

**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.

<u>AIRPORT</u> PALO ALTO	<u>AIRPORT ID</u> KPAO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> PALO ALTO	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 7	<u>TDZE</u> 7	<u>SUPERSEDED</u> GPS RWY 31	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 10/15/2015	<u>MAG VAR</u> 15E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1995

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>
SAPID	IAF	YERKS		TF	FB	1.00	052.46	6.24	4800
YERKS		DOCAL		TF	FB	1.00	052.58	2.01	4500
CREDO	IAF	DOCAL		TF	FB	1.00	329.51	6.14	4500
DOCAL	IF	ACHOZ		TF	FB	1.00	329.38	3.70	3500
ACHOZ		PUDBY		TF	FB	1.00	329.79	4.85	2200
PUDBY	FAF	GIDGY	MAP	TF	FO	0.30	321.72	4.60	
GIDGY	MAP	1400 MSL		CA			321.72		1400
1400 MSL		SJC VOR/DME		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV: GIDGY

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 3000 DIRECT SJC VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT DOCAL

3. FAC: 321.72

FAF: PUDBY

DIST FAF TO MAP: 4.60

DIST FAF TO THLD: 5.09

4. MIN ALT: DOCAL 4500, ACHOZ 3500, PUDBY 2200

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS NOT CLEAR

TCH:

8. MSA FROM: GIDGY 5600

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA SW OF RWY 13-31.
CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: WHEN CONTROL TOWER CLOSED, USE NORMAN Y MINETA SAN JOSE INTL ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET.

ADDITIONAL FLIGHT DATA:

PUDBY TO GIDGY: 4.00/30.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 15 DEGREES.
CHART CIRCLING ICON.
CHART KSIJC, KNUQ IN PLAN AND PROFILE VIEWS.
CHART FAS OBST: 206 TOWER 372637N/1220648W.
CHART: 281 POLE 372307N/1220410W.
FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.
HOLD E, LT, 286.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN CONTROL TOWER CLOSED.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	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
LNAV MDA	460	1	453	460	1	453		NA			NA				
CIRCLING	460	1	453	520	1	513		NA			NA				



