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 |
|---|---|---|---|
| FEVER | WANON (FB) | 012.93 / 27.47 | 2600 |
| WANON (IAF) | WOVPI (FB) | 083.02 / 8.50 | 2300 |
| WOVPI (IF) | UBOSE (FB) | 173.11 / 7.00 | 2300 |
| UBOSE (FAF) | COVUV/1.60 NM TO RW17R (FB) | 173.11 / 3.30 | |
| COVUV/1.60 NM TO RW17R | RW17R (MAP) (FO) | 173.11 / 1.60 | |
| RW17R (MAP) | 1600 MSL | 173.11 | 1600 |
| 1600 MSL | SLUGG (FO) | | 3100 |

## MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW17R

CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 3100 DIRECT SLUGG AND HOLD.

## ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 220.97 INBOUND.
CHART FAS OBST: 849 TREE 323434N/0971858W
DISTANCE TO THLD FROM 250 HATH: 0.66 NM.
WAAS CHANNEL # 62899
REFERENCE PATH ID: W17A
LTP HAE: 185.9 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT WOVPI
3. FAC: 173.11 FAF: UBOSE DIST FAF TO MAP: 4.90 THLD: 4.90
4. MIN. ALT: WOVPI 2300, UBOSE 2300, COVUV/1.60 NM TO RW17R 1240*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2300 GS ALT AT: UBOSE 2300 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 39.9 34:1 IS NOT CLEAR
8. MSA FROM: RW17R 3600

MAG VAR: 7E EPOCH YEAR: 1985

## 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 | 950 | 7/8 | 250 | 950 | 7/8 | 250 | 950 | 7/8 | 250 | 950 | 7/8 | 250 | | | |
| LNAV/VNAV DA | 1030 | 1 1/8 | 330 | 1030 | 1 1/8 | 330 | 1030 | 1 1/8 | 330 | 1030 | 1 1/8 | 330 | | | |
| LNAV MDA | 1100 | 1 | 400 | 1100 | 1 | 400 | 1100 | 1 1/8 | 400 | 1100 | 1 1/8 | 400 | | | |
| CIRCLING | 1200 | 1 | 500 | 1200 | 1 | 500 | 1200 | 1 1/2 | 500 | 1260 | 2 | 560 | | | |

NOTES:
CHART NOTE: BARO-VNAV NA WHEN USING FORT WORTH MEACHAM ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 39C (102F).
CHART NOTE: CIRCLING NA W OF RWY 17R-35L.
CHART NOTE: DME/DME RNP-0.3 NA.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

| CITY AND STATE | ELEVATION: 700 THRE: 700 AIRPORT NAME: | FACILITY IDENTIFIER: | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| FORT WORTH, TX | FORT WORTH SPINKS | RNAV | RNAV (GPS) RWY 17R, AMDT 1 | AMDT: ORIG |
| | | | | DATED 12/22/2005 |

| 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] **DFW ATCT, REGIONAL APP CON, ZFW, AMGR** |

| FLIGHT CHECKED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| | | |

| DEVELOPED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **JOSE ALFONSO (AISHAT NAUZO)** | **AJV-353** | **11/03/2011** |

| APPROVED BY | | |
|---|---|---|
| NAME: | FIFO | DATE: |
| **LARRY H STROUT MANAGER** | **AJV-353** | |

CHANGES:

