

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										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW13 CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2000 DIRECT FIRTA AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 229 AAO 255700N/0972900W CHART: 460 TOWER 255858N/0973039W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.28 MILES TO RW13* *LNAV ONLY. WAAS CHANNEL # 63231 REFERENCE PATH ID: W13A CHART CIRCLING ICON LTP HAE: -16.4 M					
RELAX		BACAC (FB)		216.93 / 11.27				2000							
BACAC (IAF)		FIRTA (NOPT) (FB)		222.35 / 5.00				2000							
BRO VORTAC		FIRTA (FO)		301.47 / 13.85				2000							
HRL VOR/DME (IAF)		FIRTA (NOPT) (FB)		158.21 / 11.01				2000							
FIRTA (IF/IAF)		SANUE (FB)		132.32 / 6.21				1900							
SANUE (FAF)		RW13 (MAP) (FO)		132.36 / 5.74				1900							
RW13 (MAP)		500 MSL		132.36				500							
500 MSL		FIRTA (FO)						2000							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW FIRTA, LT, 132.32 INBOUND, 2000 FT. IN LIEU OF PT (IAF) 3. FAC: 132.36 FAF: SANUE DIST FAF TO MAP: 5.74 THLD: 5.74 4. MIN. ALT: FIRTA 2000, SANUE 1900 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1900 GS ALT AT: SANUE 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS CLEAR 8. MSA FROM: RW13 2600										MAG VAR: 3E		EPOCH YEAR: 2020			
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	219	2400	200	219	2400	200	219	2400	200	219	2400	200			
LNAV/VNAV DA	373	3000	354	373	3000	354	373	3000	354	373	3000	354			
LNAV MDA	480	2400	461	480	2400	461	480	5000	461	480	5000	461			
CIRCLING	480	1	458	540	1	518	540	1 1/2	518	680	2	658			
NOTES: CHART NOTE: CIRCLING TO RWY 18 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 3C (38F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BRO VORTAC ON AIRWAY RADIALS 258 CW 329. (CONTINUED ON PAGE 2)															
CITY AND STATE BROWNSVILLE, TX		ELEVATION: 22 TDZE: 19 AIRPORT NAME: BROWNSVILLE/SOUTH PADRE ISLAND INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, ORIG				SUP: RNAV (GPS) RWY 13R					
										AMDT: 2A					
										DATED 10/16/2014					



ALL AFFECTED PROCEDURES REVIEWED? <div><input checked="" type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>ROUTINE</div>	
COORDINATED WITH: <div><div>ATA <input checked="" type="checkbox"/></div><div>AAT <input type="checkbox"/></div><div>ALPA <input checked="" type="checkbox"/></div><div>APA <input checked="" type="checkbox"/></div><div>AOPA <input checked="" type="checkbox"/></div><div>NBAA <input checked="" type="checkbox"/></div><div>OTHER (specify) <input checked="" type="checkbox"/> ZHU, BRO ATCT, VALLEY APP CON, ST AV DIR, APT MGR.</div></div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY <i>Digitally signed by</i>					
NAME: <div>JOHN R. ROSARIO</div>				FIFO AJV-5421	DATE: 06/15/2015
APPROVED BY					
NAME: <div>GEORGE GONZALEZ</div> <div>MANAGER</div>				FIFO AJV-5420	DATE:
CHANGES:					
REASONS:					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE PORT ISABEL ALTIMETER SETTING AND INCREASE LPV DA TO 257 FEET AND LNAV/VNAV DA TO 411 FEET AND ALL MDA 40 FEET; INCREASE LNAV/VNAV VISIBILITY ALL CATS TO RVR 4500, LNAV VISIBILITY CAT C AND D TO RVR 5500.

CHART NOTE: VDP AND BARO VNAV NA WHEN USING PORT ISABEL ALTIMETER SETTING.

CHART PLANVIEW NOTE AT BACAC: MAX 210 KIAS.

CHART PLANVIEW NOTE AT FIRTA: MAX 180 KIAS.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 MILE.

CHART PLANVIEW NOTE: LIMIT MISSED APPROACH TO 245 KIAS.

