INSTRUMENT TAKEOFF OR APPROACH PROCEDURE CHARTS
RATE OF CLIMB/DESCENT TABLE
(ft. per min)

A rate of climb/descent table is provided for use in planning and executing climbs or descents under known or approximate ground speed conditions. NOTE: The relationship between climb/descent angle (degrees) and climb/descent gradient (FT/NM) is based on the assumption that 1 degree equals 100 FT/NM.

CLIMB/ DESCENT ANGLE	CLIMB/ DESCENT GRADIENT FT/NM	GROUND SPEED (knots)										
		60	90	120	150	180	210	240	270	300	330	360
2.0	200	200	300	400	500	600	700	800	900	1000	1100	1200
2.5	250	250	375	500	625	750	875	1000	1125	1250	1375	1500
3.0	300	300	450	600	750	900	1050	1200	1350	1500	1650	1800
3.5	350	350	525	700	875	1050	1225	1400	1575	1750	1925	2100
4.0	400	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400
4.5	450	450	675	900	1125	1350	1575	1800	2025	2250	2475	2700
5.0	500	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000
5.5	550	550	825	1100	1375	1650	1925	2200	2475	2750	3025	3300
6.0	600	600	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
6.5	650	650	975	1300	1625	1950	2275	2600	2925	3250	3575	3900
7.0	700	700	1050	1400	1750	2100	2450	2800	3150	3500	3850	4200
7.5	750	750	1125	1500	1875	2250	2625	3000	3375	3750	4125	4500
8.0	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
8.5	850	850	1275	1700	2125	2550	2975	3400	3825	4250	4675	5100
9.0	900	900	1350	1800	2250	2700	3150	3600	4050	4500	4950	5400
9.5	950	950	1425	1900	2375	2850	3325	3800	4275	4750	5225	5700
10.0	1000	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000

NAVAL AIR TRAINING COMMAND

TRAINING AIR WING FIVE

TRAWING FIVE-460 (Rev. 01-07)

STUDENT RADIO INSTRUMENT APPROACH & DEPARTURE PLATES

FLIGHT SUPPORT ADVANCED HELICOPTER

2007

DEPARTMENT OF THE NAVY
TRAINING AIR WING FIVE
7480 USS ENTERPRISE ST SUITE 205
MILTON, FL 32570-6017

1542
70000

1. TRAWING FIVE-460, "Student Radio Instrument Approach and Departure Plates, Flight Support, Advanced Helicopter, (Rev 01-07)," is issued is issued for information, standardization of instruction and guidance of all flight instructors and student naval aviators in the Naval Air Training Command.

2. This publication will be made to implement the flight support portion of the Advanced Helicopter curriculum.

3. Recommendations for changes shall be submitted to the Commander, Training Air Wing FIVE.

4. TRAWING FIVE-460 (Rev 12-00) is hereby canceled and superseded.

Distribution:
CNATRA
HT PUBS ROOM

MONTE-ONE DEPARTURE

SOUTH WHITING NAS (NDZ)
MILTON, FLORIDA

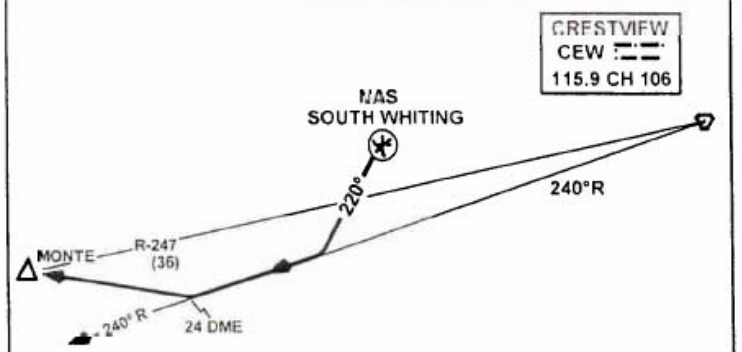
FREQUENCIES:

SO GROUND	346.8
SO TOWER	349.8
PENSACOLA DEP	124.85

DEPARTURE ROUTE DESCRIPTION

AFTER TAKEOFF, HEADING 220°, INTERCEPT AND TRACK OUTBOUND ON THE CEW 240° RADIAL. CLIMB AND MAINTAIN 1700. AT 24 DME, PROCEED DIRECT MONTE.

NOTE: EXPECT CLIMB TO 2200' AFTER HAND-OFF. REMAIN CLEAR OF THE MAINTENANCE PATTERN.



