

RADIO FIX AND HOLDING DATA RECORD

NAME: BLAME

STATE: TX

COUNTRY: US

LATITUDE/LONGITUDE: 274404.09N/0993544.01W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM NM | FAC FEET | MRA | MAA |
|-----|--------|-------|--------|-------|---------|----------|-------|--------------|----------|------|-------|
| 1 | LAREDO | LRD | VORTAC | H | 319.26 | 328.26 | 18.00 | 18.00 | | 2600 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG TIME | LENGTH DME | HOLDING MIN | ALTITUDES MAX | TEMPLATES MIN | MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|----------|------------|-------------|---------------|---------------|-----|
| 1 | NW | LRD | VORTAC | 319.26 | 139.26 | L | 1 | 0 | 2600 | 8000 | 5 | 11 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-----------------|------------------------|-----------|---------------|
| 1 | 200 | TOWER (44-B217) | 274017.00N/0993634.00W | 985 | 5D |
| 1 | 230 | TOWER (44-B356) | 273928.00N/0993511.00W | 1162 | 5D |
| 1 | 265 | TOWER (44-2487) | 274023.00N/0993952.00W | 1550 | 5D |

REASON FOR NONSTANDARD HOLDING:

PAT 1 TO REMAIN WITHIN U.S. AIRSPACE

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|---------------------|-----|-----|---------------|--------|---------|
| IAP | LOC/DME BC RWY 35L | | | KLRD | LAREDO | TX (US) |
| IAP | VOR OR TACAN RWY 32 | | 1 | KLRD | LAREDO | TX (US) |

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

UPDATED FIX USE TO CURRENT FORMAT.
MOVED LIMITED HOLDING NOTE FROM REMARKS TO HOLDING RESTRICTIONS.

DEVELOPED BY: DATE: 03/07/2016 OFFICE: AJV-5421 NAME: JACOB POWERS (WILLIAM MORGAN)

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: GEORGE GONZALEZ

SIGNATURE: *Digitally signed by*
JACOB POWERS

DISTRIBUTION: NFDC
FPO: FTW
ARTCC: ZHU
ATC FACILITY:
OTHER:
Jun 16, 2016



RADIO FIX AND HOLDING DATA RECORD

NAME: HEVUM

STATE: TX

COUNTRY: US

LATITUDE/LONGITUDE: 272057.32N/0991757.32W

TYPE: 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 | FAC FEET | MRA | MAA |
|-----|--------|-------|--------|-------|---------|----------|-------|------------------|----------|------|-------|
| 1 | LAREDO | LRD | VORTAC | H | 131.75 | 140.75 | 10.00 | | | 2500 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|---------------------|-----|-----|---------------|--------|---------|
| EN ROUTE | V17 | 1 | | | | (US) |
| IAP | LOC/DME BC RWY 35L | 1 | | KLRD | LAREDO | TX (US) |
| IAP | VOR OR TACAN RWY 32 | 1 | | KLRD | LAREDO | TX (US) |

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

UPDATED FIX USE TO CURRENT FORMAT.

DEVELOPED BY:

DATE: 03/07/2016

OFFICE: AJV-5420

NAME: JACOB POWERS (WILLIAM MORGAN)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: GEORGE GONZALEZ

SIGNATURE:

Digitally signed by

JACOB POWERS

Jun 16, 2016

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY:
OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: LAREDO VORTAC

STATE: TX

COUNTRY: US

LATITUDE/LONGITUDE: 272843.45N/0992503.64W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM | MRA FEET | MAA |
|-----|--------|-------|--------|-------|---------|----------|-----|------------------|----------|-------|
| 1 | LAREDO | LRD | VORTAC | H | | | | | | 45000 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG TIME | LENGTH DME | HOLDING ALTITUDES MIN | MAX | TEMPLATES MIN | MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|----------|------------|-----------------------|-------|---------------|-----|
| 1 | SE | LRD | VORTAC | 132.00 | 312.00 | R | 1-1 1/2 | | 2200 | 17500 | 4 | 16 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | TOWER (48-008419) | 272716.26N/0992516.95W | 997 | 1A |
| 1 | 310 | TOWER (48-001919) | 273113.00N/0993120.00W | 1449 | 5D |

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|-----|-------------------------|---------------|--------|---------|
| 1 | VOR/DME OR TACAN RWY 14 | KLRD | LAREDO | TX (US) |