QUALITY
22
CHECKED

CITY AND STATE
BROWNSVILLE, TX

ELEVATION: 22 TDZE: 19
AIRPORT NAME:
BROWNSVILLE/SOUTH PADRE ISLAND INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 13, ORIG

SUP: **RNAV (GPS) RWY 13R**
AMDT: **2A**
DATED: **10/16/2014**

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <input type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input type="checkbox"/>	APA <input type="checkbox"/>	AOPA <input type="checkbox"/>	NBAA <input type="checkbox"/>
OTHER (specify) <input type="checkbox"/> _____					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - 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.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBRO
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	255446.1610N
LTP/FTP LONGITUDE	0972552.6935W
LTP/FTP ELLIPSOIDAL HEIGHT	-00164
FPAP LATITUDE	255342.5360N
FPAP LONGITUDE	0972443.3055W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0496
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 35EE7591

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00052
FPAP ORTHOMETRIC HEIGHT	+00052

QUALITY
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CITY AND STATE BROWNSVILLE, TX	ELEVATION: 22 AIRPORT NAME: BROWNSVILLE/SOUTH PADRE ISLAND INTL	TDZE: 19	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 13, ORIG	SUP: RNAV (GPS) RWY 13R
					AMDT: 2A
					DATED: 10/16/2014

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <div><input type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>	ALPA <div><input type="checkbox"/></div>	APA <div><input type="checkbox"/></div>	AOPA <div><input type="checkbox"/></div>
NBAA <div><input type="checkbox"/></div>		OTHER (specify) <div><input type="checkbox"/></div> <div></div>			
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

QUALITY
22
CHECKED

CITY AND STATE	ELEVATION:	TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:				AMDT:
					DATED:

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: ATA AAT ALPA APA AOPA NBAA OTHER (specify) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
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.			
FEEDER		RELAX		BACAC		1. WINDMILL		261030.75N/0972827.39W		523 (5D)		1000		AT477		2000			
						(48-034499)													
						2. TERRAIN		260524.00N/0972819.00W		33 (0)				AS1500		1500			
INITIAL		BACAC		FIRTA		3. TOWER (48-007992)		260303.00N/0973111.00W		549 (5D)		1000		AT451		2000			
						4. TERRAIN		260230.00N/0973312.00W		49 (0)				AS1000		1000			
FEEDER		BRO VORTAC		FIRTA		3. TOWER (48-007992)		260303.00N/0973111.00W		549 (5D)		1000		AT451		2000			
						5. TERRAIN		255921.00N/0973206.00W		62 (100)				AS1500		1600			
INITIAL		HRL VOR/DME		FIRTA		6. TOWER (48-007748)		260828.00N/0973826.00W		305 (5D)		1000		AT695		2000			
						7. TERRAIN		260427.00N/0973730.00W		49 (0)				AS1500		1500			
INTERMEDIATE		FIRTA (IF/IAF)		SANUE		3. TOWER (48-007992)		260303.00N/0973111.00W		549 (5D)		500		AT851		1900			
						5. TERRAIN		255921.00N/0973206.00W		63 (100)				AS1500		1600			
FINAL: LPV		SANUE		RW13								ASC				219/200			
FINAL: LNAV/VNAV		SANUE		RW13		8. TOWER (48-009221)		255427.50N/0972617.13W		128 (1A)		161		XP84		373/354			
FINAL: LNAV		SANUE		RW13		9. AAO		255700.00N/0972900.00W		229 (2C)		250				480			
2. HOLD-IN-LIEU-OF-PT		FIRTA		P-4		3. TOWER (48-007992)		260303.00N/0973111.00W		549 (5D)		1000		AT451		2000			
						10. TERRAIN		255921.00N/0973206.00W		62 (100)				AS1500		1600			
3. MISSED APPROACH	MAP:		DA / DA / RW13		FIRTA								ASC				2000		
	ELEV:		51/212/380				3. TOWER (48-007992)		260303.00N/0973111.00W		549 (5D)		1000		AT451		2000		
						11. TERRAIN		255921.00N/0973312.00W		63 (100)				AS1500		1600			
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	458	12. TOWER (48-014685)		255310.00N/0972524.40W		130 (2C)		300		SI		480	
CATEGORY B		1.5 NM			450		518	13. TANK (48-014770)		255329.00N/0972326.00W		180 (5D)		300		AC50		540	
CATEGORY C		1.7 NM			450		518	13. TANK (48-014770)		255329.00N/0972326.00W		180 (5D)		300		AC50		540	
CATEGORY D		2.3 NM			550		658	14. TOWER (48-008833)		255428.00N/0972953.00W		327 (5D)		300		AC50		680	
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES								PRIMARY NAVAID: RW13											
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
360-360		TOWER (48-		290/25.0		1547 (1A)		2600											
CITY AND STATE		BROWNSVILLE, TX		ELEVATION: 22		AIRPORT NAME:		BROWNSVILLE/SOUTH PADRE ISLAND		FACILITY		RNAV		PROCEDURE AND AMENDMENT NO:		RNAV (GPS) RWY 13, ORIG		REGION	
						INTL												ASW	

