

ILS - STANDARD US DEPARTMENT OF TRANSPORTATION INSTRUMENT APPROACH PROCEDURE FEDERAL AVIATION ADMINISTRATION TITLE 14 CFR PART 97.29							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		ILS: DA LOC: 3.36 NM AFTER NEPIC/I-SFO 5.30 DME OR AT I-SFO 1.94 DME FIX CLIMB TO 4000 ON SFO VOR/DME R-275 TO OLYMM INT/SFO 15.37 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 5000 DIRECT SJC VOR/DME AND HOLD. 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 373525N/1221919W CHART: 217 T-L TWR 373441N/1221522W CHART VDP AT 3.20 DME* DISTANCE VDP TO THLD 1.26 NM. *LOC ONLY. CHART IN PLANVIEW: SJC VOR/DME. CHART MANDATORY 8000 AT ARCHI. CHART CIRCLING ICON CHART MANDATORY 4000 AT MENLO.						
ARCHI (IAF)		PONKE (FB)			237.62 / 6.07			8000								
MENLO (IAF)		HEMAN INT (FB)			333.41 / 4.31			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 21.56 DME			283.81 / 3.30 (I-SFO)			6000								
PONKE/I-SFO 21.56 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								
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT DIVEC/I-SFO 24.86 DME 3. FAC: <u>283.81</u> FAF: <u>DUYET INT/I-SFO 7.67 DME</u> DIST FAF TO MAP: <u>5.73</u> THLD: <u>5.73</u> 4. MIN. ALT: <u>DIVEC 7000, PONKE 6000, WETOR 5000, ROKME 4000, HEMAN 3100, DUYET 1800, NEPIC/I-SFO 5.30 DME 1080*</u> 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ - 150 HAT: _____ - 100 HAT: <u>952</u> GS ANT: <u>1066</u> 6. MIN GS INCPT: <u>1800</u> GS ALT AT: <u>DUYET 1800</u> OM: _____ - _____ MM: _____ - _____ IM: _____ - _____ 7. GS ANGLE: <u>2.85</u> TCH: <u>52.6</u> 8. MSA FROM: <u>SFO VOR/DME 050-180 4500, 180-300 3500, 300-050 5100</u>																
										MAG VAR: 14E			EPOCH YEAR: 2015			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #			LOC: 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	
S-ILS 28L**	213	2400	200	213	2400	200	213	2400	200	213	2400	200				
S-ILS 28L	789	2 1/2	776	789	2 1/2	776	789	2 1/2	776	789	2 1/2	776				
S-LOC 28L**	460	2400	447	460	2400	447	460	4500	447	460	4500	447				
S-LOC 28L %	740	2400	727	740	2400	727	740	1 5/8	727	740	1 5/8	727				
CIRCLING	1080	1	1067	1080	1 1/2	1067	1560	3	1547		NA					
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: DME OR RADAR OR GPS REQUIRED. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). (CONTINUED ON PAGE 2)																
CITY AND STATE SAN FRANCISCO, CA				ELEVATION: 13 TDZE: 13 AIRPORT NAME: SAN FRANCISCO INTL			FACILITY IDENTIFIER: I-SFO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 28L, AMDT 25A; ILS RWY 28L (SA CAT II)				SUP: 4 AMDT: CHECKED 25 DATED 03/05/2015			

