

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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 ID</u> OAK	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 30	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> OAKLAND	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 9	<u>TDZE</u> 9	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 30	<u>ORIGINAL/AMENDMENT</u> 3B	<u>DATED</u> 12/08/2016
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 12 JUNE 2025	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 14E
				<u>EPOCH YEAR</u> 2015
				<u>CANCEL/SUSPEND</u>

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>
FRNNY	IAF	WUVON		TF	FB	1.00	296.11	5.11	2700
MYSHN	IAF	MYCAF		TF	FB	1.00	264.42	6.01	5000
MYCAF		FRNNY		TF	FB	1.00	264.35	4.82	4400
FFIST	IAF	PRFCT		TF	FB	1.00	251.21	6.28	6000
PRFCT		PARBB		TF	FB	1.00	256.47	6.05	4500
ALLXX	IF	CRSEN		TF	FB	1.00	113.72	3.38	5000
CRSEN		HEPMO		RF	FB	1.00	(2.72 NM RADIUS CW (CFFPC))	6.96	3100
PARBB	IF	HEPMO		TF	FB	1.00	260.42	4.90	3100
HEPMO		MITOE		RF	FB	1.00	(5.82 NM RADIUS CW (CFFPB))	3.63	2000
WUVON	IF	MITOE		TF	FB	1.00	296.09	2.21	2000
MITOE	PFAF	RW30	MAP	TF	FO	0.30	296.07	6.08	
RW30	MAP	PLAZA		TF	FB	1.00	296.01	7.66	
PLAZA		SAU VOR/DME		TF	FO	1.00	282.06	9.78	4000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 ON TRACK 296.01 TO PLAZA AND ON TRACK 282.06 TO SAU VOR/DME 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 MITOE														
3.	FAC:	296.07	PFAF:	MITOE	DIST PFAF TO MAP:	DIST PFAF TO THLD:									
4.	MIN ALT:	MITOE 2000													
5.	DIST TO THLD FROM OM:	6.08	MM:	IM:	150 HAT:	272 HAT:	0.68	GS ANT:							
6.	MIN GP INCPT:	2000	GP ALT AT PFAF:	MITOE 2000		OM:		MM:		IM:					
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	55.0							
8.	MSA FROM:	RW30 5100													

PBN REQUIREMENTS NOTE:

RNP AR APCH-GPS. AUTHORIZATION REQUIRED. FROM ALLXX OR PARBB: RF.

EQUIPMENT REQUIREMENTS NOTES:

RADAR REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 2°C OR ABOVE 54°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 4500 AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 5500.
CHART SPEED ICON IN PLANVIEW AT FFIST: MAX 200 KIAS.
CHART SPEED ICON IN PLANVIEW AT ALLXX: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT WUVON: MAX 200 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 217.21 INBOUND.
CHART AT OR ABOVE 4400 AT FRNNY.
CHART AT OR ABOVE 6200 AT MYSHN.
CHART AT OR BELOW 9000 AND AT OR ABOVE 7000 AT FFIST.
CHART MANDATORY 5000 AT ALLXX.
CHART AT OR ABOVE 4500 AT PARBB.
CHART AT OR ABOVE 2700 AT WUVON.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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
AUTHORIZATION REQUIRED															
RNP 0.15 DA	281	2400	272	281	2400	272	281	2400	272	281	2400	272			
RNP 0.30 DA	385	3500	376	385	3500	376	385	3500	376	385	3500	376			



