

**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.

AIRPORT ID SAN	PROCEDURE NAME RNAV (RNP) Z RWY 27	ORIGINAL/AMENDMENT 1	CITY SAN DIEGO	STATE CA
AIRPORT ELEVATION 17	TDZE 17	SUPERSEDED RNAV (RNP) Z RWY 27	ORIGINAL/AMENDMENT ORIG-A	DATED 08/15/2019
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 26 DECEMBER 2024	REQUIRED EFFECTIVE DATE ROUTINE	MAG VAR 11E
				EPOCH YEAR 2020
				CANCEL/SUSPEND

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>
LYNDI	IAF	VYDDA		TF	FB	1.00	239.77	3.00	4000
VYDDA	IF	OKAIN		TF	FB	1.00	275.14	2.00	3600
OKAIN		SAYAE		TF	FB	1.00	275.12	1.89	3200
KLOMN	IF	AJADE		TF	FB	1.00	095.04	4.14	5200
AJADE		CATDG		RF	FB	1.00	(2.18 NM RADIUS CW (CFSCT))	1.46	4800
CATDG		CRSNR		RF	FB	1.00	(2.18 NM RADIUS CW (CFSCT))	3.82	3700
CRSNR		SAYAE		RF	FB	1.00	(2.18 NM RADIUS CW (CFSCT))	1.58	3200
SAYAE		CIJHI		TF	FB	1.00	275.10	1.61	2700
CIJHI		TOKOE	PFAF	TF	FB	1.00	275.11	2.26	2000
TOKOE	PFAF	RW27	MAP	TF	FO	0.30	275.06	5.14	
RW27	MAP	SARGS		TF	FO	1.00	274.97	10.99	2500

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 ON TRACK 274.97 TO SARGS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
31
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	PROFILE STARTS AT SAYAE														
3.	FAC:	275.06	PFAF:	TOKOE	DIST PFAF TO MAP:	DIST PFAF TO THLD:									
4.	MIN ALT:	SAYAE 3200, CIJHI 2700, TOKOE 2000													
5.	DIST TO THLD FROM PFAF:	5.14	MM:	IM:	150 HAT:	607 HAT:	1.44	GS ANT:							
6.	MIN GP INCPT:	2000	GP ALT AT PFAF:	TOKOE 2000	OM:			MM:					IM:		
7.	GP ANGLE:	3.50	34:1:	IS NOT CLEAR	20:1:	IS NOT CLEAR	TCH:	75.0							
8.	MSA FROM:	RW27 5400													

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM KLOMN: RF.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 5°C OR ABOVE 44°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 2 1/2 SM.
CHART NOTE: STRAIGHT-IN RWY 27 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD.
CHART SPEED ICON IN PLANVIEW AT LYNDI: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT VYDDA: MAX 200 KIAS.
CHART SPEED ICON IN PLANVIEW AT KLOMN: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 095.00 INBOUND.
CHART AT OR ABOVE 5000 AT LYNDI.
CHART MANDATORY 6000 AT KLOMN.

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 0.11 DA	624	1 1/2	607	624	1 1/2	607	624	1 1/2	607	624	1 1/2	607			
RNP 0.30 DA	789	2	772	789	2	772	789	2	772	789	2	772			