**1 CHANGED LOCAL ALTIMETER SETTING NOTE TO INCLUDE WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FORT WORTH MEACHAM ALTIMETER SETTING AND INCREASE ALL DA 37 FT AND ALL MDA 40 FT, INCREASE LPV ALL CATS VISIBILITY, LNAV/VNAV ALL CATS VISIBILITY AND LNAV CATS C/D VISIBILITY 1/8 MILE.**
**2 CHANGED BARO-VNAV NOTE FROM NA BELOW -16C (4F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 39C (102F).**
**3 MOVED AND RENAMED WADBI(IF), WOVPI. CHANGED WOVPI TO UBOSE SEGMENT LENGTH FROM 6 NM TO 7 NM.**
**4 MOVED AND RENAMED WEGOG (IAF), WANON. CHANGED WANON TO WOVPI SEGMENT LENGTH FROM 5 NM TO 8.5 NM.**
**5 CHANGED FEVER TO WANON SEGMENT LENGTH FROM 27.9 NM TO 27.5 NM AND CRS FROM 020 TO 013 DEGREES.**
**6 MOVED UBOSE (FAF), ADDED COVUV (SDF), INCLUDED UBOSE TO COVUV LEG LENGTH 3.3 NM, AND COVUV TO RWY 17R LEG LENGTH 1.6 NM.**
**7 CHANGED LPV MINIMA FROM 987-1 287 ALL CATS TO 950-7/8 250 ALL CATS.**
**8 CHANGED LNAV/VNAV MINIMA FROM 1124-1 1/2 424 ALL CATS TO 1030-1 1/8 330 ALL CATS.**
**9 CHANGED LNAV MINIMA FROM 1140-1 440 CATS A/B, 1140-1 1/4 440 CAT C AND 1140-1 1/2 440 CAT D TO CATS A/B 1100-1 400 AND CATS C/D 1100-1 1/8 400.**
**10 CHANGED CIRCLING MINIMA FROM CAT A 1140-1 1/2 440, CATS B/C 1200-1 1/2 500, CAT D 1260-2 560 TO CATS A/B 1200-1 500, CAT C 1200-1 1/2 500 AND CAT D 1260-2 560.**
**11 REMOVED FIRST MA FIX RAZOS AND CHANGED MA INSTRUCTIONS TO AN INITIAL CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 3100 DIRECT SLUGG.**
**12 REMOVED VDP NA WITH FTW ALTIMETER SETTING, ADDED VDP NA.VDP LESS THAN 0.5 NM AFTER STEPDOWN.**
**SEE 8260-10**

REASONS:

**1 NEW OBSTACLE EVALUATION AND APPLICATION OF UPDATED VISIBILITIES FROM 8260.3B CHG 20 VOL 1 CHP 3 SEC 3 AND 8260.19D PARA 855E.**
**2 8260.19D, CHAP 4, PARA 497, CRITICAL TEMPERATURE.**
**3 MINIMUM LENGTH FOR DTA USING .54 CRITERIA.**
**4,5 DUE TO IAF MOVE.**
**6 NEW OBSTRUCTIONS AND DESCENT GRADIENT.**
**7-10 NEW OBSTRUCTIONS.**
**11 CRITERIA DOES NOT PERMIT BUILD TO RAZOS.**
**12 ADDED COVUV SDF 1.6 NM TO RWY 17R.**
**13 34:1 PENETRATIONS.**
**14 USED VGSI DATA.**

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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**NOTES, (CONT.):**
**CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.**
***LNAV ONLY**
**CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FORT WORTH MEACHAM ALTIMETER SETTING AND INCREASE ALL DA 37 FT AND ALL MDA 40 FT, INCREASE LPV ALL CATS VISIBILITY, LNAV/VNAV ALL CATS VISIBILITY AND LNAV CATS C/D VISIBILITY 1/8 MILE.**

| CITY AND STATE | | FACILITY IDENTIFIER: | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: | |
|---|---|---|---|---|
| **FORT WORTH, TX** | **ELEVATION: 700** **THRE: 700**<br>AIRPORT NAME:<br>**FORT WORTH SPINKS** | **RNAV** | **RNAV (GPS) RWY 17R, AMDT 1** | SUP:<br>AMDT: **ORIG**<br>DATED: **12/22/2005** |

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

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.**
**13 ADDED CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. 14 CHANGED TCH FROM 52 FT TO 39.9 FT.**

REASONS:

QUALITY 1 CHECKED

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## FAS DATA BLOCK INFORMATION

| DATA FIELD | DATA |
|---|---|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KFWS |
| RUNWAY | RW17R |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W17A |
| LTP/FTP LATITUDE | 323421.0520N |
| LTP/FTP LONGITUDE | 0971834.7550W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +01859 |
| FPAP LATITUDE | 323251.7700N |
| FPAP LONGITUDE | 0971834.9600W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00039.9 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 0920 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| CRC REMAINDER | 1E103B53 |

## ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|---|---|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +02135 |
| FPAP ORTHOMETRIC HEIGHT | +02135 |

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

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 - 424-8 - RNAV (GPS)

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   COVUV K40    W     N32355724W097183454                    E0042     NAR           COVUV
        SUSAEAENRT   FEVER K40    R   L N32202494W097394419                    E0044     NAR           FEVER
        SUSAEAENRT   SLUGG K40    C   L N32280826W097434139                    E0045     NAR           SLUGG
        SUSAEAENRT   UBOSE K40    W     N32391550W097183409                    E0042     NAR           UBOSE
        SUSAEAENRT   WANON K40    W     N32461691W097283799                    E0043     NAR           WANON
        SUSAEAENRT   WOVPI K40    W     N32461633W097183313                    E0042     NAR           WOVPI

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFWSK4AFWS     0     060YHN32335482W097182908E007000700         1800018000C    MNAR    FORT WORTH SPINKS

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFWSK4FR17R  AFEVER 010FEVERK4EA0E       IF                                                18000                 A JS
        SUSAP KFWSK4FR17R  AFEVER 020WANONK4EA0E  A 020TF                     01290275    + 02600                             A JS
        SUSAP KFWSK4FR17R  AFEVER 030WOVPIK4EA0EE B 010TF                     08300085    + 02300                             A JS
        SUSAP KFWSK4FR17R  R      010WOVPIK4EA0E  I    IF                                 + 02300     18000                   A JS
        SUSAP KFWSK4FR17R  R      020UBOSEK4EA1E  F 051TF                     17310070    + 02300                 RW17R K4PGA JS
        SUSAP KFWSK4FR17R  R      020UBOSEK4EA2WALPV       ALNAV/VNAV ALNAV                                                     JS
        SUSAP KFWSK4FR17R  R      021COVUVK4EA0E S  031TF                     17310033    V 0124001250        -300            A JS
        SUSAP KFWSK4FR17R  R      030RW17RK4PG0GY M 031TF                     17310016      00740             -300            A JS
        SUSAP KFWSK4FR17R  R      040         0  M     CA                     1731        + 01600                             A JS
        SUSAP KFWSK4FR17R  R      050SLUGGK4EA0EY  R   DF                                 + 03100                             A JS
        SUSAP KFWSK4FR17R  R      060SLUGGK4EA0EE  R   HM                     22100040    + 03100                             A JS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFWSK4GRW17R   0060021731 N32342105W097183476-0200    +0185900700000040100R

                1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KFWSK4PR17R  RW17R001 0000W17A0N3234210520W09718347550+018590300N3232517700W097183496001067509200003 99F4005001E103B53
        SUSAP KFWSK4PR17R  RW17R002E      +02135+02135LPV       62899

