

# RADIO FIX AND HOLDING DATA RECORD

NAME: JIMUX

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 284246.24N/0982419.36W

TYPE: WP

AIRSPACE DOCKET: 10-ASW-15

FIX TYPE OF ACTION: ESTABLISH

**FIX RESTRICTIONS:**

RNAV (GPS) RWY 14, 0XA5, CAMPBELLTON, TX

**HOLDING:**

**HOLDING TYPE OF ACTION:**

FIX USE:  
USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 14

FAC

PAT

AIRPORT IDENT  
0XA5

CITY  
CAMPBELLTON

STATE  
TX (US)

REQUIRED CHARTING: SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 10/20/2011

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/27/2010

OFFICE: AVN-120

NAME: DONALD LANIER

APPROVED BY:

DATE: 08/05/2011

OFFICE: AVN-120

NAME: GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZHU  
ATC FACILITY: SAT APP CON  
OTHER:

QUALITY  
39  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: LEMIG

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 285837.91N/0983003.52W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 23-ASW-16

FIX TYPE OF ACTION: MODIFY

## FIX MAKE-UP FACILITIES:

| FAC | NAME         | IDENT | TYPE   | CLASS | MAG BRG | TRUE BRG | DME   | DIST FROM FAC NM | MRA  | MAA   |
|-----|--------------|-------|--------|-------|---------|----------|-------|------------------|------|-------|
| 1   | COTULLA      | COT   | VORTAC | VL    | 037.43  | 046.43   | 44.85 | 44.85            | 2500 | 17500 |
| 2   | THREE RIVERS | THX   | VORTAC | L     | 318.89  | 326.89   | 33.77 | 33.77            | 2000 | 17500 |
| 3   | SAN ANTONIO  | SAT   | VORTAC | H     | 174.99  | 182.99   | 39.96 | 39.96            | 3000 | 17500 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| COT       | VORTAC   | R-037          | 45       | 2500         | 5600         |

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## 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   | S   | SAT   | VORTAC | 174.99      | 354.99      | R             | 1               |     | 3000                  | 14000 | 6             | 12  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|---------|-------------------|------------------------|-----------|---------------|
| 1   | 200     | TOWER (48-008227) | 285453.00N/0982644.00W | 913       | 2C            |
| 1   | 230     | TOWER (48-010040) | 285700.00N/0983706.00W | 990       | 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   |
|----------|-------------------|---------|-----|---------------|-------------|---------|
| EN ROUTE | T499              |         |     |               |             | (US)    |
| EN ROUTE | V161              | 1, 2, 3 |     |               |             | (US)    |
| EN ROUTE | V550              | 1, 2, 3 |     |               |             | (US)    |
| EN ROUTE | V568              | 1, 2, 3 | 1   |               |             | (US)    |
| IAP      | RNAV (GPS) RWY 14 |         |     | 0XA5          | CAMPBELLTON | TX (US) |
| IAP      | RNAV (GPS) RWY 32 |         |     | KSSF          | SAN ANTONIO | TX (US) |
| STAR     | LEMIG             | 1, 2, 3 | 1   | KSAT          | SAN ANTONIO | TX (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 10/31/2024

## REASON FOR REVISION:

- DOCKET: ADDED "23-ASW-16"
- FIX MAKE-UP: FAC 1 COTULLA COT VORTAC CLASS UPDATED FROM "L" TO "VL"
- ESV: UPDATED COT VORTAC MAX ALTITUDE FROM "17500" TO "5600"
- FIX USE: ADDED "EN ROUTE T499"; UPDATED RNAV (GPS) RWY 14 FROM "SPECIAL IAP" TO "IAP"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 10/31/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

QUALITY  
39  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MILET

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 284349.68N/0984752.53W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

## FIX MAKE-UP FACILITIES:

| FAC | NAME        | IDENT | TYPE   | CLASS | MAG<br>BRG | TRUE<br>BRG | DME   | DIST FROM FAC<br>NM FEET | MRA  | MAA   |
|-----|-------------|-------|--------|-------|------------|-------------|-------|--------------------------|------|-------|
| 1   | SAN ANTONIO | SAT   | VORTAC | VH    | 190.00     | 198.00      | 57.46 | 57.46                    | 4000 | 17500 |
| 2   | COTULLA     | COT   | VORTAC | VL    | 037.43     | 046.43      | 23.34 | 23.34                    | 2500 | 17500 |
| 3   | LAREDO      | LRD   | VORTAC | VH    | 014.56     | 023.56      | 81.80 | 81.80                    | 7000 | 45000 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| SAT       | VORTAC   | R-190          | 58       | 4000         | 15700        |
| LRD       | VORTAC   | R-015          | 82       | 7000         | 15100        |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

COTULLA (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

| USE TYPE | USE TITLE         | FAC     | PAT | AIRPORT IDENT | CITY        | STATE   |
|----------|-------------------|---------|-----|---------------|-------------|---------|
| DP       | BOWIE             | 1, 2, 3 |     | KSAT          | SAN ANTONIO | TX (US) |
| DP       | BOWIE             | 1, 2, 3 |     | KSSF          | SAN ANTONIO | TX (US) |
| EN ROUTE | V17               | 1, 2    |     |               |             | (US)    |
| EN ROUTE | V550              | 2       |     |               |             | (US)    |
| IAP      | RNAV (GPS) RWY 14 |         |     | 0XA5          | CAMPBELLTON | TX (US) |

REQUIRED CHARTING: DP, EN ROUTE LOW, SPECIAL IAP, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 08/07/2025

## REASON FOR REVISION:

TYPE: REMOVED INT.

FIX MAKE-UP FACILITIES: CHANGED FAC 1 (SAT) CLASS FROM H TO VH. REMOVED FAC 2 (THX) - THX VOR MON.