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input checked="" type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
ROUTINE					
COORDINATED WITH:					
ATA <div><input checked="" type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>		ALPA <div><input checked="" type="checkbox"/></div>	
APA <div><input checked="" type="checkbox"/></div>		AOPA <div><input checked="" type="checkbox"/></div>		NBAA <div><input checked="" type="checkbox"/></div>	
OTHER (specify)		<div><input checked="" type="checkbox"/> ZOA, NORCAL APP CON, SFO ATCT, AMGR</div>			
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME: <div>RONALD SALPINO</div>				FIFO AJV-5431	DATE: 03/14/2016
APPROVED BY					
NAME: <div>LONNIE EVERHART</div> <div>MANAGER</div>				FIFO AJV-5430	DATE:
CHANGES:					
<div>1. RAISED INITIAL ALTITUDE AT ARCHI FROM AT 7000 TO AT 8000 AND ADDED SPEED RESTRICTION OF AT 230 KIAS.</div> <div>2. CHANGE ALTITUDE RESTRICTION AT MENLO FROM AT/ABOVE 4000 TO AT 4000 AND CHARTED SPEED RESTRICTION TO AT 230 KIAS.</div> <div>3. UPDATED VGSI COINCIDENT NOTE.</div> <div>4. GLIDESLOPE ANTENNA HEIGHT CHANGED FROM 1067 TO 1066 ROUNDING.</div> <div>5. UPDATED ALTERNATE MINIMUMS FROM 800-2 TO 1600-3.</div>					
REASONS:					
<div>1, 2. TO COMPLY WITH PUBLISHED STARS ENDING AT ARCHI AND MENLO.</div> <div>3. IAW 8260.19 PARA 8-6-6 N.</div> <div>4. THIRD PARTY SURVEY.</div> <div>5. IAW 8260.3 VOL 1, PARA 3.4.2B.</div>					
PDF EDITS:					
<div>1. REMOVED /I-SFO LOC/DME 21.56 DME FROM FIX PONKE LINE ONE TERMINAL ROUTE AND ADDED (FB).</div> <div>2. REMOVED INT/I-SFO 11.97 DME FROM FIX HEMAN LINE TWO TERMINAL ROUTE AND ADDED (FB).</div> <div>3. REMOVED ** FROM S-ILS 28L 789 DA.</div> <div>4. ADDED CAT D 1600-3 IN # ALTERNATE MINIMUMS.</div> <div>5. ADDED ** AFTER S-LOC 28L 460 HAT IN UNDER CATEGORY.</div> <div>6. ADDED CHART SPEED ICON IN PLANVIEW ATARCHI AND MENLO. SIAP GENERATED NOTE INCORRECT.</div> <div>7. UNDERLINED SA CAT II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; ON -10 DUE TO SIAP NOT DOING SO.</div> <div>8. ADDED % AFTER S-LOC 28L 740 HAT IN UNDER CATEGORY.</div>					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

**ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ROKME/I-SFO 14.95 DME	HEMAN INT/I-SFO 11.97 DME	283.81 / 2.97 (I-SFO)	3100
HEMAN INT/I-SFO 11.97 DME (IF)	DUYET INT/I-SFO 7.67 DME	283.81 / 4.30 (I-SFO)	1800

NOTES, (CONT.):

CHART NOTE: ** MISSED APPROACH REQUIRES MINIMUM CLIMB OF 325 FEET PER NM TO 2100.

CHART NOTE: CIRCLING NA TO RWYS 10L, 10R, 19L, AND 19R.

CHART NOTE: CIRCLING RWY 1L, 1R NA AT NIGHT.

****SA CAT II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED: S-ILS 28L: CAT A, B, C, D,**

RA 100, RVR 1200, HAT 100, DA 113 MSL.

CHART NOTE SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 28R.

CHART PROFILE NOTE: USE I-SFO DME WHEN ON THE LOCALIZER COURSE.

CHART NOTE SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE.

CHART NOTE: % FOR INOPERATIVE MALSR INCREASE S-LOC CAT C AND D VISIBILITY TO 2 MILE.

SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.

CHART NOTE: LOC PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

CHART PLANVIEW NOTE ADJACENT TO ARCHI: GPS REQUIRED.

CHART PLANVIEW NOTE ADJACENT TO MENLO: GPS REQUIRED.

CHART SPEED ICON IN PLANVIEW AT ARCHI: MAX 230 KIAS.

CHART SPEED ICON IN PLANVIEW AT MENLO: MAX 230 KIAS.

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

SAN FRANCISCO INTL

 FACILITY
IDENTIFIER:

I-SFO

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 28L, AMDT 25A; ILS RWY 28L (SA CAT II)

SUP: 4

AMDT CHECKED 25

DATED: 03/05/2015

ALL AFFECTED PROCEDURES REVIEWED?		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
<input type="checkbox"/> YES <input type="checkbox"/> NO					
COORDINATED WITH:					
ATA	AAT	ALPA	APA	AOPA	NBAA OTHER (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
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

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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ARINC SUMMARY - KSFO