                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
```

QUALITY 1 CHECKED

| CITY AND STATE | ELEVATION: 700 THRE: 700 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| **FORT WORTH, TX** | AIRPORT NAME: **FORT WORTH SPINKS** | **RNAV** | **RNAV (GPS) RWY 17R, AMDT 1** | AMDT: **ORIG** |
| | | | | DATED: **12/22/2005** |

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

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:

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SUSAP KFWSK4SRW17RK4PG 0 18018003625 M

QUALITY 1 CHECKED

| CITY AND STATE | ELEVATION: 700 THRE: 700 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| FORT WORTH, TX | AIRPORT NAME: FORT WORTH SPINKS | RNAV | RNAV (GPS) RWY 17R, AMDT 1 | AMDT: ORIG |
| | | | | DATED: 12/22/2005 |

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

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**

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ARINC SUMMARY - 424-8 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FEVER | FEVER | 010 | | IF | | FB | | | | | |
| | FEVER | WANON | 020 | IAF | TF | | FB | 2.0 | 012.9(019.9T) | 027.5 | AA 02600 | |
| | FEVER | WOVPI | 030 | | TF | | FB | 1.0 | 083.0(090.0T) | 008.5 | AA 02300 | |
| | | WOVPI | 010 | FACF | IF | | FB | | | | AA 02300 | |
| | | UBOSE | 020 | FAF | TF | | FB | 0.5 | 173.1(180.1T) | 007.0 | AA 02300 | |
| | | COVUV | 021 | SDF | TF | | FB | 0.3 | 173.1(180.1T) | 003.3 | AA 01240 GS 01250 | |
| | | RW17R | 030 | MAP | TF | | FO | 0.3 | 173.1(180.1T) | 001.6 | AT 00740 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG(TRUE) | DISTANCE | ALTITUDE | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 040 | | CA | | FB | | 173.1(180.1T) | | AA 01600 | |
| | SLUGG | 050 | | DF | R | FO | | | | AA 03100 | |
| | SLUGG | 060 | | HM | R | FO | | 221.0(228.0T) | 004.0 | AA 03100 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|---|---|---|---|---|---|
| | COVUV | N323557.24 | W0971834.54 | N3235.954 | W09718.576 |
| | FEVER | N322024.94 | W0973944.19 | N3220.416 | W09739.737 |
| | SLUGG | N322808.26 | W0974341.39 | N3228.138 | W09743.690 |
| | UBOSE | N323915.50 | W0971834.09 | N3239.258 | W09718.568 |
| | WANON | N324616.91 | W0972837.99 | N3246.282 | W09728.633 |
| | WOVPI | N324616.33 | W0971833.13 | N3246.272 | W09718.552 |
| | RW17R | N323421.05 | W0971834.76 | N3234.351 | W09718.579 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|---|---|---|---|
| | RW17R | 00700 | 40 |

| CITY AND STATE | ELEVATION: **700** THRE: **700** / AIRPORT NAME: | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
|---|---|---|---|---|
| **FORT WORTH, TX** | **FORT WORTH SPINKS** | **RNAV** | **RNAV (GPS) RWY 17R, AMDT 1** | AMDT: **ORIG** |
| | | | | DATED: **12/22/2005** |

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

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. |
|---|---|---|---|---|---|---|---|---|
| FEEDER | FEVER | WANON | 1. TOWER (48-004809) | 323156.00N/0973623.00W | 1275 (5D) | 1000 | | 2300 |
| | | | 2. TERRAIN | 323215.00N/0973703.00W | 1060 (1100) | | AS1500 | 2600 |
| INITIAL | WANON | WOVPI | 3. BLDG (48-004011) | 324501.00N/0972004.00W | 1198 (3D) | 1000 | | 2200 |
| | | | 4. TERRAIN | 324815.00N/0972536.00W | 765 (800) | | AS1500 | 2300 |
| INTERMEDIATE | WOVPI | UBOSE | 5. TOWER (48-000408) | 324501.00N/0971608.00W | 1743 (1D) | 500 | | 2300 |
| | | | 6. TERRAIN | 324057.00N/0972100.00W | 768 (800) | | AS1500 | 2300 |
| FINAL: LPV | UBOSE | RW17R | 7. ANTENNA ON | 323430.98N/0971830.59W | 725 (1A) | 34:1 | | 950/250 |
| | | | BUILDING (KFWS0010) | | | | | |
| FINAL: LNAV/VNAV | UBOSE | RW17R | 8. TREE | 323433.52N/0971857.92W | 849 (2C) | 161 | AC20 | 1030/330 |
| FINAL: LNAV | UBOSE | COVUV/1.60 NM TO RW17R | 9. AAO | 323753.07N/0971914.50W | 939 (2C) | 250 | RA37 | 1240 |
