

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																	MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV: RW06												
PDZ VORTAC (IAF)				UCUDO (TF) (FB) (RNP 1.00)				005.06 / 6.37				4000		CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 6000 DIRECT PDZ VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000.  **MISSED APPROACH REQUIRES MINIMUM CLIMB OF 340 FEET PER NM TO 4000; IF UNABLE TO MEET CLIMB GRADIENT, SEE RNAV (GPS) Y RWY 06.  ADDITIONAL FLIGHT DATA: HOLD E, RT, 258.00 INBOUND. FAS OBST: 1444 AAO 340349N/1172027W. DISTANCE TO THLD FROM 250 HAT: 0.68 NM. CHART VDP AT 1.89 NM TO RW06* *LNAV ONLY. WAAS CHANNEL # 66041 REFERENCE PATH ID: W06A CHART CIRCLING ICON. LTP HAE: 297.8 M												
UCUDO (IF)				WIDAD (TF) (FB) (RNP 1.00)				057.30 / 5.90				3300														
WIDAD (FAF)				RW06 (MAP) (TF) (FO) (RNP 0.30)				057.36 / 6.80																		
RW06 (MAP)				2000 MSL (CA)								2000														
2000 MSL				PDZ VORTAC (DF) (FO) (RNP 1.00)								6000														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																										
2. PROFILE STARTS AT UCUDO																										
3. FAC: 057.36 FAF: WIDAD DIST FAF TO MAP: 6.80 THLD: 6.80																										
4. MIN. ALT: UCUDO 4000, WIDAD 3300																										
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																										
6. MIN GS INCPT: 3300 GS ALT AT: WIDAD 3300 OM: _____ MM: _____ IM: _____																										
7. GS ANGLE: 3.00 TCH: 50.7 20:1 IS CLEAR 34:1 IS CLEAR																										
8. MSA FROM: RW06 12700																										
MAG VAR: 13E 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**	1353	3/4	250	1353	3/4	250	1353	3/4	250	1353	3/4	250														
LNAV MDA**	1740	1	637	1740	1	637	1740	1 3/4	637	1740	1 3/4	637														
CIRCLING	1740	1	581	1740	1	581	1760	1 3/4	601	2640	3	1481														
NOTES: CHART NOTE: CIRCLING NA NW OF RWY 06-24. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PDZ VORTAC AIRWAY RADIALS 278 CW 078. PBN REQUIREMENTS NOTE: RNP APCH CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ONTARIO ALTIMETER SETTING AND INCREASE DA (CONTINUED ON PAGE 2)																										
CITY AND STATE SAN BERNARDINO, CA				ELEVATION: 1159 TDZE: 1103 AIRPORT NAME: SAN BERNARDINO INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 6, AMDT 1						SUP: AMDT: ORIG DATED 05/07/2009										