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
ARCHI	010	ARCHI	IF	FB								AT 08000	AB 230	E A
ARCHI	020	PONKE	TF	FB								AA 08000		E
ARCHI	030	WETOR	TF	FB								AA 05000		E
ARCHI	040	ROKME	TF	FB								AA 04000		E
ARCHI	050	HEMAN	CF	FB		283.8	ISFO					AA 03100		EE B
FAITH	010	FAITH	IF	FB										E A
FAITH	020	DIVEC	TF	FB								AA 07000		E
FAITH	030	PONKE	TF	FB								AA 06000		E
FAITH	040	WETOR	TF	FB								AA 05000		E
FAITH	050	ROKME	TF	FB								AA 04000		E
FAITH	060	HEMAN	CF	FB		283.8	ISFO					AA 03100		EE B
MENLO	010	MENLO	IF	FB								AT 04000	AB 230	E A
MENLO	020	MENLO	FC	FB		333.4	NLC					AA 03100		E
MENLO	030	HEMAN	CF	FB		333.4	ISFO					AA 03100		EE B
	010	HEMAN	IF	FB			ISFO					AA 03100 GI 01800		E I
	020	DUYET	CF	FB		284.0	ISFO	2.85		SFO		GI 01800 GS 01800		E F
	030	RW28L	CF	FO		284.0	ISFO	2.85				AT 00065		GY M
	040	OLYMM	CF	FO		275.2	SFO					AA 04000		EYM
	050	OLYMM	HM	FO		275.2			L			AA 04000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
NLC (DME)	N362038.82	W1195758.80
SFO	N373710.14	W1222226.02
ISFO (DME)	N373739.54	W1222341.46
ARCHI	N372926.87	W1215231.95
DIVEC	N372558.38	W1215606.03
DUYET	N373402.64	W1221510.54
FAITH	N372404.38	W1215142.84
HEMAN	N373201.86	W1221024.00
MENLO	N372749.27	W1220913.17
OLYMM	N374257.70	W1224021.68
PONKE	N372731.74	W1215945.79
ROKME	N373038.13	W1220705.79
WETOR	N372904.99	W1220325.71
ISFO (LOC)	N373737.47	W1222341.92

QUALITY
15
CHECKED

CITY AND STATE SAN FRANCISCO, CA	ELEVATION: 13 TDZE: 13 AIRPORT NAME: SAN FRANCISCO INTL	FACILITY IDENTIFIER: I-SFO	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 28L, AMDT 25A ILS RWY 28L (SA CAT II)	SUP:
				AMDT: 25
				DATED: 03/05/2015

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:					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW28L	N373643.55	W1222133.35	00013	52.6

QUALITY
15
CHECKED

CITY AND STATE
SAN FRANCISCO, CA

ELEVATION: 13 TDZE: 13
AIRPORT NAME:
SAN FRANCISCO INTL

FACILITY
IDENTIFIER:
I-SFO

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 28L, AMDT 25A
ILS RWY 28L (SA CAT II)

SUP:
AMDT: 25
DATED: 03/05/2015

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:					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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ARINC SUMMARY - KSFO

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
ARCHI	010	ARCHI	IF	FB								AT 08000	AB 230	E A
ARCHI	020	PONKE	TF	FB								AA 08000		E
ARCHI	030	WETOR	TF	FB								AA 05000		E
ARCHI	040	ROKME	TF	FB								AA 04000		E
ARCHI	050	HEMAN	CF	FB		283.8	ISFO					AA 03100		EE B
FAITH	010	FAITH	IF	FB										E A
FAITH	020	DIVEC	TF	FB								AA 07000		E
FAITH	030	PONKE	TF	FB								AA 06000		E
FAITH	040	WETOR	TF	FB								AA 05000		E
FAITH	050	ROKME	TF	FB								AA 04000		E
FAITH	060	HEMAN	CF	FB		283.8	ISFO					AA 03100		EE B
MENLO	010	MENLO	IF	FB								AT 04000	AB 230	E A
MENLO	020	MENLO	FC	FB		333.4	NLC					AA 03100		E
MENLO	030	HEMAN	CF	FB		333.4	ISFO					AA 03100		EE B
	010	HEMAN	IF	FB			ISFO					AA 03100		E I
	020	DUYET	CF	FB		284.0	ISFO			SFO		AA 01800		E F
	021	NEPIC	CF	FB		284.0	ISFO	2.86				AA 01080		E S
	030	RW28L	CF	FO		284.0	ISFO	2.86				AT 00065		GY M
	040	OLYMM	CF	FO		275.2	SFO					AA 04000		EYM
	050	OLYMM	HM	FO		275.2			L			AA 04000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
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ARCHI	N372926.87	W1215231.95
DIVEC	N372558.38	W1215606.03
DUYET	N373402.64	W1221510.54
FAITH	N372404.38	W1215142.84
HEMAN	N373201.86	W1221024.00
MENLO	N372749.27	W1220913.17
NEPIC	N373509.22	W1221748.78
OLYMM	N374257.70	W1224021.68
PONKE	N372731.74	W1215945.79
ROKME	N373038.13	W1220705.79

QUALITY
15
CHECKED

CITY AND STATE SAN FRANCISCO, CA	ELEVATION: 13 TDZE: 13 AIRPORT NAME: SAN FRANCISCO INTL	FACILITY IDENTIFIER: I-SFO	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 28L, AMDT 25A ILS RWY 28L (SA CAT II)	SUP:
				AMDT: 25
				DATED: 03/05/2015

