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
LATEX (IAF)	ZIPIV (NOPT) (FB)	115.09 / 16.13	2000
JIMIE (IAF)	ZIPIV (NOPT) (FB)	161.83 / 20.47	2000
MANNY (IAF)	ZIPIV (NOPT) (FB)	224.92 / 18.12	2000
ZIPIV (IF/IAF)	ATAGE (FB)	175.63 / 6.26	1400
ATAGE (FAF)	WEVEN/1.50 NM TO RW17R (FB)	175.63 / 2.62	
WEVEN/1.50 NM TO RW17R	RW17R (MAP) (FO)	175.63 / 1.50	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW17R

CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2000 DIRECT RELAX AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD N ZIPIV, RT, 175.63 INBOUND, 2000 FT. IN LIEU OF PT (IAF)
3. FAC: 175.63 FAF: ATAGE DIST FAF TO MAP: 4.12 THLD: 4.12
4. MIN. ALT: ZIPIV 2000, ATAGE 1400, WEVEN/1.50 NM TO RW17R 560*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1400 GS ALT AT: ATAGE 1400 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 55.4 34:1 IS CLEAR
8. MSA FROM: RW17R 2600

ADDITIONAL FLIGHT DATA:
HOLD N, LT, 173.21 INBOUND.
CHART FAS OBST: 145 TOWER 261539N/0973941W
DISTANCE TO THLD FROM 200 HATH: 0.45 NM.
CHART VDP AT 0.98 MILES TO RW17R*
*LNAV ONLY.
WAAS CHANNEL # 50131
REFERENCE PATH ID: W17A
LTP HAE: -12.4 M

MAG VAR: 5E EPOCH YEAR: 2005

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	234	2400	200	234	2400	200	234	2400	200	234	2400	200			
LNAV/VNAV DA	284	2400	250	284	2400	250	284	2400	250	284	2400	250			
LNAV MDA	400	2400	366	400	2400	366	400	3500	366	400	3500	366			
CIRCLING	500	1	464	500	1	464	500	1 1/2	464	680	2	644			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 2C (36F) OR ABOVE 54C (130F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PORT ISABEL ALTIMETER SETTING AND INCREASE ALL DA 42 FEET AND ALL MDA 60 FEET; INCREASE LNAV CATS C AND D VISIBILITY TO RVR 4000, (SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE	ELEVATION: 36 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 17R
HARLINGEN, TX	AIRPORT NAME: VALLEY INTL	RNAV	RNAV (GPS) Y RWY 17R, AMDT 2	AMDT: 1
				DATED 10/30/2003

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	X ZHU, VALLEY APP CON, HRL TOWER, AMGR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: JILL OLSON (STEPHEN PETERSON)	FIFO AJV-353	DATE: 03/26/2012

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

CHANGES:

1. ADDED LPV MINS.
2. ADDED INITIAL FROM JIMIE.
3. LOWERED PFAF FROM 1500 TO 1400 AND DECREASED FINAL LENGTH FROM 4.37NM TO 4.12NM.
4. ADDED STEPDOWN FIX WEVEN IN LNAV FINAL.
5. CHANGED MISSED APPROACH FROM "CLIMB TO 2000 DIRECT AVUDE WP AND VIA 086.34 TRACK TO CUBAD WP AND VIA 044.67 TRACK TO RELAX WP AND HOLD" TO "CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2000 DIRECT RELAX AND HOLD."
6. LOWERED LNAV/VNAV DA FROM 360 TO 284.
7. REDUCED LNAV CATS C AND D VISIBILITY FROM RVR 5000 TO RVR 3500.
8. ADDED BACKUP ALTIMETER BY NOTE AND INOPERATIVE MALSR NOTE WHEN USING BACKUP ALTIMETER.
9. REMOVED "GPS OR RNP-0.3 REQUIRED" NOTE.
10. REMOVED WAAS SYMBOL FROM ADDITIONAL FLIGHT DATA.
11. CHANGED FIX NAME FROM BOMVE TO ZIPIV.

