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.

PROCEDURE NAME **ORIGINAL/AMENDMENT CITY STATE AIRPORT ID** GLS RWY 19R SAN FRANCISCO CA **KSFO AIRPORT ELEVATION TDZE SUPERSEDED ORIGINAL/AMENDMENT DATED MAG VAR EPOCH YEAR** GLS RWY 19R ORIG 12/02/2021 13 11 14E 2015 **FACILITY COORDINATES OF FACILITIES ACTUAL EFFECTIVE DATE** REQUIRED EFFECTIVE DATE **CANCEL/SUSPEND** GLS

11/30/2023

30 NOVEMBER 2023

TERMINAL ROUTES

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	<u>COURSE</u>	DISTANCE	ALTITUDE
UPEND	IAF	HITOD		TF	FB	1.00	194.59	11.45	4000
HITOD	IF	ESUME	PFAF	TF	FB	1.00	193.91	7.93	2800
ESUME	PFAF	RW19R	MAP	TF	FO	0.30	193.86	8.18	
RW19R	MAP	600 MSL		CA			193.86		600
600 MSL		THHEO		DF	FO	1.00			3000

MISSED APPROACH

MAP:

GLS: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 DIRECT THHEO AND HOLD. MISSED APPROACH REQUIRES MINIMUM CLIMB OF 395 FEET PER NM TO 2100.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



AIRPORT ID PROCEDURE NAME ORIGINAL/AMENDMENT CITY STATE

KSFO GLS RWY 19R 1 SAN FRANCISCO CA

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. PROFILE STARTS AT HITOD

3. FAC: 193.86 **PFAF:** ESUME **DIST PFAF TO MAP: DIST PFAF TO THLD:**

4. MIN ALT: HITOD 4000, ESUME 2800

5. DIST TO THLD FROM PFAF: 8.18 MM: IM: 150 HAT: GS ANT:

6. MIN GP INCPT: 2800 GP ALT AT PFAF: ESUME 2800 OM: MM: IM:

7. GP ANGLE: 3.15 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 55.0

8. MSA FROM: RW19R 5000

PBN REQUIREMENTS NOTE:

RNP APCH - GPS

NOTES:

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 321 FEET.

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 322.66 INBOUND. GBAS CHANNEL # 21859 REFERENCE PATH ID: G19B LTP HAE: -29.8 M

MINIMUMS:

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

ALTERNATE: NA



CATEGORY:	A		В			С			D			E			
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA	DA/MDA	<u>VIS</u>	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	<u>VIS</u>	HAT/HAA	DA/MDA	<u>VIS</u>	HAT/HAA
GLS DA	321	4500	310	321	4500	310	321	4500	310	321	4500	310			

CHANGES - REASONS

- 1. MISSED APPROACH CHANGED FROM "(DO NOT EXCEED 220 KNOTS UNTIL WIYXU) CLIMB TO 600 THEN CLIMBING LEFT TURN TO 3000 DIRECT WIYXU AND TRACK 103.90 TO DUMBA AND HOLD." TO "CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 DIRECT THEO AND HOLD." UPDATED PER FPT CHECKLIST.
- 2. ADDED CLIMB GRADIENT AND CLIMB GRADIENT TERMINATION ALTITUDE TO MISSED APPROACH. ADDED PER IFP CHECKLIST AND TO MITIGATE MISSED APPROACH PENETRATIONS.
- 3. REMOVED PROFILE LINE 5 "310 HAT: 0.77" NOT REQUIRED IAW 8260.19I, PARA 8-6-7 E.
- 4. PROFILE LINE 3: DELETED PFAF TO MAP DISTANCE 8.18 NOT REQUIRED FOR GLS PROCEDURE.
- 5. 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.
- 6. DELETED CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS NA DUE TO CLOSELY SPACED PARALLEL RWYS. IAW JO 7110.308D.
- 7. CHANGED ADDITIONAL FLIGHT DATA "HOLD W. LT. 104.00 INBOUND" TO "HOLD SE. LT. 322.66 INBOUND" MISSED APPROACH CLEARANCE LIMIT AND HOLDING HAVE CHANGED.
- 8. PROFILE LINE 6 CHANGED "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: A4A X ALPA X	AOPA X APA X	HAI 🗌	NBAA X	OTHER: ZOA, NO	RCAL APP CON, SFO ATC	T, CITY & COUNTY OF SAN FRANC	CISCO
FLIGHT CHECKED BY JOEL P MURPHY	Digitally signed by			itally signed by MIR L TABAKA	OFFICE FPO	DATE 08/17/2023	
<u>DEVELOPED BY</u> FRANK JACKSON JR	FRANK JACKSON Apr 11, 2023		Α	pr 21, 2023	OFFICE AJV-A431	DATE 03/22/2023	
APPROVED BY JOHNNIE BAKER	Digitally signed by ERIC N SUSKI Apr 19, 2023				OFFICE AJV-A430	<u>DATE</u>	<u>TITLE</u> MANAGER

ORIGINAL/AMENDMENT
1

<u>CITY</u> SAN FRANCISCO STATE CA

PROCEDURE NAME GLS RWY 19R

AIRPORT ID KSFO

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

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FAS DATA BLOCK INFORMATION

DATA FIELD DATA

OPERATION TYPE

SBAS SERVICE PROVIDER IDENTIFIER 14

AIRPORT IDENTIFIER KSFO

RUNWAY RW19R

APPROACH PERFORMANCE DESIGNATOR 1

ROUTE INDICATOR

REFERENCE PATH DATA SELECTOR 4

REFERENCE PATH IDENTIFIER (APPROACH ID) G19B

LTP/FTP LATITUDE 373735.3325N

LTP/FTP LONGITUDE 1222214.1935W

LTP/FTP ELLIPSOIDAL HEIGHT -00298

FPAP LATITUDE 373616.4260N

FPAP LONGITUDE 1222306.4990W

THRESHOLD CROSSING HEIGHT (TCH) 00055.0

TCH UNITS SELECTOR (METERS OR FEET USED) F

GLIDEPATH ANGLE (GPA) 03.15

COURSE WIDTH AT THRESHOLD 106.75

LENGTH OFFSET 0416

HORIZONTAL ALERT LIMIT (HAL)

VERTICAL ALERT LIMIT (VAL)

CRC REMAINDER 00B896FE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K2

LTP ORTHOMETRIC HEIGHT +00028

FPAP ORTHOMETRIC HEIGHT +00028

OVALITY 26 CHECKER

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION:

AIRPORT NAME
SAN FRANCISCO INTL

TDZE:11

FACILITY
IDENTIFIER:

GLS RWY 19R, 1

EFFECTIVE DATE:

DATED:

08/09/2023