

**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 ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
SFO	ILS OR LOC RWY 19L	23A	SAN FRANCISCO	CA		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
13	19L 11 19R 11	ILS OR LOC RWY 19L	23	11/30/2023	14E	2015
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
I-SIA		14 MAY 2026	ROUTINE			

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
UPEND INT/28.97 DME	IAF	BERKS INT/17.36 DME					193.81 (I-SIA)	11.61	5000
BERKS INT/17.36 DME	IF	SHAKE INT/10.12 DME					193.81 (I-SIA)	7.24	2800
SHAKE INT/I-SIA 10.12 DME	FAF	ROGGE INT/7.03 DME					193.81 (I-SIA)	3.09	
ROGGE INT/7.03 DME		8.59 NM AFTER SHAKE INT/12.92 DME OR AT 1.53 DME	MAP				193.81 (I-SIA)	5.50	
8.59 NM AFTER SHAKE INT/12.92 DME OR AT 1.53 DME	MAP	1100 MSL		CA			193.81		1100
1100 MSL		PRTL A		DF	FO	1.00			4000

MISSED APPROACH

MAP:

ILS: DA
LOC: 8.59 NM AFTER SHAKE INT/12.92 DME OR AT 1.53 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 4000 DIRECT TO PRTL A AND HOLD.
*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 357 FEET PER NM TO 2000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

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

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO ROGGE FIX MINIMUMS S-LOC RWY 19L OR SIDESTEP RWY 19R.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON THE GLIDESLOPE.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS RWY 19L* ALL CATS VISIBILITY TO RVR 4500, S-ILS RWY 19L ALL CATS VISIBILITY TO 2 1/2 SM.
CHART NOTE: SIDESTEP NA UNTIL PASSING ROGGE INT.
CHART SPEED ICON IN PLANVIEW AT BERKS: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 138.00 INBOUND.
FAS OBST: 150 SHIP 374028N/1222020W.
CHART VDP AT 4.02 DME.
DISTANCE VDP TO THLD 2.49 NM.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: CAT A, B, C, D 800-2; 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-ILS 19L	774	2	763	774	2	763	774	2	763	774	2	763			
S-LOC 19L	1800	1 1/4	1789	1800	1 1/2	1789	1800	3	1789	1800	3	1789			
ROGGE FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)															
S-LOC 19L	880	4000	869	880	5500	869	880	2 1/2	869	880	2 1/2	869			
SIDESTEP 19R	880	2	869	880	2	869	880	3	869	880	3	869			

CHANGES - REASONS

- MSA: MSA AREA 300 CW 050 ALTITUDE CHANGED FROM 5000 TO 5100.- NEW OBSTACLE EVLAUATION
- TERMINAL ROUTES: REMOVED FEEDER LEG CCR - UPEND.- ATC REQUEST FOR CCR VORTAC DECOMISSIONING
- TERMINAL ROUTES: MOVED I-SIA FROM DISTANCE COLUMN TO COURSE COLUMN.- IAW 8260.19K
- MISSED APPROACH: CHANGED FROM SHAKE INT TO SHAKE INT/12.92 DME AND REMOVED RW19R.-IAW 8260.19K
- DELETED DME REQUIRED FROM THE ROGGE FIX MINIMUMS - PROCEDURE HAS RNAV APCH -GPS PBN NOTE.
- ADDED ROGGE FIX MINIMUMS TO THE INOPERATIVE TABLE NOTE - CLARIFIES THE MINIMUMS THAT THE NOTE APPLIES TO.



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER: ZOA, NORCAL APP CON, SFO ATCT, CITY & COUNTY OF SAN FRANCISCO, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE
FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

Digitally signed by
ROBERT G HAMILTON

OFFICE

DATE

DEVELOPED BY

NICHOLAS HEIDERSTADT

Digitally signed by
ROBERT G HAMILTON

Feb 27, 2026

OFFICE

AJV-A433

DATE

10/15/2025

APPROVED BY

ROBERT G HAMILTON

Digitally signed by
ROBERT G HAMILTON

Feb 27, 2026

OFFICE

AJV-A433

DATE

TITLE

MANAGER