REASONS:

1/3/5/11. FPT REQUEST.
2. DESIGN TO ALLOW ENTRIES FROM THE NORTH/ATC APPROVED.
4. AAO APPLICATION OUTSIDE OF 20,000FT FROM THLD/TO MAINTAIN CURRENT MINIMA.
6. 8260.54A OBSTACLE EVALUATION SHOWED ALL SURFACES ARE CLEAR.
7. APPLIED 8260.3B CHG 20 TABLE 3-5A.
8. APPLIED 8260.19D PARA 855F.
9. NOT REQUIRED FOR RNAV (GPS) PROCEDURES.
10. AIPORT NOW HAS WAAS COVERAGE.

08/09/2012. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/08/2012.
ON THE 8260-10, CHANGED THRE ELEV FROM 36 TO 34 TO MATCH 8260-3.

-3 PDF EDITS
1. ADDED (FAF) TO ATAGE IN TERMINAL ROUTES.
2. REMOVED STEPDOWN ALTITUDE FROM TERMINAL ROUTES.

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW17R (MAP)	500 MSL	175.63	500
500 MSL	RELAX (FO)		2000

NOTES, (CONT.):
AND CIRCLING CAT D VISIBILTY 1/4 MILE.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000, LNAV ALL CATS VISIBILITY TO RVR 5500.
CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING PORT ISABEL ALTIMETER SETTING, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500, LNAV CATS A AND B VISIBILITY TO RVR 5500 AND CATS C AND D VISIBILITY TO 1 1/4 MILE.
CHART NOTE: BARO-VNAV NA WHEN USING PORT ISABEL ALTIMETER SETTING.
CHART NOTE: VDP NA WITH PORT ISABEL ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JIMIE ON V70 NORTHWEST BOUND AND V407 NORTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MANNY ON V163 NORTHBOUND.

CITY AND STATE	ELEVATION: 36 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 17R
HARLINGEN, TX	AIRPORT NAME: VALLEY INTL	RNAV	RNAV (GPS) Y RWY 17R, AMDT 2	AMDT: 1
				DATED: 10/30/2003

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

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:

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHRL
RUNWAY	RW17R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	261425.3795N
LTP/FTP LONGITUDE	0973930.8560W
LTP/FTP ELLIPSOIDAL HEIGHT	-00124
FPAP LATITUDE	261256.0200N
FPAP LONGITUDE	0973931.9500W
THRESHOLD CROSSING HEIGHT (TCH)	00055.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	4E3FA6CF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00104
FPAP ORTHOMETRIC HEIGHT	+00104

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

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:

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.

ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP       123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAEAENRT   ATAGE K40    W     N26183303W097392784                    E0044     NAR           ATAGE
         SUSAEAENRT   JIMIE K40    C   L N26444966W097443489                    E0045     NAR           JIMIE
         SUSAEAENRT   LATEX K40    C   L N26325753W097545597                    E0045     NAR           LATEX
         SUSAEAENRT   MANNY K40    C   L N26363298W097235665                    E0043     NAR           MANNY
         SUSAEAENRT   RELAX K40    C   L N26152969W097231266                    E0043     NAR           RELAX
         SUSAEAENRT   WEVEN K40    W     N26155564W097392976                    E0044     NAR           WEVEN
         SUSAEAENRT   ZIPIV K40    W     N26244998W097392323                    E0044     NAR           ZIPIV

