

# RADIO FIX AND HOLDING DATA RECORD

NAME: ALEXANDRIA VORTAC

STATE: LA

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 311524.23N/0923003.50W

TYPE:

AIRSPACE DOCKET: 22-ASO-16

FIX TYPE OF ACTION: MODIFY

## FIX MAKE-UP FACILITIES:

| FAC | NAME       | IDENT | TYPE   | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC<br>NM FEET | MRA | MAA   |
|-----|------------|-------|--------|-------|---------|----------|-----|--------------------------|-----|-------|
| 1   | ALEXANDRIA | AEX   | VORTAC | H     |         |          |     |                          |     | 45000 |

## 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 ALTITUDES<br>MIN MAX | TEMPLATES<br>MIN MAX |
|-----|-----|-------|------|-------------|----------------|------------------|------------------------|------------------------------|----------------------|
| 1   | W   |       | WP   | 261.24      | 081.24         | R                | 4                      | 3000 6000                    | 5 6                  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (22-002369) | 311416.00N/0922748.00W | 688       | 5D            |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-3801A/B.  
 ALEXANDRIA VORTAC MAGVAR 1995/E03.

FIX USE:  
USE TYPE

| USE TYPE | USE TITLE             | FAC | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|-----------------------|-----|-----|---------------|-----------------------|---------|
| DP       | ALEXANDRIA            |     |     | KL BX         | ANGLETON/LAKE JACKSON | TX (US) |
| DP       | ALEXANDRIA            |     |     | KG LS         | GALVESTON             | TX (US) |
| DP       | ALEXANDRIA            |     |     | KAXH          | HOUSTON               | TX (US) |
| DP       | ALEXANDRIA            |     |     | KCXO          | HOUSTON               | TX (US) |
| DP       | ALEXANDRIA            |     |     | KDWH          | HOUSTON               | TX (US) |
| DP       | ALEXANDRIA            |     |     | KEFD          | HOUSTON               | TX (US) |
| DP       | ALEXANDRIA            |     |     | KHOU          | HOUSTON               | TX (US) |
| DP       | ALEXANDRIA            |     |     | KIAH          | HOUSTON               | TX (US) |
| DP       | ALEXANDRIA            |     |     | KIWS          | HOUSTON               | TX (US) |
| DP       | ALEXANDRIA            |     |     | KSGR          | HOUSTON               | TX (US) |
| DP       | ALEXANDRIA            |     |     | KTME          | HOUSTON               | TX (US) |
| DP       | ALEXANDRIA            |     |     | T41           | LA PORTE              | TX (US) |
| EN ROUTE | J50                   |     |     |               |                       | (US)    |
| EN ROUTE | J58                   |     |     |               |                       | (US)    |
| EN ROUTE | PITCH/CATCH POINT     |     |     |               |                       | (US)    |
| EN ROUTE | Q40                   |     |     |               |                       | (US)    |
| EN ROUTE | T474                  |     |     |               |                       | (US)    |
| EN ROUTE | V114                  |     |     |               |                       | (US)    |
| EN ROUTE | V212                  |     |     |               |                       | (US)    |
| EN ROUTE | V566                  |     |     |               |                       | (US)    |
| IAP      | ILS OR LOC/DME RWY 14 |     |     | KAEX          | ALEXANDRIA            | LA (US) |
| IAP      | RNAV (GPS) RWY 14     |     |     | KAEX          | ALEXANDRIA            | LA (US) |
| IAP      | RNAV (GPS) RWY 18     |     |     | KAEX          | ALEXANDRIA            | LA (US) |
| IAP      | VOR RWY 14            |     |     | KAEX          | ALEXANDRIA            | LA (US) |
| IAP      | VOR/DME RWY 32        |     |     | KAEX          | ALEXANDRIA            | LA (US) |
| IAP      | ILS OR LOC/DME RWY 27 |     |     | KESF          | ALEXANDRIA            | LA (US) |
| IAP      | RNAV (GPS) RWY 27     |     | 1   | KESF          | ALEXANDRIA            | LA (US) |
| IAP      | RNAV (GPS) RWY 9      |     |     | KESF          | ALEXANDRIA            | LA (US) |
| IAP      | VOR/DME-A             |     |     | 2R6           | BUNKIE                | LA (US) |
| IAP      | VOR-A                 |     |     | KMKV          | MARKSVILLE            | LA (US) |
| IAP      | LOC RWY 35            |     |     | KIER          | NATCHITOCHES          | LA (US) |
| IAP      | NDB RWY 35            |     |     | KIER          | NATCHITOCHES          | LA (US) |
| IAP      | RNAV (GPS) RWY 17     |     |     | KIER          | NATCHITOCHES          | LA (US) |
| IAP      | RNAV (GPS) RWY 35     |     |     | KIER          | NATCHITOCHES          | LA (US) |
| IAP      | RNAV (GPS) RWY 27     |     |     | 0R5           | WINNFIELD             | LA (US) |
| STAR     | HUDZY                 |     |     | T00           | ANAHUAC               | TX (US) |
| STAR     | OHIO                  |     |     | T00           | ANAHUAC               | TX (US) |
| STAR     | WAPPL (RNAV)          |     |     | T00           | ANAHUAC               | TX (US) |
| STAR     | HUDZY                 |     |     | KL BX         | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | OHIO                  |     |     | KL BX         | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV)          |     |     | KL BX         | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | DODJE                 |     |     | KG KY         | ARLINGTON             | TX (US) |
| STAR     | WAPPL (RNAV)          |     |     | KBYY          | BAY CITY              | TX (US) |
| STAR     | HUDZY                 |     |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | OHIO                  |     |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV)          |     |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | HUDZY                 |     |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | OHIO                  |     |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV)          |     |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | HUDZY                 |     |     | 6R3           | CLEVELAND             | TX (US) |

