

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: RW11L CLIMB TO 2700 DIRECT FERRY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2700. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 303.33 INBOUND. CHART FAS OBST: 509 TREE 334748N/1182110W 408 AAO 335119N/1182303W DISTANCE TO THLD FROM 270 HAT: 0.61 NM. CHART VDP AT 1.46 NM TO RW11L* *LNAV ONLY. WAAS CHANNEL # 61125 REFERENCE PATH ID: W11A CHART CIRCLING ICON LTP HAE: -10 M						
INISH (IAF)		YUFAP (FB)		352.06 / 3.62				2700								
YUFAP		WEVET (FB)		033.04 / 4.65				2000								
WEVET (IF)		ZANAN (FB)		100.14 / 3.92				1300								
ZANAN (FAF)		RW11L (MAP) (FO)		114.43 / 3.17												
RW11L (MAP)		366 MSL		114.43												
366 MSL		FERRY (FO)						2700								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT WEVET 3. FAC: 114.43 FAF: ZANAN DIST FAF TO MAP: 3.17 THLD: 3.17 4. MIN. ALT: WEVET 2000, ZANAN 1300 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1300 GS ALT AT: ZANAN 1300 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.43 TCH: 59.0 34:1 IS NOT CLEAR 8. MSA FROM: RW11L 7700										MAG VAR: 14E EPOCH YEAR: 1970						
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	366	7/8	270	366	7/8	270	366	7/8	270		NA					
LNAV/VNAV DA	690	1 3/4	594	690	1 3/4	594	690	1 3/4	594		NA					
LNAV MDA	640	1	544	640	1	544	640	1 5/8	544		NA					
CIRCLING	640	1	537	680	1	577	680	1 5/8	577		NA					
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 3C (38F) OR ABOVE 54C (130F). CHART NOTE: CIRCLING NA SW OF RWY 11R-29L. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING LOS ANGELES INTL ALTIMETER SETTING. CHART NOTE: DME/DME RNP-0.3 NA. (CONTINUED ON PAGE 2)																
CITY AND STATE		ELEVATION: 103 TDZE: 96				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:				
TORRANCE, CA		AIRPORT NAME: ZAMPERINI FIELD						RNAV (GPS) RWY 11L, AMDT 1				AMDT: ORIG-A				
												DATED 05/29/2014				

 QUALITY
25
CHECKED

ALL AFFECTED PROCEDURES REVIEWED? <div><input checked="" 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><input checked="" type="checkbox"/></div>	
APA <div></div>		AOPA <div><input checked="" type="checkbox"/></div>		NBAA <div><input checked="" type="checkbox"/></div>	
OTHER (specify)		<div><input checked="" type="checkbox"/> KTOA ATCT, SOCAL APP CON, ARPT MGR</div>			
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
<div><i>Digitally signed by</i> HERMAN C. ROGERS Jun 23, 2016</div>				AJV-5433	02/29/2016
APPROVED BY					
NAME:				FIFO	DATE:
LONNIE EVERHART MANAGER				AJV-5430	
CHANGES:					
<div>1. REMOVED THE FIRST MISSED APPROACH FIX (FAPDU) FROM THE MISSED APPROACH.</div> <div>2. CHANGED VDP FROM 1.47 TO 1.46 AND DIST TO THLD FROM 270 HAT FROM 0.62 TO 0.61.</div> <div>3. CHANGED LNAV/VNAV DA/HAT FROM 587/491 TO 690 /594 AND CAT A/B VIS FROM 1 3/8 TO 1 3/4.</div> <div>4. ADDED CAT C MINS AND CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA.</div> <div>5. CHANGED BARO-VNAV NOTE FROM (LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F) TO (LNAV/VNAV NA BELOW 3C (38F) OR ABOVE 54C (130F).</div> <div>6. CHANGED BACKUP ALTIMETER SETTING NOTE FROM (USE LOS ANGELES INTL ALTIMETER SETTING INCREASE ALL DA 24 FEET, AND ALL MDA 40 FEET, AND INCREASE LNAV/VNAV VISIBILITY ALL CATS 1/8 MILE) TO (WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICE, USE LOS ANGELES INTL ALTIMETER SETTING: INCREASE LPV DA TO 390 FEET AND LNAV/VNAV DA TO 714 FEET AND ALL MDA 40 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY, LNAV CAT C VISIBILITY AND CIRCLING CAT C VISIBILITY 1/8 SM.</div>					
REASONS:					
<div>1. BY ADDING CAT C MINS, THE LEG LENGTH FOLLOWING MA FIX FAPDU WAS TOO SHORT FOR CURRENT CRITERIA. PREVIOUS AMENDMENT WAS DEVELOPED WITH IAPA. REMOVAL OF THE FIX ALLOWED THE BUILD TO PROCEED. FPT AGREED.</div> <div>2. IPDS VALUE.</div> <div>3. NEW CONTROLLING OBST IN IPDS.</div> <div>4. PER ATC AND FPT.</div> <div>5. USED 5 YEAR AVERAGE TEMPS IN CALCULATIONS.</div> <div>6. VIS CHECK CALCULATIONS.</div>					



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 PROFILE NOTE: VGSi AND RNAV GLIDE PATH NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, EXCEPT FOR OPERATORS WITH APPROVED WEATHER REPORTING SERVICE, USE LOS ANGELES INTL ALTIMETER SETTING: INCREASE LPV DA TO 390 FEET AND LNAV/VNAV DA TO 714 FEET AND ALL MDA 40 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY, LNAV CAT C VISIBILITY AND CIRCLING CAT C VISIBILITY 1/8 SM.

