FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
LOC BC STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.25

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	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
SNA	LOC BC RWY 2L	14A	SANTA ANA	CA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
56	56	LOC BC RWY 2L	14	12/26/2024	12E	2015

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-SNA			ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
MINOE INT/I-SNA 10.88 DME	IF/IAF	NEWPO INT/I-SNA 4.48 DME					015.91 (I-SNA)	6.41	1600

MISSED APPROACH

MAP:

LOC: 3.94 NM AFTER NEWPO INT/I-SNA 4.48 DME OR AT ZUSED/I-SNA 0.54 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2600 DIRECT SLI VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. PROFILE STARTS AT MINOE INT/I-SNA 10.88 DME
3. FAC: 015.91 **FAF:** NEWPO INT/I-SNA 4.48 DME **DIST FAF TO MAP:** 3.94 **DIST FAF TO THLD:** 4.68
4. MIN ALT: MINOE INT/I-SNA 10.88 DME 3000, NEWPO INT/I-SNA 4.48 DME 1600, WUNAD INT/I-SNA 1.80 DME 560
8. MSA FROM: SLI VORTAC 050-140 7000, 140-230 2900, 230-320 4400, 320-050 7700

NOTES:

CHART PROFILE NOTE: DISREGARD GS INDICATIONS.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING RWY 20L NA AT NIGHT.
CHART SPEED ICON IN PLANVIEW AT MINOE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 300.00 INBOUND.
CHART FAS OBST: 185 TREE (06-237635) 333810N/1175341W.
CHART MANDATORY 3000 AT MINOE.
NEWPO TO RW02L: 3.00/55.
CHART CIRCLING ICON.
CHART IN PROFILE VIEW: I-SNA DME ANTENNA.

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., NA WHEN CONTROL TOWER CLOSED.

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-LOC 02L	560	1	504	560	1	504	560	1 3/8	504	560	1 3/8	504			
CIRCLING	640	1	584	640	1	584	840	2 1/4	784	1180	3	1124			
WUNAD FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)															
S-LOC 02L	480	1	424	480	1	424	480	1 1/4	424	480	1 1/4	424			
CIRCLING	640	1	584	640	1	584	840	2 1/4	784	1180	3	1124			

CHANGES - REASONS

1: PROFILE LINE 8: RAISED MSA SECTOR 050-140 FROM 6900 TO 7000 - TO MATCH KSNA LDA RWY 20R MSA SECTOR ALTITUDE AND CLEAR NOTAM FDC 4/1049.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLA, SOCAL APCH, SNA ATCT, AMGR

FLIGHT CHECKED BY		OFFICE	DATE
PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION	*Digitally signed by* ***RAKE MCGRAW*** Mar 17, 2025		

DEVELOPED BY		OFFICE	DATE
JANTZEN TAYLOR	*Digitally signed by* ***JANTZEN L TAYLOR*** Mar 14, 2025	AJV-A422	01/07/2025

APPROVED BY		OFFICE	DATE	TITLE
RAKE MCGRAW	*Digitally signed by* ***RAKE MCGRAW*** Mar 17, 2025	AJV-A422		MANAGER

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SNA	LOC BC RWY 2L	14A	SANTA ANA	CA	56	I-SNA

PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM
MINOE INT/I-SNA 10.88 DME (IF/IAF)

TO
NEWPO INT/I-SNA 4.48 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	6.41				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
SHIP	333447.45N/1175546.42W	280	50	20	2C	500				AT820	1600
WATER	333305.00N/1175606.62W	0								AS1500	1500

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LOC

FROM
NEWPO INT/I-SNA 4.48 DME

TO
WUNAD INT/I-SNA 1.80 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	2.68			504	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	333703.00N/1175442.00W	299	50	20	2C	250					560

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SNA	LOC BC RWY 2L	14A	SANTA ANA	CA	56	I-SNA

FINAL: LOC STEPDOWN

FROM	TO
WUNAD INT/I-SNA 1.80 DME	3.94 NM AFTER NEWPO INT/I-SNA 4.48 DME OR AT ZUSED/I-SNA 0.54 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	1.30		3.94 NM AFTER NEWPO INT/I-SNA 4.48 DME OR AT ZUSED/I-SNA 0.54 DME	424	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (06-237635)	333810.40N/1175341.10W	185	20	3	1A	250				XP45	480

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

TO MAINTAIN CURRENT WUNAD MDA.

