

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: RW31 CLIMB TO 2000 DIRECT COSDI AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 130.50 INBOUND. CHART FAS OBST: 91 TREE 285808N/0955125W DISTANCE TO THLD FROM 250 HATH: 0.64 NM. CHART VDP AT 0.86 NM TO RW31* *LNAV ONLY. WAAS CHANNEL # 78326 REFERENCE PATH ID: W31A CHART CIRCLING ICON. LTP HAE: -14.4 M						
PSX VORTAC		OPYAB (TF) (FB) (RNP 2.00)		092.62 / 26.33				2600								
LETTY		ACIVU (TF) (FB) (RNP 2.00)		168.55 / 5.34				2000								
OPYAB (IAF)		VIDYU (TF) (FB) (RNP 1.00)		040.59 / 9.00				2000								
ACIVU (IAF)		VIDYU (TF) (FB) (RNP 1.00)		220.70 / 8.00				2000								
VIDYU (IF)		LEMUR (TF) (FB) (RNP 1.00)		310.65 / 7.00				1700								
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT VIDYU 3. FAC: <u>310.60</u> FAF: <u>LEMUR</u> DIST FAF TO MAP: <u>5.07</u> THLD: <u>5.07</u> 4. MIN. ALT: <u>VIDYU 2000, LEMUR 1700, WIDGO/1.80 NM TO RW31 640*</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1700</u> GS ALT AT: <u>LEMUR 1700</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>45.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW31 2600</u>																
										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	294	1	250	294	1	250	294	1	250		NA					
LNAV/VNAV DA	294	1	250	294	1	250	294	1	250		NA					
LNAV MDA	360	1	316	360	1	316	360	1	316		NA					
CIRCLING	500	1	455	500	1	455	620	1 1/2	575		NA					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: RWY 13, 31 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PSX VORTAC AIRWAY RADIALS 009 CW 060. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 45 TDZE: 44				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
BAY CITY, TX		AIRPORT NAME:						RNAV (GPS) RWY 31, ORIG-B				AMDT: ORIG-A				
		BAY CITY RGNL										DATED 09/18/2014				



ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
				ROUTINE	
COORDINATED WITH:					
ATA <div></div>	AAT <div></div>	ALPA <div>X</div>	APA <div></div>	AOPA <div>X</div>	NBAA <div>X</div>
OTHER (specify) ZHU, AMGR					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
ROBERT W. COOK				AJV-5411	04/05/2017
APPROVED BY					
NAME:				FIFO	DATE:
GEORGE DAVIS				AJV-5410	
CHANGES:					
<div>1. CHANGED ALL TERMINAL ROUTE COURSES AND COSDI MISSED APPROACH HOLDING PATTERN BY ADDING 3 DEGREES EAST FROM TRUE COURSE.</div> <div>2. CHANGED AIRPORT NAME FROM "BAY CITY MUNI" TO "BAY CITY RGNL."</div> <div>3. CHANGED HELICOPTER VISIBILITY REDUCTION CHART NOTE TO READ: RWY 13, 31 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.</div> <div>4. ADDED CHART CIRCLING ICON IN ADDITIONA FLIGHT DATA.</div> <div>5. RAISED CIRCLING CAT C MDA/HAA FROM: 500/455, TO: 620/575.</div> <div>6. INCLUDED ALL PREVIOUS P-NOTAM DATA FROM AMDT ORIG-A.</div>					
REASONS:					
<div>1. KBYY MAGNETIC DECLINATION CHANGED FROM: E 06 DEGREES EPOCH 1990, TO: E 03 DEGREES EPOCH 2020.</div> <div>2. AIRPORT NAME CHANGED PER AIRNAV, AIRNAV PUBLICATION DATE SET FOR 6/22/17.</div> <div>3. AIRPORT DOES NOT MEET RDS FOR RWY AND TAXIWAY SEPERATION, VISIBILITIES NO LESS THAN 1 PER CFPT. FORMAT USED IAW 8260.19G 8-6-5 (I)(3).</div> <div>4. TERPS CHANGE 21 CIRCLING CRITERIA APPLIED.</div> <div>5. IDENTIFY NEW CONTROLLING OBSTACLE.</div> <div>6. ENSURE PROCEDURE UP TO DATE.</div>					



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

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TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
LEMUR (FAF)	WIDGO/1.80 NM TO RW31 (TF) (FB) (RNP 0.30)	310.60 / 3.27	
WIDGO/1.80 NM TO RW31	RW31 (MAP) (TF) (FO) (RNP 0.30)	310.58 / 1.80	
RW31 (MAP)	290 MSL (CA)	310.58	
290 MSL	COSDI (DF) (FO) (RNP 1.00)		2000

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PALACIOS ALTIMETER SETTING AND INCREASE ALL DA 63 FEET AND ALL MDA 80 FEET; INCREASE LNAV VISIBILITY CAT C 1/4 MILE.
 CHART NOTE: VDP AND BARO-VNAV N/A WHEN USING PALACIOS ALTIMETER SETTING.

