

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</u> SAN DIEGO INTL	<u>AIRPORT ID</u> KSAN	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 27	<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SUPERSEDED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> RNAV (RNP) Z RWY 27	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 11/10/2016	<u>MAG VAR</u> 11E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 15 AUGUST 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<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>
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		REEBO	PFAF	TF	FB	1.00	275.11	2.23	2000
REEBO	PFAF	RW27	MAP	TF	FO	0.30	275.05	5.17	
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:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT SAYAE				
3. FAC:	275.05	PFAF: REEBO	DIST PFAF TO MAP:	DIST PFAF TO THLD:	
4. MIN ALT:	SAYAE 3200, CIJHI 2700, REEBO 2000				
5. DIST TO THLD FROM OM:	5.17	MM:	IM:	150 HAT:	600 HAT: 1.45
6. MIN GP INCPT:	2000	GP ALT AT PFAF : REEBO 2000		OM:	MM:
7. GP ANGLE:	3.50	34:1: IS NOT CLEAR	20:1: IS NOT CLEAR	TCH: 65.0	IM:
8. MSA FROM:	RW27 5400				

PBN REQUIREMENTS NOTE:

RNP AR APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 6°C OR ABOVE 46°C.
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 KLOMN: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT LYNDI: MAX 210 KIAS.
CHART PLANVIEW NOTE ADJACENT TO KLOMN (IF): RF REQUIRED.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 2 1/2 SM.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 6000 AT KLOMN.
CHART MINIMUM 5000 AT LYNDI.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
HOLD W, RT, 095.00 INBOUND



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	617	1 1/2	600	617	1 1/2	600	617	1 1/2	600	617	1 1/2	600			
RNP 0.30 DA	778	2	761	778	2	761	778	2	761	778	2	761			

- CHANGES - REASONS**
- 1. ADDED CHART NOTE: STRAIGHT-IN RWY 27 AT NIGHT, OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD - 20:1 PENETRATIONS EXIST, SEE APPROVAL LETTER REQUEST TO MITIGATE USING VGSI.
 - 2. ADDED TO PROFILE LINE 7: 20:1: IS NOT CLEAR - 20:1 PENETRATIONS EXIST.
 - 3. MODIFIED UNCOMPENSATED BARO-VNAV NOTE FROM "..MALS..." TO "..ALS..." - PER CURRENT CRITERIA.
 - 4. REMOVED FAHRENHEIT TEMPERATURES FROM BARO-VNAV NOTE - PER CURRENT CRITERIA.
 - 5. REMOVED "CHART PLANVIEW NOTE ADJACENT TO KLOMN (IF): RADAR REQUIRED" - NO LONGER REQUIRED, COMIX (RNAV) STAR PUBLISHED.
 - 6. ADDED PBN REQUIREMENTS NOTE: RNP AR APCH - PER 8260.19H PARA 8-6-8B(1).
 - 7. REMOVED "CHART NOTE: GPS REQUIRED" - NOTE NO LONGER REQUIRED.
 - 8. ALTERNATE MINIMUMS CHANGED FROM "CAT A, B, C, D 800-2 1/2" TO "STANDARD" - PUBLISHED ALTERNATE MINIMUMS IN ERROR.

2/21/19: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/28/18.
1. 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 Digitally signed by **DATE**
COLTON CROWDER **COLTON CROWDER**
AJV-A412 12/28/2018

APPROVED BY Digitally signed by **DATE**
LONNIE EVERHART **MARK D ADAMS**
Mar 12, 2019

OFFICE **DATE**
AJV-A41
TITLE
MANAGER

