

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> HCA/PAHC	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> HOLY CROSS	<u>STATE</u> AK
<u>AIRPORT ELEVATION</u> 75	<u>TDZE</u> 75	<u>SUPERSEDED</u> RNAV (GPS) RWY 19	<u>DATED</u> 10/12/2017	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 11 JULY 2024	<u>MAG VAR</u> 10E	<u>CANCEL/SUSPEND</u>
		<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 111/30 CW 291/30	NOPT	111/10 CW 291/10		4300
2. 111/10 CW 291/10		NUANC	IF/IAF	2700
3. 291/30 CW 021/30		291/13 CW 021/13		4800
4. 291/13 CW 021/13		UTIDY	IAF	3400
5. 021/30 CW 111/30		021/15 CW 111/15		4000
6. 021/15 CW 111/15		AVOXY	IAF	2700

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
UTIDY	IAF	NUANC	NOPT	TF	FB	1.00	291.47	7.00	2700
AVOXY	IAF	NUANC	NOPT	TF	FB	1.00	111.09	7.00	2700
NUANC	IF/IAF	HOKRI		TF	FB	1.00	201.28	3.21	2400
HOKRI		SUMJE		TF	FB	1.00	201.22	2.72	1900
SUMJE	FAF	UHIGO/2.66 NM TO RW20		TF	FB	0.30	201.19	2.95	
UHIGO/2.66 NM TO RW20		RW20	MAP	TF	FO	0.30	201.19	2.66	
RW20	MAP	420 MSL		CA			201.19		
420 MSL		GODHY		DF	FB	1.00			
GODHY		NUANC		TF	FO	1.00	350.95	6.71	2700



MISSED APPROACH

MAP:

LP: RW20
LNAV: RW20

MISSED APPROACH INSTRUCTIONS:

CLIMBING LEFT TURN TO 2700 DIRECT GODHY AND ON TRACK 350.95 TO NUANC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	HOLD N NUANC, RT, 201.28 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 8000.					
3.	FAC:	201.19	FAF:	SUMJE	DIST FAF TO MAP:	5.61
4.	MIN ALT:	NUANC 2700, HOKRI 2400, SUMJE 1900, UHIGO/2.66 NM TO RW20 960				
5.	DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:	
6.	MIN GP INCPT:	GP ALT AT FAF:			OM:	MM:IM:
7.	GP ANGLE:	34:1:	IS NOT CLEAR	20:1:	IS NOT CLEAR	TCH:
8.	MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA W OF RWY 2-20.
CHART NOTE: RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ANVIK ALTIMETER SETTING AND INCREASE ALL MDAS 120 FEET, LNAV ALL VISIBILITIES 1/2 SM, LP VISIBILITIES CATS C AND D 3/8 SM, AND CIRCLING VISIBILITIES CATS B, C, AND D 1/2 SM.
CHART NOTE: STRAIGHT-IN AND CIRCLING RWY 20 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

SUMJE TO RW20 3.00/40

CHART FAS OBST: 689 TOWER (02-020032) 621204N/1594654W, 160 TREE (02-131215) 621302N/1594401W.
WAAS CHANNEL # 60948
REFERENCE PATH ID: W20A
LTP HAE: 32.4 M



MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT
ALTERNATE: NA ☐ CAT A, B 900-2, CAT C 900-2 1/2, CAT D 900-2 3/4, 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
LP MDA	420	1	345	420	1	345	420	1	345	420	1	345			
LNAV MDA	940	1	865	940	1 1/4	865	940	2 1/2	865	940	2 1/2	865			
CIRCLING	940	1 1/4	865	940	1 1/4	865	940	2 1/2	865	940	2 3/4	865			