CHART NOTE: RWY 11L HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT INISH ON V8-V64 WESTBOUND.

QUALITY
25
CHECKED

CITY AND STATE
TORRANCE, CA

ELEVATION: 103 TDZE: 96
AIRPORT NAME:
ZAMPERINI FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 11L, AMDT 1

SUP:
AMDT: **ORIG-A**
DATED: **05/29/2014**

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:					

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTOA
RUNWAY	RW11L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W11A
LTP/FTP LATITUDE	334825.6870N
LTP/FTP LONGITUDE	1182039.3890W
LTP/FTP ELLIPSOIDAL HEIGHT	-00100
FPAP LATITUDE	334730.1615N
FPAP LONGITUDE	1181915.6750W
THRESHOLD CROSSING HEIGHT (TCH)	00059.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.43
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1392
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 B4E0875B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00259
FPAP ORTHOMETRIC HEIGHT	+00259

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25
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CITY AND STATE TORRANCE, CA	ELEVATION: 103 TDZE: 96 AIRPORT NAME: ZAMPERINI FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 11L, AMDT 1	SUP:
				AMDT: ORIG-A
				DATED: 05/29/2014

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:					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

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ARINC SUMMARY - KTOA

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
INISH	010	INISH	IF	FB										E A
INISH	020	YUFAP	TF	FB	1.0	352.1						AA 02700		E
INISH	030	WEVET	TF	FB	1.0	033.0						AA 02000		EE B
	010	WEVET	IF	FB								AA 02000		E I
	020	ZANAN	TF	FB	1.0	100.1				RW11L		AA 01300		E F
	030	RW11L	TF	FO	0.3	114.4		3.43				AT 00144		GY M
	040		CA	FB		114.4						AA 00366		M
	050	FERMY	DF	FO								AA 02700		EY
	060	FERMY	HM	FO		303.3			R			AA 02700		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
FERMY	N334400.29	W1181309.88
INISH	N334514.08	W1183228.76
WEVET	N335200.76	W1182756.18
YUFAP	N334850.45	W1183201.23
ZANAN	N335024.31	W1182338.41

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW11L	N334825.69	W1182039.39	00085	59

QUALITY
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CITY AND STATE TORRANCE, CA	ELEVATION: 103 TDZE: 96	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 11L, AMDT 1	SUP:
	AIRPORT NAME: ZAMPERINI FIELD	RNAV		AMDT: ORIG-A
				DATED: 5/29/2014

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: <div>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"/> _____</div>					
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		INISH		YUFAP		1. SHIP		334654.94N/1183217.49W		213 (2C)	1000	AT1487	2700						
						2. OVER WATER		334654.94N/1183217.49W		0 (0)		AS1500	1500						
INITIAL: STEPDOWN		YUFAP		WEVET		3. SHIP		335019.62N/1183007.07W		213 (2C)	1000	AT787	2000						
						4. OVER WATER		335019.62N/1183007.07W		0 (0)		AS1500	1500						
INTERMEDIATE		WEVET		ZANAN		5. AAO		335119.02N/1182303.33W		408 (2C)	500	AT392	1300						
						6. TERRAIN		335119.02N/1182303.33W		208 (200)		AS1000	1200						
FINAL: LPV		ZANAN		RW11L		7. LT POLE (KTOAL008)		334830.87N/1182038.49W		110 (1B)	34:1	AC10	366/270						
FINAL: LNAV/VNAV		ZANAN		RW11L		8. TREE (KTOA0082)		334747.54N/1182110.29W		509 (2C)	150	AC20	690/594						
FINAL: LNAV		ZANAN		RW11L		8. TREE (KTOA0082)		334747.54N/1182110.29W		509 (2C)	250	SA-137	640						
2. PROCEDURE TURN		NA																	
3. MISSED APPROACH	MAP:	DA / DA / RW11L		FERMY							ASC		2700						
						9. T-L TWR (06-022860)		334553.28N/1181948.70W		774 (5E)	1000		1800						
	ELEV:	149/529/540				10. TERRAIN		334606.00N/1181933.00W		512 (500)		AS1500	2000						
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.															
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	537	11. TREE (KTOA0054)	334706.69N/1181904.30W	237 (1A)	300	SI	640						
CATEGORY B		1.5 NM			450		577	12. TREE (KTOA0101)	334654.33N/1181859.47W	372 (1A)	300		680						
CATEGORY C		1.7 NM			450		577	12. TREE (KTOA0101)	334654.33N/1181859.47W	372 (1A)	300		680						
CATEGORY D		2.3 NM			550														
CATEGORY E		4.5 NM			550														
5. MINIMUM SAFE ALTITUDES													PRIMARY NAVAIID: RW11L						
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
360-360		TWR (06-000230)		014/28.8		6634 (3C)		7700											
CITY AND STATE				ELEVATION: 103				FACILITY				PROCEDURE AND AMENDMENT NO:				REGION			
TORRANCE, CA				AIRPORT NAME: ZAMPERINI FIELD				RNAV				RNAV (GPS) RWY 11L, AMDT 1				AWP			

QUALITY
25

CHECKED