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KHRLK4AHRL     0     083YHN26133760W097391850E005000036         1800018000C    MNAR    VALLEY INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KHRLK4FR17RY AJIMIE 010JIMIEK4EA0E  A    IF                                          18000                A JS
         SUSAP KHRLK4FR17RY AJIMIE 020ZIPIVK4EA0EE B 010TF                    16180205    + 02000                         A JS
         SUSAP KHRLK4FR17RY ALATEX 010LATEXK4EA0E  A    IF                                          18000                A JS
         SUSAP KHRLK4FR17RY ALATEX 020ZIPIVK4EA0EE B 010TF                    11510161    + 02000                         A JS
         SUSAP KHRLK4FR17RY AMANNY 010MANNYK4EA0E  A    IF                                          18000                A JS
         SUSAP KHRLK4FR17RY AMANNY 020ZIPIVK4EA0EE B 010TF                    22490181    + 02000                         A JS
         SUSAP KHRLK4FR17RY AZIPIV 010ZIPIVK4EA0EE AR   HF                    17560040    + 02000     18000               A JS
         SUSAP KHRLK4FR17RY R      010ZIPIVK4EA0E  I    IF                                + 02000     18000               A JS
         SUSAP KHRLK4FR17RY R      020ATAGEK4EA1E  F 051TF                    17560063    + 01400                 RW17R K4PGA JS
         SUSAP KHRLK4FR17RY R      020ATAGEK4EA2WALPV       ALNAV/VNAV ALNAV                                                JS
         SUSAP KHRLK4FR17RY R      021WEVENK4EA0E S  031TF                    17560026    V 0056000567        -300            A JS
         SUSAP KHRLK4FR17RY R      030RW17RK4PG0GY M 031TF                    17560015      00089             -300            A JS
         SUSAP KHRLK4FR17RY R      040         0  M     CA                    1756        + 00500                         A JS
         SUSAP KHRLK4FR17RY R      050RELAXK4EA0EY  L   DF                                + 02000                         A JS
         SUSAP KHRLK4FR17RY R      060RELAXK4EA0EE  L   HM                    17320040    + 02000                         A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY   123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KHRLK4GRW17R   0083011756 N26142538W097393086+0000    -0012400034000055150I

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP       123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KHRLK4PR17RY RW17R001Y0000W17A0N2614253795W09739308560-001240300N2612560200W0973931950010675022400055 4F4003504E3FA6CF
```

CITY AND STATE	ELEVATION: 36 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 17R
HARLINGEN, TX	AIRPORT NAME: VALLEY INTL	RNAV	RNAV (GPS) Y RWY 17R, AMDT 2	AMDT: 1
				DATED: 10/30/2003

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

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:

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.