CHANGES - REASONS

1. TAA: REPLACED "103/30 CW 193/30 TO 103/10 CW 193/10" AND "193/30 CW 283/30 TO 193/10 CW 283/10" WITH "111/30 CW 291/30 TO 111/10 CW 291/10" AND CHANGED ALTITUDE FROM 4200/4700 RESPECTIVELY TO 4300; ADDED NOPT TO FIX TYPE- DUE TO MAGVAR CHANGE AND FPT.
2. TAA: CHANGED "103/10 CW 283/10 TO NUANC" TO "111/10 CW 291/10 TO NUANC" AND DECREASED ALTITUDE FROM 3400 TO 2700 - DUE TO MAGVAR CHANGE AND FPT.
3. TAA: CHANGED "283/30 CW 013/30 TO 283/15 CW 013/15" TO "291/30 CW 021/30 TO 291/13 CW 021/13" AND INCREASED ALTITUDE FROM 4700 TO 4800 - DUE TO MAGVAR CHANGE AND FPT.
4. TAA: CHANGED "283/15 CW 013/15 TO WEJYY" TO "291/13 CW 021/13 TO UTIDY" AND DECREASED ALTITUDE FROM 4100 TO 3400 - DUE TO MAGVAR CHANGE AND FPT.
5. TAA: CHANGED "013/30 CW 103/30 TO 013/15 CW 103/15" TO "021/30 CW 111/30 TO 021/15 CW 111/15" - DUE TO MAGVAR CHANGE AND FPT.
6. TAA: CHANGED "013/15 CW 103/15 TO IBBEB" TO "021/15 CW 111/15 TO AVOXY" AND DECREASED ALTITUDE FROM 3200 TO 2700 - DUE TO MAGVAR CHANGE AND FPT.
7. TERMINAL ROUTES: REPLACED INITIAL LEG "WEJYY TO NUANC" WITH "UTIDY TO NUANC" AND CHANGED COURSE AND DISTANCE FROM "283.41 AND 5.00" TO "291.47 AND 7.00" - DUE TO MAGVAR CHANGE AND FPT.
8. TERMINAL ROUTES: REPLACED INITIAL LEG "IBBEB TO NUANC" WITH "AVOXY TO NUANC" AND CHANGED COURSE AND DISTANCE FROM "103.14 AND 5.00" TO "111.09 AND 7.00" - DUE TO MAGVAR CHANGE AND FPT.
9. TERMINAL ROUTES: CHANGED INITIAL/INTERMEDIATE LEG NUANC TO HOKRI COURSE AND DISTANCE FROM "193.28 AND 3.00" TO "201.28 AND 3.21". HOKRI MOVED 1275 FEET SOUTH FROM 621851.56N/1593641.54W TO 621840.82N/1593655.53W - DUE TO MAGVAR CHANGE AND FPT.
10. TERMINAL ROUTES: CHANGED INTERMEDIATE STEPDOWN LEG HOKRI TO SUMJE COURSE AND DISTANCE FROM "193.23 AND 3.00" TO "201.22 AND 2.72". HOKRI MOVED 1275 FEET SOUTH FROM 621851.56N/1593641.54W TO 621840.82N/1593655.53W - DUE TO MAGVAR CHANGE AND FPT.
11. TERMINAL ROUTES: REPLACED FINAL LEG "SUMJE TO NEYBI" WITH FINAL STEPDOWN LEG "SUMJE TO UHIGO/2.66 NM TO RW20" AND CHANGED COURSE AND DISTANCE FROM "193.18 AND 5.29" TO "201.19 AND 2.95" - DUE TO MAGVAR CHANGE AND FPT.
12. TERMINAL ROUTES: ADDED NEW FINAL LEG "UHIGO/2.66 NM TO RW20 TO RWY20". MAP CHANGED FROM "NEYBI" TO "RWY20" AND COURSE AND DISTANCE FROM "193.18 AND 5.29" TO "201.19 AND 2.66" - DUE TO MAGVAR CHANGE AND FPT.
13. TERMINAL ROUTES: CHANGED MISSED APPROACH CA LEG MISSED APPROACH POINT, ALTITUDE AND COURSE FROM "NEYBI, 475 MSL AND 193.18" TO "RW20, 475 MSL AND 201.19" - DUE TO MAGVAR CHANGE AND FPT.
14. TERMINAL ROUTES: CHANGED MISSED APPROACH DF LEG FROM: "475 MSL TO NUANC" TO "475 MSL TO GODHY". GODHY ADDED - DUE TO FPT.
15. TERMINAL ROUTES: ADDED MISSED APPROACH TF LEG "GODHY TO NUANC" WITH COURSE, DISTANCE AND ALTITUDE OF "350.95, 6.71 AND 2700" - DUE TO FPT.
16. MISSED APPROACH: CHANGED MAP FROM "LNAV: NEYBI" TO "LP: RW20 AND LNAV: RW20" - DUE TO FPT.
17. MISSED APPROACH: CHANGED MISSED APPROACH INSTRUCTIONS FROM: "CLIMBING LEFT TURN TO 2700 DIRECT NUANC AND HOLD" TO "CLIMBING LEFT TURN TO 2700 DIRECT GODHY AND ON TRACK 350.95 TO NUANC AND HOLD". GODHY ADDED - DUE TO FPT.
18. PROFILE LINE 2: UPDATED FROM "HOLD N NUANC, RT, 193.28 INBOUND, 2700 FT, IN LIEU OF PT (IAF), MAX 14000" TO "HOLD N NUANC, RT, 201.28 INBOUND, 2700 FT, IN LIEU OF PT (IAF), MAX 8000" - PER 8260.19J, PARA 8-6-7. B (2) AND FPT.
