

# RADIO FIX AND HOLDING DATA RECORD

NAME: CAMIM

STATE:

COUNTRY: MX

ICAO REGION CODE: MM

LATITUDE/LONGITUDE: 255253.10N/0970914.50W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 31

FAC

PAT

AIRPORT IDENT  
KBRO

CITY  
BROWNSVILLE

STATE  
TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/30/2020

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZHU  
ATC FACILITY: BRO TOWER, VALLEY APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: DANIO

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 255252.92N/0972349.26W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 31

FAC

PAT

AIRPORT IDENT  
KBRO

CITY  
BROWNSVILLE

STATE  
TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

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AJV-A421

NAME: STEVEN DOUGHERTY

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OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZHU  
ATC FACILITY: BRO TOWER, VALLEY APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: FIRTA

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 260317.84N/0973511.84W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NW		WP	312.32	132.32	L	4	2000	6000	4	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-007992)	260303.00N/0973111.00W	549	5D

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 AVOID MEXICAN BORDER

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 13		1	KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 31		1	KBRO	BROWNSVILLE	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 01/30/2020

**REASON FOR REVISION:**

ADDED TO FIX USE - ADDED RNAV (GPS) RWY 31 TO KBRO.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: CEN  
ARTCC: ZHU  
ATC FACILITY: BRO TOWER  
OTHER: VALLEY APP CON

# RADIO FIX AND HOLDING DATA RECORD

NAME: RELAX

STATE: TX

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 261529.69N/0972312.66W

TYPE: WP, INT, DME

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	FEET	MRA	MAA
1	BROWNSVILLE	BRO	VORTAC	H	349.21	358.21	20.00	20.00		1800	17500
2	HARLINGEN	HRL	VOR/DME	L	078.03	083.03		14.42		1800	17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## 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	N	BRO	VORTAC	349.21	169.21	L	1		2000	14000	4	11
2	N		WP	355.21	175.21	L		4	1900	14000	4	11

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	WINDMILL (48-034748)	261509.39N/0972658.15W	511	5D
2	200	WINDMILL (48-034748)	261509.39N/0972658.15W	511	5D

## REASON FOR NONSTANDARD HOLDING:

PAT 1 PROVIDE PROTECTION FROM V70  
PAT 2 PROVIDE PROTECTION FROM V70

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

BROWNSVILLE (FAC 1) AND HARLINGEN (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V163	1, 2				(US)
IAP	ILS OR LOC RWY 13	1, 2		KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 13			KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 18		2	KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 31			KBRO	BROWNSVILLE	TX (US)
IAP	ILS OR LOC RWY 18R		2	KHRL	HARLINGEN	TX (US)
IAP	ILS RWY 18R (SA CAT I & SA CAT II)		2	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) RWY 18L		2	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 18R		2	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 31			KHRL	HARLINGEN	TX (US)
IAP	RNAV (RNP) Z RWY 18R		2	KHRL	HARLINGEN	TX (US)
IAP	VOR-A	1, 2	1	KPIL	PORT ISABEL	TX (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 07/11/2024

## REASON FOR REVISION:

- HOLDING PATTERNS: DELETED PATTERN 2 AND ALL ASSOCIATIONS - STANDARDIZATION AND CONSOLIDATION.
- HOLDING PATTERNS: DELETED PATTERN 4 AND ALL ASSOCIATIONS - STANDARDIZATION AND CONSOLIDATION.
- FIX USE: RNAV (GPS) RWY 18 PAT NUMBER CHANGED FROM "PAT 3" TO "PAT 2" - NUMBER CHANGED DUE TO CONSOLIDATING OLD PATTERNS USED AT KHRL.
- FIX USE: USE TITLE: CHANGED FROM "RNAV (GPS) Y RWY 17L" TO "RNAV (GPS) Y RWY 18L" - DUE TO MAGVAR CHANGE/RWY NUMBERING.
- FIX USE: USE TITLE: DELETED RNAV (GPS) RWY 36R.
- FIX USE: USE TITLE: CHANGED FROM "RNAV (GPS) Y RWY 17R" TO "RNAV (GPS) Y RWY 18R" - DUE TO MAGVAR CHANGE/RWY NUMBERING.
- FIX USE: USE TITLE: CHANGED FROM "RNAV (GPS) Y RWY 35L" TO "RNAV (GPS) Y RWY 36L" - DUE TO MAGVAR CHANGE/RWY NUMBERING.
- FIX USE: USE TITLE: CHANGED FROM "RNAV (RNP) Z RWY 17R" TO "RNAV (RNP) Z RWY 18R" - DUE TO MAGVAR CHANGE/RWY NUMBERING.
- FIX USE: ADDED "ILS OR LOC RWY 18R" AND ALL ASSOCIATIONS - PER ATC REQUEST.
- FIX USE: ADDED "ILS RWY 18R (SA CAT I & CAT II)" AND ALL ASSOCIATIONS - PER ATC REQUEST.
- FIX USE: DELETED "RNAV (GPS) Y RWY 36L AND ALL ASSOCIATIONS - PER ATC REQUEST.
- FIX USE: RNAV (GPS) Y RWY 18R AND RNAV (RNP) Z RWY 18R: PATTERN CHANGED FROM "4" TO "2".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:	AJV-A431	NAME: WESTLEY OWENS
APPROVED BY:	DATE: 07/11/2024	OFFICE: AJV-A431
		NAME: ERIC N SUSKI
SIGNATURE:		

# RADIO FIX AND HOLDING DATA RECORD

NAME: SAMUE

STATE:

COUNTRY: MX

ICAO REGION CODE: MM

LATITUDE/LONGITUDE: 254644.00N/0971455.03W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

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FAC

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KBRO

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NAME: MARLON ROBINSON

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ATC FACILITY: BRO TOWER, VALLEY APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: SHOOL

STATE:

COUNTRY: MX

ICAO REGION CODE: MM

LATITUDE/LONGITUDE: 255015.92N/0972058.28W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 31

FAC

PAT

AIRPORT IDENT  
KBRO

CITY  
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NAME: MARLON ROBINSON

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OTHER: