

FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 GLS 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> GLS RWY 19L	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> SAN FRANCISCO	<u>STATE</u> CA		
<u>AIRPORT ELEVATION</u> 13	<u>TDZE</u> 11	<u>SUPERSEDED</u> GLS RWY 19L	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 12/02/2021	<u>MAG VAR</u> 14E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> GLS	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 NOVEMBER 2023	<u>REQUIRED EFFECTIVE DATE</u> 11/30/2023	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
UPEND	IAF	BERKS		TF	FB	1.00	193.98	11.61	5000
BERKS	IF	SHAKE	PFAF	TF	FB	1.00	193.91	7.24	2800
SHAKE	PFAF	RW19L	MAP	TF	FO	0.30	193.86	8.59	
RW19L	MAP	920 MSL		CA			193.86		920
920 MSL		PRTLA		DF	FO	1.00			4000

**MISSED APPROACH**

**MAP:**  
GLS: DA

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 920 THEN CLIMBING LEFT TURN TO 4000 DIRECT PRTLA AND HOLD.  
 MISSED APPROACH REQUIRES MINIMUM CLIMB OF 357 FEET PER NM TO 2000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**





**CHANGES - REASONS**

1. MISSED APPROACH INSTRUCTIONS CHANGED FROM "CLIMB TO 500 THEN CLIMBING LEFT TURN TO 4000 DIRECT BAAIR AND 108.90 TRACK TO KATFH AND HOLD" TO "CLIMB TO 920 THEN CLIMBING LEFT TURN TO 4000 DIRECT PRTLA AND HOLD" - UPDATED PER FPT CHECKLIST.
2. ADDED CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE TO MISSED APPROACH INSTRUCTIONS - ADDED PER CHECKLIST AND TO MITIGATE MISSED APPROACH PENETRATIONS.
3. ADDED SPEED RESTRICTION OF 210 KIAS AT BERKS. - ADDED PER FPT REQUEST FOR ALWAYS STAR TERMINUS.
4. REMOVED PROFILE LINE 5 "282 HAT: 0.71" - NOT REQUIRED IAW 8260.19I, PARA 8-6-7 E.
5. PROFILE LINE 3: DELETED PFAF TO MAP DISTANCE 8.59 - NOT REQUIRED FOR GLS PROCEDURES.
6. DELETED CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED. SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDEPATH - NA DUE TO CLOSELY SPACED PARALLEL RWYS, IAW JO 7110.308D.
7. DELETED CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS - NA DUE TO CLOSELY SPACED PARALLEL RWYS, IAW JO 7110.308D.
8. CHANGED ADDITIONAL FLIGHT DATA HOLDING FROM "HOLD W, RT, 109.00 INBOUND" TO "HOLD NW, RT, 138.00 INBOUND" - MISSED APPROACH CLEARANCE LIMIT AND HOLDING HAVE CHANGED.
9. PROFILE LINE 6 CHANGED FROM "MIN GS INCPT" TO "MIN GP INCPT" AND FROM "GS ALT AT PFAF" TO "GP ALT AT PFAF" - IAW 8260.19 PARA 8-6-7.

**COORDINATED WITH:**

AAA 
ALPA 
AOPA 
APA 
HAL 
NBAA 
OTHER: ZOA, NORCAL APP CON, SFO ATCT, CITY & COUNTY OF SAN FRANCISCO

FLIGHT CHECKED BY  
JOEL P MURPHY

*Digitally signed by*  
**CASIMIR L TABAKA**  
Apr 21, 2023

OFFICE  
FPO  
DATE  
08/17/2023

DEVELOPED BY  
FRANK JACKSON JR

*Digitally signed by*  
**FRANK JACKSON**  
Mar 30, 2023

OFFICE  
AJV-A431  
DATE  
03/21/2023

APPROVED BY  
JOHNNIE BAKER

*Digitally signed by*  
**ERIC N SUSKI**  
Apr 19, 2023

OFFICE  
AJV-A430

DATE

TITLE  
MANAGER



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
 GLSOR STANDARD INSTRUMENT APPROACH PROCEDURE  
 FLIGHT STANDARD SERVICE - FAR PART 97.33**

Bearings, headings courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RAltitudes 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.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	14
AIRPORT IDENTIFIER	KSFO
RUNWAY	RW19L
APPROACH PERFORMANCE DESIGNATOR	1
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	3
REFERENCE PATH IDENTIFIER (APPROACH ID)	G19A
LTP/FTP LATITUDE	373738.4315N
LTP/FTP LONGITUDE	1222201.5990W
LTP/FTP ELLIPSOIDAL HEIGHT	-00294
FPAP LATITUDE	373619.5260N
FPAP LONGITUDE	1222253.9080W
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)	
VERTICAL ALERT LIMIT (VAL)	
<u>CRC REMAINDER</u>	4558F77E

ADDITIONAL PATH POINT RECORD INFORMATION

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



CITY AND STATE SAN FRANCISCO, CA	ELEVATION:	TDZE:11	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./	SUP: GLS RWY 19L
	AIRPORT NAME		GSFO	GLS RWY 19L, 1	AMDT:
	SAN FRANCISCO INTL			EFFECTIVE DATE:	DATED:
				08/09/2023	