ALL AFFECTED PROCEDURES REVIEWED?  <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE  <b>ROUTINE</b>
COORDINATED WITH: <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: center;">A4A <input checked="" type="checkbox"/></div> <div style="text-align: center;">ALPA <input checked="" type="checkbox"/></div> <div style="text-align: center;">AOPA <input checked="" type="checkbox"/></div> <div style="text-align: center;">APA <input type="checkbox"/></div> <div style="text-align: center;">HAI <input type="checkbox"/></div> <div style="text-align: center;">NBAA <input checked="" type="checkbox"/></div> <div style="text-align: center;">OTHER (specify) <input checked="" type="checkbox"/> <b>SOCAL APP CON, AMGR, ATA</b></div> </div>		
FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY <i>Digitally signed by</i>		
NAME:  <b>ROBERT GRIM</b>	FIFO  <b>AJV-5431</b>	DATE:  <b>10/20/2017</b>
APPROVED BY		
NAME:  <b>PATRICK MULQUEEN</b>	FIFO  <b>AJV-5430</b>	DATE:
CHANGES:  1. ADDED LPV LINE OF MINIMA. 2. MISSED APPROACH INSTRUCTIONS CHANGED FROM CLIMBING RIGHT TURN TO 5000 DIRECT PDZ VORTAC AND HOLD, TO CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 6000 DIRECT PDZ VORTAC AND HOLD. CONTINUE CLIMB-IN-HOLD TO 6000. 3. ADDED NOTE: CHART CIRCLING ICON. 4. LNAV MDA/HAT CHANGED FROM 1720/629 TO 1740/637. 5. MISSED APPROACH MINIMUM CLIMB GRADIENT/CLIMB TO ALTITUDE CHANGED FROM 333/3700 TO 340/4000. 6. NON-STANDARD ALTERNATE MINIMUMS ADDED TO PROCEDURE. 7. VISUAL DESCENT POINT CHANGED FROM 1.83 TO 1.89 NM. 8. CHANGED NOTE CIRCLING NA NORTH OF RWYS 6 AND 24 TO CIRCLING NA NW OF RWY 06-24. 9. DELETED NOTE VISIBILITY REDUCTION BY HELICOPTERS NA. 10. INTERMEDIATE SEGMENT LENGTH CHANGED FROM 6.03 TO 5.90. 11. FINAL SEGMENT LENGTH CHANGED FROM 6.67 TO 6.80. 12. ADDED B-U ALTIMETER (KONT) TO PROCEDURE. 13. ADDED 20:1 IS CLEAR TO 8260-3, LINE 7. (SEE FORM 8260-10)		
REASONS:  1. PER ATC/FPT REQUEST. 2. PER ATC/FPT REQUEST FOR LOWER MINIMA. 3. ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. 4. LNAV CONTROLLING OBSTACLE NOT IN SECONDARY AREA. 5. PER ATC/FPT REQUEST. 6. PER FPT REQUEST AND IAW 8260.19H 8-6-4 B (3), "ALTERNATE MINIMUMS ARE AUTHORIZED ON RNAV (GPS) SIAPS". 7. LNAV MDA INCREASED BY 20 FT. 8. IAW 8260.19H 8-6-5 M (A) AND RWY ALIGNMENT. 9. IAW 8260.19H 8-6-11 K (3) CAT A/B 34:1 SLOPE CLEAR. 10-11. WIDAD (PFAF) MOVED 768 FT SSW TO MATCH IPDS PFAF LOCATION. 12. PER QC REQUEST. 13. IAW 8260.19H 8-6-7 G (3). FOR RNAV PROCEDURES, STATE WHETHER THE 34:1 AND 20:1 OBSTACLE ASSESSMENT SURFACES ARE CLEAR OR NOT... 14. MAX TURN ANGLE FOR RNAV IS 90 DEGREES. 15. B-U ALTIMETER ADDED TO PROCEDURE. (SEE FORM 8260-10)		

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

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**NOTES, (CONT.):**

TO 1426 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE ALL MDA 80 FEET AND LNAV CATS C/D AND CIRCLING  
CAT C VISIBILITY 1/4 SM.

QUALITY  
23  
CHECKED

CITY AND STATE

**SAN BERNARDINO, CA**

**ELEVATION: 1159**

**TDZE: 1103**

AIRPORT NAME:

**SAN BERNARDINO INTL**

FACILITY  
IDENTIFIER:  
**RNAV**

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
**RNAV (GPS) Z RWY 6, AMDT 1**

SUP:

AMDT: **ORIG**

DATED: **05/07/2009**

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE		
COORDINATED WITH:						
A4A <div><input type="checkbox"/></div>	ALPA <div><input type="checkbox"/></div>	APA <div><input type="checkbox"/></div>	AOPA <div><input type="checkbox"/></div>	HAI <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:	
<div>CHANGES:</div> <div>CHANGES CONT.</div> <div>14. CHANGED PDZ VORTAC RESTRICTED ARRIVAL RADIALS FROM 012 CW 030 TO 278 CW 078.</div> <div>15. ADDED NOTE: NA WHEN LOCAL WEATHER NOT AVAILABLE.</div> <div>16. GLIDE SLOPE ANGLE CHANGED FROM 3.06 TO 3.00.</div> <div>17. CIRCLING MDA/HAA CHANGED FROM CAT A-C 1720/561, CAT D 1820/661 TO CAT A-B 1740/581, CAT C 1760/601, CAT D 2640/1481. CAT D VISIBILITY CHANGED FROM 2 TO 3.</div>						
<div>REASONS:</div> <div>REASONS CONT.</div> <div>16. TO MATCH VGSI AND OBTAIN OPTIMUM (318 FPNM) DESCENT ANGLE.</div> <div>17. PER IPDS BUILD AND AJV VISIBILITY CALCULATOR.</div>						

**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	KSBD
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	340526.7165N
LTP/FTP LONGITUDE	1171501.5735W
LTP/FTP ELLIPSOIDAL HEIGHT	+02978
FPAP LATITUDE	340559.8370N
FPAP LONGITUDE	1171309.5370W
THRESHOLD CROSSING HEIGHT (TCH)	00050.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	143.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 D1CDBFC2

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+03305
FPAP ORTHOMETRIC HEIGHT	+03305

