

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		RNP: DA												
IMASE (IF)				TYROX (TF) (FB) (RNP 1.00)				203.47 / 4.04				2000		CLIMB TO 2000 ON TRACK 203.46 TO CASEE AND HOLD.												
TYROX				MUGAW (TF) (FB) (RNP 1.00)				203.53 / 3.05				1300														
DUCXS (IAF)				TTIMM (TF) (FB) (RNP 1.00)				062.61 / 12.38				4000														
TTIMM (IF)				HORNRR (TF) (FB) (RNP 1.00)				062.68 / 3.00				3200														
HORNRR				ESORE (RF) (FB) (RNP 0.85)				(2.73 NM RADIUS CW (CFBMX))/1.73				2600		ADDITIONAL FLIGHT DATA: HOLD SW, RT, 023.42 INBOUND. DISTANCE TO THLD FROM 336 HAT: 0.90 NM. CHART MANDATORY 4000 AT BECAB. CHART MANDATORY 3000 AT JADNN. CHART MANDATORY 4000 AT DUCXS. CHART MANDATORY 4000 AT DEEER. ROUTE TYPE QUALIFIER 1:F ROUTE TYPE: A,H ROUTE TYPE QUALIFIER 2:S CHART MINIMUM 2000 AT IMASE.												
(SEE FORM 8260-10)																										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																										
2. PROFILE STARTS AT MUGAW																										
3. FAC: 203.48 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																										
4. MIN. ALT: MUGAW 1300																										
5. DIST TO THLD FROM OM: 3.41 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																										
6. MIN GS INCPT: 1300 GS ALT AT: MUGAW 1300 OM: _____ MM: _____ IM: _____																										
7. GS ANGLE: 3.00 TCH: 49.0 20:1 IS CLEAR 34:1 IS NOT CLEAR																										
8. MSA FROM: RW20 2600																										
MAG VAR: 10W EPOCH YEAR: 2020																										
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	504	1	336	504	1	336	504	1	336	504	1	336														
RNP 0.30 DA	613	1 1/2	445	613	1 1/2	445	613	1 1/2	445	613	1 1/2	445														
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -11C (13F) OR ABOVE 54C (130F). CHART PLANVIEW NOTE ADJACENT TO DUCXS: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO DEEER: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO BECAB: RF REQUIRED. (CONTINUED ON PAGE 2)																										
CITY AND STATE RICHMOND, VA				ELEVATION: 168 TDZE: 168 AIRPORT NAME: RICHMOND INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Y RWY 20, ORIG-B 19 JULY 2018						SUP: AMDT: ORIG-A DATED 05/28/2015										



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RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33				
TERMINAL ROUTES, (CONT.):				
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
DEEER (IAF)	SOOBY (TF) (FB) (RNP 1.00)	103.46 / 6.44	4000	
SOOBY (IF)	ESORE (TF) (FB) (RNP 1.00)	098.83 / 7.93	2600	
ESORE	MUGAW (RF) (FB) (RNP 0.85)	(2.73 NM RADIUS CW (CFBMX))/4.98	1300	
BECAB (IF)	HUGHS (TF) (FB) (RNP 1.00)	023.62 / 3.03	3200	
HUGHS	AANNN (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CCW (CFBMZ))/3.01	2500	
JADNN (IF)	AANNN (TF) (FB) (RNP 1.00)	314.78 / 2.96	2500	
AANNN	MUGAW (RF) (FB) (RNP 1.00)	(2.50 NM RADIUS CCW (CFBMZ))/4.85	1300	
MUGAW (FAF)	RW20 (MAP) (TF) (FO) (RNP 0.30)	203.48 / 3.41		
RW20 (MAP)	CASEE (TF) (FO) (RNP 1.00)	203.46 / 13.28	2000	
NOTES, (CONT.): CHART PLANVIEW NOTE ADJACENT TO JADNN: RF REQUIRED. CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS. PBN REQUIREMENTS NOTE: RNP AR APCH. CHART SPEED ICON IN PLANVIEW AT ESORE: MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT AANNN: MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT IMASE: MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT HUGHS: MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT HORNR: MAX 210 KIAS. CHART PLANVIEW NOTE AT DUCXS IAF: RNP 0.85. CHART PLANVIEW NOTE AT DEEER IAF: RNP 0.85.				
QUALITY 9 CHECKED				
CITY AND STATE	ELEVATION: 168	TDZE: 168	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RICHMOND, VA	AIRPORT NAME:		RNAV	RNAV (RNP) Y RWY 20, ORIG-B
	RICHMOND INTL			19 JULY 2018
			SUP:	
			AMDT:	ORIG-A
			DATED:	05/28/2015