

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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.

AIRPORT HALF MOON BAY	AIRPORT ID KHAF	PROCEDURE NAME RNAV (GPS) RWY 30	ORIGINAL/AMENDMENT 1	CITY HALF MOON BAY	STATE CA
AIRPORT ELEVATION 66	TDZE 54	SUPERSEDED RNAV (GPS) Z RWY 30	ORIGINAL/AMENDMENT ORIG-C	DATED 02/01/2018	MAG VAR 15E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 28 FEBRUARY 2019	REQUIRED EFFECTIVE DATE ROUTINE	CANCEL/SUSPEND	EPOCH YEAR 1995

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SAPID	IAF	JUMDA		TF	FB	1.00	313.23	9.91	3800
JUMDA	IF	WOHLI		TF	FB	1.00	302.05	5.92	3300
WOHLI	FAF	MAVKC/5.23 NM TO RW30		TF	FB	0.30	302.01	3.44	
MAVKC/5.23 NM TO RW30		RW30	MAP	TF	FO	0.30	302.01	5.23	
RW30	MAP	381 MSL		CA			302.01		
381 MSL		LAYKI		DF	FB	1.00			
LAYKI		SEEMS		TF	FO	1.00	267.08	3.83	4000

MISSED APPROACH

MAP:

LPV: DA
LNAV: RW30

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT LAYKI AND ON TRACK 267.08 TO SEEMS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- 2. PROFILE STARTS AT JUMDA
- 3. **FAC:** 302.01 **FAF:** WOHLI **DIST FAF TO MAP:** 8.68 **DIST FAF TO THLD:** 8.68
- 4. **MIN ALT:** JUMDA 3800, WOHLI 3300, MAVKC/5.23 NM TO RW30 2020*
- 5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **327 HAT:** 0.82 **GS ANT:**
- 6. **MIN GP INCPT:** 3300 **GP ALT AT FAF :** WOHLI 3300 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.50 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 40.0
- 8. **MSA FROM:** RW30 4500

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA EAST OF RWY 12-30.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

CHART ARRIVAL HOLDING AT SAPID: HOLD S, LT 313.23 INBOUND
 CHART CIRCLING ICON.
 CHART VDP AT 1.75 NM TO RW30*
 *LNAV ONLY
 WAAS CHANNEL #50302
 REFERENCE PATH ID: W30A
 FAS OBST: 520 AAO 372751N/1222515W.
 HOLD NW, RT, 144.00 INBOUND
 LTP HAE: -22.1 M

MINIMUMS:

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

ALTERNATE: NA STANDARD

CATEGORY:	A			B			C			D			E		
	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
LPV DA	381	1	327	381	1	327	381	1	327	381	1	327			
LNAV MDA	620	1	566	620	1	566	620	1	566	620	1 5/8	566			
CIRCLING	660	1	594	660	1	594	660	1 5/8	594	660	2	594			



CHANGES - REASONS

1. REMOVED PLANVIEW NOTE FROM: "PROCEDURE NA FOR ARRIVALS AT SAPID ON V25 - V87 SOUTHEAST BOUND AND T259 SOUTHWEST BOUND." - PROCEDURE NOW HAS HOLDING AT SAPID WHICH ALLOWS SOUTHBOUND TRAFFIC FROM V25-V87 AND T259.
2. ADDED LNAV MINIMUMS AND VDP TO APPROACH - COMBINED RNAV (GPS) Y RWY 30 WITH RNAV (GPS) Z RWY 30
3. ADDED SDF MAVCK - ALLOWS LOWEST POSSIBLE MDA ON LNAV FINAL.
4. MOVED PFAF WOHLI FROM 1074 FT SOUTHEAST - NEW PFAF LOCATION.
5. UPDATE MISSED APPROACH WORDING FROM "CLIMB TO 6000 DIRECT LAYKI AND VIA 267.08 TRACK TO SEEMS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000." TO "CLIMB TO 4000 DIRECT LAYKI AND ON TRACK 267.08 TO SEEMS AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000." - ATC REQUESTED.
6. ADDED CIRCLING MINIMUMS TO APPROACH - COMBINED CIRCLING LINE OF MINIMA FROM RNAV (GPS) Y RWY 30 PROCEDURE.
7. CHANGED CHART NOTE: CIRCLING NA EAST OF RWY 12-30 - MITIGATES TERRAIN EAST OF THE AIRPORT AND ALLOWS LOWER CIRCLING MDA.
8. CHANGED CRC REMAINDER FROM 3F563F96 TO 19A3DF49 - ROUTE INDICATOR CHANGED FROM Z TO "BLANK" AND FPAP CHANGED TO 373140.9830N/1223105.9465W.
9. DELETED CHART NOTE: DME/DME RNP - 0.3 NA: UPDATED RNP APCH TO PBN REQUIREMENTS NOTE - 8260.19H PARA 4-6-10.E APPLIED.
10. MOVED ALL REFERENCES TO SECONDARY ALTIMETER SETTINGS TO 8260-9 - NEW CRITERIA APPLIED.
11. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - NEW CIRCLING CRITERIA APPLIED 8260.19H PARA 8-6-10.T. APPLIED.
12. LPV DA/HAT CHANGED FROM 363/309 TO 381/ 327 - NEW OBS IN MA SECTION.
13. CHANGED ALTERNATE MINS FROM NA TO STANDARD - INCORPORATED P-NOTAM 0/0656.
14. ADDED HOLDING AT SAPID WITH LT - ATC REQUESTED.

PDF EDIT: TERMINAL ROUTE: REMOVED 381 FT FROM CA LEG ALTITUDE AND IN TF LEG REPLACED 381 FT WITH 4000FT (SEEMS).

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** NORCAL APP CON, ZOA, AIRPORT MANAGER

FLIGHT CHECKED BY

THOMAS E MOLOKIE

Digitally signed by
ROBERT G HAMILTON
Dec 10, 2018

OFFICE

FICO

DATE

12/9/18

DEVELOPED BY

DAVID DANNER (DEAN GRACEY)

Digitally signed by
ROBERT G HAMILTON
Dec 10, 2018

OFFICE

AJV-5421

DATE

10/19/2018

APPROVED BY

JULIE MORGAN

Digitally signed by
ROBERT G HAMILTON
Dec 10, 2018

OFFICE

AJV-5420

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHAF
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	373035.8200N
LTP/FTP LONGITUDE	1222949.4610W
LTP/FTP ELLIPSOIDAL HEIGHT	-00221
FPAP LATITUDE	373140.9830N
FPAP LONGITUDE	1223105.9465W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.50
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1456
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	19A3DF49

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00109
FPAP ORTHOMETRIC HEIGHT	+00109