| FINAL: LNAV STEPDOWN | COVUV/1.60 NM TO RW17R | RW17R | 8. TREE | 323433.52N/0971857.92W | 849 (2C) | 250 | | 1100 |
| 2. PROCEDURE TURN | NA | | | | | ASC | | 3100 |
| 3. MISSED APPROACH MAP: | DA / DA / RW17R | SLUGG | 10. TOWER (48-002505) | 323212.00N/0972446.86W | 1772 (2C) | 1000 | | 2800 |
| 3. MISSED APPROACH ELEV: | 763/869/1000 | | 11. TERRAIN | 323109.00N/0974015.00W | 1090 (1100) | | AS1500 | 2600 |

| 4. CIRCLING AREA | DISTANCE | HT. ABV. ARPT. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | REQUIRED | | ACTUAL | | | | | | | |
| CATEGORY A | 1.3 NM | | 350 | | 500 | 12. TREE | 323232.92N/0971811.16W | 899 (2C) | 300 | | 1200 |
| CATEGORY B | 1.5 NM | | 450 | | 500 | 12. TREE | 323232.92N/0971811.16W | 899 (2C) | 300 | | 1200 |
| CATEGORY C | 1.7 NM | | 450 | | 500 | 12. TREE | 323232.92N/0971811.16W | 899 (2C) | 300 | | 1200 |
| CATEGORY D | 2.3 NM | | 550 | | 560 | 13. TREE | 323251.79N/0971557.32W | 929 (2C) | 300 | HAA | 1260 |
| CATEGORY E | 4.5 NM | | 550 | | | | | | | | |

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW17R

| SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A | SECTOR | OBSTRUCTION | BRG/DIST | ELEVATION (MSL) | M S A |
|---|---|---|---|---|---|---|---|---|---|
| 360-360 | TWR (48-008489) | 081/ 17.6 | 2549 (2C) | 3600 | | | | | |

OUT 5 CKED

| CITY AND STATE | ELEVATION: 700 / AIRPORT NAME: | FACILITY | PROCEDURE AND AMENDMENT NO: | REGION |
|---|---|---|---|---|
| FORT WORTH, TX | FORT WORTH SPINKS | RNAV | RNAV (GPS) RWY 17R, AMDT 1 | ASW |

## PART B - SUPPLEMENTAL DATA

| 1. COMMUNICATIONS WITH: | 2. WEATHER SERVICE | 3. ALTIMETER SETTING |
|---|---|---|
| FTW FSS<br>REGIONAL APP CON<br><br>SATISFACTORY ON: | [ ] NWS OTHER: AWOS-3<br>[ ] FAA<br>[ ] A/C | SOURCE: KFWS / KFTW<br>DISTANCE: 0 / 15.49<br>HOURS REMOTE OPERATION: 24 |
| [X] VHF [X] UHF [ ] HF | LOCATION: KFWS | ADJUSTMENT: 0 / 37 |

| | | |
|---|---|---|
| 4. MONITOR STATUS | PRIMARY NAVAID: | |
| | MONITOR POINT: | |
| | HRS OPTN: CAT 1 | |
| | HRS OPTN: CAT 3 | |
| 5. APPROACH & RUNWAY LIGHTING | [ ] | ALS |
| | [ ] | (S) SALS |
| | [X] | MALSR 35L (PCL) |
| | [ ] | HIRL |
| | [X] | MIRL 17R, 35L |
| | [ ] | REIL |
| | [ ] | TDZ |
| | [ ] | C/LINE |
| | [X] | OTHER (SPECIFY)<br>PAPI-4L 17R, 35L |
| 6. RUNWAY MARKINGS | BASIC | |
| | ALL WEATHER PIR-G 17R, 35L | |
| | INSTRUMENT | |
| 7. RUNWAY VISUAL RANGE | APPROACH | |
| | MIDFIELD | |
| | ROLL OUT | |
| 8. GLIDE PATH | GP ANGLE: 3.00 | ELEV RWY THRESHOLD: 700.4 |
| | DISTANCE FROM RWY: | ELEV GP ANTENNA: |
| | | THRESHOLD CROSSING HEIGHT: 39.9 |
| 9. FINAL APPROACH COURSE AIMING | [X] RUNWAY THRESHOLD | FT. FROM THRESHOLD |
| | [X] ON CENTERLINE | FT. FROM CENTERLINE |

10. WAIVERS: NONE

| | |
|---|---|
| PART D - PREPARED BY: JOSE ALFONSO (AISHAT NAUZO) | DATE: 11/03/2011 |
| TITLE: AERONAUTICAL INFORMATION SPECIALIST | OFFICE: AJV-353 |

## PART C - REMARKS:

VDP NOT ESTABLISHED - VDP IS LESS THAN 0.5 NM AFTER STEPDOWN.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KFWS 700.4, KFTW 710.1
RA = 36.99.
SEE ATTACHED AIRSPACE LETTER.

CIRCLING NA W OF RWY 17R-35L DUE TO NORTH-SOUTH POWER LINES WEST OF AIRPORT.

KFWS AWOS-3 IS ON SERVICE A, KFTW ASOS IS ON SERVICE A.

100' TREE HEIGHT PER FPT.

MAGVAR NOT UPDATED PER FPT. 1/1/2010 MAGVAR 4 DEGREES 28 MINUTES EAST.

TAA NOT DEVELOPED PER FPT.

VGSI DATA: 3.00/39.9

25D BANK ANGLE USED FOR MA CONSTRUCTION TO REDUCE MINIMUM LENGTH OF SEGMENT.

5 YEAR DATA NOT AVAILABLE FOR THIS LOCATION.

AVERAGE COLD TEMPERATURE BASED ON STANDARD -30 C ISA DEVIATION.

FPT NOTIFIED OF 34:1 PENETRATIONS.

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:

34:1 PENETRATIONS:
725 ANT ON BDLG (KFWS0010) 323430.98N-0971830.59W (0.96)
704 GROUND (KFWS0011) 323424.02N-0971838.90W (0.68)

LPV SLOPE 34:1
LNAV/VNAV SLOPE 23.399:1

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** COVUV **STATE:** TX **COUNTRY:** US

**LATITUDE/LONGITUDE:** 323557.24N/0971834.54W **TYPE:** WP

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 17R | | | KFWS | FORT WORTH | TX (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 04/05/2012

**DEVELOPED BY:** **DATE:** 11/03/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (AISHAT NAUZO)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZFW
**ATC FACILITY:** REGIONAL/FWS
**OTHER:**

QUALITY 1 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** SLUGG **STATE:** TX **COUNTRY:** US

**LATITUDE/LONGITUDE:** 322808.26N/0974341.39W **TYPE:** WP, INT, DME

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

**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 | RANGER | FUZ | VORTAC | H | 221.97 | 227.97 | 37.50 | 37.50 | | 3100 | 17500 |
| 2 | MILLSAP | MQP | VORTAC | H | 129.38 | 138.38 | | 20.58 | | 3100 | 17500 |
| 3 | GLEN ROSE | JEN | VORTAC | L | 016.27 | 022.27 | 20.02 | 20.02 | | 4000 | 17500 |
| 4 | MAVERICK | TTT | VOR/DME | H | 229.66 | 235.66 | 42.28 | 42.28 | | 4000 | 17500 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|
| TTT | VOR/DME | R-230 | 43 | 4000 | 15100 |

**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 | NE | FUZ | VORTAC | 221.97 | 221.97 | R | 1 | | 3100 | 9000 | 6 | 11 |
| 2 | NE | | WP | 040.97 | 220.97 | R | | 4 | 3100 | 6000 | 5 | 6 |
| 3 | S | JEN | VORTAC | 196.27 | 016.27 | R | 1 | | 4000 | 9000 | 6 | 11 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | TOWER (48-005831) | 323256.00N/0973902.92W | 1372 | 1A |
| 2 | 200 | TOWER (48-005831) | 323256.00N/0973902.92W | 1372 | 1A |
| 3 | 200 | AAO | 322305.60N/0974803.80W | 1430 | 6C |

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

**REMARKS:**
RANGER (FAC 1) AND MILLSAP (FAC 2) USED TO ESTABLISH FIX COORDINATES
NO CHANGES TO COURSES/ DISTANCES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | ILS OR LOC RWY 35L | 1, 2, 3, 4 | 1, 3 | KFWS | FORT WORTH | TX (US) |
| IAP | RNAV (GPS) RWY 17R | | 2 | KFWS | FORT WORTH | TX (US) |
| IAP | RNAV (GPS) RWY 35L | | 2 | KFWS | FORT WORTH | TX (US) |
| STAR | SLUGG | 1, 2, 3 | | KDTO | DENTON | TX (US) |
| STAR | SLUGG | 1, 2, 3 | | KAFW | FORT WORTH | TX (US) |
| STAR | SLUGG | 1, 2, 3 | | KFTW | FORT WORTH | TX (US) |
| STAR | SLUGG | 1, 2, 3 | | KNFW | FORT WORTH | TX (US) |

**REQUIRED CHARTING:** STAR, IAP, AREA, CONTROLLER, EN ROUTE LOW

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 3 **DATE OF REVISION:** 05/31/2012

**REASON FOR REVISION:**
FIX MOVED 19.62 FEET SOUTHEAST; COORDINATES UPDATED.
ADDED MAVERICK VORDME FAC 4.
ADDED GLEN ROSE VORTAC PAT 3 PATTERN AND PAT 3 CONTROLLER.
ADDED MAVERICK VDME ESV.
UPDATED FIX USE.
ADDED REMARK RANGER (FAC 1) AND MILLSAP (FAC 2) USED TO ESTABLISH FIX COORDINATES.

THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 10/21/2011.
1. CHANGED FAC 1 AND 2 MRA FROM 4000 TO 3100.
2. CHANGED HOLDING PATTERN 3 MIN ALT FROM 3100 TO 4000.

**DEVELOPED BY:** **DATE:** 10/21/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (AISHAT NAUZO)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**
**FPO:** CEN
**ARTCC:** ZFW
**ATC FACILITY:** REGIONAL/FWS
**OTHER:**

QUALITY
A
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** UBOSE **STATE:** TX **COUNTRY:** US

**LATITUDE/LONGITUDE:** 323915.50N/0971834.09W **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 17R | | | KFWS | FORT WORTH | TX (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 04/05/2012

**REASON FOR REVISION:**
FIX MOVED 644.81 FT NORTH, COORDINATES UPDATED.
REMOVED FAC 1.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 11/03/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (AISHAT NAUZO)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZFW
