.0T) | 001.9 | AA 01400 GS 01408 | |
| | | RW31 | 030 | MAP | TF | | FO | 0.3 | 313.0(310.0T) | 002.5 | AT 00612 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 040 | | CA | | FB | | 313.0(310.0T) | | AA 01200 | |
| | DABIE | 050 | | DF | R | FO | | | | AA 02700 | |
| | DABIE | 060 | | HM | R | FO | | 313.1(310.1T) | 004.0 | AA 02700 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|---|---|---|---|---|---|
| | AARTA | N343621.29 | W0871624.75 | N3436.355 | W08716.413 |
| | CABAS | N343733.15 | W0871808.33 | N3437.553 | W08718.139 |
| | DABIE | N343154.50 | W0871000.90 | N3431.908 | W08710.015 |
| | RW31 | N343909.67 | W0872027.60 | N3439.161 | W08720.460 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|---|---|---|---|
| | RW31 | 00572 | 40 |

| CITY AND STATE | ELEVATION: **588** | **THRE: 572** | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|---|
| **COURTLAND, AL** | AIRPORT NAME: **COURTLAND** | | **RNAV** | **RNAV (GPS) RWY 31, AMDT 2** | AMDT: **1** |
| | | | | | DATED: **09/23/2010** |

| 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. |
|---|---|---|---|---|---|---|---|---|
| STRAIGHT-IN AREA | 223/30 CW 043/30 | 223/20 CW 043/20 | 1. TOWER (01-001199) | 340457.00N/0865413.00W | 2056 (2C) | 1000 | | 3100 |
| | | | 2. TERRAIN | 342927.00N/0863739.00W | 1355 (1400) | | AS1500 | 2900 |
| STRAIGHT-IN AREA | 223/20 CW 043/20 | DABIE | 3. AAO | 342412.00N/0864854.00W | 1437 (4E) | 1000 | | 2500 |
| | | | 4. TERRAIN | 342412.00N/0864854.00W | 1237 (1200) | | AS1500 | 2700 |
| STRAIGHT-IN AREA | 043/30 CW 223/30 | 043/20 CW 223/20 | 5. TOWER (47-001832) | 350009.00N/0870809.00W | 2187 (5E) | 1000 | | 3200 |
| | | | 6. TERRAIN | 342700.00N/0873242.00W | 1126 (1100) | | AS1500 | 2600 |
| STRAIGHT-IN AREA | 043/20 CW 223/20 | DABIE | 7. AAO | 342707.82N/0873231.49W | 1360 (2C) | 1000 | | 2400 |
| | | | 6. TERRAIN | 342707.82N/0873231.49W | 1160 (1200) | | AS1500 | 2700 |
| INTERMEDIATE | DABIE (IF/IAF) | AARTA | 8. TOWER (01-002979) | 343550.45N/0871535.61W | 1075 (1B) | 500 | AT425 | 2000 |
| | | | 9. TERRAIN | 343545.00N/0871409.00W | 856 (900) | | AS1000 | 1900 |
| FINAL: LPV | AARTA | RW31 | | | | ASC | | 772/200 |
| FINAL: LNAV/VNAV | AARTA | RW31 | 10. TANK (01-001981) | 343936.00N/0872005.00W | 720 (5D) | 23:44:1 | AC50 | 931/359 |
| FINAL: LNAV | AARTA | CABAS/2.50 NM TO | 11. AAO | 343721.27N/0871633.73W | 1049 (2C) | 250 | RA38 DG63 | 1400 |
| | | RW31 | | | | | | |
| 2. HOLD-IN-LIEU-OF-PT | DABIE | P-5 | 13. TOWER (01-001208) | 343448.00N/0870520.40W | 1220 (5D) | 1000 | AT480 | 2700 |
| | | | 14. TERRAIN | 343602.54N/0870624.63W | 879 (900) | | AS1500 | 2400 |
| 3. MISSED APPROACH — MAP: | DA / DA / RW31 | DABIE | | | | ASC | | 2700 |
| | | | 15. STACK (01-000343) | 344215.00N/0870716.00W | 1168 (4D) | 1000 | | 2200 |
| ELEV: | 607/770/1080 | | 16. TERRAIN | 343518.00N/0870951.00W | 873 (900) | | AS1500 | 2400 |
| | | | 17. TOWER (01-000550) | 344040.00N/0872014.00W | 845 (2C) | 300 | SI | 1180 |
| | | | 18. TREE | 343915.00N/0872254.00W | 929 (2C) | 300 | | 1240 |
| | | | 19. TREE | 343911.00N/0872301.00W | 939 (2C) | 300 | | 1240 |
| | | | 20. TREE | 343847.00N/0872335.00W | 949 (2C) | 300 | | 1260 |