```
        SUSAP KHRLK4PR17RY RW17R002E      +00104+00104LPV      50131
                  1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KHRLK4SRW17RK4PG              0   18018002625                                                                          M
```

CITY AND STATE	ELEVATION: 36 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 17R
HARLINGEN, TX	AIRPORT NAME: VALLEY INTL	RNAV	RNAV (GPS) Y RWY 17R, AMDT 2	AMDT: 1
				DATED: 10/30/2003

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

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

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.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	JIMIE	JIMIE	010	IAF	IF		FB					
	JIMIE	ZIPIV	020		TF		FB	1.0	161.8(166.8T)	020.5	AA 02000	
	LATEX	LATEX	010	IAF	IF		FB					
	LATEX	ZIPIV	020		TF		FB	1.0	115.1(120.1T)	016.1	AA 02000	
	MANNY	MANNY	010	IAF	IF		FB					
	MANNY	ZIPIV	020		TF		FB	1.0	224.9(229.9T)	018.1	AA 02000	
	ZIPIV	ZIPIV	010	IAF	HF	R	FO		175.6(180.6T)	004.0	AA 02000	
		ZIPIV	010	FACF	IF		FB				AA 02000	
		ATAGE	020	FAF	TF		FB	0.5	175.6(180.6T)	006.3	AA 01400	
		WEVEN	021	SDF	TF		FB	0.3	175.6(180.6T)	002.6	AA 00560 GS 00567	
		RW17R	030	MAP	TF		FO	0.3	175.6(180.6T)	001.5	AT 00089	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		175.6(180.6T)		AA 00500	
	RELAX	050		DF	L	FO				AA 02000	
	RELAX	060		HM	L	FO		173.2(178.2T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ATAGE	N261833.03	W0973927.84	N2618.551	W09739.464
	JIMIE	N264449.66	W0974434.89	N2644.828	W09744.582
	LATEX	N263257.53	W0975455.97	N2632.959	W09754.933
	MANNY	N263632.98	W0972356.65	N2636.550	W09723.944
	RELAX	N261529.69	W0972312.66	N2615.495	W09723.211
	WEVEN	N261555.64	W0973929.76	N2615.927	W09739.496
	ZIPIV	N262449.98	W0973923.23	N2624.833	W09739.387
	RW17R	N261425.38	W0973930.86	N2614.423	W09739.514

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW17R	00034	55

CITY AND STATE	ELEVATION: 36 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 17R
HARLINGEN, TX	AIRPORT NAME: VALLEY INTL	RNAV	RNAV (GPS) Y RWY 17R, AMDT 2	AMDT: 1
				DATED: 10/30/2003

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

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.
INITIAL	LATEX	ZIPIV	1. TOWER (48-021292)	263155.20N/0974959.50W	737 (5D)	1000	AT263	2000
			2. TERRAIN	262932.00N/0975228.00W	107 (100)		AS1500	1600
INITIAL	JIMIE	ZIPIV	3. TOWER (48-003885)	264113.38N/0974552.62W	524 (2C)	1000	AT476	2000
			4. TERRAIN	264430.00N/0974603.00W	33 (0)		AS1500	1500
INITIAL	MANNY	ZIPIV	5. TOWER (48-012875)	262609.00N/0974003.00W	523 (2C)	1000	AT477	2000
			6. TERRAIN	263451.00N/0972927.00W	33 (0)		AS1500	1500
INTERMEDIATE	ZIPIV (IF/IAF)	ATAGE	5. TOWER (48-012875)	262609.00N/0974003.00W	523 (2C)	500	AT377	1400
			7. TERRAIN	261843.00N/0974017.00W	39 (0)		AS1000	1000
INTERMEDIATE	ZIPIV (IF/IAF)	ATAGE	8. AAO	261843.00N/0974017.00W	239 (2C)	500	AT661	1400
			7. TERRAIN	261843.00N/0974017.00W	39 (0)		AS1000	1000
INTERMEDIATE: LPV	ZIPIV (IF/IAF)	ATAGE	9. AAO	261957.00N/0974106.00W	230 (4E)	500	AC98 AT572	1400
			10. TERRAIN	261957.00N/0974106.00W	30 (0)		AS1000	1000
FINAL: LPV	ATAGE	RW17R				ASC		234/200
FINAL: LNAV/VNAV	ATAGE	RW17R				ASC		284/250
2. HOLD-IN-LIEU-OF-PT	ZIPIV	P-4	5. TOWER (48-012875)	262609.00N/0974003.00W	523 (2C)	1000	AT477	2000
			12. TERRAIN	263239.00N/0973706.00W	33 (0)		AS1500	1500
3. MISSED APPROACH — MAP:	DA / DA / RW17R	RELAX				ASC		2000
			13. TOWER (48-010916)	260901.50N/0973058.74W	340 (2C)	1000		1400
ELEV:	66/123/300		14. TERRAIN	260921.00N/0974000.00W	40 (0)		AS1500	1500

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL		OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
CATEGORY A	1.3 NM	350	464		15. TANK (48-004834)	261325.00N/0973953.00W	191 (1B)	300		500