19. PROFILE LINE 3: UPDATED FAC FROM "193.18" TO "201.19" AND DIST FAF TO MAP AND DIST FAF TO THLD FROM "5.29" AND "5.53" TO "5.61" AND "5.61", RESPECTIVELY. FIX HOKRI RELOCATED FROM 621851.56N/1593641.54W TO 621840.82N/1593655.53W - DUE TO FPT AND FAF MOVE TO MAINTAIN 3.00 GPA.
20. PROFILE LINE 4: UPDATED MIN ALT FROM "NUANC 2700, HOKRI 2400, SUMJE 1900" TO "NUANC 2700, HOKRI 2400, SUMJE 1900, UHIGO/2.66 NM TO RW20 960". FIX UHIGO/2.66 NM TO RW20 ADDED AS FINAL STEPDOWN FIX AND FIX HOKRI RELOCATED - PER FPT AND FAF MOVED TO MAINTAIN 3.00 GPA.
21. PROFILE LINE 7: ADDED "IS NOT CLEAR" TO 20:1. BOTH 20:1 AND 34:1 PENETRATIONS PRESENT - PER 8260.19J, PARA 8-6-7. G. (3).
22. PBN REQUIREMENTS NOTE: REPLACED "DME/DME RNP-0.3 NA" WITH "RNP APCH-GPS" - PER 8260.19J, PARA 8-6-8 D.
23. UPDATED CHART NOTE FROM: PROCEDURE NA AT NIGHT TO: STRAIGHT-IN AND CIRCLING RWY 20 NA AT NIGHT. - 8260.19J 8-6-12 O(2)(G); 20:1 PENETRATIONS.
24. NOTES: UPDATED CHART NOTE: "RWY 1, 19 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" DUE TO MAGVAR CHANGE.
25. NOTES: REPLACED "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ANVIK ALTIMETER SETTING AND INCREASE ALL MDAS 120 FEET, AND INCREASE VISIBILITY CAT B/C ¼ SM AND LNAV CAT D ½ SM" WITH "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ANVIK ALTIMETER SETTING AND INCREASE ALL MDAS 120 FEET, LNAV ALL VISIBILITIES 1/2 SM, LP VISIBILITIES CATS C AND D 3/8 SM AND CIRCLING VISIBILITIES CATS B, C, AND D 1/2 SM" – DUE TO NEW CALCULATION.
26. NOTES: UPDATED "CHART NOTE: CIRCLING NA WEST OF RWY 1-19" TO "CHART NOTE: CIRCLING NA W OF RWY 2-20" - DUE TO MAGVAR CHANGE.
- 27.
28. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST FROM "706 TOWER 621205N/1594654W" TO "689 TOWER (02-020032) 621204N/1594654W, 160 TREE (02-131215) 621204N/1594401W"- NEW CONTROLLING OBSTACLES.
29. ADDITIONAL FLIGHT DATA: REMOVED "CHART PROFILE NOTE: VISUAL SEGMENTS – OBSTACLES" – PER 8260.19J, PARA 8-6-11. O. (2).
30. ADDITIONAL FLIGHT DATA: ADDED (VDA)/TCH "SUMJE TO RW20 3.00/40" – PER 8260.19J, PARA 8-6-11. O. (1).
31. ADDITIONAL FLIGHT DATA: ADDED "WAAS CHANNEL # 56248" - PER 8260.19J, PARA 8-6-11. J. (1).
32. ADDITIONAL FLIGHT DATA: ADDED "LTP HAE: 32.4 M" - PER 8260.19J, PARA 8-6-11. J. (3).
33. MINIMUMS: CHANGED ALTERNATE MINIMUMS FROM "CAT A, B 1000-2, CAT C 1000-2 ¾ , CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE" TO "CAT A, B 900-2, CAT C 900-2 ½, CAT D 900-2 ¾, NA WHEN LOCAL WEATHER NOT AVAILABLE" - LOWERING OF CIRCLING MINIMUMS.
34. MINIMUMS: ADDED LP MINIMUMS PER FPT AND 8260.19J, PARA 8-6-12. I. (3).
35. MINIMUMS: REDUCED LNAV MINIMUMS MDA/VIS/HAT CATS A FROM "1020/1 1/4/945" TO "940/1 1/4/865", CAT B FROM 1020/1 1/4/945 TO "940/1 1/4/865", CAT C 1020/2 3/4/945" TO "940/2 1/2/865" AND CAT D FROM "1020/3/945" TO "940/2 1/2/865" - REDESIGN AND NEW OBSTACLES.
36. MINIMUMS: REDUCED CIRCLING MINIMUMS MDA/VIS/HAT CATS A AND B FROM "1020/1 1/4/945" TO "940/1 1/4/865", CAT C FROM "1020/2 3/4/945" TO "940/2 1/2/865" AND CAT D FROM "1020/3/945" TO "940/2 3/4/865" - REDESIGN AND NEW OBSTACLES.
37. FAS DATA ADDED - LP MINIMUMS ADDED.
38. ADDITIONAL FLIGHT DATA: ADDED: REFERENCE PATH IDENTIFIER W20A - 8260.19J APPENDIX K 4(I).