QUALITY
30
CHECKED

CITY AND STATE
BAY CITY, TX

ELEVATION: 45 TDZE: 44
 AIRPORT NAME:
 BAY CITY RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 31, ORIG-B

SUP:
 AMDT: ORIG-A
 DATED: 09/18/2014

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	KBYY
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	285806.2645N
LTP/FTP LONGITUDE	0955127.5955W
LTP/FTP ELLIPSOIDAL HEIGHT	-00144
FPAP LATITUDE	285907.8200N
FPAP LONGITUDE	0955241.2100W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1192
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 C0BB8175

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00122
FPAP ORTHOMETRIC HEIGHT	+00122

QUALITY
30
CHECKED

CITY AND STATE BAY CITY, TX	ELEVATION: 45 AIRPORT NAME: BAY CITY RGNL	TDZE: 44 RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 31, ORIG-B	SUP:
				AMDT: ORIG-A
				DATED: 09/18/2014

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>			
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	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	PSX VORTAC	OPYAB	1. TOWER (48-008901)	284353.98N/0960526.92W	1547 (5D)	1000		2600					
			2. TERRAIN	284354.00N/0955400.00W	30 (0)		AS1500	1500					
FEEDER	LETTY	ACIVU	3. TOWER (48-014737)	285823.00N/0953413.00W	324 (5E)	1000	AT676	2000					
			4. TERRAIN	290106.00N/0953409.00W	26 (0)		AS1500	1500					
INITIAL	OPYAB	VIDYU	5. TOWER (48-010540)	285040.00N/0953929.00W	498 (1A)	1000	AT502	2000					
			6. TERRAIN	284936.00N/0954721.00W	16 (0)		AS1500	1500					
INITIAL	ACIVU	VIDYU	5. TOWER (48-010540)	285040.00N/0953929.00W	498 (1A)	1000	AT502	2000					
			7. TERRAIN	285212.00N/0954045.00W	49 (0)		AS1500	1500					
INTERMEDIATE	VIDYU	LEMUR	5. TOWER (48-010540)	285040.00N/0953929.00W	498 (1A)	500	AT702	1700					
			8. TERRAIN	285309.00N/0954754.00W	26 (0)		AS1500	1500					
FINAL: LPV	LEMUR	RW31	9. TREE (KBYYL034)	285759.07N/0955123.31W	68 (1B)	34:1	AC10	294/250					
FINAL: LNAV/VNAV	LEMUR	RW31	10. THRESHOLD	285806.26N/0955127.60W	40 (1A)	PDA		294/250					
FINAL: LNAV	LEMUR	WIDGO/1.80 NM TO RW31	11. AAO	285535.15N/0954901.70W	229 (2C)	250	RA80 DG80	640					
2. PROCEDURE TURN													
3. MISSED APPROACH	MAP:	DA / DA / RW31	COSDI			ASC		2000					
	ELEV:	103/140/260		13. TOWER (48-000954)	290033.00N/0955447.00W	366 (5D)	1000	1400					
				14. TERRAIN	290906.00N/0955954.00W	76 (100)	AS1500	1600					
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.											
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	455	15. TWR (48-002131)	285828.00N/0955137.00W	133 (4D)	300	AC50	500		
CATEGORY B	1.5 NM		450		455	15. TWR (48-002131)	285828.00N/0955137.00W	133 (4D)	300	AC50	500		
CATEGORY C	1.7 NM		450		575	16. TWR (48-000875)	285946.00N/0955444.00W	301 (2C)	300		620		
CATEGORY D	2.3 NM		550										
CATEGORY E	4.5 NM		550										
5. MINIMUM SAFE ALTITUDES													
PRIMARY NAVAID: RW31													
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A				
360-360	TWR (48-008901)	215/18.8	1547 (5D)	2600									
CITY AND STATE			ELEVATION: 45		FACILITY		PROCEDURE AND AMENDMENT NO:			REGION			
BAY CITY, TX			AIRPORT NAME:		RNAV		RNAV (GPS) RWY 31, ORIG-B			ASW			
			BAY CITY RGNL										

