

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23							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		MAP: MIVNE/0.67 DME						
BNTON		COU VOR/DME			348.59 / 13.18			2700		CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 2600 ON COU VOR/DME R-016 TO GRMPY/COU 5.70 DME AND HOLD.						
MIZZU INT		COU VOR/DME			044.29 / 18.80			3100								
COU VOR/DME		GRMPY/COU 5.70 DME			015.75 / 5.70			2700								
HLV VORTAC (IAF)		EMUBE/COU 12.00 DME (NOPT)			181.99 / 6.67			2600								
EMUBE/COU 12.00 DME (IF)		GRMPY/COU 5.70 DME			195.75 / 6.30 (COU R-016)			2600								
										ADDITIONAL FLIGHT DATA: FAS OBST: 1100 AAO 385332N/0921149W CHART VDP AT 2.03 DME DISTANCE VDP TO THLD 1.36 NM. CHART CIRCLING ICON. GRUMPY TO RW20: 3.14/40 FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.						
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																
2. HOLD N GRMPY, LT, 195.75 INBOUND, 2600 FT. IN LIEU OF PT (IAF)																
3. FAC 195.75 FAF GRMPY/COU 5.70 DME DIST FAF TO MAP _____ THLD 5.03																
4. MIN. ALT GRMPY 2600																
8. MSA FROM: COU VOR/DME 3100										MAG VAR: 0E					EPOCH YEAR: 2020	
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD							
CATEGORY =====>		A			B			C			D			E		
		MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-20		1360	3/4	471	1360	3/4	471	1360	1 1/4	471	1360	1 1/4	471			
CIRCLING		1360	1	471	1360	1	471	1360	1 1/2	471	1440	2	551			
NOTES:																
CHART NOTE: CIRCLING NA FOR CAT D W OF RWYS 2 AND 13.																
CHART NOTE: DME REQUIRED.																
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HLV VORTAC ON V175 NORTHBOUND.																
CITY AND STATE		ELEVATION: 889			TDZE: 889			FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP VOR/DME RWY 20		
COLUMBIA, MO								COU		VOR Y RWY 20, AMDT 4, 10/12/2017				AMDT 3		
		COLUMBIA RGNL												DATE 07/12/2001		

