

**FEDERAL AVIATION ADMINISTRATION**  
**FLIGHT STANDARDS SERVICE**  
**ILS STANDARD INSTRUMENT APPROACH PROCEDURE**  
**TITLE 14 CFR PART 97.29**

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> SAN FRANCISCO INTL	<u>AIRPORT ID</u> KSFO	<u>PROCEDURE NAME</u> ILS OR LOC RWY 19L	<u>ORIGINAL/AMENDMENT</u> 22	<u>CITY</u> SAN FRANCISCO	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 13	<u>TDZE</u> 19L 11 19R 11	<u>SUPERSEDED</u> ILS OR LOC RWY 19L	<u>ORIGINAL/AMENDMENT</u> 21	<u>DATED</u> 09/18/2014	<u>MAG VAR</u> 14E
<u>FACILITY</u> I-SIA	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 13 SEPTEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>	<u>EPOCH YEAR</u> 2015

**TERMINAL ROUTES** THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 18-19.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CCR VOR/DME		UPEND INT/I-SIA 28.97 DME					235.51	2.58	5000
UPEND INT/I-SIA 28.97 DME	IAF	BERKS INT/I-SIA 17.36 DME					193.81	11.61 (I-SIA)	5000
BERKS INT/I-SIA 17.36 DME	IF	SHAKE INT/I-SIA 10.12 DME					193.81	7.24 (I-SIA)	2800

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 8.59 NM AFTER SHAKE INT/I-SIA 10.12 DME OR AT I-SIA 1.53 DME  
RW19R

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 520 THEN CLIMBING LEFT TURN TO 4000 ON SFO VOR/DME R-101 TO DUMBA INT/SFO 14.96 DME AND HOLD. 

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 520 THEN CLIMBING LEFT TURN TO 3000 DIRECT SJC VOR/DME AND HOLD.

**PROFILE:**

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT BERKS INT/I-SIA I-SIA 17.36 DME
- FAC: 193.81 FAF: SHAKE INT/I-SIA 10.12 DME DIST FAF TO MAP: 8.59 DIST FAF TO THLD: 8.59
- MIN ALT: BERKS INT/I-SIA 17.36 DME 5000, SHAKE INT/I-SIA 10.12 DME 2800, ROGGE INT/I-SIA 7.03 DME 1800\*
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 289 HAT: 0.73 GS ANT: 1043
- MIN GS INCPT: 2800 GS ALT AT FAF : SHAKE INT/I-SIA 10.12 DME 2800 OM: MM: IM:
- GP ANGLE: 3.00 34:1: 20:1: TCH: 55.0
- MSA FROM: SFO VOR/DME 050-180 4500, 180-300 3500, 300-050 5100

**EQUIPMENT REQUIREMENTS NOTES**

QUALITY  
4  
CHECKED

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON THE GLIDESLOPE.  
CHART NOTE: SIDESTEP NA UNTIL PASSING ROGGE INT.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 19L ALL CATS VISIBILITY TO RVR 4500.  
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP 19R OR S-LOC 19L CATS C/D.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: SJC VOR/DME  
CHART VDP AT 2.53 DME\*  
DISTANCE VDP TO THLD 1.00 NM  
\* LOC ONLY  
FAS OBST: 150 SHIP 374028N/1222020W.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E SJC VOR/DME, LT, 286.00 INBOUND.  
HOLD W, LT, 101.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: CAT A, B 1800-2, CAT C, D 1800-3

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 19L	300	4000	289	300	4000	289	300	4000	289	300	4000	289			
S-LOC 19L	1800	5500	1789	1800	1 1/4	1789	1800	3	1789	1800	3	1789			
ROGGE FIX MINIMUMS (DUAL RECEIVERS OR DME REQUIRED)															
S-LOC 19L	400	4000	389	400	4000	389	400	4500	389	400	4500	389			
SIDESTEP 19R	400	5500	389	400	5500	389	400	1 1/2	389	400	2	389			

CHANGES - REASONS

1. UPDATED ADDITIONAL FLIGHT DATA MISSED APCH HOLDING FROM "HOLD E, LT, 280.59 INBOUND" TO "HOLD W, LT, 101.00 INBOUND". - ATC REQUEST FOR SIMULTANEOUS OPERATIONS.
2. UPDATED S-ILS 19L CAT C/D VISIBILITY FROM RVR 5000 TO RVR 4000. - NEW VISIBILITY.
3. UPDATED S-LOC 19L CAT B VISIBILITY FROM RVR 6000 TO 1 1/4 NM. - NEW VISIBILITY.
4. UPDATED ROGGE FIX MINIMUMS S-LOC 19L CAT C/D VISIBILITY FROM RVR 5000 TO RVR 4500.- NEW VISIBILITY.
5. UPDATED NOTE FROM "CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT" TO "CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})". - 8260.19H 8-6-9M.
6. UPDATED NOTE FROM "FOR INOPERATE MALSF, INCREASE ROGGE FIX MINIMUMS S-LOC 19L CAT C/D VISIBILITY TO RVR 6000, INCREASE S-ILS CAT A/B VISIBILITY TO RVR 4500" TO "FOR INOPERATIVE ALS, INCREASE S-ILS 19L ALL CATS VISIBILITY TO RVR 4500". - NEW INOPERATIVE TABLE.
7. ADDED VDP INFORMATION TO ADDITIONAL FLIGHT DATA. - 20:1 PENETRATION IS IN CAT C/D AREA.
8. ADDED SIMULTANEOUS NOTES "SIMULTANEOUS APPROACH AUTHORIZED SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE". - PER ATC REQUEST SIMULTANEOUS OPERATIONS ALLOWED.

PDF EDIT: SIDESTEP ALTERNATE MISSED APPROACH OBSTACLE. 11. TOWER (06-020660) (5E) ROC 1000, 2000.

07/12/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/27/18.  
1. UPDATED TERMINAL ROUTE FROM UPEND TO BERKS FIX UPEND DESCRIPTION FROM UPEND INT/I-SIA 29.97 DME TO UPEND INT/I-SIA 28.97.  
2. ADDED RWY 19R NEXT TO SIDESTEP IN MINIMUMS.



08/06/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/13/18.  
1. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 520 THEN CLIMBING LEFT TURN TO 3000 ON SFO VOR/DME R-101 TO DUMBA INT/SFO 14.96 DME AND HOLD." TO "CLIMB TO 520 THEN CLIMBING LEFT TURN TO 4000 ON SFO VOR/DME R-101 TO DUMBA INT/SFO 14.96 DME AND HOLD".

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZOA, NORCAL APP CON, SFO ATCT, AMGR, CA AERO

FLIGHT CHECKED BY

SCOTT A THOMPSON

Digitally signed by

DONALD H LANIER

Aug 08, 2018

OFFICE

FICO

DATE

6/21/18

DEVELOPED BY

ADOLFO URRUTIA (CHRISTINE BAYSE)

Digitally signed by

DONALD H LANIER

Aug 08, 2018

OFFICE

AJV-5432

DATE

03/29/2018

APPROVED BY

PATRICK MULQUEEN

Digitally signed by

DONALD H LANIER

Aug 08, 2018

OFFICE

AJV-5430

DATE

TITLE

MANAGER

