

**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> KSFO	<u>PROCEDURE NAME</u> ILS OR LOC RWY 28L ILS RWY 28L (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 27C	<u>CITY</u> SAN FRANCISCO	<u>STATE</u> CA			
<u>AIRPORT ELEVATION</u> 13	<u>TDZE</u> 13	<u>SUPERSEDED</u> ILS OR LOC RWY 28L ILS RWY 28L (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 27B	<u>DATED</u> 02/28/2019	<u>MAG VAR</u> 14E	<u>EPOCH YEAR</u> 2015	
<u>FACILITY</u> I-SFO	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 11 AUGUST 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>			

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>
ARCHI	IAF	PONKE/I-SFO LOC/DME 21.55 DME		TF	FB	1.00	237.62	6.07	6000
EDDY	IAF	SIDBY		TF	FB	1.00	330.71	4.71	4000
SIDBY	IAF	HEMAN/I-SFO 11.97 DME		TF	FB	1.00	330.69	5.17	3100
FAITH/SFO 27.72 DME	IAF	DIVEC/I-SFO 24.86 DME					281.00	3.98 (SFO R-101)	7000
DIVEC/I-SFO 24.86 DME		PONKE/I-SFO 21.55 DME					283.81	3.30 (I-SFO)	6000
PONKE/I-SFO 21.55 DME		WETOR/I-SFO 18.25 DME					283.81	3.31 (I-SFO)	5000
WETOR/I-SFO 18.25 DME		ROKME/I-SFO 14.95 DME					283.81	3.31 (I-SFO)	4000
ROKME/I-SFO 14.95 DME		HEMAN/I-SFO 11.97 DME					283.81	2.97 (I-SFO)	3100
HEMAN/I-SFO 11.97 DME	IF	DUYET/I-SFO 7.67 DME					283.81	4.30 (I-SFO)	1800

MISSED APPROACH

MAP:

ILS: DA
LOC: I-SFO 1.94 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 ON SFO VOR/DME R-275 TO OLYMM INT/SFO 15.37 DME AND HOLD, CONTINUE CLIMB IN HOLD TO 4000.
+MISSED APPROACH REQUIRES MINIMUM CLIMB OF 330 FEET PER NM TO 1600.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 2400 THEN CLIMBING LEFT TURN TO 5000 DIRECT SJC VOR/DME AND HOLD.
+MISSED APPROACH REQUIRES MINIMUM CLIMB OF 320 FEET PER NM TO 2000.



AIRPORT ID KSFO	PROCEDURE NAME ILS OR LOC RWY 28L ILS RWY 28L (SA CAT II)	ORIGINAL/AMENDMENT 27C	CITY SAN FRANCISCO	STATE CA
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PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT HEMAN

3. FAF: 283.81

FAF: DUYET/I-SFO 7.67 DME

DIST FAF TO MAP:

DIST FAF TO THLD: 5.74

4. MIN ALT: HEMAN/I-SFO 11.97 DME 3100, DUYET/I-SFO 7.67 DME 1800, NEPIC/I-SFO 5.30 DME 860

5. DIST TO THLD FROM OM:

MM:

IM:

100 HAT: 960

150 HAT:

GS ANT: 1066

6. MIN GS INCPT: 1800

GS ALT AT FAF : DUYET/I-SFO 7.67 DME 1800

OM:

MM:

IM:

7. GP ANGLE: 2.85

34:1:

20:1:

TCH: 52.6

8. MSA FROM: SFO VOR/DME 050-180 4500, 180-300 3500, 300-050 5000

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.
RNP APCH-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY.

