

**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 ID</u> SEE	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9L	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> SAN DIEGO/EL CAJON	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 388	<u>TDZE</u> 379	<u>SUPERSEDED</u> RNAV (GPS) RWY 9L	<u>DATED</u> 12/29/2022	<u>MAG VAR</u> 13E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 APRIL 2025	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1990
			<u>CANCEL/SUSPEND</u>	

TERMINAL ROUTES

THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 25-08.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CARIF	IAF	TOCOD		TF	FB	1.00	140.07	11.58	2400
TOCOD	IF	TILRE		TF	FB	1.00	082.37	7.76	2400
TILRE	FAF	CAPOS/3.45 NM TO RW09L		TF	FB	0.30	093.95	1.56	
CAPOS/3.45 NM TO RW09L		RW09L	MAP	TF	FO	0.30	093.95	3.45	
RW09L	MAP	1900 MSL		CA			094.00		1900
1900 MSL		MZB VORTAC		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV/VNAV: DA
LNAV: RW09L

MISSED APPROACH INSTRUCTIONS:

(DO NOT EXCEED 180 KIAS UNTIL MZB) CLIMB TO 1900 THEN CLIMBING RIGHT TURN TO 3000 DIRECT MZB VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | |
|---|----------------------------|--------------------|-----------------------|------------------------|---------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. PROFILE STARTS AT TOCOD | | | | | |
| 3. FAC: 093.95 | FAF: TILRE | | DIST FAF TO MAP: 5.01 | DIST FAF TO THLD: 5.01 | |
| 4. MIN ALT: TOCOD 2400, TILRE 2400, CAPOS/3.45 NM TO RW09L 1780 | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 893 HAT: 2.18 | GS ANT: |
| 6. MIN GP INCPT: 2400 | GP ALT AT PFAF: TILRE 2400 | | | OM: | MM: |
| 7. GP ANGLE: 3.75 | 34:1: IS NOT CLEAR | 20:1: IS NOT CLEAR | TCH: 45.2 | | IM: |
| 8. MSA FROM: RW09L 7700 | | | | | |

QUALITY
13
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 9L HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: CIRCLING NA NE OF RWYS 17 AND 27R.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.
CHART NOTE: RWY 9L STRAIGHT-IN MINIMUMS NA AT NIGHT.
CHART NOTE: CIRCLING RWY 9L, 27L/R, 35 NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CARIF ON V23-363-597 NORTHWEST BOUND.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NKX ALTIMETER SETTING AND INCREASE LNAV/VNAV DA TO 1306 FEET. INCREASE ALL MDAS 40 FEET.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 075.00 INBOUND.
FAS OBST: 1260 AAO 325012N/1170318W.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ CAT A, B 1100-2 1/2, CAT C 1600-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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/VNAV DA	1272	2 1/2	893	1272	2 1/2	893	1272	2 1/2	893		NA				
LNAV MDA	1480	1 1/4	1101	1480	1 1/2	1101	1480	3	1101		NA				
CIRCLING	1480	1 1/4	1092	1480	1 1/2	1092	1940	3	1552		NA				

CHANGES - REASONS

- ADDED STEPDOWN FIX (CAPOS) 3.45 NM FROM RWY 9L - ATC/FPT REQUESTED TO ADD CAT C AIRCRAFT AND LOWER MINIMUMS.
- MAP (ISOKE) REMOVED, MAP RELOCATED TO RWY 9L THRESHOLD - FPT REQUESTED.
- FAF TILRE MOVED .92NM NORTH DISTANCE CHANGED FROM 4.21 TO 1.56, COURSE CHANGED FROM 088.97 TO 093.95 - FAF MOVED AND ADDED SDF TO ALIGN VGSI.
- INTERMEDIATE SEGMENT DISTANCE CHANGED FROM 8.01 TO 7.76, COURSE CHANGED FROM 085.69 TO 082.32 - CHANGED DUE TO FAF MOVE.
- MISSED APPROACH CLEARANCE LIMIT CHANGED FROM 2700 TO 3000 - DUE TO NEW CONTROLLING OBSTACLES.
- MSA CENTER CHANGED FROM FIX ISOKE TO RWY 09L THLD - MSA NO LONGER CENTERED ON FIX ISOKE.
- LINE THREE, DISTANCE FAF TO MAP/FAF TO THLD CHANGED FROM 4.71 TO 5.01 - FAF MOVED.
- REMOVED CHART PROFILE NOTE: VGSI/GP NOT COINCIDENT - ADJUSTED TO MAKE COINCIDENT.
- FAS OBSTACLE CHANGED FROM 1467 AAO 325027N/1170327W - FAF MOVED, SDF ADDED, OBSTACLES UPDATED.
- ALTERNATE MINIMUMS CHANGED FROM "CAT A, B 1400-3" TO "CAT A, B 1100-2, CAT C 1700-3" - NEW CATEGORY AIRCRAFT ADDED (C), NEW OBSTRUCTIONS.
- REMOVED CHART NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT - GP ADJUSTED.
- MINIMUMS UPDATED: LNAV/VNAV FROM "CAT AB 1350 DA/971 HAT, 3 SM VIS" TO "CAT A/B/C 1272 DA/893 HAT, VIS 2 1/2 SM" - NEW CAT C LINE, NEW OBSTRUCTIONS.
- MINIMUMS: LNAV FROM "CAT A 1720 MDA/1341 HAA VIS 1 1/4 SM, CAT B VIS 1 1/2 SM" TO "CAT A 1480 MDA/1101 HAA VIS 1 1/4 SM, CAT B VIS 1 1/2 SM, CAT C VIS 3 SM" - NEW CAT C LINE, NEW OBSTRUCTIONS.
- CIRCLING MINIMUMS CHANGE FROM "CAT A 1720 MDA/1332 HAA VIS 1 1/4 SM, CAT B VIS 1 1/2 SM" TO "CAT A 1480 MDA/1092 HAA VIS 1 1/4 SM, CAT B 1480 MDA/1092 HAA VIS 1 1/2 SM, CAT C 1940 MDA/1552 HAA VIS 3 SM" - NEW CAT C LINE, NEW OBSTRUCTIONS.
- CHART NOTE: UNCOMPENSATED BARO-VNAV SYSTEMS CHANGED FROM "BELOW 5 C OR ABOVE 14 C" TO "BELOW -15 C OR ABOVE 54 C - STANDARD USED WHEN NO HISTORICAL DATA IS AVAILABLE.
- ADDED SPEED RESTRICTION TO MISSED APPROACH - ATC REQUESTED.

02/26/25: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/12/24.
1. PROFILE SECTION OF 8260-3, LINE 5 CHANGED FROM 5.01NM TO 2.18NM.



COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: ZLA, AMGR

FLIGHT CHECKED BY
THOMAS EDWARD MOLOKIE

Digitally signed by
ALLAN WILL
Feb 28, 2025

OFFICE
FIOG

DATE
02/05/2025

DEVELOPED BY
TODD DAMRON

Digitally signed by
TODD V DAMRON
Feb 26, 2025

OFFICE
AJV-A423

DATE

APPROVED BY
ALLAN WILL

Digitally signed by
ALLAN WILL
Feb 28, 2025

OFFICE
AJV-A423

DATE

TITLE
MANAGER