CATEGORY B	1.5 NM	450	464		15. TANK (48-004834)	261325.00N/0973953.00W	191 (1B)	300		500
CATEGORY C	1.7 NM	450	464		15. TANK (48-004834)	261325.00N/0973953.00W	191 (1B)	300		500
CATEGORY D	2.3 NM	550	644		16. TOWER (48-002527)	261234.00N/0974146.00W	362 (1A)	300		680
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 (48-004005)	224/ 12.9	1547 (1A)	2600					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HARLINGEN, TX	ELEVATION: 36 AIRPORT NAME: VALLEY INTL	RNAV	RNAV (GPS) Y RWY 17R, AMDT 2	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
VALLEY APP CON HRL TOWER		N W S	OTHER: ASOS	SOURCE: KHRL / KPIL
		F A A		DISTANCE: 0 / 17.08
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 24 / 24
X V H F X U H F H F	LOCATION: KHRL			ADJUSTMENT: 0 / 42

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 17R (PCL)
	X	HIRL 17R, 35L
	X	MIRL 31, 35R, 13, 17L
	X	REIL 13, 17L
		TDZ
		C/LINE
	X	OTHER (SPECIFY) VASI-4L 31, 13, 35L

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 17R, 35L
	INSTRUMENT	NPI-G 31, 35R, 13, 17L
7. RUNWAY VISUAL RANGE	APPROACH	17R
	MIDFIELD	
	ROLL OUT	

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 34.0
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 55.4

9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: JILL OLSON (STEPHEN PETERSON)	DATE: 03/26/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KHRL 36.3FT, KPIL 18.6FT
RA = 41.77FT.
SEE ATTACHED AIRSPACE LETTER.

ASSUMED VEGETATION HEIGHT: 50FT PER CENTRAL FPT.

LPV SLOPE - 34:1
LNAV/VNAV SLOPE - 21.711:1

AVERAGE COLD TEMPERATURE BASED ON 5-YEAR HISTORY (2006-2010).
ACT: 2C

AVERAGE HIGH TEMPERATURE BASED ON 5-YEAR HISTORY (2006-2010).
AHT: 38C

ISA DEVIATION: -12.93C
AIRPORT ISA: 14.93C

QUALITY CHECKED 1

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV	ATAGE	WEVEN/1.50 NM TO	8. AAO	261843.00N/0974017.00W	239 (2C)	250	RA42 DG29	560
		RW17R						
FINAL: LNAV STEPDOWN	WEVEN/1.50 NM TO	RW17R	11. TOWER (48-014654)	261538.56N/0973940.70W	145 (1A)	250		400
	RW17R							

3. MISSED APPROACH									
	MAP:								
	ELEV:								

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL					
CATEGORY B	1.5 NM		450						
CATEGORY C	1.7 NM		450						
CATEGORY D	2.3 NM		550						
CATEGORY E	4.5 NM		550						

5. MINIMUM SAFE ALTITUDES PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HARLINGEN, TX	ELEVATION: 36 AIRPORT NAME: VALLEY INTL	RNAV	RNAV (GPS) Y RWY 17R, AMDT 2	ASW

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
SATISFACTORY ON:		N W S	OTHER:	SOURCE:
				DISTANCE:
		F A A		HOURS REMOTE OPERATION:
		A / C		
V H F / U H F / H F	LOCATION:			ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:		
	MONITOR POINT:		
	HRS OPTN:	CAT 1	
		CAT 3	

5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD	FT. FROM THRESHOLD
		ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: ATAGE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 261833.03N/0973927.84W **TYPE:** WP

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

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

REMARKS:
8260.54A PFAF FORMULA 2-16B APPLIED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 17R			KHRL	HARLINGEN	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
UPDATED FIX COORDINATES; FIX MOVED 1566.15FT SOUTH.
REMOVED FAC 1.
ADDED PFAF FORMULA NOTE.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/22/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: VALLEY APP CON/HRL TOWER
OTHER:

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LATEX **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 263257.53N/0975455.97W **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	MC ALLEN	MFE	VOR/DME	H	028.90	037.90	28.49	28.49		1700	17500
2	HARLINGEN	HRL	VOR/DME	L	318.53	323.53		23.84		1700	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V20	1, 2				(US)