REMARKS: REMOVED THREE RIVERS FROM FIX COORDINATES REMARK.

FIX USE: REMOVED FAC 3 FROM V17. REMOVED FACS 1 AND 3 FROM V550. REMOVED FAC 4 FROM BOWIE DP AT KSAT AND KSSF.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

QUALITY  
39  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: OZKUJ

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 285100.35N/0983100.67W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING<br>MIN | ALTITUDES<br>MAX | TEMPLATES<br>MIN | MAX |
|-----|-----|-------|------|-------------|----------------|------------------|------------------------|----------------|------------------|------------------|-----|
| 1   | NW  |       | WP   | 319.39      | 139.39         | R                | 4                      | 3000           | 6000             | 5                | 13  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (48-014504) | 285458.30N/0983940.00W | 1535      | 5D            |
| 1   | 310      | TOWER (48-014504) | 285458.30N/0983940.00W | 1535      | 5D            |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

| PAT | PROCEDURE TITLE   | AIRPORT IDENT | CITY        | STATE   |
|-----|-------------------|---------------|-------------|---------|
| 1   | RNAV (GPS) RWY 32 | 0XA5          | CAMPBELLTON | TX (US) |

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE         | FAC | PAT | AIRPORT IDENT | CITY        | STATE   |
|----------|-------------------|-----|-----|---------------|-------------|---------|
| IAP      | RNAV (GPS) RWY 14 |     | 1   | 0XA5          | CAMPBELLTON | TX (US) |
| IAP      | RNAV (GPS) RWY 32 |     | 1   | 0XA5          | CAMPBELLTON | TX (US) |

REQUIRED CHARTING: SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/12/2025

## REASON FOR REVISION:

CONTROLLING OBSTRUCTIONS: ADDED TOWER (48-014504) FOR PAT 1 310 KT.  
PROCEDURES REQUIRING CLIMB-IN-HOLD: ADDED RNAV (GPS) RWY 32 0XA5.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: DUSTIN HARDISON

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

QUALITY  
39  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: WAVRI

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 284520.21N/0982624.27W

TYPE: WP

AIRSPACE DOCKET: 10-ASW-15

FIX TYPE OF ACTION: ESTABLISH

**FIX RESTRICTIONS:**

RNAV (GPS) RWY 14, 0XA5, CAMPBELLTON, TX

**HOLDING:**

**HOLDING TYPE OF ACTION:**

**REMARKS:**

.54A RNP CRITERIA USED.

**FIX USE:**

USE TYPE  
IAP

USE TITLE

RNAV (GPS) RWY 14

FAC

PAT

AIRPORT IDENT

0XA5

CITY

CAMPBELLTON

STATE

TX (US)

REQUIRED CHARTING: SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 10/20/2011

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/27/2010

OFFICE: AVN-120

NAME: DONALD LANIER

APPROVED BY:

DATE: 08/05/2011

OFFICE: AVN-120

NAME: GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZHU

ATC FACILITY: SAT APP CON

OTHER:

QUALITY  
39  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: YEVUK

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 284757.95N/0983811.65W

TYPE: WP

AIRSPACE DOCKET: 10-ASW-15

FIX TYPE OF ACTION: ESTABLISH

**FIX RESTRICTIONS:**

RNAV (GPS) RWY 14, 0XA5, CAMPBELLTON, TX

**HOLDING:**

**HOLDING TYPE OF ACTION:**

FIX USE:  
USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 14

FAC

PAT

AIRPORT IDENT  
0XA5

CITY  
CAMPBELLTON

STATE  
TX (US)

REQUIRED CHARTING: SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 10/20/2011

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/27/2010

OFFICE: AVN-120

NAME: DONALD LANIER

APPROVED BY:

DATE: 08/05/2011

OFFICE: AVN-120

NAME: GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZHU  
ATC FACILITY: SAT APP CON  
OTHER:

QUALITY  
39  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: ZIVAL

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 283131.10N/0981513.08W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING<br>MIN | ALTITUDES<br>MAX | TEMPLATES<br>MIN | MAX |
|-----|-----|-------|------|-------------|----------------|------------------|------------------------|----------------|------------------|------------------|-----|
| 1   | SE  |       | WP   | 139.51      | 319.51         | R                | 4                      | 3000           | 6000             | 5                | 13  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (48-008086) | 282424.00N/0981021.00W | 737       | 2C            |
| 1   | 310      | TOWER (48-007656) | 282528.00N/0975648.00W | 882       | 2C            |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

| PAT | PROCEDURE TITLE   | AIRPORT IDENT | CITY        | STATE   |
|-----|-------------------|---------------|-------------|---------|
| 1   | RNAV (GPS) RWY 14 | 0XA5          | CAMPBELLTON | TX (US) |

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE         | FAC | PAT | AIRPORT IDENT | CITY        | STATE   |
|----------|-------------------|-----|-----|---------------|-------------|---------|
| IAP      | RNAV (GPS) RWY 14 |     | 1   | 0XA5          | CAMPBELLTON | TX (US) |
| IAP      | RNAV (GPS) RWY 32 |     | 1   | 0XA5          | CAMPBELLTON | TX (US) |

REQUIRED CHARTING: SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/12/2025

## REASON FOR REVISION:

CONTROLLING OBSTRUCTIONS: ADDED TOWER (48-007656) FOR PAT 1 310 KT.  
PROCEDURES REQUIRING CLIMB-IN-HOLD: ADDED RNAV (GPS) RWY 14 0XA5.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: DUSTIN HARDISON

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A422

NAME: RAKE MCGRAW

SIGNATURE:

QUALITY  
39  
CHECKED