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:					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25				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.											
<div> <div> WETOR ISFO (LOC) </div> <div> N372904.99 N373737.47 </div> <div> W1220325.71 W1222341.92 </div> </div>															
<div> <div>RUNWAYS</div> <table> <tr> <td>RUNWAY</td> <td>THRESHOLD LATITUDE</td> <td>THRESHOLD LONGITUDE</td> <td>THRESHOLD ELEVATION</td> <td>PROCEDURE TCH</td> </tr> <tr> <td>RW28L</td> <td>N373643.55</td> <td>W1222133.35</td> <td>00013</td> <td>52.6</td> </tr> </table> </div>						RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH	RW28L	N373643.55	W1222133.35	00013	52.6
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<div> <div> <div>CITY AND STATE SAN FRANCISCO, CA</div> <div> ELEVATION: 13 AIRPORT NAME: SAN FRANCISCO INTL </div> </div> <div> <div>TDZE: 13</div> <div>FACILITY IDENTIFIER: I-SFO</div> </div> <div> <div>PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:</div> <div> ILS OR LOC RWY 28L, AMDT 25A ILS RWY 28L (SA CAT II) </div> </div> <div> <div>SUP:</div> <div>AMDT: 25</div> <div>DATED: 03/05/2015</div> </div> </div>															



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		ARCHI		PONKE/I-SFO		1. TOWER (06-002266)	372956.77N/1215219.84W	3049 (4D)	1000	AT3951	8000
				LOC/DME 21.56		2. TERRAIN	372924.00N/1215233.00W	2172 (2200)		AS1500	3700
				DME							
INITIAL		MENLO		HEMAN INT/I-SFO		3. T-L TWR (06-000147)	373013.20N/1220724.00W	379 (5E)	1000	XP1721	3100
				11.97 DME		4. TERRAIN	373222.20N/1221349.80W	7 (0)		AS1500	1500
INITIAL		FAITH/SFO 27.72		DIVEC/I-SFO		5. AAO	372827.00N/1215121.00W	2464 (4E)	1000	XP3536	7000
		DME		24.86 DME		6. TERRAIN	372827.00N/1215121.00W	2264 (2300)		AS1500	3800
INITIAL: STEPDOWN		DIVEC/I-SFO 24.86		PONKE/I-SFO		7. AAO	373000.00N/1215221.00W	2766 (4E)	1000	SA-739 XP2973	6000
		DME		21.56 DME		8. TERRAIN	372930.00N/1215345.00W	893 (900)		AS1500	2400
INITIAL: STEPDOWN		PONKE/I-SFO 21.56		WETOR/I-SFO		9. AAO	373142.00N/1215857.00W	246 (4E)	1000	XP3754	5000
		DME		18.25 DME		10. TERRAIN	373142.00N/1215857.00W	46 (0)		AS1500	1500
INITIAL: STEPDOWN		WETOR/I-SFO 18.25		ROKME/I-SFO		11. AAO	373233.00N/1220506.00W	450 (4E)	1000	XP2550	4000
		DME		14.95 DME		12. TERRAIN	373233.00N/1210506.00W	250 (300)		AS1500	1800
INITIAL: STEPDOWN		ROKME/I-SFO 14.95		HEMAN INT/I-SFO		13. AAO	373421.00N/1220618.00W	450 (4E)	1000	XP1650	3100
		DME		11.97 DME		14. TERRAIN	373421.00N/1220618.00W	250 (300)		AS1500	1800
2. PROCEDURE TURN		NA									
3. MISSED APPROACH	MAP:	DA / DA / 3.36 NM		OLYMM INT/SFO		19. AAO	373614.04N/1222738.01W	1449 (2C)	ASC		5000
	AFTER			15.37 DME		19. AAO	373614.04N/1222738.01W	1449 (2C)	1000		2500
	ELEV:	49/110				20. TERRAIN	373718.00N/1222742.00W	975 (1000)		AS1500	2500
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	1067	21. TREE (KSFOT1542)	373544.71N/1222409.94W	332 (1A)	300	SI	1080
CATEGORY B	1.5 NM		450		1067	22. TREE (KSFOT2603)	373502.68N/1222413.88W	694 (1A)	300	SI	1080
CATEGORY C	1.7 NM		450		1547	23. TREE (KSFOT2729)	373421.75N/1222505.97W	1249 (1B)	300		1560
CATEGORY D	2.3 NM		550								
CATEGORY E	4.5 NM		550								
5. MINIMUM SAFE ALTITUDES						PRIMARY NAVAID: SFO VOR/DME					
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A		
050-180	LOOKOUT TWR	134/27.7	3381 (2C)	4500	300-050	TOWER (05-0583)	037/27.0	3899 (1D)		QUALITY	5100
180-300	TOWER (05-0374)	188/06.0	2026 (5E)	3500						4	
CITY AND STATE		ELEVATION: 13			FACILITY		PROCEDURE AND AMENDMENT NO:			REGION	
SAN FRANCISCO, CA		AIRPORT NAME: SAN FRANCISCO INTL			I-SFO		ILS OR LOC RWY 28L, AMDT 25A; ILS RWY 28L (SA CAT II)			CHECKED AWP	