IAP	RNAV (GPS) RWY 17L			KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 17R			KHRL	HARLINGEN	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
ADDED DIST FROM FAC IN NM FOR FAC 1.
ADDED DIST FROM FAC IN NM FOR FAC 2.
CHANGED FAC 2 TRUE BRG FROM 323.49 TO 323.53.
CHANGED FAC 1 MRA FROM 1000 TO 1700.
CHANGED FAC 2 MRA FROM 1000 TO 1700.
REMOVED FAC 3.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/22/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: VALLEY APP CON/HRL TOWER
OTHER:

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: RELAX **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 261529.69N/0972312.66W **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	DIST FROM FAC FEET	MRA	MAA
1	BROWNSVILLE	BRO	VORTAC	H	349.21	358.21	20.00	20.00		1500	17500
2	HARLINGEN	HRL	VOR/DME	L	078.02	083.02		14.40		1500	17500

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	N	BRO	VORTAC	349.21	169.21	L	1		1600	14000	4	11
2	N		WP	349.20	169.20	L		4	2000	14000	4	11
3	N		WP	351.21	171.21	L		4	1900	14000	4	11
4	N		WP	353.21	173.21	L		4	2000	14000	4	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-013761)	261931.00N/0972526.00W	510	5D
2	200	TOWER (48-013761)	261931.00N/0972526.00W	510	5D
3	200	TOWER (48-013761)	261931.00N/0972526.00W	510	5D
4	200	TOWER (48-013761)	261931.00N/0972526.00W	510	5D

REASON FOR NONSTANDARD HOLDING:
PAT 1 PROVIDE PROTECTION FROM V70
PAT 2 PROVIDE PROTECTION FROM V70
PAT 3 PROVIDE PROTECTION FROM V70
PAT 4 PROVIDE PROTECTION FROM V70.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V163	1, 2				
IAP	ILS OR LOC RWY 13R	1, 2		KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 13R			KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 17		3	KBRO	BROWNSVILLE	TX (US)
IAP	RNAV (GPS) RWY 17L		2	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) RWY 31			KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 17R		4	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 35L			KHRL	HARLINGEN	TX (US)
IAP	RNAV (RNP) Z RWY 17R		4	KHRL	HARLINGEN	TX (US)
IAP	VOR-A	1, 2	1	KPIL	PORT ISABEL	TX (US)
IAP	VOR/DME-B	1, 2	1	KPIL	PORT ISABEL	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
CHANGED PAT 2 MINIMUM HOLDING ALTITUDE FROM 1600 TO 2000.
ADDED PAT 4.
ADDED REASON FOR NONSTANDARD HOLDING FOR PAT 4.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZHU
ATC FACILITY: VALLEY APP CON/BRO TOWER/HRL TOWER

RADIO FIX AND HOLDING DATA RECORD

NAME: WEVEN **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 261555.64N/0973929.76W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 17R			KHRL	HARLINGEN	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 03/22/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: VALLEY APP CON/HRL TOWER
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZIPIV **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 262449.98N/0973923.23W **TYPE:** WP

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

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	N		WP	355.63	175.63	R		4	2000	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-012875)	262609.00N/0974003.00W	523	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
NAME CHANGED FROM BOMVE TO ZIPIV.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 17R		1	KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 35L		1	KHRL	HARLINGEN	TX (US)
IAP	RNAV (RNP) Z RWY 17R			KHRL	HARLINGEN	TX (US)
IAP	RNAV (RNP) Z RWY 35L		1	KHRL	HARLINGEN	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
CHANGED FIX NAME FROM BOMVE TO ZIPIV.
REMOVED FAC 1.
CHANGED PAT 1 MIN/MAX TEMPLATES FROM 5/7 TO 4/6.
UPDATED PAT 1 OBSTACLE NUMBER TO CURRENT FORMAT (OBSTACLE SAME AS PREVIOUS).
MOVED LIMITED HOLDING NOTE FROM REMARKS TO HOLDING RESTRICTIONS.
