

**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> KSN	<u>PROCEDURE NAME</u> ILS Z OR LOC Z RWY 9	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> SAN DIEGO	<u>STATE</u> CA
<u>AIRPORT ELEVATION</u> 17	<u>TDZE</u> 17	<u>SUPERSEDED</u> ILS Z OR LOC Z RWY 9	<u>ORIGINAL/AMENDMENT</u> ORIG	<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 LOC/DME 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 280 FEET PER NM TO 3800; IF UNABLE TO MEET CLIMB GRADIENT, SEE ILS Y OR LOC Y RWY 9.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

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 NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC CAT A/B VISIBILITY TO RVR 5500, AND CAT C/D TO 1 3/8 SM.
 CHART PLANVIEW NOTE AT GATTO: PT REQUIRES USE OF DME.
 CHART PLANVIEW NOTE AT SARGS: RADAR REQUIRED.
 CHART NOTE: LOC ONLY: 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 2.62 DME*
 DISTANCE VDP TO THLD 1.22 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: STANDARD - CAT B 900-2, CAT C 900-2 1/4, 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**	217	1800	200	217	1800	200	217	1800	200	217	1800	200			
S-LOC 09	520	4000	503	520	4000	503	520	5500	503	520	5500	503			
CIRCLING	800	1	783	820	1	803	820	2 1/4	803	940	3	923			

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" - TERMINOLOGY CHANGED PER 8260.19H PARA 8-6-11.O.(5)(A).

PDF EDITS:

- ADDED "ILS: STANDARD" TO ALTERNATE MINIMUMS BLOCK DUE TO SIAP LIMITATIONS.
- ADDED TO MISSED APPROACH INSTRUCTIONS "; IF UNABLE TO MEET CLIMB GRADIENT, SEE ILS Y OR LOC Y RWY 9." DUE TO SIAP LIMITATIONS.

2/21/19: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/03/19.

- 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 21, 2019

OFFICE **DATE**
AJV-A412 01/03/2019

APPROVED BY

LONNIE EVERHART

Digitally signed by
MARK D ADAMS

Mar 12, 2019

OFFICE **DATE**
AJV-A41

TITLE
MANAGER