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:																		
1. COMMUNICATIONS WITH:					2. WEATHER SERVICE					3. ALTIMETER SETTING					ORDER 8260.3 CHAPTER 2 APPLIED TO 217 T-L TWR 373441N/1221522W													
SFO TOWER ZOA ARTCC NORCAL APP CON							N W S		OTHER: ASOS					SOURCE:KSFO					NONSTANDARD CG 325FT /NM TO 2100 APPLIES TO BOTH PRIMARY AND ALTERNATE MA TO ALLOW FOR LOWER DA/MDA.									
							F A A							DISTANCE:														
							A / C							HOURS REMOTE OPERATION: <div>0</div>														
SATISFACTORY ON:					LOCATION: KSFO					ADJUSTMENT: 0					ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.81NM CAT C: 2.87NM CAT D: NA													
X V H F		X U H F				H F																						
4. MONITOR STATUS		PRIMARY NAVAID: I-SFO								NO ADDITIONAL AIRSPACE REQUIRED.																		
		MONITOR POINT: POCC																										
		HRS OPTN:		CAT 1																24		CAT 3						
5. APPROACH & RUNWAY LIGHTING		X		ALSF-2 28R								ASOS ON SERVICE A. BACKUP ALTIMETER NOT REQUIRED DUE TO REDUNDANT LOCAL SOURCES																
				(S) SALS																								
		X		MALSF 19L MALSR 28L																								
		X		HIRL 01L, 01R, 10L, 10R, 19L, 19R, 28L, 28R																								
				MIRL																								
		X		REIL 01L, 01R, 10L																								
		X		TDZ 19L, 28R																								
		X		C/L 01L, 01R, 10L, 10R, 19L, 19R, 28L, 28R																								
6. RUNWAY MARKINGS				OTHER (SPECIFY) PAPI-4L 10L, 10R, 19L, 19R, 28L, 28R								VGSI DATA: 2.85/67.0																
7. RUNWAY VISUAL RANGE				BASIC								ILS GS: 2.85 DEGREES (SEE APPROVAL LETTER).																
				ALL WEATHER PIR-G 01R, 10L, 10R, 19L, 28L, 28R																								
				INSTRUMENT NPI-G 01L, 19R																								
8. GLIDE PATH				APPROACH 01L, 01R, 10L, 10R, 19L, 19R, 28L, 28R								VEGETATION 165 FT, SHIPS OUTSIDE OF 3 NM 150 FT, SHIPPING CHANNEL LOCATED OUTSIDE OF 3 NM FROM SHORE PER FPT, PER ATC AND FPT, BOAT HEIGHTS WITHIN 3NM ARE SMALL ENOUGH TO HAVE NO IMPACT ON PROCEDURE																
				MIDFIELD 01L, 01R, 10L, 10R, 19L, 19R, 28L, 28R																								
				ROLL OUT 01L, 01R, 10L, 10R, 19L, 19R, 28L, 28R																								
9. FINAL APPROACH COURSE AIMING				GP ANGLE: 2.85								OBSTACLE 5 LOCATED 5790 FEET INTO SECONDARY.																
				ELEV RWY THRESHOLD: 12.6																								
				ELEV GP ANTENNA: 8.2																								
10. WAIVERS: 2				DISTANCE FROM RWY: 1066								CIRCLING 01R, 01L, NA AT NIGHT DUE TO 20:1.																
				THRESHOLD CROSSING HEIGHT: 52.6																								
PART D - PREPARED BY: RONALD SALPINO					DATE: 03/14/2016					FIX LOCATIONS AND ALT DETERMINED FOR INTERCEPT OF GS, USING 8260.54A L-V RNP PFAF FORMULA 2-16B, ALL ON 2.85 DEGREE GS: HEMAN 3100, ROKME 4000, WETOR 5000, PONKE 6000, DIVEC 7000. NEPIC SDF PLACEMENT REQUEST BY ATC AS A MARKER FOR NTZ ONLY.																		
TITLE: AERONAUTICAL INFORMATION SPECIALIST					OFFICE: AJV-5431					ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS: 20:1 RWY01L 555 TREE (KSFOT2294) 373506.05N/1222354.73W (48.79) 553 TREE (KSFOT2318) 373507.40N/1222359.24W (44.37) 536 TREE (KSFOT2300) 373509.43N/1222403.14W (29.13) 532 TREE (KSFOT2269) 373508.85N/1222359.74W (28.91) 520 TREE (KSFOT2219) 373510.46N/1222400.05W (23.53) 526 TREE (KSFOT2277) 373505.11N/1222351.40W (21.83) 491 TREE (KSFOT2062) 373516.27N/1222402.84W (15.29) 495 TREE (KSFOT2116) 373515.41N/1222404.58W (12.18) 511 TREE (KSFOT2237) 373510.48N/1222401.35W (12.18) 515 BLDG (06-035125) 373507.70N/1222357.56W (10.86) 503 TREE (KSFOT2204) 373508.90N/1222355.30W (8.46) 506 TREE (KSFOT2241) 373512.01N/1222405.27W (6.68) 486 TREE (KSFOT2095) 373513.40N/1222357.92W (6.68) 516 BLDG (06-035131) 373509.91N/1222405.97W (5.97) 506 TREE (KSFOT2248) 373511.16N/1222403.68W (5.86) 485 TREE (KSFOT2100) 373515.21N/1222402.83W (4.56) RWY01R 588 TREE (KSFOT2457) 373503.05N/1222358.14W (77.75) 567 TREE (KSFOT2397) 373504.44N/1222357.02W (65.07) 555 TREE (KSFOT2294) 373506.05N/1222354.73W (64.57) 568 TREE (KSFOT2414) 373503.07N/1222355.18W (63.39) 571 TREE (KSFOT2448) 373504.72N/1222401.43W (62.05) 553 TREE (KSFOT2318) 373507.40N/1222359.24W (60.15) CONT.																		



STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT		FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INTERMEDIATE		HEMAN INT/I-SFO	DUYET INT/I-SFO	15. TOWER (06-000075)	373250.00N/1221402.00W	563 (2C)	500	XP737	1800
		11.97 DME	7.67 DME	16. TERRAIN	372836.00N/1221242.00W	27 (0)		AS1500	1500
FINAL: ILS**		DUYET INT/I-SFO	RW28L				ASC		213/200
		7.67 DME							
FINAL: ILS		DUYET INT/I-SFO	RW28L				ASC		789/776
		7.67 DME							
FINAL: LOC**		DUYET INT/I-SFO	NEPIC/I-SFO 5.30						
		7.67 DME	DME						
FINAL: LOC		NEPIC/I-SFO 5.30	3.36 NM AFTER	18. TREE (KSFOT3545)	373525.47N/1221918.53W	203 (1A)	250		460
		DME	NEPIC/I-SFO						
			5.30 DME OR AT						
			I-SFO 1.94 DME						
			FIX						
FINAL: LOC		NEPIC/I-SFO 5.30	3.36 NM AFTER	18. TREE (KSFOT3545)	373525.47N/1221918.53W	203 (1A)	250		740
		DME	NEPIC/I-SFO						
			5.30 DME OR AT						
			I-SFO 1.94 DME						
			FIX						
3. MISSED APPROACH		MAP:							
		ELEV:							
4. CIRCLING AREA		DISTANCE	HT. ABV. ARPT.						
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL					
CATEGORY B	1.5 NM		450						
CATEGORY C	1.7 NM		450						
CATEGORY D	2.3 NM		550						
CATEGORY E	4.5 NM		550						
5. MINIMUM SAFE ALTITUDES					PRIMARY NAVAID:				
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
CITY AND STATE		ELEVATION: 13		FACILITY	PROCEDURE AND AMENDMENT NO:			REGION	
SAN FRANCISCO, CA		AIRPORT NAME: SAN FRANCISCO INTL		I-SFO	ILS OR LOC RWY 28L, AMDT 25A; ILS RWY 28L (SA CAT II)			4 CHECKED AWP	

