

FEDERAL AVIATION ADMINISTRATION FLIGHT STANDARDS SERVICE VOR OR TACAN STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.23

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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
KOA/PHKO	VOR OR TACAN RWY 35	1	KAILUA-KONA	HI		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
49	45	VOR OR TACAN RWY 35	ORIG-D	11/05/2020	11E	1990
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
KOA			02/20/2025			

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>
KOA VORTAC		CIGAK/KOA 11.66 DME					191.00	11.66	3700
ANDES/KOA 11.66 DME CCW	IAF	CIGAK/KOA 11.66 DME					11.66 DME ARC		2000
CIGAK/KOA 11.66 DME	IF/IAF	YUCUV/KOA 3.84 DME					011.00 (KOA R-191)	7.82	1500

MISSED APPROACH

MAP:

KOA VORTAC

MISSED APPROACH INSTRUCTIONS:

CLIMBING LEFT TURN TO 2000 ON KOA VORTAC R-294 TO ANDES/KOA 11.66 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- HOLD S CIGAK/11.66 DME, RT, 011.00 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 4000.
- FAC: 011.00 FAF: YUCUV/KOA 3.84 DME DIST FAF TO MAP: DIST FAF TO THLD: 4.80
- MIN ALT: CIGAK/KOA 11.66 DME 2000, YUCUV/KOA 3.84 DME 1500
- MSA FROM: KOA VORTAC 080-170 14900, 170-350 3300, 350-080 11600



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING NA E OF RWY 17-35.
CHART PLANVIEW NOTE: PROCEDURES NA FOR ARRIVALS ON KOA VORTAC AIRWAY RADIAL 158.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 113.67 INBOUND.
CHART FAS OBST: 342 TREE 194330N/1560118W.
CHART VDP AT 0.56 DME.
DISTANCE VDP TO THLD 1.57 NM.
CHART KOA R-294 AT ANDES.
FAC CROSSES RWY C/L EXTENDED 9182 FT FROM THLD.
CHART CIRCLING ICON.
YUCUV TO RW35: 2.75/60.

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
S-35	600	1 1/4	555	600	1 1/4	555	600	1 5/8	555	600	1 5/8	555	600	1 5/8	555
CIRCLING	600	1 1/4	551	600	1 1/4	551	600	1 5/8	551	600	2	551	600	2	551

CHANGES - REASONS

- AIRPORT ELEVATION CHANGED FROM "47" TO "49" - AIRPORT CONSTRUCTION, NEW DATA.
- TDZE ELEVATION CHANGED FROM "37" TO "45" - AIRPORT CONSTRUCTION, NEW DATA.
- TERMINAL ROUTES: UPDATED KOA VORTAC TO CIGAK/KOA 11.66 DME ALTITUDE FROM "3500" TO "3700" - NEW CONTROLLING OBSTACLE.
- TERMINAL ROUTES: UPDATED CIGAK/KOA 11.66 DME TO YUCUV/KOA 3.84 DME DISTANCE FROM "6.66" TO "7.82" - FAF MOVED 1.16 NM NORTH FOR AIRPORT CONSTRUCTION.
- PROFILE LINE 2: UPDATED HOLDING ALTITUDE MAX FROM "6000" TO "4000" - FPT REQUEST.
- PROFILE LINE 3: UPDATED FAF FROM " YUCUV/KOA 5.00 DME" TO " YUCUV/KOA 3.84 DME" - FAF MOVED 1.16 NM NORTH FOR AIRPORT CONSTRUCTION.
- PROFILE LINE 4: UPDATED MIN ALT YUCUV FROM " YUCUV/KOA 5.00 DME 1500" TO " YUCUV/KOA 3.84 DME 1500" - FAF MOVED 1.16 NM NORTH FOR AIRPORT CONSTRUCTION.
- PROFILE LINE 8: UPDATED 350-080 FROM "11500" TO "11600" - NEW CONTROLLING OBSTACLE.
- NOTES: UPDATE CHART NOTE FROM "CIRCLING NA EAST OF RWY 17-35" TO "CIRCLING NA E OF RWY 17-35" - IAW 8260.19J 8-6-12 O (5).
- NOTES: ADDED "CHART PLANVIEW NOTE: PROCEDURES NA FOR ARRIVALS ON KOA VORTAC AIRWAY RADIAL 158" IAW 8260.19J 8-2-5 E.
- ADDITIONAL FLIGHT DATA: UPDATED FAS OBST FROM "FAS OBST: 264 TREE 194259N/1560142W" TO "CHART FAS OBST: 342 TREE 194330N/1560118W" - NEW FAS OBSTACLE.
- ADDITIONAL FLIGHT DATA: UPDATED VDP FROM "CHART VDP AT 1.21 DME" TO "CHART VDP AT 0.56 DME" - NEW EVALUATION FOR AIRPORT CONSTRUCTION.
- ADDITIONAL FLIGHT DATA: UPDATED VDP FROM "DISTANCE VDP TO THLD 1.54 MILES" TO "DISTANCE VDP TO THLD 1.57 NM" - NEW EVALUATION FOR AIRPORT CONSTRUCTION.
- ADDITIONAL FLIGHT DATA: UPDATED FAC FROM "FAC CROSSES RWY C/L EXTENDED 5194 FT FROM THLD" TO "FAC CROSSES RWY C/L EXTENDED 9182 FT FROM THLD" - NEW EVALUATION FOR AIRPORT CONSTRUCTION.
- ADDITIONAL FLIGHT DATA: UPDATED VDA/TCH FROM "CHART YUCUV TO RW35: 2.64/60" TO "YUCUV TO RW35: 2.75/60" - PER FPT/ATC REQUEST.
- ALTERNATE MINIMUMS: ADDED "NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.19J 8-6-12 B. (4).
- MINIMUMS: UPDATED S-35: CAT A/B VIS / HAT FROM "1 / 563" TO "1 1/4 / 555", AND CAT C/D/E HAT FROM "563" TO "555" - TDZE CHANGE, IAW 8260.3E TABLE 3-3-1.
- MINIMUMS: UPDATED CIRCLING: CAT A/B VIS / HAA FROM "1 / 553" TO "1 1/4 / 551", CAT C HAA FROM "553" TO "551", AND CAT D/E HAA FROM "553" TO "551" - AIRPORT ELEVATION CHANGE, IAW 8260.3E TABLE 3-3-1.



