

**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.

<u>AIRPORT ID</u> KOKB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> OCEANSIDE	<u>STATE</u> CA		
<u>AIRPORT ELEVATION</u> 28	<u>TDZE</u> 28	<u>SUPERSEDED</u> GPS RWY 6	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>DATED</u> 03/31/2016	<u>MAG VAR</u> 13E	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<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>
PACIF	IAF	CATHO	NOPT	TF	FB	1.00	110.77	12.07	1700
HIJOS	IAF	CATHO	NOPT	TF	FB	1.00	331.87	5.00	1700
GEWKI	IAF	CATHO	NOPT	TF	FB	1.00	151.84	5.00	1700
CATHO	IF/IAF	OCICE		TF	FB	1.00	061.85	5.00	1700
OCICE	FAF	RW7	MAP	TF	FO	0.30	061.97	5.06	
RW7	MAP	428 MSL		CA			061.97		
428 MSL		CATHO		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LNAV: RW7

MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN TO 2000 DIRECT CATHO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



CHANGES - REASONS

1. CHANGES FROM P-NOTAMS FOR AMDT ORIG-C INCORPORATED INTO FORM - REQUIRED IAW 8260.19I, 8-3-4C(3).
2. TERMINAL ROUTES ALTITUDES UPDATED FROM 1500 TO 1700 FOR: PACIF TO CATHO, HIJOS TO CATHO, GEWKI TO CATHO, CATHO TO OCICE - PROCEDURE CHANGE FROM GPS TO RNAV (GPS) PER FPT REQUEST.
3. ADDED CA LEG 428 MSL TO TERMINAL ROUTES - REQUIRED FOR CODING.
4. CHANGED MAP FROM REVLY WP TO LNAV: RW07 - MAP AT LTP, UPDATED TO MATCH CURRENT CRITERIA, 8260.19I, 2-10-4 A1(C).
5. CHANGED CATHO TO OCICE COURSE FROM 061.86 TO 061.85 - COURSE CHANGED DUE TO PROCEDURE CHANGE FROM GPS TO RNAV (GPS) PER FPT REQUEST.
6. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMBING RIGHT TURN TO 2000 DIRECT OCICE AND HOLD" TO "CLIMBING RIGHT TURN TO 2000 DIRECT CATHO AND HOLD" - FORMER MISSED APPROACH DID NOT MEET CURRENT CRITERIA, NEW MISSED NEEDED.
7. CHANGED FAC FROM 061.91 TO 061.97 ON PROFILE LINE 3 - COURSE CHANGED DUE TO PROCEDURE CHANGE FROM GPS TO RNAV (GPS) PER FPT REQUEST.
8. ADDED DIST FAF TO MAP: 5.06 TO PROFILE LINE 3 - PER TARGETS EVALUATION.
9. CHANGED PROFILE LINE 4 MIN ALT: FROM "CATHO WP 1500, OCICE WP 1500: TO "CATHO 1700, OCICE 1700" - PER FPT REQUEST.
10. PROFILE LINE 7: ADDED 34:1 IS NOT CLEAR AND 20:1 IS NOT CLEAR - PENETRATIONS EXIST.
11. PROFILE LINE 8: CHANGED MSA FROM "REVLY WP 7200" TO "RW07 7300" - MSA COMPUTED FROM THRESHOLD.
12. ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS - IAW 8260.19I 8-6-8B(1).
13. ADDITIONAL FLIGHT DATA: REMOVED "HOLD SW, RT, 062 INBOUND" - FIX HOLDING CHANGED FROM OCICE TO CATHO, HIL ADDED TO PROCEDURE.
14. CHANGED CHART FAS OBST FROM "399 ANTENNA 331333N/1172157W" TO "399 TOWER (06-002132) 331332N/1172159W" - NEW CONTROLLING OBSTACLE.
15. REMOVED "CHART: 321 TREE 331318/1172148, 260 POLE 331245/1172141, 251 CROSS 331306/1172147" FROM ADDITIONAL FLIGHT DATA - NO 7:1 OBSTACLES.
16. ADDED CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED PER 8260.3D.
17. ADDED VDA "OCICE TO RW07: 3.05/40" TO ADDITIONAL FLIGHT DATA. - IAW 8260.19I, 8-6-100.
18. CHANGED LNAV MINIMUMS MDA/HAA FROM "720/692" TO "660/632" - NEW TARGETS EVALUATION.
19. CHANGED CIRCLING MINIMUMS CAT A MDA/HAA FROM "880/852" TO "720/892" AND CAT B FROM "880/852" TO "840/812" - NEW CONTROLLING OBSTACLES.
20. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PACIF ON V208-458 WESTBOUND AND V25-27 NORTHWEST BOUND - TURNS EXCEED 90 DEGREES, 8260.19I 8-2-5 G(2).
21. CHANGED PROFILE LINE 2: FROM "PROFILE STARTS AT CATHO" TO "HOLD SW CATHO, RT, 061.85 INBOUND, 1700 FT. IN LIEU OF PT (IAF), MAX 3700" - HIL ADDED DUE TO CRITERIA FOR PROCEDURE CHANGE FROM GPS TO RNAV (GPS), IAW 8260.19I 8-6-7B(2).
22. CHANGED CHART NOTE: FROM "RWY 7 PROCEDURE NA AT NIGHT" TO " RWY 7 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT" - 20:1 PENETRATIONS EXIST.
23. ADDED CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 4.94 DEGREES - 8260.19I 8-6-10 G(1).

COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** AIRPORT MANAGER, SAN ATCT, SAN FSS

FLIGHT CHECKED BY *Digitally signed by*

DANIEL C FAVORITE **LONNIE EVERHART**
Aug 30, 2021

OFFICE

FPO

DATE

08/24/2021

DEVELOPED BY

LONNIE EVERHART (SILVIA YOUNG) *Digitally signed by*
LONNIE EVERHART
Aug 30, 2021

OFFICE

AJV-A432

DATE

05/26/2021

APPROVED BY

LONNIE EVERHART *Digitally signed by*
LONNIE EVERHART
Aug 30, 2021

OFFICE

AJV-A430

DATE

TITLE
MANAGER



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

<u>AIRPORT ID</u> KOKB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7	<u>AMDT NO.</u> 1	<u>CITY</u> OCEANSIDE	<u>STATE</u> CA	<u>AIRPORT ELEVATION</u> 28	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
PACIF

TO
CATHO

<u>RNP</u>	<u>DISTANCE</u> 12.07	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
SHIP	331347.36N/1173854.00W		100	50	20	2C	1000				AT600	1700
TERRAIN	331347.36N/1173854.00W		0 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
HIJOS

TO
CATHO

<u>RNP</u>	<u>DISTANCE</u> 5.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
SHIP	330800.18N/1173208.89W		100	50	20	2C	1000				AT600	1700
TERRAIN	330800.18N/1173208.89W		0 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM
GEWKI

TO
CATHO

RNP	DISTANCE 5.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
SHIP	331250.32N/1173342.24W		100	50	20	2C	1000				AT600	1700
TERRAIN	331250.32N/1173342.24W		0 (0)								AS1500	1500

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
CATHO (IF/IAF)

TO
OCICE

RNP	DISTANCE 5.00	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
SHIP	330800.18N/1173208.89W		100	50	20	2C	500				AT1100	1700
TERRAIN	331104.48N/1173003.02W		0 (0)								AS1500	1500

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

SEGMENT REMARKS:



FINAL: LNAV

FROM
OCICE

TO
RW7

RNP	DISTANCE 5.06	PAT	MAP RW7	HAT 632			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (06-002132)	331331.52N/1172158.74W		399	20	10	1B	250				SA-3	660

COMPUTATIONS

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

HOLD-IN-LIEU OF PT

FROM
CATHO

TO
P-4

RNP	DISTANCE	PAT P-4	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	331025.25N/1173255.54W		200	164	98	4E	1000				AT500	1700
TERRAIN	331025.25N/1173255.54W		0 (0)								AS1500	1500

COMPUTATIONS

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



MISSED APPROACH : LNAV

FROM
RW7

TO
CATHO

RNP	DISTANCE	PAT	MAP	HAT			HMAS 560					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2000
AAO	331126.92N/1172018.03W		539	50	20	2C	1000					1600
TERRAIN	331418.00N/1172148.00W		344 (300)								AS1000	1300

COMPUTATIONS

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

CIRCLING ☐ ALL CATS ☒ CAT A ☒ CAT B ☐ CAT C ☐ CAT D ☐ CAT E ☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (06-020379)	331332.59N/1172156.94W	1.30	692	406	20	10	1B	300			720
CATEGORY B											
AAO	331126.92N/1172018.03W	1.81	812	539	50	20	2C	300			840

CIRCLING REMARKS:

MSA

CENTER RW07	RADIUS 25
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SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	332151.00N/1165012.00W	058	27.6	6256	164	98	4E	1000			7300

MSA REMARKS:



NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
SAN TOWER, SAN FSS

WX SERVICE ASOS	LOCATION KOKB	HRS OPERATION 24	ALTIMETER SOURCE KOKB	DISTANCE 0	SERVICE-A Y	ADJUSTMENTS 0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS

WX REMARKS:

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW7 - MIRL (PCL)		NPI-G	
RW25 - MIRL (PCL), REIL		NPI-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
<u>FINAL APPROACH COURSE AIMING</u>						
RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE			
ON CENTERLINE	☒	FT FROM CENTERLINE				
<u>CRITICAL TEMPERATURES</u>						
<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>			

