

**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><b>AIRPORT ID</b></u> PAHP	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 32	<u><b>ORIGINAL/AMENDMENT</b></u> 2	<u><b>CITY</b></u> HOOPER BAY	<u><b>STATE</b></u> AK		
<u><b>AIRPORT ELEVATION</b></u> 20	<u><b>TDZE</b></u> 20	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 31	<u><b>ORIGINAL/AMENDMENT</b></u> 1C	<u><b>DATED</b></u> 08/15/2019	<u><b>MAG VAR</b></u> 8E	<u><b>EPOCH YEAR</b></u> 2025
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 8 SEPTEMBER 2022	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>CANCEL/SUSPEND</b></u>		

**TAA**

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 231/30 CW 051/30	NOPT	JUGLO	IF/IAF	2000
2. 051/30 CW 141/30		ORCHN	IAF	2000
3. 141/30 CW 231/30		141/10 CW 231/10		3800
4. 141/10 CW 231/10		UTIKY	IAF	2000

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ORCHN	IAF	JUGLO	NOPT	TF	FB	1.00	050.63	7.00	2000
UTIKY	IAF	JUGLO	NOPT	TF	FB	1.00	230.99	7.00	2000
JUGLO	IF/IAF	NECIK		TF	FB	1.00	320.81	6.01	1500
NECIK	FAF	WORED/2.50 NM TO RW32		TF	FB	0.30	320.72	2.01	
WORED/2.50 NM TO RW32		RW32	MAP	TF	FO	0.30	320.72	2.50	
RW32	MAP	270 MSL		CA			320.72		
270 MSL		COYRA		DF	FO	1.00			2000



**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW32

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2000 DIRECT COYRA AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD SE JUGLO, RT, 320.81 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC: 320.72		FAF: NECIK		DIST FAF TO MAP: 4.51	DIST FAF TO THLD: 4.51
4. MIN ALT:	JUGLO 2000, NECIK 1500, WORED/2.50 NM TO RW32 840				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	250 HAT: 0.65	GS ANT:
6. MIN GP INCPT: 1500	GP ALT AT PFAF :	NECIK 1500		OM:	MM:
7. GP ANGLE: 3.00	34:1: IS NOT CLEAR	20:1: IS NOT CLEAR	TCH: 45.0		IM:
8. MSA FROM:					

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: RWY 32 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: STRAIGHT-IN RWY 32 NA AT NIGHT, CIRCLING RWY 32 NA AT NIGHT.

**ADDITIONAL FLIGHT DATA:**

CHART ANCHORAGE CENTER FREQUENCY.  
CHART KENAI RADIO RCO.  
HOLD NW, RT, 140.45 INBOUND.  
CHART FAS OBST: 63 LIGHTING (02-290296) 613119N/1660819W.  
WAAS CHANNEL # 65725  
REFERENCE PATH ID: W32A  
CHART CIRCLING ICON.  
LTP HAE: 13.5 M



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

**ALTERNATE:** NA  STANDARD - 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	270	1	250	270	1	250	270	1	250	270	1	250				
LNAV/VNAV DA	270	1	250	270	1	250	270	1	250	270	1	250				
LNAV MDA	320	1	300	320	1	300	320	1	300	320	1	300				
CIRCLING	400	1	380	480	1	460	480	1 1/2	460	580	2	560				