**ATC FACILITY:** REGIONAL/FWS
**OTHER:**

QUALITY 1 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WANON **STATE:** TX **COUNTRY:** US

**LATITUDE/LONGITUDE:** 324616.91N/0972837.99W **TYPE:** WP

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

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

**REMARKS:**
NAME CHANGED FROM WEGOG TO WANON.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 17R | | | KFWS | FORT WORTH | TX (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 04/05/2012

**REASON FOR REVISION:**
REMOVED FAC 1.
FIX MOVED 3.67 NM NORTHWEST; COORDINATES UPDATED.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 11/03/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (AISHAT NAUZO)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZFW
**ATC FACILITY:** REGIONAL/FWS
**OTHER:**

QUALITY 5 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WOVPI **STATE:** TX **COUNTRY:** US

**LATITUDE/LONGITUDE:** 324616.33N/0971833.13W **TYPE:** WP

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

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

**REMARKS:**
NAME CHANGED FROM WADBI TO WOVPI.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 17R | | | KFWS | FORT WORTH | TX (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 04/05/2012

**REASON FOR REVISION:**
REMOVED FAC 1.
FIX MOVED 1.11 NM NORTH; COORDINATES UPDATED.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 11/03/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (AISHAT NAUZO)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZFW
**ATC FACILITY:** REGIONAL/FWS
**OTHER:**

INFO ONLY

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** FEVER **STATE:** TX **COUNTRY:** US

**LATITUDE/LONGITUDE:** 322024.94N/0973944.19W **TYPE:** INT, DME

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

**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 | GLEN ROSE | JEN | VORTAC | L | 039.32 | 045.32 | 15.40 | 15.40 | | 3000 | 17500 |
| 2 | MILLSAP | MQP | VORTAC | H | 134.57 | 143.57 | | 28.69 | | 3000 | 17500 |

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 17R | | | KFWS | FORT WORTH | TX (US) |
| IAP | RNAV (GPS) RWY 35L | | | KFWS | FORT WORTH | TX (US) |
| STAR | GLEN ROSE | 1, 2 | | KADS | DALLAS | TX (US) |
| STAR | GLEN ROSE | 1, 2 | | KDAL | DALLAS | TX (US) |
| STAR | GLEN ROSE | 1, 2 | | KTKI | DALLAS | TX (US) |
| STAR | GLEN ROSE | 1, 2 | | KDFW | DALLAS-FORT WORTH | TX (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 3 **DATE OF REVISION:** 12/17/2009

**REASON FOR REVISION:**
ADDED NM DIST FROM FAC IN FIX MAKE-UP FACILITIES, FAC1 AND FAC2.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 07/01/2009 **OFFICE:** AVN-101 **NAME:** EUGENE NEWTON (WENDY DONCASTER)

**APPROVED BY:** **DATE:** **OFFICE:** AVN-120 **NAME:** SUE CRUMB

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** CEN
**ARTCC:** ZFW
**ATC FACILITY:** REGIONAL/FWS
**OTHER:**

# TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **FORT WORTH** STATE: **TX**

AIRPORT NAME: **FORT WORTH SPINKS** ID: **KFWS**

PROCEDURE: **RNAV (GPS) RWY 17R** AMDT: **1**

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 **3.01**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **180.11**
4. High Terrain in **FINAL** segment containing 1000' point **749**
5. Distance from **THLD** to 1500' point **4.70**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.95**
7. True Course of **FINAL** segment containing 1500' point **180.11**
8. High Terrain in **FINAL** segment containing 1500' point **749**
9. Threshold Coordinates (if straight-in) ... **323421.05N** / **0971834.76W**
10. ARP Coordinates ..... **323354.82N** / **0971829.08W**
11. Runway Approach End and distance furthest from ARP.....RWY **R35L**
    Distance **0.56** NM
12. FAF Coordinates ..... **323915.50W** / **0971834.09W**
    (Click to Select)

**REMARKS: Approach/Drawing attached.**