CHANGES - REASONS

1. TERMINAL ROUTES, CIJHI TO TOKOE AND TOKOE TO RW27: REPLACED PFAF REEBO WITH TOKOE - PFAF MOVED 0.0271 NM EAST DUE TO TCH INCREASE, BUT REEBO IS USED ON OTHER PROCEDURES AND COULD NOT MOVE.
2. TERMINAL ROUTES, CIJHI TO TOKOE: INCREASED DISTANCE FROM 2.23 TO 2.26 NM - PFAF MOVED 0.0271 NM EAST DUE TO TCH INCREASE.
3. TERMINAL ROUTES, TOKOE TO RW27: CHANGED COURSE FROM 275.05 TO 275.06 AND DISTANCE FROM 5.17 TO 5.14 NM - PFAF MOVED 0.0271 NM EAST DUE TO TCH INCREASE.
4. PROFILE LINE 3: CHANGED FAC FROM 275.05 TO 275.06 AND PFAF FROM REEBO TO TOKOE - PFAF MOVED 0.0271 NM EAST DUE TO TCH INCREASE.
5. PROFILE LINE 4: REPLACED REEBO WITH TOKOE - PFAF MOVED 0.0271 NM EAST.
6. PROFILE LINE 5: CHANGED "DIST TO THLD FROM PFAF" FROM 5.17 TO 5.14 - PFAF MOVED 0.0271 NM EAST.
7. PROFILE LINE 5: CHANGED "DIST TO THLD FROM 600 HAT: 1.45" TO "DIST TO THLD FROM 607 HAT: 1.44" - RNP 0.11 DA INCREASED DUE TO NEW OBSTACLE EVAL.
8. PROFILE LINE 6, GP ALT AT PFAF: REPLACED REEBO WITH TOKOE - PFAF MOVED 0.0271 NM EAST.
9. PROFILE LINE 7: INCREASED TCH FROM 65.0 TO 75.0 - CLEAR VGS PENETRATIONS FOR BOTH RNP 0.11 AND RNP 0.30.
10. PBN REQUIREMENTS NOTE: CHANGED FROM "RNP AR APCH" TO "RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM KLOMN: RF" - 8260.19J PARA 8-6-8.D.(5)(B)2.
11. NOTES, UNCOMPENSATED BARO-VNAV SYSTEMS NOTE: CHANGED CRITICAL LOW TEMP FROM 6C TO 5C AND CRITICAL HIGH TEMP FROM 46C TO 44C - UPDATED NOAA 5-YEAR TEMPERATURE HISTORY 2019-2023.
12. NOTES: ADDED VGS AND RNAV GLIDEPATH NOT COINCIDENT NOTE - TCH INCREASE FROM 65.0 TO 75.0.
13. NOTES: ADDED "CHART SPEED ICON IN PLANVIEW AT VYDDA: MAX 200 KIAS" - TO SUPPORT 90 DEGREE TURN AT VYDDA FOR RADAR VECTORS AND MAINTAIN 2.00 NM SEGMENT LENGTH TO OKAIN, 8260.58C PARA 1-3-1.C.
14. ADDITIONAL FLIGHT DATA: DELETED "ROUTE TYPE: A, H", "ROUTE TYPE QUALIFIER 1: F", AND "ROUTE TYPE QUALIFIER 2: S" - NO LONGER REQUIRED.
15. ALTERNATE MINIMUMS: CHANGED FROM STANDARD TO "CAT A, B, C, D 800-2 1/2" - RNP 0.30 VISIBILITY INCREASE TO 2 1/2 WITHOUT APPROACH LIGHTS, 8260.3E PARA 3-4-1.
16. MINIMUMS: INCREASED RNP 0.11 DA/HAT FROM 617/600 TO 624/607 - NEW OBSTACLE EVAL.
17. MINIMUMS: INCREASED RNP 0.30 DA/HAT FROM 778/761 TO 789/772 - NEW OBSTACLE EVAL.

11/08/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/06/24.

1. NOTES: DELETED "CHART PLANVIEW NOTE ADJACENT TO KLOMN: RF REQUIRED."

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLA, SOCAL TRACON, SAN ATCT, ST AERO, AMGR

FLIGHT CHECKED BY

TROY ELLEN DEVINE

*Digitally signed by***CASIMIR L TABAKA**

Nov 08, 2024

OFFICE

FIOG

DATE

11/06/2024

DEVELOPED BY

RICHARD BRUCE

*Digitally signed by***RICHARD A BRUCE**

Nov 08, 2024

OFFICE

AJV-A422

DATE

09/06/2024

APPROVED BY

CASIMIR L. TABAKA

*Digitally signed by***CASIMIR L TABAKA**

Nov 08, 2024

OFFICE

AJV-A420

DATE

11/21/2024

TITLE

MANAGER

QUALITY
31
CHECKED