CHANGES - REASONS

1. CHANGED ALL REFERENCES OF RWY 12/30 TO RWY 13/31 - INCORPORATED AMDT 1B P-NOTAM.
2. AIRPORT NAME CHANGED FROM PALO ALTO ARPT OF SANTA CLARA CO TO PALO ALTO AIRPORT - INCORPORATED AMDT 1C P-NOTAM.
3. CHANGED PROCEDURE NAME FROM GPS RWY 31 TO RNAV GPS RWY 31 - IAW CURRENT 8260.58A PBN CRITERIA.
4. AIRPORT ELEVATION AND TDZE CHANGED FROM 3 TO 7 - PER UPDATED AIRNAV DATA.
5. ADDED TERMINAL ROUTE SAPID (IAF) TO YERKS (SDF) AT COURSE/DIST 52.46/6.24, ALTITUDE RAISED FROM 4400 TO 4800 - PER CATEX DATED 20 DEC 2018.
6. ADDED TERMINAL ROUTE YERKS (SDF) TO DOCAL (IF) AT COURSE/DIST 52.58/2.01, ALTITUDE 4500 - TO MAINTAIN INTERMEDIATE ALTITUDE OF 4500 FEET AT DOCAL (IF) PER CATEX DATED 20 DEC 2018.
7. DELETED TERMINAL ROUTE LICKE (IAF) TO DOCAL (IF) - PER CATEX DATED 20 DEC 2018.
8. ADDED NEW TERMINAL ROUTE INITIAL SEGMENT BEEKR (IAF) TO DOCAL (IF) AT COURSE/DIST 329.51/6.14, ALTITUDE 4500 FEET - PER CATEX DATED 20 DEC 2018.
9. MIN ALT AT DOCAL (IF) RAISED FROM 4400 TO 4500 - PER CATEX DATED 20 DEC 2018.
10. ALL REFERENCES OF '5.0 ATD TO PUDBY WP' CHANGED TO 'ACHOZ' - PROPER FIX NAMING CONVENTION, MATCHES CURRENTLY PUBLISHED PROCEDURE.
11. DOCAL TO ACHOZ COURSE/DIST CHANGED FROM 328.70/3.00 TO 329.38 3.70 - ATC REQUEST.
12. ACHOZ TO PUDBY COURSE/DISTANCE CHANGED FROM 328.70/5.00 TO 329.79 4.85 - ATC REQUEST, FAF MOVED DUE TO INCREASE IN ALTITUDE.
13. RAISED MIN ALT AT PUDBY (FAF) FROM 2000 FEET TO 2200 FEET - NEW CONTROLLING OBSTACLE.
14. ADDED TERMINAL ROUTE PUDBY (FAF) TO GIDGY (MAP) - MAP ESTABLISHED AT 3000 FT PRIOR TO RWY THLD DUE TO 15 DEGREE OFFSET IAW 8260.58A PBN CRITERIA.
15. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT SJC VOR/DME AND HOLD" TO "CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 3000 DIRECT SJC VOR/DME AND HOLD" - CLIMB TO 1400 TO AVOID CLIMB-IN-HOLD.
16. ALL REFERENCES OF ABSIW CHANGED TO DOCAL - TO MATCH CURRENTLY CHARTED IF.
17. PROFILE LINE 3: UPDATED FAC FROM 321.69 TO 321.72 AND ADDED DIST FAF TO MAP: 4.60 - MAP ESTABLISHED AT 3000 FT PRIOR TO RWY THLD DUE TO 15 DEGREE OFFSET IAW 8260.58A PBN CRITERIA.
18. PROFILE LINE 3: UPATED DIST FAF TO THLD FROM 5.00 TO 5.09 - MOVED FAF DUE TO ALT INCREASE FROM 2000 TO 2200.
19. PROFILE LINE 4: UPDATED MIN ALT FROM ABSIW WP 4400, 5.0 ATD TO PUDBY WP 3500, PUDBY WP 2000 TO DOCAL 4500, ACHOZ 3500, PUDBY 2200 - PROCEDURE REDESIGN PER CATEX DATED 20 DEC 2018.
20. PROFILE LINE 7: ADDED 34:1 AND 20:1 NOT CLEAR NOTE - IAW 8260.19H PARA 8-6-7G (3).
21. PROFILE LINE 8: UPDATED MSA FROM RW30 AT 5600 TO GIDGY AT 5600 - IAW 8260.19H 8-6-7H (1).
22. ADDED PBN REQUIREMENTS NOTE: RNP APCH - NEW REQUIRED NOTE IAW 8260.19H.
23. UPDATED CHART NOTE FROM WHEN CONTROL TOWER CLOSED, USE SAN JOSE INTERNATIONAL ALTIMETER SETTING TO WHEN CONTROL TOWER CLOSED, USE NORMAN Y MINETA SAN JOSE INTL ALTIMETER SETTING AND INCREASE ALL MDAS 40 FT - REMOVED BACKUP ALTIMETER LINES OF MINIMA, REPLACED BY NOTE.
24. ADDED CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - NO SURVEY FOR RUNWAY, UNABLE TO VERIFY VISUAL SURFACE CLEAR.
25. ADDED CHART NOTE: PROCEDURE NA AT NIGHT - NO SURVEY FOR RUNWAYS, UNABLE TO VERIFY VISUAL SURFACES CLEAR.
26. ADDED VDA/TCH NOTE - VDA INCREASED TO ALIGN WITH VGSI.
27. ADDED CHART CIRCLING ICON - UPDATED CIRCLING CRITERIA.
28. CHANGED CHART FAS OBST FROM 210 TANK TO 206 TOWER - NEW FINAL CONTROLLING OBSTACLE.
29. CHANGED ADDITIONAL FLIGHT DATA: CHART: 216 TOWER TO CHART: 281 POLE - NEW 7:1 OBSTACLE.
30. ADDED: FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD TO ADDITIONAL FLIGHT DATA - IAW 8260.19H PARA 8-6-10 G(2).
31. REMOVED NORMAN Y MINETA SAN JOSE INTL ALTIMETER SETTINGS SECOND SET OF MINIMUMS - REPLACED BY NOTE.
32. UPDATED S-30 MINIMUMS FROM HAT457 ALL CATS TO LNAV HAT 453 ALL CATS - TDZE CHANGED FROM 3 TO 7.
33. UPDATED CIRCLING CAT A HAA FROM 457 TO 453 - AIRPORT ELEVATION CHANGED FROM 3 TO 7.
34. UPDATED CIRCLING CAT B CMDA/HAA FROM 500/497 TO 520/513 - NEW CONTROLLING OBSTACLE.
35. CHANGED ALTERNATE MINIMUMS FROM NA TO STANDARD - IAW 8260.19H PARA 8-6-11 B(4).
36. ADDED CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 15 DEGREES - NOTE ADDED IAW 8260.19H PARA 8-6-10 G(1).
37. MAP CHANGED FROM RW 30 TO GIDGY - MAP ESTABLISHED AT 3000 FT PRIOR TO RWY THLD DUE TO 15 DEGREE OFFSET IAW 8260.58A PBN CRITERIA.

07/15/19: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 06/24/19.

1. TERMINAL ROUTE BEEKR TO DOCAL CHANGED TO CREDO TO DOCAL.



COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZOA, PAO ATCT, BAY TRACON, APT MGR

FLIGHT CHECKED BY

THOMAS EDWARD MOLOKIE

Digitally signed by

DONALD H LANIER

Jul 17, 2019

OFFICE

FIOG

DATE

06/07/2019

DEVELOPED BY

DONALD H. LANIER (MYRON DEBERRY)

Digitally signed by

DONALD H LANIER

Jul 17, 2019

OFFICE

AJV-A431

DATE

03/13/2019

APPROVED BY

LONNIE EVERHART

Digitally signed by

DONALD H LANIER

Jul 17, 2019

OFFICE

AJV-A430

DATE

TITLE
MANAGER