| 4. CIRCLING AREA | DISTANCE | HT. ABV. ARPT. REQUIRED | HT. ABV. ARPT. ACTUAL |
|---|---|---|---|
| CATEGORY A | 1.3 NM | 350 | 592 |
| CATEGORY B | 1.5 NM | 450 | 652 |
| CATEGORY C | 1.7 NM | 450 | 652 |
| CATEGORY D | 2.3 NM | 550 | 672 |
| CATEGORY E | 4.5 NM | 550 | |

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

| SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A | SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |

| CITY AND STATE | ELEVATION: 588 / AIRPORT NAME: | FACILITY | PROCEDURE AND AMENDMENT NO: | REGION |
|---|---|---|---|---|
| COURTLAND, AL | COURTLAND | RNAV | RNAV (GPS) RWY 31, AMDT 2 | ASO |

QUALITY CHECKED 3

## PART B - SUPPLEMENTAL DATA

| 1. COMMUNICATIONS WITH: | 2. WEATHER SERVICE | 3. ALTIMETER SETTING |
|---|---|---|
| HSV APP CON<br>MSL FSS<br>ZME ARTCC | N W S<br>F A A<br>A / C<br>OTHER: | SOURCE: K9A4 / KMSL<br>DISTANCE: 0 / 13.91<br>HOURS REMOTE OPERATION:<br>BACKUP |
| SATISFACTORY ON: X V H F X U H F H F | LOCATION: | ADJUSTMENT: 0 / 38 |

| | | |
|---|---|---|
| 4. MONITOR STATUS | PRIMARY NAVAID: | |
| | MONITOR POINT: | |
| | HRS OPTN: | CAT 1 |
| | | CAT 3 |
| 5. APPROACH & RUNWAY LIGHTING | | ALS |
| | | (S) SALS |
| | | MALS |
| | | HIRL |
| | X | MIRL 31, 13 |
| | | REIL |
| | | TDZ |
| | | C/LINE |
| | | OTHER (SPECIFY) |
| 6. RUNWAY MARKINGS | BASIC BSC-P 17, 35 | |
| | ALL WEATHER | |
| | INSTRUMENT NPI-P 31, 13 | |
| 7. RUNWAY VISUAL RANGE | APPROACH | |
| | MIDFIELD | |
| | ROLL OUT | |
| 8. GLIDE PATH | GP ANGLE: 3.00 | ELEV RWY THRESHOLD: 571.7 |
| | DISTANCE FROM RWY: | ELEV GP ANTENNA: |
| | | THRESHOLD CROSSING HEIGHT: 40.0 |
| 9. FINAL APPROACH COURSE AIMING | X | RUNWAY THRESHOLD FT. FROM THRESHOLD |
| | X | ON CENTERLINE FT. FROM CENTERLINE |

10. WAIVERS: NONE

QUALITY CHECKED

| | |
|---|---|
| PART D - PREPARED BY: DONALD E. SMITH (HEIDI SNIDER) | DATE: 03/29/2012 |
| TITLE: AERONAUTICAL INFORMATION SPECIALIST | OFFICE: AJV-352 |

## PART C - REMARKS:

ISA DEVIATION USED: -30C (-22F)

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SERVICE A: K9A4: YES KMSL: YES

VGSI DATA: NONE.

USED STANDARD ISA DEVIATION DUE TO LACK OF AVERAGE COLD TEMPERATURE DATA.

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS:
20:1
R17 639 TREE (K9A4T0201) 344014.53N-0872102.07W (24.59)

RASS PRESSURE PATTERNS SAME
K9A4 587.8, KMSL 550.5
RA = 37.22.
SEE ATTACHED AIRSPACE LETTER.

100' VEGETATION USED PER FPT.