|      |              |      |                       |         |
|------|--------------|------|-----------------------|---------|
| STAR | OHIO         | 6R3  | CLEVELAND             | TX (US) |
| STAR | YEAGR        | KADS | DALLAS                | TX (US) |
| STAR | YEAGR        | KDAL | DALLAS                | TX (US) |
| STAR | DODJE        | KRBD | DALLAS                | TX (US) |
| STAR | YEAGR        | KTKI | DALLAS                | TX (US) |
| STAR | CEDAR CREEK  | KDFW | DALLAS-FORT WORTH     | TX (US) |
| STAR | YEAGR        | KDFW | DALLAS-FORT WORTH     | TX (US) |
| STAR | DODJE        | KLUD | DECATUR               | TX (US) |
| STAR | DODJE        | KDTH | DENTON                | TX (US) |
| STAR | DODJE        | KAFW | FORT WORTH            | TX (US) |
| STAR | DODJE        | KFTW | FORT WORTH            | TX (US) |
| STAR | DODJE        | KFWS | FORT WORTH            | TX (US) |
| STAR | DODJE        | KNFW | FORT WORTH            | TX (US) |
| STAR | HUDZY        | KGLS | GALVESTON             | TX (US) |
| STAR | OHIO         | KGLS | GALVESTON             | TX (US) |
| STAR | WAPPL (RNAV) | KGLS | GALVESTON             | TX (US) |
| STAR | DODJE        | KGPM | GRAND PRAIRIE         | TX (US) |
| STAR | HUDZY        | KAXH | HOUSTON               | TX (US) |
| STAR | OHIO         | KAXH | HOUSTON               | TX (US) |
| STAR | WAPPL (RNAV) | KAXH | HOUSTON               | TX (US) |
| STAR | HUDZY        | KCXO | HOUSTON               | TX (US) |
| STAR | OHIO         | KCXO | HOUSTON               | TX (US) |
| STAR | HUDZY        | KDWH | HOUSTON               | TX (US) |
| STAR | OHIO         | KDWH | HOUSTON               | TX (US) |
| STAR | HUDZY        | KEFD | HOUSTON               | TX (US) |
| STAR | OHIO         | KEFD | HOUSTON               | TX (US) |
| STAR | WAPPL (RNAV) | KEFD | HOUSTON               | TX (US) |
| STAR | HUDZY        | KHOU | HOUSTON               | TX (US) |
| STAR | OHIO         | KHOU | HOUSTON               | TX (US) |
| STAR | WAPPL (RNAV) | KHOU | HOUSTON               | TX (US) |
| STAR | DOOBI (RNAV) | KIAH | HOUSTON               | TX (US) |
| STAR | GESNR (RNAV) | KIAH | HOUSTON               | TX (US) |
| STAR | HUDZY        | KIAH | HOUSTON               | TX (US) |
| STAR | OHIO         | KIAH | HOUSTON               | TX (US) |
| STAR | SKNRD (RNAV) | KIAH | HOUSTON               | TX (US) |
| STAR | ZEEKK (RNAV) | KIAH | HOUSTON               | TX (US) |
| STAR | HUDZY        | KIWS | HOUSTON               | TX (US) |
| STAR | OHIO         | KIWS | HOUSTON               | TX (US) |
| STAR | WAPPL (RNAV) | KIWS | HOUSTON               | TX (US) |
| STAR | HUDZY        | KLJV | HOUSTON               | TX (US) |
| STAR | OHIO         | KLJV | HOUSTON               | TX (US) |
| STAR | WAPPL (RNAV) | KLJV | HOUSTON               | TX (US) |
| STAR | HUDZY        | KSGR | HOUSTON               | TX (US) |
| STAR | OHIO         | KSGR | HOUSTON               | TX (US) |
| STAR | WAPPL (RNAV) | KSGR | HOUSTON               | TX (US) |
| STAR | HUDZY        | KTME | HOUSTON               | TX (US) |
| STAR | OHIO         | KTME | HOUSTON               | TX (US) |
| STAR | WAPPL (RNAV) | KTME | HOUSTON               | TX (US) |
| STAR | HUDZY        | T41  | LA PORTE              | TX (US) |
| STAR | OHIO         | T41  | LA PORTE              | TX (US) |
| STAR | WAPPL (RNAV) | T41  | LA PORTE              | TX (US) |
| STAR | DODJE        | KLNC | LANCASTER             | TX (US) |
| STAR | HUDZY        | T78  | LIBERTY               | TX (US) |
| STAR | OHIO         | T78  | LIBERTY               | TX (US) |
| STAR | YEAGR        | KHQZ | MESQUITE              | TX (US) |
| STAR | DODJE        | KJWY | MIDLOTHIAN/WAXAHACHIE | TX (US) |
| STAR | YEAGR        | F46  | ROCKWALL              | TX (US) |
| STAR | WAPPL (RNAV) | KARM | WHARTON               | TX (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 24