QUALITY  
23  
CHECKED

CITY AND STATE  SAN BERNARDINO, CA	ELEVATION: 1159      TDZE: 1103 AIRPORT NAME:  SAN BERNARDINO INTL	FACILITY IDENTIFIER:  RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  RNAV (GPS) Z RWY 6, AMDT 1	SUP:
				AMDT:      ORIG
				DATED:      05/07/2009

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: A4A                      ALPA                      APA                      AOPA                      HAI                      NBAA                      OTHER (specify) <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:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
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PART - A OBSTRUCTION DATA

[illegible]

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: <b>PRECIPITOUS TERRAIN EVALUATION COMPLETED.</b>  <b>VEGETATION HEIGHT 100' PER WESTERN FPT.</b>  <b>TAA NOT DEVELOPED PER FPT/ATC REQUEST.</b>  <b>LNAV/VNAV MINIMA NOT PUBLISHED PER ATC/FPT REQUEST.</b>  <b>VGSI DATA: 3.00/52.0</b>  <b>KSBD AWOS ON WMSCR.</b> <b>KONT ASOS ON WMSCR.</b>  <b>TERRAIN TURNED OFF IN IPDS BUILD FOR FINAL AND MISSED APPROACH SEGMENTS. MAP STUDY USED TO OBTAIN 2C ACCURACY CODE.</b>  <b>25.49 DEGREES BANK USED IN MISSED APPROACH.</b>  <b>ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.</b> <b>CAT A: 1.31NM</b> <b>CAT B: 1.85NM</b> <b>CAT C: 2.90NM</b> <b>CAT D: 3.84NM</b>  <b>SEE ATTACHED AIRSPACE LETTER.</b> <b>RASS PRESSURE PATTERNS THE SAME</b> <b>KSBD 1159, KONT 944</b> <b>RA = 72.48.</b>																													
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																															
<b>ZLA ARTCC</b> <b>SOCAL APP CON</b> <b>RIVERSIDE FSS</b>				<input type="checkbox"/> N W S		<b>OTHER:</b> <b>AWOS-3</b>		SOURCE: <b>KSBD/KONT</b>																															
				<input type="checkbox"/> F A A				DISTANCE: 0/18.41																															
				<input type="checkbox"/> A / C				HOURS REMOTE OPERATION: <b>24/YES 24/YES</b>																															
SATISFACTORY ON:																				LOCATION: <b>KSBD</b>										ADJUSTMENT: <b>0/73</b>									
4. MONITOR STATUS		PRIMARY NAVAID:																																					
		MONITOR POINT:																																					
		HRS OPTN:		CAT 1																																			
				CAT 3																																			
5. APPROACH & RUNWAY LIGHTING				<b>ALS</b>																																			
				<b>(S) SALS</b>																																			
				<b>MALS</b>																																			
		<input checked="" type="checkbox"/>		<b>HIRL 06 (PCL), 24 (PCL)</b>																																			
				<b>MIRL</b>																																			
		<input checked="" type="checkbox"/>		<b>REIL 06 (PCL), 24 (PCL)</b>																																			
				<b>TDZ</b>																																			
				<b>C/LINE</b>																																			
<input checked="" type="checkbox"/>		<b>OTHER (SPECIFY)</b> <b>PAPI-4L 06, 24</b>																																					
6. RUNWAY MARKINGS		BASIC <b>BSC-G 24</b>																																					
		ALL WEATHER <b>PIR-G 06</b>																																					
		INSTRUMENT																																					
7. RUNWAY VISUAL RANGE		APPROACH <b>24</b>																																					
		MIDFIELD																																					
		ROLL OUT																																					
8. GLIDE PATH		GP ANGLE: <b>3.00</b>										ELEV RWY THRESHOLD: <b>1084.4</b>																											
		DISTANCE FROM RWY:										ELEV GP ANTENNA:																											
												THRESHOLD CROSSING HEIGHT: <b>50.7</b>																											
9. FINAL APPROACH COURSE AIMING				<input checked="" type="checkbox"/>		RUNWAY THRESHOLD																FT. FROM THRESHOLD																	
				<input checked="" type="checkbox"/>		ON CENTERLINE																FT. FROM CENTERLINE																	
10. WAIVERS: <b>NONE</b>																																							
PART D - PREPARED BY: <b>ROBERT GRIM</b>														DATE: <b>10/20/2017</b>																									
TITLE: <b>AERONAUTICAL INFORMATION SPECIALIST</b>														OFFICE: <b>AJV-5431</b>																									