TERPS PARAGRAPH 289 APPLIED TO 1147 TOWER 343716N/0871548W

LNAV/VNAV AND LNAV INTERMEDIATE OBSTACLES:
21. TOWER (01-002152) 343719.00N/0871548.00W 1147 (5D) 500 SA-49 AT402 2000.
9. TERRAIN 343534.00N/0871409.00W 856 (900) AS 1000 1900.
OBSTACLE #19 291.27FT INTO SECONDARY.
25 BANK ANGLE USED FOR MA CONSTRUCTION. MINIMUM SEGMENT LENGTH FROM MAP TO MA HOLDING FIX DETERMINED BY PBN CALCULATOR (11.01NM).

# STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

| 1. APP SEGMENT | FROM | TO | OBSTRUCTION | COORDINATES | ELEV. MSL | ROC | ALT. ADJUSTMENTS | MIN. ALT. |
|---|---|---|---|---|---|---|---|---|
| FINAL: LNAV STEPDOWN | CABAS/2.50 NM TO | RW31 | 12. TREE | 343742.33N/0871756.81W | 929 (2C) | 250 | | 1180 |
| | RW31 | | | | | | | |

| 3. MISSED APPROACH | |
|---|---|
| MAP: | |
| ELEV: | |

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

5. MINIMUM SAFE ALTITUDES

PRIMARY NAVAID:

| SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A | SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 588 AIRPORT NAME: | FACILITY | PROCEDURE AND AMENDMENT NO: | REGION |
|---|---|---|---|---|
| COURTLAND, AL | COURTLAND | RNAV | RNAV (GPS) RWY 31, AMDT 2 | ASO |

## PART B - SUPPLEMENTAL DATA

| 1. COMMUNICATIONS WITH: | 2. WEATHER SERVICE | | 3. ALTIMETER SETTING |
|---|---|---|---|
| SATISFACTORY ON: | ☐ N W S | OTHER: | SOURCE: |
| | ☐ F A A | | DISTANCE: |
| | ☐ A / C | | HOURS REMOTE OPERATION: |
| ☐ V H F ☐ U H F ☐ H F | LOCATION: | | ADJUSTMENT: |

| | | |
|---|---|---|
| 4. MONITOR STATUS | PRIMARY NAVAID: | |
| | MONITOR POINT: | |
| | HRS OPTN: CAT 1 | |
| | HRS OPTN: CAT 3 | |
| 5. APPROACH & RUNWAY LIGHTING | ☐ | **ALS** |
| | ☐ | **(S) SALS** |
| | ☐ | **MALS** |
| | ☐ | **HIRL** |
| | ☐ | **MIRL** |
| | ☐ | **REIL** |
| | ☐ | **TDZ** |
| | ☐ | **C/LINE** |
| | ☐ | **OTHER (SPECIFY)** |
| 6. RUNWAY MARKINGS | BASIC | |
| | ALL WEATHER | |
| | INSTRUMENT | |
| 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 | ☐ RUNWAY THRESHOLD | FT. FROM THRESHOLD |
| | ☐ ON CENTERLINE | FT. FROM CENTERLINE |

10. WAIVERS:

| | |
|---|---|
| PART D - PREPARED BY: | DATE: |
| TITLE: | OFFICE: |

PART C - REMARKS:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** AARTA **STATE:** AL **COUNTRY:** US

**LATITUDE/LONGITUDE:** 343621.29N/0871624.75W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**
8260.54A 2-16B PFAF FORMULA APPLIED.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 31 | | | K9A4 | COURTLAND | AL (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 09/20/2012

**REASON FOR REVISION:**
MOVED FIX 262 FEET SOUTHEAST.

**DEVELOPED BY:** **DATE:** 03/23/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (HEIDI SNIDER)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** EST
**ARTCC:** ZME
**ATC FACILITY:** HSV
**OTHER:**

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CABAS **STATE:** AL **COUNTRY:** US

**LATITUDE/LONGITUDE:** 343733.15N/0871808.33W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 31 | | | K9A4 | COURTLAND | AL (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 09/20/2012

**REASON FOR REVISION:**
FIX MOVED 654 FEET NORTHWEST.

**DEVELOPED BY:** **DATE:** 03/23/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (HEIDI SNIDER)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** EST
**ARTCC:** ZME
**ATC FACILITY:** HSV
**OTHER:**