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING PATTERN PROTECTED AIRSPACE OVERLAP MEXICO BOUNDARY.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-------------------------|-----|-----|---------------|-----------------------|---------|
| DP | INDUSTRY | | | KLBX | ANGLETON/LAKE JACKSON | TX (US) |
| DP | INDUSTRY | | | KGLS | GALVESTON | TX (US) |
| DP | INDUSTRY | | | KAXH | HOUSTON | TX (US) |
| DP | INDUSTRY | | | KCXO | HOUSTON | TX (US) |
| DP | INDUSTRY | | | KDWH | HOUSTON | TX (US) |
| DP | INDUSTRY | | | KEFD | HOUSTON | TX (US) |
| DP | INDUSTRY | | | KHOU | HOUSTON | TX (US) |
| DP | INDUSTRY | | | KIAH | HOUSTON | TX (US) |
| DP | INDUSTRY | | | KIWS | HOUSTON | TX (US) |
| DP | INDUSTRY | | | KSGR | HOUSTON | TX (US) |
| DP | INDUSTRY | | | KTME | HOUSTON | TX (US) |
| DP | INDUSTRY | | | KT41 | LA PORTE | TX (US) |
| DP | BOWIE | | | KSAT | SAN ANTONIO | TX (US) |
| DP | MILET (RNAV) | | | KSAT | SAN ANTONIO | TX (US) |
| DP | BOWIE | | | KSSF | SAN ANTONIO | TX (US) |
| DP | MILET (RNAV) | | | KSSF | SAN ANTONIO | TX (US) |
| EN ROUTE | J21 | | | | | (US) |
| EN ROUTE | J22 | | | | | (US) |
| EN ROUTE | V359 | | | | | (US) |
| EN ROUTE | V17 | | | | | TX (US) |
| IAP | NDB RWY 13 | | | KHBV | HEBBRONVILLE | TX (US) |
| IAP | RNAV (GPS) RWY 13 | | | KHBV | HEBBRONVILLE | TX (US) |
| IAP | ILS OR LOC/DME RWY 17R | | | KLRD | LAREDO | TX (US) |
| IAP | VOR OR TACAN RWY 32 | | | KLRD | LAREDO | TX (US) |
| IAP | VOR/DME OR TACAN RWY 14 | | 1 | KLRD | LAREDO | TX (US) |
| STAR | LEMIG | | | KSAT | SAN ANTONIO | TX (US) |
| STAR | LEMIG | | | KSKF | SAN ANTONIO | TX (US) |
| STAR | LEMIG | | | KSSF | SAN ANTONIO | TX (US) |
| STAR | LEMIG | | | KRND | UNIVERSAL CITY | TX (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

UPDATED FIX USE.
CANCELLED NBD RWY 17L.

DEVELOPED BY:

DATE: 03/07/2016

OFFICE: AJV-5421

NAME: JACOB POWERS (WILLIAM MORGAN)



APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: GEORGE GONZALEZ

SIGNATURE:

*Digitally signed by***JACOB POWERS**

Jun 16, 2016

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZFW

ATC FACILITY: LRD ATCT

OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: NELEE

STATE: TX

COUNTRY: US

LATITUDE/LONGITUDE: 270850.66N/0990655.48W

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 | MAA |
|-----|--------|-------|--------|-------|---------|----------|-------|------------------|------|-------|
| 1 | LAREDO | LRD | VORTAC | H | 131.75 | 140.75 | 25.57 | 25.57 | 2500 | 17500 |
| 2 | ALICE | ALI | VOR | L | 233.00 | 239.00 | | 68.32 | 5500 | 17500 |

EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| ALI | VOR | R-233 | 69 | 5500 | 18000 |

FIX RESTRICTIONS:

MRA ALI 5500

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 | SE | LRD | VORTAC | 131.75 | 311.75 | L | 1 1/2 | | 15000 | 17500 | 16 | 17 |
| 2 | SE | | WP | 134.75 | 314.75 | L | | 4 | 3000 | 6000 | 5 | 6 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 265 | TOWER (48-001919) | 273113.00N/0993120.00W | 1449 | 5D |
| 2 | 200 | AAO | 270245.00N/0985933.00W | 771 | 4E |

REASON FOR NONSTANDARD HOLDING:

PAT 1 TO REMAIN CLEAR OF KINGSVILLE MOA
PAT 2 TO REMAIN CLEAR OF KINGSVILLE MOA

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER KINGSVILLE MOA.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.
LAREDO (FAC 1) AND ALICE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|---------------------|------|-----|---------------|--------------|---------|
| EN ROUTE | V17 | 1, 2 | | | | TX (US) |
| IAP | RNAV (GPS) RWY 17 | | | KBKS | FALFURRIAS | TX (US) |
| IAP | RNAV (GPS) RWY 35 | | | KBKS | FALFURRIAS | TX (US) |
| IAP | RNAV (GPS) RWY 13 | | 2 | KHBV | HEBBRONVILLE | TX (US) |
| IAP | RNAV (GPS) RWY 32 | | | KLRD | LAREDO | TX (US) |
| IAP | RNAV (GPS) RWY 35L | | | KLRD | LAREDO | TX (US) |
| IAP | VOR OR TACAN RWY 32 | 1 | 1 | KLRD | LAREDO | TX (US) |
| OTHER | SUA AVOIDANCE | | | KHBV | HEBBRONVILLE | TX (US) |

REQUIRED CHARTING: MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

MOVED LIMITED HOLDING NOTE FROM REMARKS TO HOLDING RESTRICTIONS.

DEVELOPED BY:

DATE: 03/08/2016

OFFICE: AJV-5421

NAME: JACOB POWERS (WILLIAM MORGAN)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: GEORGE GONZALEZ

SIGNATURE: Digitally signed by
JACOB POWERS

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY:
OTHER:
Jun 16, 2016

QUALITY
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CHECKED