

**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.

AIRPORT ID SNA	PROCEDURE NAME RNAV (GPS) Y RWY 20R	ORIGINAL/AMENDMENT 4	CITY SANTA ANA	STATE CA
AIRPORT ELEVATION 56	TDZE 54	SUPERSEDED RNAV (GPS) Y RWY 20R	ORIGINAL/AMENDMENT 3B	DATED 11/03/2022
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 26 DECEMBER 2024	REQUIRED EFFECTIVE DATE ROUTINE	MAG VAR 12E
				EPOCH YEAR 2015
				CANCEL/SUSPEND

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SAGER	IF	HUKEM		TF	FB	1.00	196.02	7.37	2900
HUKEM	FAF	LEMON/6.62 NM TO RW20R		TF	FB	0.30	195.96	2.20	
LEMON/6.62 NM TO RW20R		VEGYU/4.17 NM TO RW20R		TF	FB	0.30	195.96	2.45	
VEGYU/4.17 NM TO RW20R		RW20R	MAP	TF	FO	0.30	195.96	4.17	
RW20R	MAP	255 MSL		CA			195.96		
255 MSL		MINOE		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW20R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT MINOE.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT SAGER
- FAC: 195.96 FAF: HUKEM DIST FAF TO MAP: 8.82 DIST FAF TO THLD: 8.82
- MIN ALT: SAGER 3500, HUKEM 2900, LEMON/6.62 NM TO RW20R 2200, VEGYU/4.17 NM TO RW20R 1420
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 201 HAT: 0.51 GS ANT: MM: IM:
- MIN GP INCPT: 2900 GP ALT AT PFAF: HUKEM 2900 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 50.5
- MSA FROM: RW20R 6900



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.
RADAR REQUIRED.

NOTES:

CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT (VGS1 ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 5°C OR ABOVE 54°C.
CHART NOTE: CIRCLING RWY 20L NA AT NIGHT.
CHART NOTE: *RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA .
CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
HOLD S, RT, 015.97 INBOUND (DO NOT CHART).
CHART FAS OBST: 318 BUILDING (06-236569) 334156N/1175154W.
CHART VDP AT 1.47 NM TO RW20R.
WAAS CHANNEL # 99502
REFERENCE PATH ID: W20A
LTP HAE: -22.4 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT C 800-2 1/4, CAT D 1200-3, 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
LPV DA*	255	2400	201	255	2400	201	255	2400	201	255	2400	201			
LNAV/VNAV DA	516	5000	462	516	5000	462	516	5000	462	516	5000	462			
LNAV MDA	580	2400	526	580	2400	526	580	5500	526	580	5500	526			
CIRCLING	640	1	584	640	1	584	840	2 1/4	784	1180	3	1124			

CHANGES - REASONS

- 1.TERMINAL ROUTES: SEGMENT FROM VUGYU TO THE MAP CHANGED FROM 4.20 NM TO 4.17 NM – FIX VEGYU MOVED.
- 2.MINIMUMS: RAISED CIRCLING CAT D MDA/HAA FROM 1160/1104 HAA TO 1180/1124 HAA – NEW CONTROLLING OBSTACLE.
- 3.NOTES: CHANGED CHART NOTE "**RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA" TO "**RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA (NA WHEN USING FUL ALTIMETER SETTING)". - IAW 8260.19J 8-6-12,K,1

10/24/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 7/2/24.

1. REMOVED CHANGE AND REASON NUMBER THREE "FAS DATA: CRC REMAINDER CHANGED FROM 8CD50D23 TO 98055A72 –FPAP LOCATION CHANGED FROM 333935.0630N1175244.2015W TO 333935.0631N/1175244.2018W. " - INCORRECT DATA, CORRECT FPAP LOCATION:333935.0630N1175244.2015W, CORRECT CRC REMAINDER IS 8CD50D23.

11/18/2024: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 11/06/2024.

REMOVED "(NA WHEN USING FUL ALTIMETER SETTING)" FROM THE CHART NOTE:*RVR `1800...



AIRPORT ID
SNA

PROCEDURE NAME
RNAV (GPS) Y RWY 20R

ORIGINAL/AMENDMENT
4

CITY
SANTA ANA

STATE
CA

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: ZLA, SOCAL APP CON, AMGR, WFPT

FLIGHT CHECKED BY

THOMAS E MOLOKIE

Digitally signed by

RAKE MCGRAW

Nov 06, 2024

OFFICE

AJF

DATE

11/01/2024

DEVELOPED BY

JANTZEN TAYLOR

Digitally signed by

JANTZEN L TAYLOR

Oct 24, 2024

OFFICE

AJV-A422

DATE

07/02/2024

APPROVED BY

RAKE MCGRAW

Digitally signed by

RAKE MCGRAW

Nov 06, 2024

OFFICE

AJV-A422

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA

0
0
KSNA
RW20R
0
Y
0
W20A
334053.9425N
1175154.2280W
-00224
333935.0630N
1175244.2015W
00050.5
F
03.00
106.75
1016
40.0
35.0

CRC REMAINDER

8CD50D23

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE
LTP ORTHOMETRIC HEIGHT
FPAP ORTHOMETRIC HEIGHT

K2
+00126
+00126

