

**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.

<b><u>AIRPORT</u></b> LOS BANOS MUNI	<b><u>AIRPORT ID</u></b> KLSN	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 14	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG-C	<b><u>CITY</u></b> LOS BANOS	<b><u>STATE</u></b> CA
<b><u>AIRPORT ELEVATION</u></b> 121	<b><u>TDZE</u></b> 121	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 14	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG-B	<b><u>DATED</u></b> 02/01/2018	<b><u>MAG VAR</u></b> 16E
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b> 28 FEBRUARY 2019	<b><u>REQUIRED EFFECTIVE DATE</u></b> ROUTINE	<b><u>CANCEL/SUSPEND</u></b>	<b><u>EPOCH YEAR</u></b> 1980

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
PATYY	IAF	FOSDI		TF	FB	1.00	155.92	11.98	3300
FOSDI	IF	EGSOW		TF	FB	1.00	137.16	10.00	1800
EGSOW	FAF	COGIS/1.60 NM TO RW14		TF	FB	0.30	137.22	3.51	
COGIS/1.60 NM TO RW14		RW14	MAP	TF	FO	0.30	137.22	1.60	
RW14	MAP	455 MSL		CA			137.22		
455 MSL		GEZJO		DF	FB	1.00			
GEZJO		PXN VORTAC		TF	FO	1.00	153.55	19.49	6500

**MISSED APPROACH**

**MAP:**  
 LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW14

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 6500 DIRECT GEZJO AND ON TRACK 153.55 TO PXN VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6500.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT FOSDI

3. FAC: 137.22      FAF: EGSOW      DIST FAF TO MAP: 5.11      DIST FAF TO THLD: 5.11

4. MIN ALT: FOSDI 3300, EGSOW 1800, COGIS/1.60 NM TO RW14 660\*

5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      334 HAT: 0.96      GS ANT:

6. MIN GP INCPT: 1800      GP ALT AT FAF : EGSOW 1800      OM:      MM:      IM:

7. GP ANGLE: 3.00      34:1: IS NOT CLEAR      20:1: IS CLEAR      TCH: 30.0

8. MSA FROM: RW14 5200

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING MERCED RGNL/MACREADY FIELD ALTIMETER SETTING.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PATYY ON V111 NORTHBOUND AND V113 NORTHWEST BOUND.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MERCED RGNL/MACREADY FIELD ALTIMETER SETTING AND INCREASE ALL DA/MDA 60 FEET, AND ALL VISIBILITY 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART VDP AT 1.16 NM TO RW14\*  
\*LNAV ONLY  
WAAS CHANNEL #53715  
REFERENCE PATH ID: W14A  
CHART FAS OBST: 268 TOWER 370408N/1205139W.  
CHART 181 POLE 370420N/1205236W.  
HOLD SE, RT, 334.88 INBOUND  
LTP HAE: 3.6 M

MINIMUMS:

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

ALTERNATE: NA ☒

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	455	1 1/4	334	455	1 1/4	334	455	1 1/4	334	455	1 1/4	334			
LNAV/VNAV DA	519	1 1/2	398	519	1 1/2	398	519	1 1/2	398	519	1 1/2	398			
LNAV MDA	520	1	399	520	1	399	520	1 1/8	399	520	1 1/4	399			
CIRCLING	640	1	519	640	1	519	640	1 1/2	519	880	2 1/2	759			



CHANGES - REASONS

1. REPLACED CHART NOTE "DME/DME RNP-0.3 NA" WITH "PBN REQUIREMENTS NOTE: RNP APCH". - CHANGED PER NAVSPEC REQUIREMENT IAW 8260.19H PARA 8-6-8.
2. REVISED NOTE "FOR UNCOMPENSATED BARO-VNAV SYSTEMS LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 48C (118F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS LNAV/VNAV NA BELOW -15C OR ABOVE 54C". - IAW 8260.19H PARA 8-6-9.S.
3. REVISED CHART NOTE "RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 14 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED". - NO 20:1 SURFACE PENETRATIONS. 34:1 VISUAL SURFACE PENETRATIONS EXIST, IAW 8260.19H PARA 8-6-11.K.(3).
4. DELETED CHART NOTE "CIRCLING RWY 32 NA AT NIGHT". - NO 20:1 SURFACE PENETRATIONS.
5. CIRCLING CAT D MDA 680/HAA 559 CHANGED TO MDA 880/HAA 759 AND CAT D VIS FROM 2 SM TO 2 1/2 SM. - NEW CIRCLING RADII AND CONTROLLER INCREASES VIS IAW 8260.3D TBL 3-3-7.
6. CHARTED CIRCLING ICON. - CIRCLING MEETS CHANGE 21 CIRCLING CRITERIA.
7. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 6500 DIRECT GEZJO AND ON TRACK 153.55 TO PXN VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6500" TO "CLIMB TO 6500 DIRECT GEZJO AND ON TRACK 153.85 TO PXN VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6500". - GEZJO-PXN COURSE/DIST 153.55//19.49 CHANGED TO 153.85/19.16.
8. CRC CHANGED CRC REMAINDER FOR LPV LINE OF MINIMA FROM 9B3A65E8 TO 37959F0D. - TARGETS CALCULATED FPAP/FAS DATA VALUES.
9. ADDED ALPA TO ORGANIZATIONS COORDINATED WITH. - IAW 8260.19H PARA 8-6-13.A.
10. ADDED VDP. ADDED "CHART VDP AT 1.16 NM TO RW 14" AND "LNAV ONLY" IN ADDITIONAL FLIGHT DATA. - 20:1 PENETRATIONS REMOVED AND IAW 8260.19H PARA 8-6-10.N.(2).

COORDINATED WITH:

A4A ☐

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZOA, NORCAL APP CON, AMGR, CA AERO

<b>FLIGHT CHECKED BY</b>	<i>Digitally signed by</i>	<b>OFFICE</b>	<b>DATE</b>	
CHARLES D CUNNINGHAM	<b>ROBERT G HAMILTON</b>	FICO	12/21/18	
	Jan 08, 2019			
<b>DEVELOPED BY</b>	<i>Digitally signed by</i>	<b>OFFICE</b>	<b>DATE</b>	
JASON KRETSCHMER	<b>JASON KRETSCHMER</b>	AJV-5422	11/02/2018	
	Nov 02, 2018			
<b>APPROVED BY</b>	<i>Digitally signed by</i>	<b>OFFICE</b>	<b>DATE</b>	<b>TITLE</b>
JULIE MORGAN	<b>ROBERT G HAMILTON</b>	AJV-5420		MANAGER
	Jan 08, 2019			



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLSN
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	370406.7505N
LTP/FTP LONGITUDE	1205222.0680W
LTP/FTP ELLIPSOIDAL HEIGHT	+00036
FPAP LATITUDE	370247.0825N
FPAP LONGITUDE	1205131.9720W
THRESHOLD CROSSING HEIGHT (TCH)	00030.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1592
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	37959F0D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00368
FPAP ORTHOMETRIC HEIGHT	+00368