5/14/2024: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 3/15/2024.

1. WAAS CHANNEL # CHANGED FROM: 56248 TO: 60948.
2. CA ALTITUDE CHANGED FROM: 475 MSL TO: 420 MSL.



COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZAN, AMGR, ENA FSS, ATA

FLIGHT CHECKED BY
JAMES DAVID ARNOLD

Digitally signed by
CASIMIR L TABAKA
May 28, 2024

OFFICE
FIOG

DATE
05/13/2024

DEVELOPED BY
ROBERT G HAMILTON (STEVEN W. WASHKO)

Digitally signed by
CASIMIR L TABAKA
May 28, 2024

OFFICE
AJV-A433

DATE
03/15/2024

APPROVED BY
ROBERT G HAMILTON

Digitally signed by
CASIMIR L TABAKA
May 28, 2024

OFFICE
AJV-A433

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD
OPERATION TYPE
SBAS SERVICE PROVIDER IDENTIFIER
AIRPORT IDENTIFIER
RUNWAY
APPROACH PERFORMANCE DESIGNATOR
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR
REFERENCE PATH IDENTIFIER (APPROACH ID)
LTP/FTP LATITUDE
LTP/FTP LONGITUDE
LTP/FTP ELLIPSOIDAL HEIGHT
FPAP LATITUDE
FPAP LONGITUDE
THRESHOLD CROSSING HEIGHT (TCH)
TCH UNITS SELECTOR (METERS OR FEET USED)
GLIDEPATH ANGLE (GPA)
COURSE WIDTH AT THRESHOLD
LENGTH OFFSET
HORIZONTAL ALERT LIMIT (HAL)
VERTICAL ALERT LIMIT (VAL)

DATA
0
0
PAHC
RW20
0
0
W20A
621134.7260N
1594608.0620W
+00324
621018.6425N
1594746.1970W
00040.0
F
03.00
106.75
1528
40.0
00.0

CRC REMAINDER 545AC7F6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE PA
LTP ORTHOMETRIC HEIGHT +00227
FPAP ORTHOMETRIC HEIGHT +00227