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING RWY 07				
20:1					
38 TRAVERSE_WAY (06-040944) 331302.66N/1172125.33W (6.28)			39 TRAVERSE_WAY (06-040793) 331301.65N/1172126.19W (2.79)		
Final Type	LNAV RWY 07				
20:1					

QUALITY

16

CHECKED



AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KOKB	RNAV (GPS) RWY 7	1	OCEANSIDE	CA	28	RNAV
38 TRAVERSE_WAY (06-040944) 331302.66N/1172125.33W (6.28)			39 TRAVERSE_WAY (06-040793) 331301.65N/1172126.19W (2.79)			
Final Type	LNAV RWY 07					
34:1						
211 POLE (06-174060) 331301.39N/1172218.51W (50.75)			210 POLE (06-174062) 331300.04N/1172217.88W (50.6)			
209 POLE (06-174068) 331302.51N/1172219.01W (48.1)			202 POLE (06-174069) 331258.56N/1172217.42W (42.96)			
201 POLE (06-174076) 331300.18N/1172217.47W (42.68)			197 POLE (06-174073) 331242.64N/1172212.57W (41.63)			
203 POLE (06-174070) 331258.72N/1172218.77W (40.72)			196 POLE (06-174064) 331242.67N/1172213.90W (37.38)			
115 TREE (06-042038) 331302.24N/1172145.50W (36.41)			194 POLE (06-036816) 331257.74N/1172216.73W (36.23)			
203 POLE (06-174066) 331259.90N/1172221.01W (35.82)			200 POLE (06-174057) 331259.14N/1172220.02W (34.86)			
199 POLE (06-174071) 331301.20N/1172221.18W (32.08)			193 POLE (06-174072) 331242.73N/1172215.19W (31.23)			
194 POLE (06-174059) 331242.78N/1172216.54W (28.94)			190 POLE (06-174055) 331241.39N/1172214.96W (28.1)			
195 POLE (06-174056) 331302.32N/1172221.70W (27.38)			194 POLE (06-174058) 331300.72N/1172222.54W (23.48)			
179 POLE (06-174061) 331257.40N/1172216.55W (21.5)			195 POLE (06-174065) 331259.65N/1172223.92W (20.53)			
190 POLE (06-174054) 331301.04N/1172222.85W (18.89)			186 POLE (06-174074) 331242.75N/1172217.75W (17.94)			
197 POLE (06-174075) 331258.07N/1172225.99W (16.62)			193 POLE (06-174063) 331258.87N/1172224.96W (15.57)			
185 POLE (06-174067) 331241.90N/1172218.42W (14.85)			90 TRANSMISSION_LINE (06-036812) 331259.21N/1172143.48W (14.8)			
228 TRANSMISSION_LINE (06-039745) 331300.89N/1172240.43W (13.56)			186 POLE (06-184921) 331239.71N/1172219.03W (13.22)			
189 POLE (06-184913) 331302.25N/1172225.39W (12.27)			191 POLE (06-184917) 331301.43N/1172226.15W (11.97)			
182 POLE (06-184916) 331240.80N/1172218.73W (10.52)			64 TREE (06-040880) 331258.85N/1172135.39W (8.52)			
191 POLE (06-184915) 331257.26N/1172227.03W (7.64)			192 POLE (06-184914) 331259.83N/1172228.26W (6.95)			
188 POLE (06-184924) 331300.62N/1172227.21W (5.94)			76 TRANSMISSION_LINE (06-040230) 331301.92N/1172142.09W (5.64)			
77 POLE (06-040229) 331300.39N/1172142.28W (5.37)			178 POLE (06-184919) 331239.42N/1172220.29W (1.97)			
213 TRANSMISSION_LINE (06-039748) 331301.45N/1172239.21W (1.85)			188 POLE (06-184922) 331256.43N/1172228.04W (1.72)			
176 POLE (06-185379) 331239.87N/1172220.04W (0.81)						

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS



PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - VDP IS NOT PUBLISHABLE DUE TO 20:1 PENETRATIONS.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

50' MAXIMUM ADVERSE VEGETATION USED.

100' WORSE CASE SHIP USED.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



AIRPORT ID KOKB	PROCEDURE NAME RNAV (GPS) RWY 7	AMDT NO. 1	CITY OCEANSIDE	STATE CA	AIRPORT ELEVATION 28	FACILITY RNAV
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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	3.73
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	074.97
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	300
DISTANCE FROM	THLD	TO 1500FT POINT	10.66
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	074.85
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD
COORDINATES
(IF STR-IN)

331302.37N/1172121.15W

ARP COORDINATES

331304.72N/1172105.43W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 7 DISTANCE 0.22 NM

FAF
COORDINATES

331143.65N/1172710.46W

FIX NAME
COORDINATES

REMARKS

QUALITY
16
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> LONNIE EVERHART (SILVIA YOUNG)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 05/26/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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