

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/VNAV: DA LNAV: RW19L CLIMB TO 420 THEN CLIMBING LEFT TURN TO 3000 DIRECT DUMBA AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 283.98 INBOUND. FAS OBST: 150 SHIP 374028N/1222020W DISTANCE TO THLD FROM 282 HAT: 0.71 NM. WAAS CHANNEL # 58015 REFERENCE PATH ID: W19A LTP HAE: -29.4 M											
UPEND (IAF)	BERKS (FB)	193.98 / 11.61	5000												
BERKS (IF)	SHAKE (FB)	193.91 / 7.24	2800												
SHAKE (FAF)	ROGGE/5.50 NM TO RW19L (FB)	193.86 / 3.09													
ROGGE/5.50 NM TO RW19L	RW19L (MAP) (FO)	193.86 / 5.50													
RW19L (MAP)	420 MSL	193.86	420												
420 MSL	DUMBA (FO)		3000												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT BERKS 3. FAC: <u>193.86</u> FAF: <u>SHAKE</u> DIST FAF TO MAP: <u>8.59</u> THLD: <u>8.59</u> 4. MIN. ALT: BERKS 5000, SHAKE 2800, ROGGE/5.50 NM TO RW19L 1800* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2800</u> GS ALT AT: <u>SHAKE 2800</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>55.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW19L 5100</u>				MAG VAR: 14E EPOCH YEAR: 2015											
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	293	4000	282	293	4000	282	293	5000	282	293	5000	282			
LNAV/VNAV DA	350	4000	339	350	4000	339	350	5000	339	350	5000	339			
LNAV MDA	560	4000	549	560	4000	549	560	1 3/8	549	560	1 3/8	549			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. *LNAV ONLY (SEE FORM 8260-10)															
CITY AND STATE SAN FRANCISCO, CA		ELEVATION: 13 TDZE: 11 AIRPORT NAME: SAN FRANCISCO INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19L, AMDT 3, 9/18/2014				SUP: AMDT: 2B DATED 06/26/2014					



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: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 3C (38F) OR ABOVE 54C (130F).

CHART NOTE: FOR INOPERATIVE MALSF, INCREASE LPV CAT A/B VISIBILITY TO RVR 4500, LNAV/VNAV ALL CATS

VISIBILITY TO RVR 6000, AND LNAV CAT D VISIBILITY TO 1 5/8 MILES.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV CAT C/D.



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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 KSFO
RUNWAY RW19L
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W19A
LTP/FTP LATITUDE 373738.4280N
LTP/FTP LONGITUDE 1222201.5970W
LTP/FTP ELLIPSOIDAL HEIGHT -00294
FPAP LATITUDE 373619.5235N
FPAP LONGITUDE 1222253.9085W
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 0112
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

DF9A5B75

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K2
LTP ORTHOMETRIC HEIGHT +00032
FPAP ORTHOMETRIC HEIGHT +00032

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION: 13

TDZE: 11

AIRPORT NAME:

SAN FRANCISCO INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 19L, AMDT 3, 9/18/2014

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSFOK2FR19L	AUPEND	010UPENDK2EA0E	A	IF					18000		A	JS
SUSAP	KSFOK2FR19L	AUPEND	020BERKSK2EA0EE	B	010TF		19400116	+	05000			A	JS
SUSAP	KSFOK2FR19L	R	010BERKSK2EA0E	I	IF				+	05000	18000		A
SUSAP	KSFOK2FR19L	R	020SHAKEK2EA1E	F	051TF		19390072	+	02800			RW19L K2PGA	JS
SUSAP	KSFOK2FR19L	R	020SHAKEK2EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KSFOK2FR19L	R	021ROGGEK2EA0E	S	031TF		19390031	V	0180001817		-300		A
SUSAP	KSFOK2FR19L	R	030RW19LK2PGOGY	M	031TF		19390055		00066		-300		A
SUSAP	KSFOK2FR19L	R	040		0 M	CA	1939	+	00420				A
SUSAP	KSFOK2FR19L	R	050DUMBAK2EA0EY	L	DF				+	03000			A
SUSAP	KSFOK2FR19L	R	060DUMBAK2EA0EE	L	HM		28400040	+	03000				A

[illegible][illegible][illegible]

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RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
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ARINC SUMMARY - 424-8 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	UPEND	UPEND	010	IAF	IF		FB					
	UPEND	BERKS	020		TF		FB	1.0	194.0 (208.0T)	011.6	AA 05000	
		BERKS	010	FACF	IF		FB				AA 05000	
		SHAKE	020	FAF	TF		FB	0.5	193.9 (207.9T)	007.2	AA 02800	
		ROGGE	021	SDF	TF		FB	0.3	193.9 (207.9T)	003.1	AA 01800	GS 01817
		RW19L	030	MAP	TF		FO	0.3	193.9 (207.9T)	005.5	AT 00066	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		193.9 (207.9T)		AA 00420	
	DUMBA	050		DF	L	FO				AA 03000	
	DUMBA	060		HM	L	FO		284.0 (298.0T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BERKS	N375139.10	W1221242.04	N3751.652	W12212.701
	DUMBA	N373012.66	W1220546.13	N3730.211	W12205.769
	ROGGE	N374230.61	W1221847.58	N3742.510	W12218.793
	SHAKE	N374514.54	W1221658.52	N3745.242	W12216.975
	UPEND	N380155.14	W1220549.44	N3801.919	W12205.824
	RW19L	N373738.43	W1222201.60	N3737.641	W12222.027

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW19L	00011	55



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