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE			3. ALTIMETER SETTING			CONTINUED. 563 TREE (KSFOT2437) 373506.02N/1222403.29W (56.38) 554 TREE (KSFOT2388) 373506.40N/1222401.30W (52.81) 551 BLDG (06-033984) 373507.28N/1222403.40W (49.81) 552 BLDG (06-035176) 373504.15N/1222358.69W (45.64) 536 TREE (KSFOT2300) 373509.43N/1222403.14W (44.91) 532 TREE (KSFOT2269) 373508.85N/1222359.74W (44.69) 546 CHY ON BLDG (KSFO0019) 373507.20N/1222403.43W (44.39) 539 TREE (KSFOT2351) 373504.84N/1222355.35W (41.99) 541 TREE (KSFOT2393) 373503.32N/1222354.16W (39.43) 520 TREE (KSFOT2219) 373510.46N/1222400.05W (39.31) 542 TREE (KSFOT2410) 373505.36N/1222400.29W (38.05) 526 TREE (KSFOT2277) 373505.11N/1222351.40W (37.61) 540 BLDG (06-035145) 373507.59N/1222404.97W (37.25) 531 TREE (KSFOT2334) 373507.75N/1222401.04W (36.34) 535 BLDG (06-035143) 373505.59N/1222359.00W (34.50) 511 TREE (KSFOT2237) 373510.48N/1222401.35W (27.97) 526 TREE (KSFOT2359) 373503.62N/1222353.23W (27.51) 515 BLDG (06-035125) 373507.70N/1222357.56W (26.64) 521 TREE (KSFOT2335) 373505.78N/1222356.44W (26.15) 503 TREE (KSFOT2204) 373508.90N/1222355.30W (24.24) 486 TREE (KSFOT2095) 373513.40N/1222357.92W (22.46) 530 TREE (KSFOT2441) 373502.04N/1222354.53W (22.01) 512 TREE (KSFOT2348) 373504.41N/1222354.11W (15.39) 508 TREE (KSFOT2332) 373503.88N/1222351.72W (13.51) 508 TREE (KSFOT2333) 373508.30N/1222402.32W (13.40) 518 TREE (KSFOT2434) 373501.47N/1222352.31W (11.62) 493 TREE (KSFOT2226) 373506.78N/1222351.71W (11.50) 472 TREE (KSFOT2067) 373513.62N/1222356.84W (11.47) 477 TREE (KSFOT2112) 373508.09N/1222346.81W (10.54) 498 BLDG (06-035126) 373505.82N/1222353.17W (9.46) 508 BLDG (06-035141) 373503.72N/1222354.36W (7.84) 487 TREE (KSFOT2209) 373510.06N/1222358.35W (7.71) 495 BLDG (06-035124) 373506.95N/1222355.26W (7.60) 487 BLDG (06-033969) 373510.60N/1222359.78W (7.45) 496 POLE (06-035046) 373509.12N/1222401.37W (6.84) 477 TREE (KSFOT2155) 373508.80N/1222351.56W (4.81) 488 TREE (KSFOT2240) 373509.07N/1222358.15W (4.66) 501 TREE (KSFOT2347) 373502.89N/1222350.48W (4.40) 468 TREE (KSFOT2098) 373508.29N/1222346.11W (3.75) 484 TREE (KSFOT2217) 373505.85N/1222348.89W (3.63) 481 POLE (06-035042) 373508.17N/1222353.89W (1.61) 463 TREE (KSFOT2080) 373508.47N/1222345.29W (1.10) RWY10R 17 OL ON LOC (KSFO0059) 373735.65N/1222337.60W (8.93) 17 NAVAID (06-035340) 373735.65N/1222337.60W (8.93) 17 NAVAID (06-034149) 373736.01N/1222338.19W (5.99) 17 LOC (KSFOT3286) 373736.01N/1222338.19W (5.99) CAT D CIRCLING NA - CIRCLING MINIMUMS ABOVE FAF ALTITUDE R28L ILS CLIMB GRADIENT: 278.89 FT/NM TO 1400. CALCULATIONS PER 8260.58, VOLUME 6, CALCULATOR 5-9 R28L LOCALIZER: CLIMB GRADIENT: 265.13 FT/NM TO 1700 FT: CALCULATIONS PER 8260.54A FORMULA 6-9 ILS R28L SA CAT II: CLIMB GRADIENT 320.97 ROUNDED UP TO 325 DUE TO MANUAL CALC(DRAWING) FT/NM TO 2100 FT. CALCULATIONS PER AFS-400 MEMO, AUG 16, 2011 INTERIM4 CRITERIA FOR PRECISION APPROACH OBSTACLE ASSESSMENT, PARAGRAPH 6.9.2. OBSTACLES DRIVING 325 FT PER NM CG TO 2100 ON ILS RWY 28L (SA CAT II): 1149 AAO (1027 PRI EQUIV) CONT.
Satisfactory On:				LOCATION:			ADJUSTMENT:			
4. MONITOR STATUS				PRIMARY NAVAID:						
				MONITOR POINT:						
				HRS OPTN:			CAT 1			
							CAT 3			
5. APPROACH & RUNWAY LIGHTING							ALS			
							(S) SALS			
							MALS			
							HIRL			
							MIRL			
							REIL			
							TDZ			
							C/LINE			
				OTHER (SPECIFY)						
6. RUNWAY MARKINGS				BASIC						
				ALL WEATHER						
				INSTRUMENT						
7. RUNWAY VISUAL RANGE				APPROACH						
				MIDFIELD						
				ROLL OUT						
8. GLIDE PATH				GP ANGLE:			ELEV RWY THRESHOLD:			
				DISTANCE FROM RWY:			ELEV GP ANTENNA:			
							THRESHOLD CROSSING HEIGHT:			
9. FINAL APPROACH COURSE AIMING						RUNWAY THRESHOLD FT. FROM THRESHOLD				
						ON CENTERLINE FT. FROM CENTERLINE				
10. WAIVERS:										
PART D - PREPARED BY:							DATE:			
TITLE:							OFFICE:			