MISSED APPROACH: LOC

FROM	TO
3.94 NM AFTER NEWPO INT/I-SNA 4.48 DME OR AT ZUSED/I-SNA 0.54 DME	SLI VORTAC

RNP	DISTANCE	PAT	MAP	HAT	HMAS
					230

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2600
AAO	334627.00N/1175421.00W	335	215	8	4B	1000					1400
TERRAIN	334627.00N/1175421.00W	131 (100)								AS1500	1600

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SNA	LOC BC RWY 2L	14A	SANTA ANA	CA	56	I-SNA

CIRCLING [ ] ALL CATS [X] CAT A [X] CAT B [X] CAT C [X] CAT D [ ] CAT E [ ] NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
BLDG (06-028353)	334135.31N/1175256.80W	1.30	584/584	323	20	3	1A	300			640/640
CATEGORY B											
BLDG (06-028353)	334135.31N/1175256.80W	1.81	584/584	323	20	3	1A	300			640/640
CATEGORY C											
BUILDING (06-000494)	333716.00N/1175227.00W	2.84	784/784	532	100	20	3C	300			840/840
CATEGORY D											
AAO	333639.00N/1175042.00W	3.71	1124/1124	870	215	8	4B	300			1180/1180

CIRCLING REMARKS:

MSA

CENTER	RADIUS
SLI VORTAC	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
050-140	AAO	334239.00N/1173203.00W	084	26.4	5873	215	8	4B	1000		XP127	7000
140-230	AAO	332351.00N/1182357.00W	202	28.8	1854	215	8	4B	1000			2900
230-320	AAO	341254.00N/1181648.00W	322	28.2	3324	215	8	4B	1000			4400
320-050	TOWER (06-000230)	341355.00N/1180421.00W	343	26.9	6634	100	20	3C	1000			7700

MSA REMARKS:

XP TO MATCH MSA ON LDA RWY 20R APPROACH PER FPT REQUEST.

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SNA	LOC BC RWY 2L	14A	SANTA ANA	CA	56	I-SNA

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

SOCAL APP CON, SNA TOWER, ZLA ARTCC

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	SNA	24	SNA	0	Y	0

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	FUL	24	FUL	13.04	Y	35

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KSNA 56, KFUL 87
RA = 34.4

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
I-SNA	KSNA ATCT	TOWER OPEN	1
		TOWER CLOSED	3

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW02R - MIRL	BSC-G	
RW20L - MIRL, REIL, PAPI-4L	BSC-G	
RW02L - HIRL, PAPI-4L (PCL)	PIR-G	ROLL OUT
RW20R - MALSR (PCL), HIRL, PAPI-4L (PCL)	PIR-G	APPROACH

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
			42.4	887	3.00	75.3

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	[X]	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	[X]	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING RWY 20L
20:1	
58 POLE (06-237993) 334055.34N/1175144.85W (3.51)	51 BUILDING (06-2365940 334045.16N/1175145.09W (2.25)
50 WALL (06-237964) 334053.99N/1175145.16W (2.15)	55 NAVAID (06-028330) 334055.38N/1175144.91W (0.45)
45 POLE (06-26174) 334053.41N/1175145.34W (0.10)	

FINAL TYPE	CIRCLING RWY 20L	
34:1		
RWY 2R 20:1 06-237110 LIGHTED, NIGHT RESTRICTION NOT REQUIRED.		RWY 20L 20:1 06-237993 AND 06-028330 LIGHTED.
FINAL TYPE	CIRCLING RWY 2R	
20:1		
67 FT WIND INDICATOR (06-237110) 334024.92N/1175208.22W (12.01)		
PENETRATIONS REMARKS:		
RWY 2R 20:1 06-237110 lighted, night restriction not required. RWY 20L 20:1 06-237993 and 06-028330 lighted.		

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

COURSE REVERSAL: NOT DEVELOPED DUE TO HEAVY VOLUME TRAFFIC IN THE AREA PER ATC/FPT REQUEST.

VDP NOT ESTABLISHED - VDP IS WITHIN 1/2 MILE OF MAP.

PRECIPITOUS TERRAIN EVALUATION PERFORMED.

VEGETATION 75 FT PER FPT CHECKLIST.

FOR CONTINGENCY PURPOSES:
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FUL ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET AND S-LOC BC 02L VISIBILITY CAT C/D 1/4 SM AND CIRCLING CAT C 1/4 SM, WUNAD FIX MINIMUMS VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C 1/4 SM.

ALTERNATE MISSED APPROACH NA PER ATC.

AAO (SHIP) DATA OVER WATER 280 FT PER PREVIOUS PROCEDURE DEVELOPMENT.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	**TO 1000FT POINT**	3.01
WIDTH OF	FINAL	**SEGMENT AT 1000FT POINT**	0.87
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1000FT POINT**	027.91
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1000FT POINT**	100
DISTANCE FROM	THLD	**TO 1500FT POINT**	4.68
WIDTH OF	FINAL	**SEGMENT AT 1500FT POINT**	1.23
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1500FT POINT**	027.91
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1500FT POINT**	100

THRESHOLD COORDINATES (IF STR-IN)	334004.11N/1175225.80W
ARP COORDINATES	334032.38N/1175205.64W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 2L DISTANCE 0.55 NM
FAF COORDINATES	333555.69N/1175503.01W
FIX NAME COORDINATES	

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
JANTZEN TAYLOR	AJV-A422	01/07/2025	AERONAUTICAL INFORMATION SPECIALIST