ADDED PRECIPITOUS TERRAIN NOTE.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEPHEN PETERSON)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: VALLEY APP CON/HRL TOWER
OTHER:

QUA

RADIO FIX AND HOLDING DATA RECORD

NAME: JIMIE **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 264449.66N/0974434.89W **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	MC ALLEN	MFE	VOR/DME	H	028.90	037.90	43.53	43.53		4000	17500
2	HARLINGEN	HRL	VOR/DME	L	346.02	351.02	31.37	31.37		1700	17500
3	BROWNSVILLE	BRO	VORTAC	H	329.15	338.15	53.08	53.08		4000	17500
4	CORPUS CHRISTI	CRP	VORTAC	H	184.00	193.00		71.01		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BRO	VORTAC	R-329	54	4000	17500
CRP	VORTAC	R-184	72	6000	17500
MFE	VOR/DME	R-029	44	4000	14600

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

REMARKS:
BROWNSVILLE (FAC 3) AND MC ALLEN (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-20	1				(US)
EN ROUTE	V-407	2				(US)
EN ROUTE	V-70	3				(US)
IAP	RNAV (GPS) RWY 14			KEBG	EDINBURG	TX (US)
IAP	RNAV (GPS) RWY 32			KEBG	EDINBURG	TX (US)
IAP	RNAV (GPS) RWY 35			KBKS	FALFURRIAS	TX (US)
IAP	RNAV (GPS) RWY 13			KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 17R			KHRL	HARLINGEN	TX (US)
IAP	DIAMOND O RANCH - NDB-A (SPECIAL)			KXS93	SANTA ELENA	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
DELETED FAC 4 BATVE, TX
ADDED FAC 4 CRP
UPDATED ESV DATA
ADDED DISTANCE FROM FAC FOR FAC'S 1, 2, 3, 4
UPDATED FIX USE.
FIX MOVED 12.71 FEET NORTH.

INFO ONLY

DEVELOPED BY: **DATE:** 11/30/2011 **OFFICE:** AJV-311 **NAME:** TOBY HUFF (STEVE VANCAMP)

APPROVED BY: **DATE:** **OFFICE:** AJV-311 **NAME:** RAY NUSSEAR

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: FTW
ARTCC: ZHU
ATC FACILITY: VALLEY APCH
OTHER:

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: MANNY **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 263632.98N/0972356.65W **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	MC ALLEN	MFE	VOR/DME	H	050.95	059.95	52.30	52.30		5000	17500
2	BROWNSVILLE	BRO	VORTAC	H	349.21	358.21		41.00		1700	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BRO	VORTAC	R-349	41	1700	17500
MFE	VOR/DME	R-051	53	5000	17500

FIX RESTRICTIONS:
MRA V13-163 5000 NORTHBOUND

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V13	1, 2				(US)
EN ROUTE	V163	1, 2				(US)
IAP	RNAV (GPS) RWY 17L			KHRL	HARLINGEN	TX (US)
IAP	RNAV (GPS) Y RWY 17R			KHRL	HARLINGEN	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 10/20/2011

REASON FOR REVISION:
CHANGED MRA TO 1700 FOR BRO.
CHANGED MIN ALT FOR BRO ESV TO 1700.

DEVELOPED BY: **DATE:** 06/22/2011 **OFFICE:** AJV-311 **NAME:** ERIC POWELL

APPROVED BY: **DATE:** 08/04/2011 **OFFICE:** AJV-311 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZHU
ATC FACILITY: HRL
OTHER: VALLEY APP CON, BRO ATCT

INFO ONLY

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **HARLINGEN** STATE: **TX**

AIRPORT NAME: **VALLEY INTL** ID: **KHRL**

PROCEDURE: **RNAV (GPS) Y RWY 17R** AMDT: **2**

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 **2.86**
   (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 **180.63**
4. High Terrain in **FINAL** segment containing 1000' point **34**
5. Distance from **THLD** to 1500' point **9.38**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **5.66**
7. True Course of **INTERMEDIATE** segment containing 1500' point **180.63**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **34**
9. Threshold Coordinates (if straight-in) ... **261425.38N** / **0973930.86W**
10. ARP Coordinates ..... **261337.60N** / **0973918.50W**
11. Runway Approach End and distance furthest from ARP.....RWY **17R**
    Distance **0.82** NM
12. FAF Coordinates ..... **261833.03N** / **0973927.84W**
    (Click to Select)

REMARKS: Approach/Drawing attached.