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD	
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PART - A OBSTRUCTION DATA

[illegible]

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
CATEGORY B	1.5 NM		450							
CATEGORY C	1.7 NM		450							
CATEGORY D	2.3 NM		550							
CATEGORY E	4.5 NM		550							

5. MINIMUM SAFE ALTITUDES					PRIMARY NAVAID:				
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
									QUALITY
									4

CITY AND STATE SAN FRANCISCO, CA	ELEVATION: 13 AIRPORT NAME: SAN FRANCISCO INTL	FACILITY I-SFO	PROCEDURE AND AMENDMENT NO: ILS OR LOC RWY 28L, AMDT 25A; ILS RWY 28L (SA CAT II)	REGION AWP
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PART B - SUPPLEMENTAL DATA										PART C - REMARKS: CONTINUED. 373723.61N/1222747.12W DRIVES CG ON PRI MA AND 2144 SPOT AAO 373134.08N/1222517.03W DRIVES CLIMB TO ALT ON ALT MA. SIMULTANEOUS OPERATIONS WITH ILS OR LOC 28R AUTHORIZED PER JO 7110.308, CHANGE 3 "CHART NOTE: LOC PROCEDURE NA DURING SIMULTANEOUS OPERATIONS." ADDED TO PROCEDURE AT THE REQUEST OF AFS-410 WHO COORDINATED WITH ATC AND HAS THEIR CONCURRENCE. PER COORDINATION WITH ATC AND THE FPT, CIRCLING TO RWY 10L, 10R, 19L, AND 19R ARE NA. CIRCLING HAS BEEN REMOVED FROM ALL PROCEDURES TO THOSE RUNWAYS. CIRCLING CAT A PDF EDITED BECAUSE OF MULTIPLE LOC MINIMUMS LINES IT IS LOCKED ONTO 1080 STEPDOWN. XP 15: GS INTERCEPT ALT AND DIST XP 11: GS INTERCEPT ALT AND DIST XP 3: GS INTERCEPT ALT AND DIST XP 13: GS INTERCEPT ALT AND DIST XP 9: GS INTERCEPT ALT AND DIST XP 21: MAINTAIN PREVIOUS MINIMUMS. XP 5: GS INTERCEPT ALT AND DIST XP 7: GS INTERCEPT ALT AND DIST MISSED APPROACH OBSTACLES CONT. ALTERNATE: ASC 5000 24. AAO 373144.00N/1222539.00W 2144 (2A) 1000 3200 25. TERRAIN 373144.00N/1222539.00W 1944 (1900) 3400		
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING						
SATISFACTORY ON:				N W S	OTHER:		SOURCE:					
				F A A			DISTANCE:					
				A / C			HOURS REMOTE OPERATION:					
	V H F		U H F		H F	LOCATION:			ADJUSTMENT:			
4. MONITOR STATUS		PRIMARY NAVAID:										
		MONITOR POINT:										
		HRS	CAT 1									
	OPTN:	CAT 3										
5. APPROACH & RUNWAY LIGHTING			ALS									
			(S) SALS									
			MALS									
			HIRL									
			MIRL									
			REIL									
			TDZ									
			C/LINE									
		OTHER (SPECIFY)										
6. RUNWAY MARKINGS		BASIC										
		ALL WEATHER										
		INSTRUMENT										
7. RUNWAY VISUAL RANGE		APPROACH										
		MIDFIELD										
		ROLL OUT										
8. GLIDE PATH		GP ANGLE:					ELEV RWY THRESHOLD:					
		DISTANCE FROM RWY:					ELEV GP ANTENNA:					
							THRESHOLD CROSSING HEIGHT:					
9. FINAL APPROACH COURSE AIMING				RUNWAY THRESHOLD					FT. FROM THRESHOLD			
				ON CENTERLINE					FT. FROM CENTERLINE			
10. WAIVERS:												
PART D - PREPARED BY:										DATE:		
TITLE:										OFFICE:		