**CHANGES - REASONS**

1. AIRPORT MAG/VAR CHANGED FROM E13 2005 TO E08 2025 - CURRENT MAG/VAR OUT OF TOLERANCE.
2. RWY NUMBER CHANGED FROM RWY 31 TO RWY 32 - MAG/VAR UPDATE.
3. TAA CHANGED FROM SIMPLIFIED SEMI-CIRCLE STRAIGHT-IN TAA TO STANDARD TAA T-CONFIGURATION - FPT DIRECTIVE BY CHECKLIST.
4. ADDED INITIAL FROM ORCHN TO JUGLO - FPT DIRECTED TO SUPPORT NEW TAA DESIGN.
5. ADDED INITIAL FROM UTIKY TO JUGLO - FPT DIRECTED TO SUPPORT NEW TAA DESIGN.
6. JUGLO TO NECIK INTERMEDIATE CHANGED: CRS CHANGED FROM 315.80 TO 320.81; DISTANCE CHANGED FROM 5 TO 6.01 NM - MAG/VAR UPDATE; JUGLO MOVED 0.99 NM SE AND NECIK MOVED 123 FT NW.
7. JUGLO (IF/IAF) ALTITUDE RAISED FROM 1800 TO 2000 - FPT DIRECTED TO SUPPORT NEW TAA DESIGN.
8. NECIK (PFAF) TO WORED FINAL CHANGED: CRS CHANGED FROM 315.72 TO 320.72; DISTANCE CHANGED FROM 3.03 TO 2.01 NM - MAG/VAR UPDATE; NECIK MOVED 123 FT NW AND WORED MOVED 1 NM SE.
9. WORED STEPDOWN ALTITUDE CHANGED FROM 520 TO 840 - RAISED TO 840 TO PLACE STEPDOWN ON VDA; VDA INCLUDES RA ADJUSTMENT.
10. WORED TO MAP CHANGED: DELETED ZUPAR FROM PROCEDURE; UPDATED WORED ATD FIX TO REFLECT RW32 - FPT DIRECTED TO MOVE MAP TO THRESHOLD.
11. MISSED APPROACH CHANGED FROM DIRECT FROM ZUPAR TO DIRECT FROM MAP/DA (RWY 32 THLD) - FPT DIRECTED TO SUPPORT ADDING VERTICALLY GUIDED MINIMUMS.
12. MISSED ALT AT COYRA INCREASED FROM 1800 TO 2000 - FPT DIRECTED TO SUPPORT TAA T-CONFIGURATION FOR RNAV (GPS) RWY 14 PROCEDURE.
13. HIL (JUGLO) CRS CHANGED FROM 315.80 TO 320.81 - MAG/VAR UPDATE AND CORRESPOND WITH INTERMEDIATE COURSE.
14. FAC CHANGED FROM 315.72 TO 320.72 - MAG/VAR UPDATE.
15. DIST FROM MAP/THLD CHANGED FROM 4.03/4.53 TO 4.51/4.51 - MAP MOVED TO THLD; PFAF MOVED.
16. REPLACED VDA/TCH TO RW31 (ADDITIONAL FLIGHT DATA) WITH GP ANGLE/TCH (LINE 7) - VERTICALLY GUIDED MINS ADDED TO PROCEDURE.
17. ADDED GPS TO RNP APCH PBN NOTE - CORRECTED BY REQUIREMENT.
18. UPDATED VGSI INOP NOTE (DESCENT ANGLE) WITH GLIDEPATH ANGLE - ADDED VERTICALLY GUIDED MINS.
19. REMOVED LP MINS AND ADDED LPV AND LNAV/VNAV MINIMUMS - FPT DIRECTED BY CHECKLIST.
20. LNAV MDA LOWERED FROM 380/360 TO 320/300 - OBSTACLE EVAL, LOWER MINS DIRECTED BY FPT.
21. CIRCLING CAT A MDA/HAA LOWERED FROM 420/400 TO 400/380 - LOWER MINS DIRECTED BY FPT.
22. CRC REMAINDER CHANGED FROM E30F8788 TO 0CC40299 - FAS DATA CHANGED: RPI CHANGED TO FROM W31A TO W32A; FPAP UPDATED AFTER MOVING MAP FROM ZUPAR TO THLD; VAL ADDED AFTER ADDING VERTICALLY GUIDED MINS.
23. CA MSL CHANGED FROM 380 TO 270; ADDED DIST 250 FT HAT DIST 0.65 TO LINE 5 - LP REPLACED WITH LPV MINS.
24. CHANGED RWY NUMBER FROM 31 TO 32 ON HELICOPTER VISIBILITY REDUCTION NOTE - RWY NUMBERS CHANGED.
25. UPDATED NA AT NIGHT: CHANGED FROM "STRAIGHT-IN AND CIRCLING RWY 31 NA AT NIGHT" TO "STRAIGHT-IN RWY 32 NA AT NIGHT, CIRCLING RWY 32 NA AT NIGHT - FORMATTING CHANGED PER 8260.19I.
26. ADDED NA WHEN LOCAL WEATHER NOT AVAILABLE TO STANDARD ALT MINS - PILOT REFERENCE.
27. ADDED CHART ANCHORAGE CENTER FREQUENCY - PROVIDE PILOT REFERENCE AT UNCONTROLLED AIRPORT UTILIZING FSS FREQUENCY.
28. MISSED HOLDING INBOUND COURSE CHANGED FROM 135.49 TO 140.45 - MAG/VAR AND ALIGN WITH R14 INTERMEDIATE COURSE.
29. FAS OBST CHANGED FROM 46 ANTENNA 613109N/1660817W, 63 LIGHTING 613119N/1660819W TO 63 LIGHTING (02-290296) 613119N/1660819W - TARGETS OBSTACLE EVAL.
30. WORED CHANGED FROM WORED/1.00 NM TO ZUPAR TO WORED/2.50 NM TO RW32 - WORED MOVED AND MAP CHANGED FROM ZUPAR TO RW32.
31. LINE 6 ADDED MIN GP INCPT: 1500 AND GP ALT AT PFAF: NECIK 1500 - ADDED LPV AND LNAV/VNAV MINS.
32. ADDED NOTE FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 54C - ADDED LNAV/VNAV MINS.
33. CA COURSE CHANGED FROM 315.72 TO 320.72 - MAGVAR UPDATED.
34. ADDED ADDITIONAL FLIGHT DATA NOTE TO CHART KENAI RADIO - VALIDATE EXISTING CHARTING OF KENAI RADIO

**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** KENAI FSS, ZAN

**FLIGHT CHECKED BY** *Digitally signed by*

EDWARD W MESA **ERIC N SUSKI**  
Jul 11, 2022

**OFFICE**

FPO

**DATE**

06/29/2022

**DEVELOPED BY** *Digitally signed by*

KELLY DEAN **KELLY D DEAN**

**OFFICE**

AJV-A431

**DATE**

03/24/2022

**APPROVED BY** *Apr 26, 2022*  
*Digitally signed by*

LONNIE EVERHART **ERIC N SUSKI**  
Jun 30, 2022

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PAHP
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	613112.0600N
LTP/FTP LONGITUDE	1660830.1375W
LTP/FTP ELLIPSOIDAL HEIGHT	+00135
FPAP LATITUDE	613227.9210N
FPAP LONGITUDE	1661007.0035W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1744
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	0CC40299

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+00054
FPAP ORTHOMETRIC HEIGHT	+00054