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** DABIE **STATE:** AL **COUNTRY:** US

**LATITUDE/LONGITUDE:** 343154.50N/0871000.90W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**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 | SE | | WP | 133.07 | 313.07 | R | | 4 | 2700 | 6000 | 5 | 6 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | TOWER (01-001208) | 343448.00N/0870520.40W | 1220 | 5D |

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

**REMARKS:**
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 13 | | 1 | K9A4 | COURTLAND | AL (US) |
| IAP | RNAV (GPS) RWY 31 | | 1 | K9A4 | COURTLAND | AL (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 09/20/2012

**REASON FOR REVISION:**
MOVED FIX 5123.60 FEET SOUTHEAST.
UPDATED HOLDING PATTERN INBOUND COURSE.
UPDATED HOLDING OBSTACLE LAT/LONG AND ELEVATION.

**DEVELOPED BY:** **DATE:** 03/23/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (HEIDI SNIDER)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**
**FPO:** EST
**ARTCC:** ZME
**ATC FACILITY:** HSV
**OTHER:**

QUALITY CHECKED

# TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **COURTLAND** STATE: **AL**

AIRPORT NAME: **COURTLAND** ID: **K9A4**

PROCEDURE: **RNAV (GPS) RWY 31** AMDT: **2**

DOCKET # :
(96-AXX-X/Required/Not Required)

**ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.**

1. Distance from **THLD** to 1000' point **3.73**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.55**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **310.01**
4. High Terrain in **FINAL** segment containing 1000' point **849**
5. Distance from **FAF** to 1500' point **6.30**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **4.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **310.07**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **873**
9. Threshold Coordinates (if straight-in) ... **343909.67N** / **0872027.60W**
10. ARP Coordinates ..... **343933.90N** / **0872056.10W**
11. Runway Approach End and distance furthest from ARP.....RWY **R31**
    Distance **.56** NM
12. FAF Coordinates ..... **343621.29N** / **0871624.75W**
    (Click to Select)

**REMARKS: Approach/Drawing attached.**

# Federal Aviation Administration

# Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Darryel Adams, Manager, Terminal Procedures & Charting Services, Eastern Team, AJV-352

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

TAKEOFF MINMUMS AND OBSTACLE DP, AMDT 2
RNAV (GPS) RWY 13, AMDT 2
RNAV (GPS) RWY 31, AMDT 2

Estimated Chart Date: 09/20/2012

Runway Numbers are not affected.

Please publish these changes in the National Flight Data Digest.

**ALABAMA**

| Location | Name | Airport /Facility | Identifier | Assigned Magnetic Variation Value | Epoch Year |
|---|---|---|---|---|---|
| Courtland | Courtland | Airport | K9A4 / 9A4 | Old 1 ° West<br>New 3 ° West | 2015 |

If you have any questions please notify Darryel Adams, darryel.d.adams@faa.gov (301) 427-4824.

cc: ATL-FPT, AVJ-3rf
AJV-352; DAdams :sbj::x7537:03/12/2012 :U:\AVN100\100Public\MAGVAR\MAGVAR Letters 2012\MV Request MV Change for Courtland, AL (K9A4) 3-12-12 Requestor:HSnider, AJW-3762:KMurphy

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** HAGGY **STATE:** AL **COUNTRY:** US

**LATITUDE/LONGITUDE:** 342836.46N/0871442.89W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** CANCEL

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 31 | | | K9A4 | COURTLAND | AL (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 09/23/2010

**REASON FOR REVISION:**

**DEVELOPED BY:** **DATE:** **OFFICE:** **NAME:**

**APPROVED BY:** **DATE:** **OFFICE: AJV-352** **NAME:** DARRYEL ADAMS

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** EST
**ARTCC:** ZME
**ATC FACILITY:** HSV
**OTHER:**

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** IDARE **STATE:** AL **COUNTRY:** US

**LATITUDE/LONGITUDE:** 343615.65N/0870654.28W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** CANCEL

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 31 | | | K9A4 | COURTLAND | AL (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 09/23/2010

**REASON FOR REVISION:**

**DEVELOPED BY:** **DATE:** **OFFICE:** **NAME:**

**APPROVED BY:** **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** EST
**ARTCC:** ZME
**ATC FACILITY:** HSV
**OTHER:**

QUALITY CHECKED