**DATE OF REVISION:** 10/05/2023

**REASON FOR REVISION:**

AIRSPACE DOCKET: ADDED 22-ASO-16.

HOLDING PATTERN ASSOCIATION: DELETED UNP.

HOLDING RESTRICTIONS: REMOVED " UPLANNED HOLDING AUTHORIZED AT OR ABOVE FL230."

FIX USE: ENROUTE, REMOVED V245 AND V570, ADDED T474.

FIX USE: IAP, CHANGED KAEX VOR/DME RWY 14 TO VOR RWY 14, REMOVED KPOL RADAR-1, CHANGED KMKV VOR/DME-A TO KMKV VOR-A, , REMOVED KMKV NDB RWY 4, REMOVED KOPL NDB RWY 18.

STAR: REMOVED DUMPY STAR FROM KADS, KDAL, KTKI, DFW, KHQZ.

REQUIRED CHARTING: ADDED CONTROLLER LOW AND CONTROLLER HIGH.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A423

**NAME:** GALE SHELTON

**APPROVED BY:**

**DATE:** 10/05/2023

**OFFICE:** AJV-A423

**NAME:** ALLAN WILL

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

Information Only

NAME: BUGZY

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 294544.12N/0951352.56W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|--------------|-----|-----|---------------|-----------------------|---------|
| STAR     | WAPPL (RNAV) |     |     | T00           | ANAHUAC               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KL BX         | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KBYY          | BAY CITY              | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KGLS          | GALVESTON             | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KAXH          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KEFD          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KHOU          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KIWS          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KL VJ         | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KSGR          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KTME          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | T41           | LA PORTE              | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KARM          | WHARTON               | TX (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/30/2015

## REASON FOR REVISION:

UPDATE FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/28/2014

OFFICE: AJV-353

NAME: THOMAS KIRKPATRICK

APPROVED BY:

DATE: 04/30/2015

OFFICE: AJV-353

NAME: GEORGE GONZALEZ

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

Information Only

NAME: HUDZY

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 300612.81N/0944831.66W

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 | MRA FEET | MAA   |
|-----|---------|-------|---------|-------|---------|----------|-------|------------------|----------|-------|
| 1   | HUMBLE  | IAH   | VORTAC  | H     | 067.44  | 072.44   | 29.31 | 29.31            | 4000     | 45000 |
| 2   | TRINITY | MHF   | VOR/DME | VL    | 347.54  | 354.54   | 33.50 | 33.50            | 4000     | 17500 |
| 3   | LUFKIN  | LFK   | VORTAC  | VH    | 179.32  | 184.32   |       | 63.56            | 5000     | 45000 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| LFK       | VORTAC   | R-179          | 64       | 5000         | 14800        |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

HUMBLE (FAC 1) AND TRINITY (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

| USE TYPE | USE TITLE    | FAC     | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|--------------|---------|-----|---------------|-----------------------|---------|
| STAR     | HUDZY        | 1, 2, 3 |     | T00           | ANAHUAC               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | T00           | ANAHUAC               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KLBX          | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KLBX          | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KBYV          | BAY CITY              | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | 6R3           | CLEVELAND             | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KGLS          | GALVESTON             | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KGLS          | GALVESTON             | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KAXH          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KAXH          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KCXO          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KDWH          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KEFD          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KEFD          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KHOU          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KHOU          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KIAH          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KIWS          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KIWS          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KLVJ          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KLVJ          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KSGR          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KSGR          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | KTME          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KTME          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | T41           | LA PORTE              | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | T41           | LA PORTE              | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 |     | T78           | LIBERTY               | TX (US) |
| STAR     | WAPPL (RNAV) |         |     | KARM          | WHARTON               | TX (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 04/17/2025

## REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: FAC 2 MHF VOR/DME CLASS CHANGED FROM L TO VL, FAC 3 LFK VORTAC CHANGED FROM H TO VH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER WILKINSON

APPROVED BY:

DATE: 03/13/2025

OFFICE: AVJ-A432

NAME: CASIMIR TABAKA

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

Information Only

NAME: PLKTN

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293706.63N/0951329.76W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|--------------|-----|-----|---------------|-----------------------|---------|
| STAR     | WAPPL (RNAV) |     |     | T00           | ANAHUAC               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KLBX          | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KBYY          | BAY CITY              | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KGLS          | GALVESTON             | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KAXH          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KEFD          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KHOU          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KIWS          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KLJV          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KSGR          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KTME          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | T41           | LA PORTE              | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KARM          | WHARTON               | TX (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/30/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/28/2014

OFFICE: AJV-353

NAME: THOMAS KIRKPATRICK

APPROVED BY:

DATE: 04/30/2015

OFFICE: AJV-353

NAME: GEORGE GONZALEZ

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZHU

ATC FACILITY: HOUSTON APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

Information Only

NAME: PUSHN

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 295137.79N/0951201.76W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|--------------|-----|-----|---------------|-----------------------|---------|
| STAR     | WAPPL (RNAV) |     |     | T00           | ANAHUAC               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KL BX         | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KBYY          | BAY CITY              | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KGLS          | GALVESTON             | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KAXH          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KEFD          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KHOU          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KIWS          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KL VJ         | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KSGR          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KTME          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | T41           | LA PORTE              | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KARM          | WHARTON               | TX (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/30/2015

## REASON FOR REVISION:

UPDATE FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/28/2014

OFFICE: AJV-353

NAME: THOMAS KIRKPATRICK

APPROVED BY:

DATE: 04/30/2015

OFFICE: AJV-353

NAME: GEORGE GONZALEZ

SIGNATURE:

DISTRIBUTION:

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

## RADIO FIX AND HOLDING DATA RECORD

NAME: SWEUP

STATE: LA

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 315823.07N/0924038.00W

TYPE: WP

AIRSPACE DOCKET: 24-ASW-1

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|--------------|-----|-----|---------------|-----------------------|---------|
| EN ROUTE | Q33          |     |     |               |                       | (US)    |
| STAR     | WAPPL (RNAV) |     |     | T00           | ANAHUAC               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KL BX         | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KBYY          | BAY CITY              | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KGLS          | GALVESTON             | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KAXH          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KEFD          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KHOU          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KIWS          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KLVJ          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KSGR          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KTME          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | T41           | LA PORTE              | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KARM          | WHARTON               | TX (US) |

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/17/2025

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 03/13/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: SWWAA

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 300031.45N/0950925.36W

TYPE: WP, INT, 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   | HUMBLE  | IAH   | VORTAC  | H     | 067.44     | 072.44      | 10.31 | 10.31               |      | 2000 | 45000 |
| 2   | TRINITY | MHF   | VOR/DME | L     | 315.41     | 322.41      |       | 34.97               |      | 2000 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

HUMBLE (FAC 1) AND TRINITY (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

| USE TYPE | USE TITLE    | FAC  | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|--------------|------|-----|---------------|-----------------------|---------|
| STAR     | HUDZY        | 1, 2 |     | T00           | ANAHUAC               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | T00           | ANAHUAC               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KL BX         | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KL BX         | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KBYY          | BAY CITY              | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | 54T           | BAYTOWN               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KHPY          | BAYTOWN               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | 6R3           | CLEVELAND             | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KGLS          | GALVESTON             | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KGLS          | GALVESTON             | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KAXH          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KAXH          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KCXO          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KDWH          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KEFD          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KEFD          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KHOU          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KHOU          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KIAH          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KIWS          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KIWS          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KL VJ         | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KL VJ         | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KSGR          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KSGR          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | KTME          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KTME          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | T41           | LA PORTE              | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | T41           | LA PORTE              | TX (US) |
| STAR     | HUDZY        | 1, 2 |     | T78           | LIBERTY               | TX (US) |
| STAR     | WAPPL (RNAV) |      |     | KARM          | WHARTON               | TX (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 10/10/2019

## REASON FOR REVISION:

REMOVED FAC 3 FROM FIX MAKE-UP FACILITIES AND HUDZY FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-5442

NAME: DAN POWELL

APPROVED BY:

DATE: 07/01/2019

OFFICE: AJV-5440

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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



## RADIO FIX AND HOLDING DATA RECORD

NAME: VILLI

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 293740.49N/0952312.28W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY    | STATE   |
|----------|--------------|-----|-----|---------------|---------|---------|
| STAR     | BAYYY (RNAV) |     |     | KHOU          | HOUSTON | TX (US) |
| STAR     | BELLR (RNAV) |     |     | KHOU          | HOUSTON | TX (US) |
| STAR     | CESAN (RNAV) |     |     | KHOU          | HOUSTON | TX (US) |
| STAR     | KIDDZ (RNAV) |     |     | KHOU          | HOUSTON | TX (US) |
| STAR     | TKNIQ (RNAV) |     |     | KHOU          | HOUSTON | TX (US) |
| STAR     | WAPPL (RNAV) |     |     | KHOU          | HOUSTON | TX (US) |

REQUIRED CHARTING: STAR, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 10/05/2023

## REASON FOR REVISION:

1. FIX USE: REMOVED CESAN (RNAV) AND WAPPL (RNAV) STARS @ T00, KLBX, KBYY, 54T, KHPY, KGLS, KAXH, KEFD, KIWS, KLVJ, KSGR, KTME, T41, AND KARM. REMOVED TKNIQ (RNAV) STAR @ KLBX, 54T, KHPY, KGLS, KAXH, KEFD, KIWS, KLVJ, KSGR, KTME, AND T41.
2. REQUIRED CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW AND CONTROLLER HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: MICHAEL GARRITY

APPROVED BY:

DATE: 10/05/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: WAPPL

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 301354.84N/0941950.33W

TYPE: WP, INT, 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   | ALEXANDRIA  | AEX   | VORTAC  | H     | 234.51     | 237.51      | 112.75 | 112.75              |      | 13000 | 45000 |
| 2   | LUFKIN      | LFK   | VORTAC  | H     | 155.17     | 160.17      | 59.18  | 59.18               |      | 5000  | 45000 |
| 3   | SABINE PASS | SBI   | VOR/DME | VL    | 328.02     | 335.02      |        | 36.02               |      | 5000  | 17500 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| AEX       | VORTAC   | R-235          | 113      | 13000        | 14600        |
| LFK       | VORTAC   | R-155          | 60       | 5000         | 14800        |

