

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

**RNAV (RNP) - STANDARD,
INSTRUMENT APPROACH PROCEDURE,
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
DEEER (IAF)	SOOBY (TF) (FB) (RNP 1.00)	103.46 / 6.44	4000
DUXCS (IAF)	TONEO (TF) (FB) (RNP 1.00)	066.85 / 9.43	3000
TONEO (IF)	SEZZZ (TF) (FB) (RNP 1.00)	067.37 / 3.11	2300
IFPIG (IF)	AAVVA (TF) (FB) (RNP 1.00)	157.35 / 6.71	2000
TIRTL (IF)	UDADE (TF) (FB) (RNP 1.00)	212.34 / 4.62	1900
(SEE FORM 8260-10)			

RNP: DA

CLIMB TO 2500 ON TRACK 157.45 TO HAGLI AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 337.54 INBOUND.
DISTANCE TO THLD FROM 339 HAT: 0.89 NM.
CHART MINIMUM 4000 AT AYDEE.
CHART MINIMUM 3000 AT TIRTL AND IFPIG.
ROUTE TYPE QUALIFIER 2: S
CHART MANDATORY 4000 AT DUCXS AND DEEER.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F

MAG VAR: 10W EPOCH YEAR: 2020

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
2. PROFILE STARTS AT OPUKE
3. FAC: 157.44 FAF: _____ DIST FAF TO MAP: _____ THLD: _____
4. MIN. ALT: **OPUKE 1300**
5. DIST TO THLD FROM OM: 3.39 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____
6. MIN GS INCPT: 1300 GS ALT AT: **OPUKE 1300** OM: _____ MM: _____ IM: _____
7. GS ANGLE: 3.00 TCH: 54.4 20:1 IS CLEAR 34:1 IS NOT CLEAR
8. MSA FROM: **RW16 2600**

MINIMUMS

TAKEOFF:	SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A			STANDARD					
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA

AUTHORIZATION REQUIRED

RNP 0.11 DA	506	4000	339	506	4000	339	506	4000	339	506	4000	339			
RNP 0.30 DA	606	5000	439	606	5000	439	606	5000	439	606	5000	439			

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -11C (13F) OR ABOVE 54C (130F).
 CHART SPEED ICON IN PLANVIEW AT TONEO : MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT SOOBY : MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT TIRTL : MAX 210 KIAS.
 (CONTINUED ON PAGE 2)



CITY AND STATE RICHMOND, VA	ELEVATION: 168 TDZE: 167 AIRPORT NAME: RICHMOND INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Y RWY 16, ORIG-C 19 JULY 2018	SUP: AMDT: ORIG-B DATED 05/28/2015
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TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
AYDEE (IF)	SKULK (TF) (FB) (RNP 1.00)	337.46 / 3.03	3200
SOOBY (IF)	ZAXET (TF) (FB) (RNP 1.00)	121.32 / 7.37	1700
SKULK	UDADE (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CCW (CFBNC))/5.46	1900
SEZZZ	ZAXET (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CW (CFBNB))/2.36	1700
ZAXET	OPUKE (RF) (FB) (RNP 0.75)	(2.50 NM RADIUS CW (CFBNB))/1.57	1300
UDADE	OPUKE (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CCW (CFBNC))/2.39	1300
AAVVA	OPUKE (TF) (FB) (RNP 1.00)	157.45 / 3.07	1300
OPUKE (FAF)	RW16 (MAP) (TF) (FO) (RNP 0.30)	157.44 / 3.39	
RW16 (MAP)	HAGLI (TF) (FO) (RNP 1.00)	157.45 / 12.15	2500

NOTES, (CONT.):

CHART SPEED ICON IN PLANVIEW AT AYDEE : MAX 210 KIAS.
 CHART SPEED ICON IN PLANVIEW AT AAVVA : MAX 210 KIAS.
 CHART PLANVIEW NOTE ADJACENT TO DUCXS AND DEEER IAF: RF REQUIRED.
 CHART PLANVIEW NOTE ADJACENT TO AYDEE AND TIRTL: RF REQUIRED.
 CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT (VGS1 ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.11 ALL CATS VISIBILITY TO RVR 5500 AND RNP 0.30 ALL CATS VISIBILITY TO 1 1/2 SM.
 CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
 CHART PLANVIEW NOTE AT DUCXS: (RNP 0.75)
 CHART PLANVIEW NOTE AT DEEER: (RNP 0.75)
 PBN REQUIREMENTS NOTE: RNP AR APCH.



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