

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> W96	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> QUINTON	<u>STATE</u> VA		
<u>AIRPORT ELEVATION</u> 121	<u>TDZE</u> 120	<u>SUPERSEDED</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 2B	<u>DATED</u> 10/12/2017	<u>MAG VAR</u> 10W	<u>EPOCH YEAR</u> 2005
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 DECEMBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HPW VORTAC		WINVO		TF	FO	1.00	053.93	13.11	2000
KINKE		WINVO		TF	FO	1.00	168.98	8.82	2000
HCM VORTAC	IAF	WINVO	NOPT	TF	FB	1.00	292.48	10.48	2000
WINVO	IF/IAF	WARAT		TF	FB	1.00	286.19	6.78	1200
WARAT	FAF	COVAP/1.18 NM TO RW29		TF	FB	0.30	286.10	1.40	
COVAP/1.18 NM TO RW29		RW29	MAP	TF	FO	0.30	286.10	1.18	
RW29	MAP	900 MSL		CA			286.10		900
900 MSL		WINVO		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LP: RW29
LNAV: RW29

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 900 THEN CLIMBING LEFT TURN TO 2000 DIRECT WINVO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. HOLD E WINVO, LT, 286.19 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 286.10

FAF: WARAT

DIST FAF TO MAP: 2.58

DIST FAF TO THLD: 2.58
4. MIN ALT: WINVO 2000, WARAT 1200, COVAP/1.18 NM TO RW29 640
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

OM:

MM:

IM:
6. MIN GP INCPT:

GP ALT AT FAF:
7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS NOT CLEAR

TCH:
8. MSA FROM: RW29 2600



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSi AND DESCENT ANGLES NOT COINCIDENT (VGSi ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HCM VORTAC AIRWAY RADIALS 284 CW 014.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RIC ALTIMETER SETTING: INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C 1/8 SM; INCREASE LP AND CIRCLING VISIBILITY CAT C 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 273 TOWER (51-001901) 373034N/0770636W, 252 TREE (51-053002) 373000N/0770653W.
CHART 331 TOWER (51-001452) 373021N/0770340W.
WAAS CHANNEL # 90532
REFERENCE PATH ID: W29A
CHART CIRCLING ICON.
WARAT TO RW29: 3.77/60.
LTP HAE: -0.9 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
LP MDA	540	1	420	540	1	420	540	1 1/8	420		NA				
LNAV MDA	560	1	440	560	1	440	560	1 1/4	440		NA				
CIRCLING	620	1	499	620	1	499	760	1 3/4	639		NA				



CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED WINVO TO WARAT SEGMENT DISTANCE FROM 6.07 TO 6.78 - FAF RELOCATED BASED ON VDA/TCH.
2. TERMINAL ROUTES: CHANGED FROM "COVAP/1.70 NM TO RW29" TO "COVAP/1.18 NM TO RW29" - SDF RELOCATED BASED ON VDA/TCH.
3. TERMINAL ROUTES: CHANGED FAF TO SDF SEGMENT COURSE FROM 286.11 TO 286.10 AND DISTANCE FROM 1.59 TO 1.40 - SDF RELOCATED BASED ON VDA/TCH.
4. TERMINAL ROUTES: CHANGED SDF TO MAP SEGMENT COURSE FROM 286.11 TO 286.10 AND DISTANCE FROM 1.70 TO 1.18 - SDF RELOCATED BASED ON VDA/TCH.
5. TERMINAL ROUTES: CHANGED CA LEG COURSE FROM 286.11 TO 286.10 - ALIGNED TO FAC.
6. PROFILE LINE 2: ADDED "MAX 6000" - PER 8260.19J, PARA 8-6-7B(2).
7. PROFILE LINE 3: FAC FROM 286.11 TO 286.10, CHANGED DIST FAF TO MAP AND DIST FAF TO THLD FROM 3.29 TO 2.58 - FAF RELOCATED BASED ON VDA/TCH.
8. PROFILE LINE 4: CHANGED FROM "WINVO 2000, WARAT 1200, COVAP/1.70 NM TO RW29 640" TO "WINVO 2000, WARAT 1200, COVAP/1.18 NM TO RW29 640" - SDF RELOCATED BASED ON VDA/TCH.
9. PROFILE LINE 7: ADDED 20:1 IS NOT CLEAR - PENETRATIONS EXIST.
10. REMOVED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE "RNP APCH - GPS" - PER 8260.19J, PER 8-6-8D(2).
11. CHANGED CHART NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED" TO "RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - PER 8260.19J, PARA 8-6-12K(2).
12. CHANGED CHART PROFILE NOTE FROM "VGSI AND DESCENT ANGLES NOT COINCIDENT" TO "VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - PER 8260.19J, 8-6-10M(2).
13. REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HPW VORTAC ON V260 SOUTHWEST BOUND" - V260 DOESN'T EXIST.
14. CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT HCM VORTAC ON V33" TO "PROCEDURE NA FOR ARRIVAL ON HCM VORTAC AIRWAY RADIALS 284 CW 014" - PER 8260.19J, PARA 8-2-5E(2).
15. CHANGED CHART NOTE FROM "USE RICHMOND INTL ALTIMETER SETTING" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RIC ALTIMETER SETTING: INCREASE ALL MDAS 40 FEET AND LNAV VISIBILITY CAT C 1/8 SM; INCREASE LP AND CIRCLING VISIBILITY CAT C 1/4 SM" - PER 860.19J, PARA 8-6-10F(4).
16. ADDITIONAL FLIGHT DATA: REMOVED "VISUAL SEGMENT - OBSTACLES" NOTE - PROCEDURE USING THE HIGHEST ALLOWABLE VDA FROM TABLE 2-6-1 (8260.3E) AND MAX TCH.
17. ADDITIONAL FLIGHT DATA: REMOVED "CHART RICHMOND INTL ASOS" - AIRPORT HAS ITS OWN SOURCE.
18. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM "273 TOWER 373034N/0770636W" AND "249 TREE 372952N/0770542W" TO "273 TOWER (51-001901) 373034N/0770636W, 252 TREE (51-053002) 373000N/0770653W" - NEW CONTROLLING OBSTACLES.
19. ADDITIONAL FLIGHT DATA: ADDED 7:1 OBSTACLE "CHART 331 TOWER (51-001452) 373021N/0770340W" - NEW OBSTACLE EVALUATION.
20. ADDITIONAL FLIGHT DATA: ADDED "WARAT TO RW29:3.77/60" - PER 860.19J, PARA 8-6-11O(1).
21. ADDED ALTERNATE MINIMUMS "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" - AIRPORT HAS LOCAL ALTIMETER.
22. FAS DATA BLOCK INFORMATION: ADDED TCH 60.0 AND GPA 3.77 - USING THE HIGHEST ALLOWABLE VDA FROM TABLE 2-6-1 (8260.3E) AND MAX TCH TO REMOVE "VISUAL SEGMENT - OBSTACLES" NOTE.
23. CHANGED CRC REMAINDER FROM "E94DC4B7" TO "735D7188" - LTP/FTP COORDINATES CHANGED FROM "373010.4640N/0770713.3860W" TO "373010.4645N/0770713.3870W", FPAP COORDINATES CHANGED FROM "373019.8900N/0770904.7500W" TO "373019.8785N/0770904.7350W".

COORDINATED WITH:

A4A

ALPA

AOPA

X

APA

HAI

NBAA

X

OTHER: ARPT MNGR, ZDC, POTOMAC APP CON

FLIGHT CHECKED BY

JEREMY C LEIGHTON

Digitally signed by

JOSEPH L ZEDER

Oct 04, 2024

OFFICE

FPO

DATE

10/02/2024

DEVELOPED BY

CASIMIR L. TABAKA (SILVIA YOUNG)

Digitally signed by

JOSEPH L ZEDER

Oct 04, 2024

OFFICE

AJV-A432

DATE

05/14/2024

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

JOSEPH L ZEDER

Oct 04, 2024

OFFICE

AJV-A432

DATE

TITLE

MANAGER



AIRPORT ID
W96

PROCEDURE NAME
RNAV (GPS) RWY 29

ORIGINAL/AMENDMENT
3

CITY
QUINTON

STATE
VA

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	W96
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	373010.4645N
LTP/FTP LONGITUDE	0770713.3870W
LTP/FTP ELLIPSOIDAL HEIGHT	-00009
FPAP LATITUDE	373019.8785N
FPAP LONGITUDE	0770904.7350W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.77
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1656
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	00.0

CRC REMAINDER	735D7188
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00328
FPAP ORTHOMETRIC HEIGHT	+00328