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 ALTITUDES<br>MIN | MAX   | TEMPLATES<br>MIN | MAX |
|-----|-----|-------|--------|-------------|----------------|------------------|--------------------|-----|--------------------------|-------|------------------|-----|
| 1   | NE  | AEX   | VORTAC | 054.51      |                | L                |                    | 10  | 14000                    | 45000 | 15               | 31  |
| 2   | NE  |       | WP     | 053.89      | 233.89         | L                |                    | 10  | 22000                    | 45000 | 19               | 30  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 230      | TOWER (48-014621) | 300102.20N/0943247.89W | 2049      | 1D            |

## REASON FOR NONSTANDARD HOLDING:

PAT 1 AT REQUEST

PAT 2 AT REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

## REMARKS:

ALEXANDRIA (FAC 1) USED TO ESTABLISH FIX COORDINATES.  
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

## FIX USE:

| USE TYPE | USE TITLE    | FAC     | PAT | AIRPORT IDENT | CITY                  | STATE   |
|----------|--------------|---------|-----|---------------|-----------------------|---------|
| STAR     | HUDZY        | 1, 2, 3 | 1   | T00           | ANAHUAC               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | T00           | ANAHUAC               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KLBX          | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KLBX          | ANGLETON/LAKE JACKSON | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KBYY          | BAY CITY              | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | 54T           | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | 54T           | BAYTOWN               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KHPY          | BAYTOWN               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KHPY          | BAYTOWN               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | 6R3           | CLEVELAND             | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KGLS          | GALVESTON             | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KGLS          | GALVESTON             | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KAXH          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KAXH          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KCXO          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KDWH          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KEFD          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KEFD          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KHOU          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KHOU          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KIAH          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KIWS          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KIWS          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KLVJ          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KLVJ          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KSGR          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KSGR          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | KTME          | HOUSTON               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KTME          | HOUSTON               | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | T41           | LA PORTE              | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | T41           | LA PORTE              | TX (US) |
| STAR     | HUDZY        | 1, 2, 3 | 1   | T78           | LIBERTY               | TX (US) |
| STAR     | WAPPL (RNAV) |         | 2   | KARM          | WHARTON               | TX (US) |

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

Information Only

RECORD REVISION NUMBER: 3                      DATE OF REVISION: 04/17/2025

REASON FOR REVISION:  
1. FIX MAKE-UP FACILITIES: FAC 3 SBI VOR/DME CLASS CHANGED FROM L TO VL.  
2. PATTERNS: PAT 1 CHANGED MIN HOLDING ALTITUDE FROM 2200 TO 14000 AND MIN TEMPLATE FROM 20 TO 15.  
3. PATTERNS: PAT 2 CHANGED MIN TEMPLATE FROM 15 TO 19.  
4. CONTROLLING OBSTRUCTIONS: PAT 1 OBSTACLE DATA CHANGED FROM 265,TOWER (48-005838), 300306.00N/0943138.00W, 2042, 2D TO 230, TOWER (48-014621), 300102.20N/0943247.89W, 2049, 1D.  
5. CONTROLLING OBSTRUCTIONS: DELETED PAT 2 OBSTACLE AND ASSOCIATED DATA.  
6. REMARKS: DELETED "HOLDING PATTERN 2 USED MIN TEMPLATE 15 FOR 10 DME LEG LENGTH AT ATC REQUEST."

|                                   |                  |                  |                             |
|-----------------------------------|------------------|------------------|-----------------------------|
| INITIATED BY:                     | DATE:            | ORGANIZATION:    | NAME:                       |
| OFFICE OF PRIMARY RESPONSIBILITY: |                  | AJV-A432         | NAME: CHRISTOPHER WILKINSON |
| APPROVED BY:                      | DATE: 03/13/2025 | OFFICE: AJV-A432 | NAME: CASIMIR TABAKA        |
|                                   | SIGNATURE:       |                  |                             |