NOTES:

SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 28L+: CAT A, B, C, D, RA 113, RVR 1200, HAT 100, DA 113 MSL.
CHART NOTE: CIRCLING NA TO RWYS 10L, 10R, 19L, AND 19R.
CHART NOTE: CIRCLING TO RWY 1L AND 1R NA AT NIGHT.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE.
CHART NOTE: LOC PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: #RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
SA CAT II CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL.
CHART PROFILE NOTE: USE I-SFO DME WHEN ON THE LOCALIZER COURSE.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: ##FOR INOPERATIVE ALS, INCREASE S-ILS 28L ALL CATS VISIBILITY TO 2 1/2 SM.
CHART NOTE: **FOR INOPERATIVE ALS, INCREASE S-LOC 28L CAT C/D VISIBILITY TO 2 1/2 SM.
CHART SPEED ICON IN PLANVIEW AT EDDYY: MAX 240 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD E, LT, 275.21 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E SJC VOR/DME, LT, 286.00 INBOUND.
CHART FAS OBST: 203 TREE (06-103160) 373525N/1221919W.
CHART VDP AT 3.19 DME
DISTANCE VDP TO THLD 1.25 NM.
CHART IN PLANVIEW: SJC VOR/DME.
CHART MANDATORY 7000 AT ARCHI.
CHART MANDATORY 6000 AT EDDYY.
CHART CIRCLING ICON.



MINIMUMS:

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

ALTERNATE: NA ☐

ILS: CAT A, B, C, D 800-2 1/2; LOC: CAT A 900-2, CAT B 1000-2, CAT C 1600-3, CAT D 900-2 1/2

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-ILS 28L#+	213	2400	200	213	2400	200	213	2400	200	213	2400	200			
S-ILS 28L##	789	1 3/4	776	789	1 3/4	776	789	1 3/4	776	789	1 3/4	776			
S-LOC 28L+	460	2400	447	460	2400	447	460	4500	447	460	4500	447			
S-LOC 28L**	860	2400	847	860	4000	847	860	1 7/8	847	860	1 7/8	847			
CIRCLING	860	1 1/4	847	960	1 1/4	947	1560	3	1547		NA				

CHANGES - REASONS

1. P-NOTAM INITIATED TO CORRECT SA CAT II RVR FROM 2200 TO 1200 - LISTED INCORRECTLY ON P-NOTAM 8/8880 BUT LISTED CORRECTLY IN SIAP.
2. PROFILE LINE 4: REMOVED ASTERISKS (*) FROM NEPIC INT MINIMUM ALTITUDE - NO LONGER REQUIRED; IAW 8260.19I 8-6-7D AND 8-6-10M.
3. PROFILE LINE 5: ADDED "DIST TO THLD FROM FAF: 5.74" - IAW 8260.19I 8-6-7E.
4. EQUIPMENT REQUIREMENTS NOTES: UPDATED FROM "RNAV 1-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY " TO "RNAV APCH-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY" - IAW 8260.19I, PARA 8-6-8 C(3).
5. NOTES: UPDATED CHART NOTE FROM "SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 28L+: CAT A, B, C, D, RA 106, RVR 1200, HAT 100, DA 113 MSL" TO "+SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 28L: CAT A, B, C, D, RA 113, RVR 1200, HAT 100, DA 113 MSL" - RA 106 PREVIOUSLY ENTERED IN ERROR; CLEARS NOTAM 9/3163.
6. ADDITIONAL FLIGHT DATA: UPDATED VDP DISTANCE FROM "3.19 DME*" TO "3.19 DME" AND DELETED "LOC ONLY" - NO LONGER REQUIRED; IAW 8260.19I 8-6-7D AND 8-6-10M.
7. ALTERNATE MINIMUMS: CHANGED ILS FROM "800-2" TO "800-2 1/2" AND ADDED LOC CAT D "900-2 1/2" - IAW 8260.3E, TABLE 3-4-1.

COORDINATED WITH:A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ **OTHER:** ZOA, NORCAL APP CON, SFO ATCT, AMGR**FLIGHT CHECKED BY**PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT:
GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION**OFFICE****DATE****DEVELOPED BY**

JASON KRETSCHMER (KARNA MORE)

Digitally signed by

DONALD H LANIER

Digitally signed by

DONALD H LANIER

Feb 16, 2022

OFFICE

AJV-A421

DATE

05/05/2021

APPROVED BY

MARLON ROBINSON

Digitally signed by

Feb 16, 2022

DONALD H LANIER

Feb 16, 2022

OFFICE

AJV-A420

DATE**TITLE**
MANAGER