QUALITY
22
CHECKED

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:																											
1. COMMUNICATIONS WITH:					2. WEATHER SERVICE					3. ALTIMETER SETTING					PRECIPITOUS TERRAIN EVALUATION COMPLETED.																						
VALLEY APP CON ZHU ARTCC CRP TOWER							N W S		OTHER: ASOS					SOURCE:KBRO / KPIL					TERPS PARAGRAPH 289 APPLIED TO 460 TOWER 255858N/0973039W																		
							F A A							DISTANCE: 0 / 16.16																							
							A / C							HOURS REMOTE OPERATION: 24 / 24																							
SATISFACTORY ON:										LOCATION: KBRO										ADJUSTMENT: 0/38																	
4. MONITOR STATUS		PRIMARY NAVAID:																		RNAV FINAL DOES NOT MATCH ILS FINAL. ILS GLIDESLOPE IS 2.75/TCH 57.8 WHICH IS NON-STANDARD AND REQUIRES AFS APPROVAL. OPTIMUM OF 3 DEGREES AND TCH 55 WAS USED FOR THIS PROCEDURE.																	
		MONITOR POINT:																																			
		HRS OPTN:		CAT 1																										LNAV/VNAV DA WAS NOT ADJUSTED LOWER THAN CURRENT. IT IS POLICY TO NOT LOWER THESE MINIMUMS.							
				CAT 3																ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.81NM CAT C: 2.84NM CAT D: 3.70NM																	
5. APPROACH & RUNWAY LIGHTING				ALS																		SEE ATTACHED AIRSPACE LETTER.															
				(S) SALS																																	
		X		MALSR 13 (PCL)																																	
		X		HIRL 13, 31																																	
		X		MIRL 18, 36																																	
				REIL																																	
				TDZ																																	
				C/LINE																																	
		X		OTHER (SPECIFY) PAPI-4L 18, 31																		VEGETATION HEIGHT = 30 FT, ALL AREAS PRESSURE PATTERNS ARE THE SAME KBRO: 22 MSL KPIL: 19 MSL															
6. RUNWAY MARKINGS		BASIC																																			
		ALL WEATHER PIR-G 13, 31																																			
		INSTRUMENT NPI-G 18, 36																																			
7. RUNWAY VISUAL RANGE		APPROACH 13																		ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS: RWY 18 20:1 57 TREE (KBRO0031) 255501.36N/0972542.03W (1.94) 71 TREE (KBRO0034) 255504.16N/0972539.64W (1.41)																	
		MIDFIELD																																			
		ROLL OUT																																			
8. GLIDE PATH		GP ANGLE: 3.00								ELEV RWY THRESHOLD:17.1										KBROT0125 PENETRATES POFZ. PER FPT EMAIL IS FIXED BY FUNCTION																	
		DISTANCE FROM RWY:								ELEV GP ANTENNA:																											
										THRESHOLD CROSSING HEIGHT:55.0																											
9. FINAL APPROACH COURSE AIMING				X		RUNWAY THRESHOLD														FT. FROM THRESHOLD																	
				X		ON CENTERLINE														FT. FROM CENTERLINE																	
10. WAIVERS: NONE																												RASS ADJUSTMENT UNROUNDED 37.57 FEET XP = TO MAINTAIN CURRENT MINS									
PART D - PREPARED BY:														DATE:														QUALITY 22 CHECKED									
JOHN R. ROSARIO														06/15/2015																							
TITLE:														OFFICE:																							
AERONAUTICAL INFORMATION SPECIALIST														AJV-5421																							