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

AIRPORT ID
KOA/PHKO

PROCEDURE NAME
VOR OR TACAN RWY 35

AMDT NO.
1

CITY
KAILUA-KONA

STATE
HI

AIRPORT ELEVATION
49

FACILITY
KOA

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
KOA VORTAC

TO
CIGAK/KOA 11.66 DME

RNP

DISTANCE
11.66

PAT

MAP

HAT

HMAS

<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>
AAO	194045.00N/1555651.00W	2641	215	8	4B	2000				SA-991	3700
TERRAIN	194130.00N/1555848.00W	1177 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: ARC

FROM
ANDES/KOA 11.66 DME CCW

TO
CIGAK/KOA 11.66 DME

RNP

DISTANCE

PAT

MAP

HAT

HMAS

<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	194941.21N/1561251.98W	208	50	20	2C	1000				AT792	2000
WATER	193540.97N/1560633.05W	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

CIGAK/KOA 11.66 DME

TO

YUCUV/KOA 3.84 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
	7.82										
<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	193900.27N/1560413.11W	208	50	10	2B	500					800
WATER	193730.00N/1560539.00W	0 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

YUCUV/KOA 3.84 DME

TO

KOA VORTAC

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
	3.84		KOA VORTAC		555						
<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>
TREE	194330.00N/1560118.00W	342	215	8	4B	250					600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

CIGAK/11.66 DME

TO

P-4

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-4	<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	193210.88N/1560719.19W	208	50	20	2C	1000					1300
WATER	193253.00N/1560440.00W	0 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH

FROM

KOA VORTAC

TO

ANDES/KOA 11.66 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 350			
<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>
							ASC				2000
TREE	194409.00N/1560121.00W	365	215	8	4B	1000					1400
TERRAIN	194409.00N/1560121.00W	314 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

KOA/PHKO

PROCEDURE NAME

VOR OR TACAN RWY 35

AMDT NO.

1

CITY

KAILUA-KONA

STATE

HI

AIRPORT ELEVATION

49

FACILITY

KOA

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											
SHIP	194427.00N/1560351.00W	1.30	551	208	50	20	2C	300		SI	600
CATEGORY B											
SHIP	194427.00N/1560351.00W	1.81	551	208	50	20	2C	300		SI	600
CATEGORY C											
SHIP	194427.00N/1560351.00W	2.84	551	208	50	20	2C	300		SI	600
CATEGORY D											
SHIP	194427.00N/1560351.00W	3.70	551	208	50	20	2C	300		SI	600
CATEGORY E											
SHIP	194427.00N/1560351.00W	4.63	551	208	50	20	2C	300		SI	600

CIRCLING REMARKS:

MSA

CENTER	RADIUS
KOA VORTAC	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
080-170	AAO	192833.00N/1553621.00W	109	28.8	13875	215	8	4B	1000			14900
170-350	AAO	194406.00N/1555827.00W	064	04.1	2241	215	8	4B	1000			3300
350-080	AAO	194921.00N/1553242.00W	066	29.0	10525	215	8	4B	1000			11600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

50' VEGETATION, 60' SHIP, AND 208' SHIP USED TO MAINTAIN CONTINUITY WITH PREVIOUS PROCEDURE.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

HNL ARTCC, HNL FSS, KOA TOWER

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KOA/PHKO	24	KOA/PHKO	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

NO SUITABLE BACK UP ALTIMETER AVAILABLE.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
KOA VORTAC			

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW17 - MALSR (PCL), HIRL (PCL), PAPI-4L	PIR-G	
RW35 - HIRL (PCL), PAPI-4L	PIR-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>
					3.00	59.8

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☐	9182FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

WAIVER LETTER: FAC ALIGNMENT GRETAER THAN 5200 FEET OUTWARD FROM THE LTP (8260.3E PAR 5-2-4 A (2A)).
APPROVAL LETTER: PUBLISHING VDA LESS THAN VGSI (8260.3E, PAR 2-6-2B).
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	4.13
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.45
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	022.00
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	300
DISTANCE FROM	FAF	TO 1500FT POINT	6.82
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	7.44
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	022.00
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD COORDINATES (IF STR-IN)	194404.74N/1560245.59W
ARP COORDINATES	194439.31N/1560242.52W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 17 DISTANCE 0.58 NM
FAF COORDINATES	193927.74N/1560413.12W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
DANIEL WESTON	AJV-A422	08/13/2024	AERONAUTICAL INFORMATION SPECIALIST

