

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> PHF	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> NEWPORT NEWS	<u>STATE</u> VA
<u>AIRPORT ELEVATION</u> 42	<u>TDZE</u> 42	<u>SUPERSEDED</u> RNAV (GPS) RWY 20	<u>DATED</u> 05/21/2020	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 MARCH 2026	<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>
ORF VORTAC		PANLE		TF	FO	1.00	344.74	28.29	2000
HCM VORTAC	IAF	PANLE	NOPT	TF	FB	1.00	129.53	14.90	2000
OUTLA	IAF	PANLE	NOPT	TF	FB	1.00	275.28	21.33	2000
PANLE	IF/IAF	RACOT	PFAF	TF	FB	1.00	201.84	6.00	1700
RACOT	FAF	ROBOY/1.56 NM TO RW20		TF	FB	0.30	201.82	3.51	
ROBOY/1.56 NM TO RW20		RW20	MAP	TF	FO	0.30	201.82	1.56	
RW20	MAP	379 MSL		CA			201.82		
379 MSL		NUTIY		DF	FO	1.00			2300

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW20

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2300 DIRECT NUTIY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | |
|--|----------------------------|----------------|-----------------------|------------------------|---------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. HOLD N PANLE, RT, 201.84 INBOUND, 2000 IN LIEU OF PT (IAF), MAX 6000. | | | | | |
| 3. FAC: 201.82 | FAC: RACOT | | DIST FAF TO MAP: 5.07 | DIST FAF TO THLD: 5.07 | |
| 4. MIN ALT: PANLE 2000, RACOT 1700, ROBOY/1.56 NM TO RW20 580 | | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 337 HAT: 0.92 | GS ANT: |
| 6. MIN GP INCPT: 1700 | GP ALT AT PFAF: RACOT 1700 | | | OM: | MM: |
| 7. GP ANGLE: 3.00 | 34:1: IS NOT CLEAR | 20:1: IS CLEAR | TCH: 42.9 | | IM: |
| 8. MSA FROM: RW20 2300 | | | | | |

QUALITY
39
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -7°C OR ABOVE 54°C.
CHART NOTE: RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: BARO-VNAV NA WHEN USING ORF ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ORF ALTIMETER SETTING AND INCREASE LPV DA TO 427 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 522 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 021.77 INBOUND.
CHART FAS OBST: 183 TOWER (51-022564) 370927N/0763003W.
CHART 503 STACK (51-000070) 371255N/0762740W.
WAAS CHANNEL # 97420
REFERENCE PATH ID: W20A
LTP HAE: -23.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, 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
LPV DA	379	1	337	379	1	337	379	1	337	379	1	337			
LNAV/VNAV DA	440	1 1/8	398	440	1 1/8	398	440	1 1/8	398	440	1 1/8	398			
LNAV MDA	440	1	398	440	1	398	440	1 1/8	398	440	1 1/8	398			
CIRCLING	520	1	478	540	1	498	760	2	718	780	2 1/4	738			



