

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE**

TITLE 14 CFR PART 97.29

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> SAN DIEGO INTL	<u>AIRPORT ID</u> KSNAN	<u>PROCEDURE NAME</u> ILS Y OR LOC Y RWY 9	<u>ORIGINAL/AMENDMENT</u> 2B	<u>CITY</u> SAN DIEGO	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 17	<u>TDZE</u> 17	<u>SUPERSEDED</u> ILS Y OR LOC Y RWY 9	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 03/29/2018	<u>MAG VAR</u> 11E
<u>FACILITY</u> I-SAN	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 15 AUGUST 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
MZB VORTAC		GATTO INT/I-SAN 7.27 DME					240.62	4.55	2800
SARGS INT/I-SAN 11.31 DME	IF	GATTO INT/I-SAN 7.27 DME	NOPT				094.99	4.05 (I-SAN)	2000

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.86 NM AFTER GATTO INT/I-SAN 7.27 DME OR AT I-SAN 1.41 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5000 ON HEADING 094.99 AND ON PGY VORTAC R-300 TO PGY VORTAC, THEN RIGHT TURN ON PGY VORTAC R-268 TO CAPUS INT/23.42 DME AND HOLD.
**MISSED APPROACH REQUIRES MINIMUM CLIMB OF 270 FEET PER NM TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 4000 ON HEADING 094.99 FOR RADAR VECTORS.

PROFILE:

- PT L SIDE OF COURSE 274.99 OUTBOUND 2000 FT WITHIN 10 MILES OF GATTO INT (IAF)
-
- FAC: 094.99 FAF: GATTO INT/I-SAN 7.27 DME DIST FAF TO MAP: 5.86 DIST FAF TO THLD: 5.86
- MIN ALT: GATTO INT/I-SAN 7.27 DME 2000
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 1014
- MIN GS INCPT: 2000 GS ALT AT FAF : GATTO INT/I-SAN 7.27 DME 2000 OM: MM: IM:
- GP ANGLE: 3.10 34:1: 20:1: TCH: 55.1
- MSA FROM: MZB VORTAC 040-160 5400, 160-310 2100, 310-040 4400

EQUIPMENT REQUIREMENTS NOTES:



NOTES:

CHART NOTE: CIRCLING NA N OF RWY 9-27.
 CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 530.
 CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: WHEN CIRCLING TO RWY 27 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD.
 CHART PLANVIEW NOTE AT GATTO: PT REQUIRES USE OF DME.
 CHART PLANVIEW NOTE AT SARGS: RADAR REQUIRED.
 CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 9**.
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 9 ALL CATS VISIBILITY TO 2 1/2 SM.
 CHART NOTE: RWY 9 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW ONLY: MZB VORTAC 4.55 DME AT GATTO.
 CHART CIRCLING ICON.
 CHART VDP AT 4.04 DME*
 DISTANCE VDP TO THLD 2.63 NM
 * LOC ONLY
 CHART 2100 PRIOR TO GATTO IN PROFILE.
 CHART FAS OBST: 261 TREE 324417N/1171329W.
 HOLD W, RT, 087.55 INBOUND

MINIMUMS:

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

ALTERNATE: NA ILS: STANDARD LOC: CAT A, B 1000-2, CAT C 1000-2 3/4, CAT D 1000-3

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
S-ILS 09**	258	4000	241	258	4000	241	258	4000	241	258	4000	241				
S-ILS 09	751	2	734	751	2	734	751	2	734	751	2	734				
S-LOC 09	960	4000	943	960	4000	943	960	2	943	960	2	943				
CIRCLING	960	1 1/4	943	960	1 1/4	943	960	2 3/4	943	960	3	943				

CHANGES - REASONS

- ADDED CHART NOTE: WHEN CIRCLING TO RWY 27 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD - 20:1 PENETRATIONS EXIST IN THE RWY 27 VISUAL SURFACE AREA.
- CHART NOTE CHANGED FROM "CIRCLING NA NORTH OF RWY 9-27" TO CIRCLING NA N OF RWY 9-27 - PER 8260.19H PARA, 8-6-11.O.(5)(A).
- CHART NOTE CHANGED FROM "FOR INOPERATIVE ALS, INCREASE S-ILS ALL CATS VISIBILITY TO 2 1/2 MILES" TO "FOR INOPERATIVE ALS, INCREASE S-ILS ALL CATS VISIBILITY TO 2 1/2 SM" - TERMINOLOGY CHANGE PER 8260.19H 8-6-11.O.(3)(F).

PDF EDITS:

- ADDED "ILS: STANDARD" TO ALTERNATE MINIMUMS BLOCK DUE TO SIAP LIMITATIONS.

2/20/19: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/02/19.

- ADDED 2 ADDITIONAL 20:1 OBSTACLES TO PENETRATIONS SECTION.



COORDINATED WITH:

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

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

Digitally signed by

DATE

MARK D ADAMS

Mar 12, 2019

DEVELOPED BY

COLTON CROWDER

Digitally signed by

COLTON CROWDER

Feb 20, 2019

OFFICE

AJV-A412

DATE

01/02/2019

APPROVED BY

LONNIE EVERHART

Digitally signed by

MARK D ADAMS

Mar 12, 2019

OFFICE

AJV-A41

DATE

TITLE
MANAGER

