

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												
ALBAS (IAF)	DRIFY (FB)	304.56 / 8.17	2000	LPV: DA LNAV/VNAV: DA LNAV: RW29R CLIMB TO 3000 DIRECT ZANAN AND ON TRACK 221.02 TO INSH AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.											
SLI VORTAC (IAF)	DRIFY (FB)	218.41 / 8.17	2000												
DRIFY (IF)	ZILBA (FB)	294.57 / 4.35	2000												
ZILBA (FAF)	RW29R (MAP) (FO)	294.49 / 5.13													
RW29R (MAP)	381 MSL	294.49													
381 MSL	ZANAN (FB)														
ZANAN	INISH (FO)	221.02 / 8.99	3000	ADDITIONAL FLIGHT DATA: HOLD W, RT, 071.00 INBOUND. CHART FAS OBST: 426 TREE 334645N/1181919W CHART FAS OBST: 425 TANK 334637N/1181847W CHART VDP AT 1.35 MILES TO RW29R* *LNAV ONLY. WAAS CHANNEL # 56425 REFERENCE PATH ID: W29A DISTANCE FROM THLD FROM 284 HATH: 0.64 NM. LTP HAE: -6.4 M											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT DRIFY _____ 3. FAC: 294.49 FAF: ZILBA _____ DIST FAF TO MAP: 5.13 THLD: 5.13 4. MIN. ALT: DRIFY 2000, ZILBA 2000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: ZILBA 2000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.40 TCH: 51.4 34:1 IS CLEAR 8. MSA FROM: RW29R 7700				MAG VAR: 14E EPOCH YEAR: 1970											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT					ALTERNATE: NA		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	381	1/2	284	381	1/2	284		NA			NA				
LNAV/VNAV DA	767	1 5/8	670	767	1 5/8	670		NA			NA				
LNAV MDA	680	1/2	583	680	1/2	583		NA			NA				
CIRCLING	680	1	577	680	1	577		NA			NA				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICE, USE LOS ANGELES INTL ALTIMETER SETTING AND INCREASE ALL DA 24 FEET AND ALL MDA 40 FEET. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 103 THRE: 97		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
TORRANCE, CA		AIRPORT NAME:		RNAV		RNAV (GPS) RWY 29R, ORIG-A				AMDT: ORIG					
		ZAMPERINI FIELD				19 SEPTEMBER 2013				DATED 11/15/2012					

@ NA WHEN CONTROL TOWER CLOSED, EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICES.

QUALITY
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NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV VISIBILITY TO 2.

CHART NOTE: CIRCLING NA SOUTHWEST OF RWY 11R-29L.

CHART NOTE: DME/DME RNP-0.3 NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ALBAS ON V25 SOUTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON SLI VORTAC AIRWAY RADIALS 202 CW 272.

CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT.

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING LOS ANGELES INTL ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 7/8, LNAV/VNAV VISIBILITY ALL CATS TO 2 1/4.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING LOS ANGELES INTL ALTIMETER SETTING.

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CITY AND STATE
TORRANCE, CA

ELEVATION: 103 THRE: 97
AIRPORT NAME:
ZAMPERINI FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 29R, ORIG-A
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RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KTOA
RUNWAY RW29R
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W29A
LTP/FTP LATITUDE 334801.5675N
LTP/FTP LONGITUDE 1182003.0115W
LTP/FTP ELLIPSOIDAL HEIGHT -00064
FPAP LATITUDE 334857.0700N
FPAP LONGITUDE 1182126.7600W
THRESHOLD CROSSING HEIGHT (TCH) 00051.4
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.40
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 1392
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

142D5678

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K2
LTP ORTHOMETRIC HEIGHT +00296
FPAP ORTHOMETRIC HEIGHT +00296

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[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KTOAK2FR29R	AALBAS	010ALBASK2EA0E	A	IF					18000		A JS	
SUSAP	KTOAK2FR29R	AALBAS	020DRIFYK2EA0EE	B	010TF		30460082	+	02000			A JS	
SUSAP	KTOAK2FR29R	ASLI	010SLI K2D 0V	A	IF					18000		A JS	
SUSAP	KTOAK2FR29R	ASLI	020DRIFYK2EA0EE	B	010TF		21840082	+	02000			A JS	
SUSAP	KTOAK2FR29R	R	010DRIFYK2EA0E	I	IF			+	02000	18000		A JS	
SUSAP	KTOAK2FR29R	R	020ZILBAK2EA1E	F	051TF		29460044	+	02000			RW29R K2PGA JS	
SUSAP	KTOAK2FR29R	R	020ZILBAK2EA2WALPV			ALNAV/VNAV	ALNAV					JS	
SUSAP	KTOAK2FR29R	R	030RW29RK2PGOGY	M	031TF		29450051		00148		-340	A JS	
SUSAP	KTOAK2FR29R	R	040	0	M	CA	2945	+	00381			A JS	
SUSAP	KTOAK2FR29R	R	050ZANANK2EA0E		DF							A JS	
SUSAP	KTOAK2FR29R	R	060INISHK2EA0EY		010TF		2210	+	03000			A JS	
SUSAP	KTOAK2FR29R	R	070INISHK2EA0EE	R	HM		07100040	+	03000			A JS	

[illegible][illegible]

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[illegible]

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ALBAS	ALBAS	010	IAF	IF		FB					
	ALBAS	DRIFY	020		TF		FB	1.0	304.6 (318.6T)	008.2	AA 02000	
	SLI	SLI	010	IAF	IF		FB					
	SLI	DRIFY	020		TF		FB	1.0	218.4 (232.4T)	008.2	AA 02000	
		DRIFY	010	FACF	IF		FB				AA 02000	
		ZILBA	020	FAF	TF		FB	0.5	294.6 (308.6T)	004.4	AA 02000	
		RW29R	030	MAP	TF		FO	0.3	294.5 (308.5T)	005.1	AT 00148	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		294.5 (308.5T)		AA 00381	
	ZANAN	050		DF		FB					
	INISH	060		TF		FO	1.0	221.0 (235.0T)		AA 03000	
	INISH	070		HM	R	FO		071.0 (085.0T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	SLI	N334659.87	W1180317.12	N3346.998	W11803.285
	ALBAS	N333558.68	W1180440.16	N3335.978	W11804.669
	DRIFY	N334206.73	W1181109.17	N3342.112	W11811.153
	INISH	N334514.08	W1183228.76	N3345.235	W11832.479
	ZANAN	N335024.31	W1182338.41	N3350.405	W11823.640
	ZILBA	N334449.77	W1181513.98	N3344.830	W11815.233
	RW29R	N334801.57	W1182003.01	N3348.026	W11820.050

RUNWAY DATA	THRESHOLD	
	RWY	ELEVATION
		TCH
	RW29R	00097 51

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