CHANGES - REASONS

1. TERMINAL ROUTES: UPDATED INFORMATION FOR ORF VORTAC TO PANLE, RNP FROM 2.00 TO 1.00, COURSE FROM 344.71 TO 344.74, DISTANCE FROM 28.26 TO 28.29 – FIX PANLE MOVED TO ALLEVIATE LEG LENGTH ISSUES
2. TERMINAL ROUTES: REPLACED CCV VORTAC TO PANLE WITH OUTLA TO PANLE, COURSE 275.28, DISTANCE 21.33 – ATC REQUEST
3. TERMINAL ROUTES: UPDATED INFORMATION FOR HCM VORTAC TO PANLE, COURSE FROM 129.64 TO 129.53, DISTANCE FROM 14.91 TO 14.90 – FIX PANLE MOVED TO ALLEVIATE LEG LENGTH ISSUES
4. TERMINAL ROUTES: UPDATED DISTANCE FOR PANLE TO RACOT FROM “6.03” TO “6.00” – FIX PANLE MOVED TO ALLEVIATE LEG LENGTH ISSUES, FIX RACOT MOVED WITH NEW TARGETS CALCULATIONS
5. TERMINAL ROUTES: UPDATED DISTANCE FOR ROBOY FROM “2.20 NM TO RW20” TO “1.55 NM TO RW20” – FIX ROBOY MOVED WITH NEW TARGETS CALCULATIONS
6. TERMINAL ROUTES: UPDATED DISTANCE FOR RACOT TO ROBOY FROM “2.81” TO “3.51” – RACOT AND ROBOY MOVED WITH NEW TARGETS EVALUATIONS
7. PROFILE LINE 2: ADDED “MAX 6000” – IAW 8260.19K 8-6-7
8. PROFILE LINE 4: UPDATED INFORMATION FOR ROBOY FROM “ROBOY/2.20 NM TO RW20 780*” TO “ROBOY/1.56 NM TO RW20 580” -ROBOY MOVED WITH NEW TARGETS EVALUATION
9. PROFILE LINE 5: ADDED “337 HAT: 0.92” – IAW 8260.19K 8-6-7
10. PROFILE LINE 7: UPDATED TCH FROM “42.0” TO “42.9” – MATCHES LOC RWY 20 TCH.
11. PBN REQUIREMENTS NOTE: ADDED “RNP APCH - GPS.” – IAW 8260.19K 8-6-8
12. NOTES: UPDATED NOTE FROM “CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 48C (118F).” TO “CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -7°C OR ABOVE 54°C.” – NEW TEMPERATURE/WEATHER DATA
13. NOTES: REMOVED NOTE “CHART NOTE: DME/DME RNP-0.3 NA.” – NO LONGER REQUIRED.
14. NOTES: REMOVED “CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CCV VORTAC ON V286 SOUTHEAST BOUND.” REMOVED CCV VORTAC FROM PROCEDURE DUE TO COMMISSIONING/ATC REQUEST
15. NOTES: ADDED “CHART NOTE: BARO-VNAV NA WHEN USING ORF ALTIMETER SETTING.” – IAW 8260.19K 8-6-10
16. NOTES: ADDED BACKUP ALTIMETER NOTE “CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ORF ALTIMETER SETTING AND INCREASE LPV DA TO 427 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 522 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM. – SHOULD NOT HAVE BEEN REMOVED, ADDED IT BACK..
17. ADDITIONAL FLIGHT DATA: UPDATED FAS OBST NOTE FROM “CHART FAS OBST: 161 T-L TWR 370906N/0762943W / CHART FAS OBST: 159 TREE 370917N/0762937W” TO “CHART FAS OBST: 183 TOWER (51-022564) 370927N/0763003W.” – NEW TARGETS EVALUATION
18. ADDITIONAL FLIGHT DATA: REMOVED “CHART 236 TOWER 371054N/0762910W, CHART 504 STACK 371255N/0762740W” – NO LONGER RELEVANT OBSTACLES, NEW TARGETS EVALUATION
19. ADDITIONAL FLIGHT DATA: ADDED NOTE “CHART 503 STACK (51-000070) 371255N/0762740W.” - IAW 8260.19K 8-6-11
19. ADDITIONAL FLIGHT DATA: REMOVED “DISTANCE TO THLD FROM 337 HAT: 0.93 NM.” – UPDATED AND DOCUMENTED IN PROFILE LINE 5
20. ADDITIONAL FLIGHT DATA: REMOVED “CHART VDP AT 1.11 NM TO RW20*” – VDP NOT ESTABLISHED DUE TO VDP LOCATED WITHIN 0.5 NM FROM FINAL FIX
21. ADDITIONAL FLIGHT DATA: REMOVED “*LNAV ONLY.” – NO LONGER REQUIRED
22. ADDITIONAL FLIGHT DATA: REMOVED “CHART CIRCLING ICON.” – NO LONGER REQUIRED
23. MINIMUMS: LPV VISIBILITY CHANGED FROM “1 1/8” TO “1” – NEW TARGETS EVALUATION
24. MINIMUMS: LNAV/VNAV MINIMUMS CHANGED FROM “474 1 1/2 432” TO “440 1 1/8 398” – LOWERED TO MATCH LNAV MINIMUMS IAW “LOWERING LPV AND LNAV VNAV MINIMUMS MEMO” DATED 05/20/2025
25. FAS DATA BLOCK INFORMATION: CRC REMAINDER CHANGED FROM “7DF59FC2” TO “ABF843F0” – FPAP COORDINATES CHANGED FROM 370703.8575N/0763004.6745W TO 370703.8615N/0763004.6555W

COORDINATED WITH:

A4A

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ALPA

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AOPA

☒

APA

☐

HAI

☐

NBAA

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OTHER:

ZDC, ORD APP CON, PHF ATCT, AMGR, VA DOT

FLIGHT CHECKED BY
MICHAEL G CAMPBELL

Digitally signed by
ROBERT G HAMILTON
Dec 22, 2025

OFFICE
AJF
DATE
12/19/2025

DEVELOPED BY
DEVON KERCHER

Digitally signed by
ROBERT G HAMILTON
Dec 22, 2025

OFFICE
AJV-A431
DATE
09/08/2025

APPROVED BY
ROBERT G HAMILTON

Digitally signed by
ROBERT G HAMILTON
Dec 22, 2025

OFFICE
AJV-A431

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPHF
RUNWAY	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	370830.8570N
LTP/FTP LONGITUDE	0762939.9740W
LTP/FTP ELLIPSOIDAL HEIGHT	-00232
FPAP LATITUDE	370703.8615N
FPAP LONGITUDE	0763004.6555W
THRESHOLD CROSSING HEIGHT (TCH)	00042.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0760
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	61DD3028

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00128
FPAP ORTHOMETRIC HEIGHT	+00128