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.81NM CAT C: 2.84NM NO ADDITIONAL AIRSPACE REQUIRED. RASS PRESSURE PATTERNS SAME KBYY 44.90, KPSX 14.1 RA = 62.19. ISA DEVIATION -30°C NO HISTORICAL TEMPERATURE DATA IS AVAILABLE FOR THIS AIRPORT. AVERAGE COLD TEMPERATURE BASED ON STANDARD -30°C ISA DEVIATION. LPV SURFACE = 34:1. LNAV/VNAV SURFACE = 23.4:1. HOLD-IN-LIEU AT VIDYU AND TAA NOT DEVELOPED, ZHU REQUEST. NON-SURVEYED VEGETATION 55' PER CFPT. THRESHOLD IDENTIFIED AS LNAV/VNAV CONTROLLING OBSTACLE IAW 8260.54A, PARA 4.3.4. THERE ARE NO OBSTACLES IN THE LEVEL SURFACE OEA HIGHER THAN 89 FEET ABOVE LTP ELEVATION: 250 MINIMUM HATH APPLIED. ALL INTERMEDIATE SEGMENTS SHARE THE SAME CONTROLLING OBSTACLE. KBYY DOES NOT MEET RDS FOR RWY/TAXIWAY SEPARATION, MINIMUM VISIBILITY IS 1 SM AS PER THE CFPT AND AMGR REQUEST. #3 OBSTACLE - COORDNATED WITH THE OBSTACLE AND TERRAIN TEAM TO VERIFY 0/0 ACCURACY CODE FOR 324' TOWER. "VISUAL PORTION OF FINAL" PENETRATIONS: 34:1: 68 POLE (KBYYL037) 285803.13N/0955117.29W (8.07) 68 TREE (KBYYL034) 285759.07N/0955123.31W (11.15) RWY 31 HAS NO VGSI. KBYY AWOS-3 AND KPSX ASOS ON WMSCR. CAT D MINIMUMS NOT DEVELOPED, AMGR REQUEST.		
1. COMMUNICATIONS WITH: ZHU ARTCC			2. WEATHER SERVICE			3. ALTIMETER SETTING						
SATISFACTORY ON:				N W S	OTHER: AWOS-3		SOURCE: KBYY / KPSX					
				F A A			DISTANCE: 0 / 25.16					
				A / C			HOURS REMOTE OPERATION: 24 / YES / 24 / YES					
X	V H F	X	U H F	X	H F	LOCATION: KBYY			ADJUSTMENT: 0 / 63			
4. MONITOR STATUS		PRIMARY NAVAID:										
		MONITOR POINT:										
		HRS	CAT 1									
		OPTN:	CAT 3									
5. APPROACH & RUNWAY LIGHTING			ALS									
			(S) SALS									
			MALS									
			HIRL									
		X	MIRL 13, 31									
		X	REIL 13									
			TDZ									
			C/LINE									
		X	OTHER (SPECIFY) PAPI-2L 13									
6. RUNWAY MARKINGS		BASIC										
		ALL WEATHER										
		INSTRUMENT NPI-G 13, 31										
7. RUNWAY VISUAL RANGE		APPROACH										
		MIDFIELD										
		ROLL OUT										
8. GLIDE PATH		GP ANGLE: 3.00					ELEV RWY THRESHOLD: 39.9					
		DISTANCE FROM RWY:					ELEV GP ANTENNA:					
							THRESHOLD CROSSING HEIGHT: 45.0					
9. FINAL APPROACH COURSE AIMING			X	RUNWAY THRESHOLD					FT. FROM THRESHOLD			
			X	ON CENTERLINE					FT. FROM CENTERLINE			
10. WAIVERS: NONE												
PART D - PREPARED BY: ROBERT W. COOK							DATE: 04/05/2017					
TITLE: AERONAUTICAL INFORMATION SPECIALIST							OFFICE: AJV-5411					



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
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PART - A OBSTRUCTION DATA

[illegible]

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:	
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE			3. ALTIMETER SETTING				
SATISFACTORY ON:					N W S	OTHER:		SOURCE:			
					F A A			DISTANCE:			
					A / C			HOURS REMOTE OPERATION:			
	V H F		U H F		H F	LOCATION:			ADJUSTMENT:		
4. MONITOR STATUS		PRIMARY NAVAID:									
		MONITOR POINT:									
		HRS	CAT 1								
		OPTN:	CAT 3								
5. APPROACH & RUNWAY LIGHTING			ALS								
			(S) SALS								
			MALS								
			HIRL								
			MIRL								
			REIL								
			TDZ								
			C/LINE								
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:	