CHANGES - REASONS

1. TERMINAL ROUTES: ADDED MYSHN (IAF) TO MYCAF AND MYCAF TO FRNNY - UPDATED PROCEDURE DESIGN; FPT CHECKLIST.
2. TERMINAL ROUTES: ADDED FFIST (IAF) TO PRFCT AND PRFCT TO PARBB - UPDATED PROCEDURE DESIGN; FPT CHECKLIST.
3. LINE 3: ADDED "PFAF: MITOE" - 8260.19J 8-6-7.C.(2).
4. LINE 5: ADDED "272 HAT: 0.68" - 8260.19J 8-6-7.E.(3).
5. LINE 7: ADDED "20:1: IS CLEAR" - 8260.19J 8-6-7.G.(3).
6. MINIMUMS: RNP 0.11 CHANGED TO RNP 0.15, DA/HAT CHANGED FROM 267/258 TO 281/272 - UPDATED TARGETS EVAL; 8260.3F TABLE 3-3-1.
7. MINIMUMS: RNP 0.30 DA/HAT ALL CATS CHANGED FROM 317/308 TO 385/376 AND VIS ALL CATS CHANGED FROM 2400 TO 3500 - UPDATED TARGETS EVAL; 8260.3F TABLE 3-3-1.
8. DELETED CHART NOTE: "GPS REQUIRED" AND ADDED "PBN REQUIREMENTS NOTE: RNP AR APCH-GPS. AUTHORIZATION REQUIRED. FROM ALLXX OR PARBB: RF" - 8260.19J 8-6-8.D.(5)(B).2.
9. DELETED CHART PLANVIEW NOTE: "RADAR REQUIRED" AND ADDED "RADAR REQUIRED" TO EQUIPMENT REQUIREMENTS NOTES - 8260.19J 8-6-9.
10. NOTES: CHANGED "CHART IN PLANVIEW NOTE AT ALLXX: MAX 210 KIAS UNTIL MITOE" TO "CHART SPEED ICON IN PLANVIEW AT ALLXX: MAX 210 KIAS" - 8260.19J 4-6-10.G.
11. NOTES: DELETED "CHART PLANVIEW NOTE ADJACENT TO ALLXX AND PARBB: RF REQUIRED" - NO LONGER REQUIRED.
12. NOTES: DELETED "CHART NOTE: FOR INOPERATIVE ALS INCREASE RNP 0.11 VISIBILITY ALL CATS TO RVR 4000" - REMOVED RNP 0.11 LINE OF MINIMA.
13. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 1C (34F) OR ABOVE 54C (130F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 2°C OR ABOVE 54°C - UPDATED TEMP DATA; 8260.19J 8-6-10.R.
14. NOTES: ADDED "CHART SPEED ICON IN PLANVIEW AT FFIST: 200 KIAS" - DUE TO SFO CLASS B AIRSPACE. AIRCRAFT CONFIGURING FOR CONTINUED DESCENT BELOW CLASS B.
15. NOTES: ADDED "CHART SPEED ICON IN PLANVIEW AT WUVON: 200 KIAS" - 200 KIAS ALLOWS FOR MINIMUM LEG LENGTH FROM WUVON-MITOE.
16. ADDITIONAL FLIGHT DATA: REMOVED "DISTANCE TO THLD FROM 258 HAT: 0.64 NM" - NO LONGER REQUIRED BY CRITERIA.
17. ADDITIONAL FLIGHT DATA: REMOVED "ROUTE TYPE: A, H", "ROUTE TYPE QUALIFIER 1: F", "ROUTE TYPE QUALIFIER 2: S" - NO LONGER REQUIRED BY CRITERIA.
18. ADDITIONAL FLIGHT DATA: REMOVED "#TCH 64.0 MSL (DO NOT CHART)" - NO LONGER REQUIRED BY CRITERIA.
19. ADDITIONAL FLIGHT DATA: CHANGED "CHART MINIMUM 4100 AT FRNNY" TO "CHART AT OR ABOVE 4400 AT FRNNY" - PER EMZOH STAR CRITERIA AND ATC REQUEST.
20. ADDITIONAL FLIGHT DATA: CHANGED "CHART MANDATORY 4500 AT PARBB" TO "CHART AT OR ABOVE 4500 AT PARBB" - UPDATED PROCEDURE DESIGN; FPT CHECKLIST.
21. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR ABOVE 6200 AT MYSHN" - UPDATED PROCEDURE DESIGN; FPT CHECKLIST.
22. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR BELOW 9000 AND AT OR ABOVE 7000 AT FFIST" - UPDATED PROCEDURE DESIGN; FPT CHECKLIST.
23. COORDINATED WITH SECTION: DELETED "ATA" AND ADDED "A4A" - 8260.19J 8-6-14.A.
24. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR ABOVE 2700 AT WUVON" - UPDATED PROCEDURE DESIGN; FPT CHECKLIST.
25. NOTES: ADDED "FOR INOPERATIVE ALS, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 4500 AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 5500" - 8260.19J 8-6-12.O.(3).

1/24/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 9/30/24.

1. PART B: SUPPLEMENTAL DATA COMMUNICATIONS WITH: CHANGED BAY TRACON TO NORCAL APP CON.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZOA, AMGR, ST AERO, APP CON, ATCT.

FLIGHT CHECKED BY
JOSEPH RICHARD JAQUISH

Digitally signed by
DAVID DANNER
Apr 24, 2025

OFFICE
FIOG
DATE
01/22/2025

DEVELOPED BY
TIMOTHY JOHNSON

Digitally signed by
Timothy Johnson
Jan 31, 2025

OFFICE
AJV-A421
DATE
09/30/2024

APPROVED BY
DAVID DANNER

Digitally signed by
DAVID DANNER
Apr 24, 2025

OFFICE
AJV-A421
DATE
05/08/2025
TITLE
MANAGER