LOCAL USE ONLY

HUEEY-ONE DEPARTURE

SOUTH WHITING NAS (NDZ)
MILTON, FLORIDA

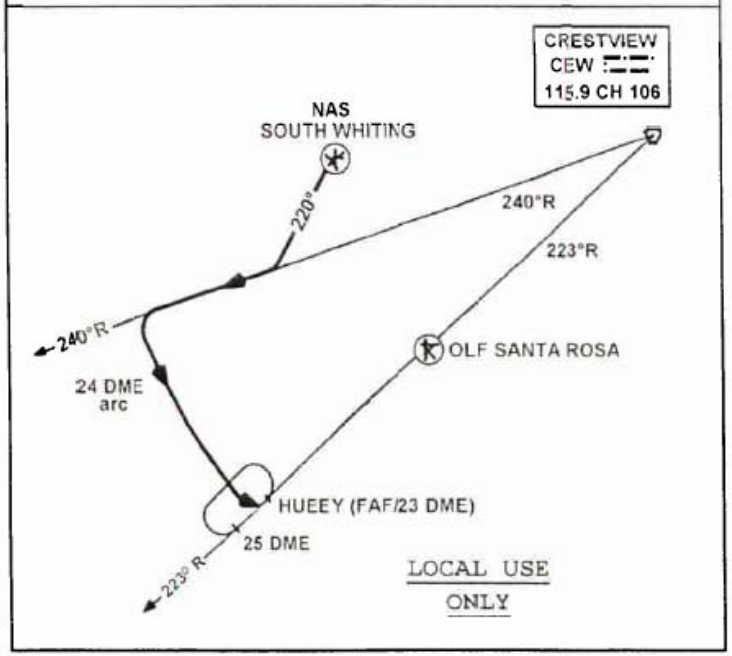
FREQUENCIES:

SO GROUND	346.8
SO TOWER	349.8
DEP CONTROL	124.85

DEPARTURE ROUTE DESCRIPTION

AFTER TAKEOFF, HEADING 220°, INTERCEPT AND TRACK OUTBOUND ON THE CEW 240° RADIAL. CLIMB AND MAINTAIN 1700. DO NOT EXCEED 24 DME.

NOTE: REMAIN CLEAR OF THE MAINTENANCE PATTERN.



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MONTE OLF
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COPTER VOR 043 16
COPTER VOR/DME or
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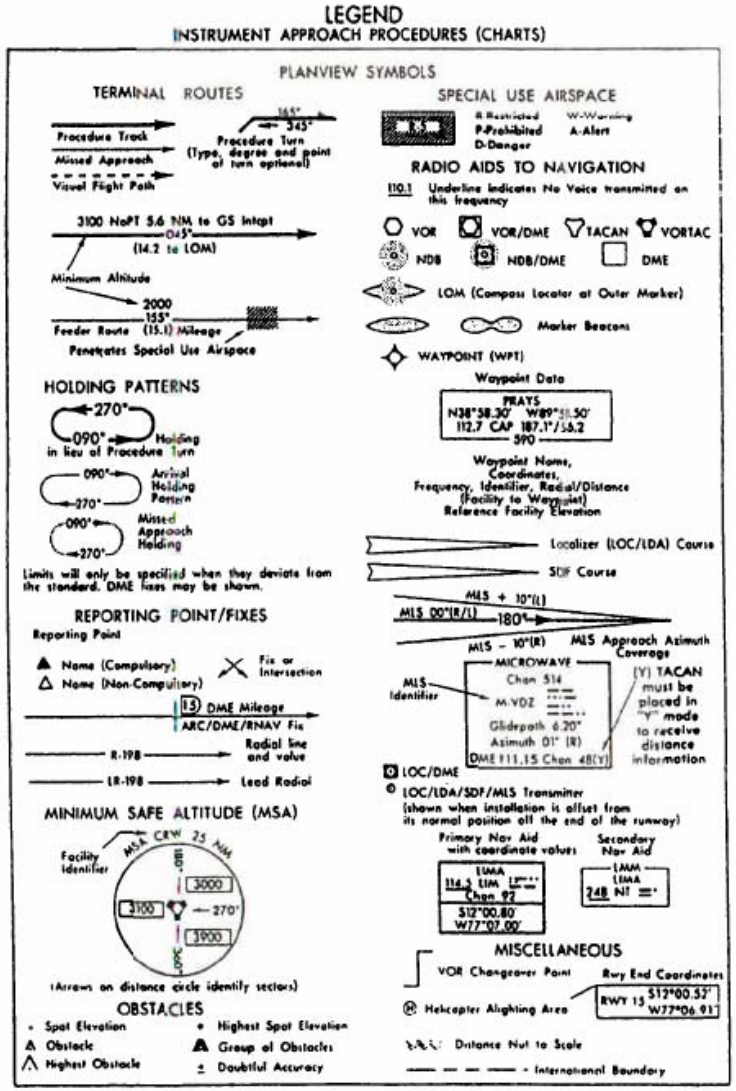
TACAN-A 19

WELCOME OLF
TACAN-A 20

SOUTH WHITING FIELD
BALDY-ONE DEP 21
HUEEY-ONE DEP 22
MONTE-ONE DEP 23



BALDY-ONE DEPARTURE

SOUTH WHITING NAS
MILTON, FLORIDA

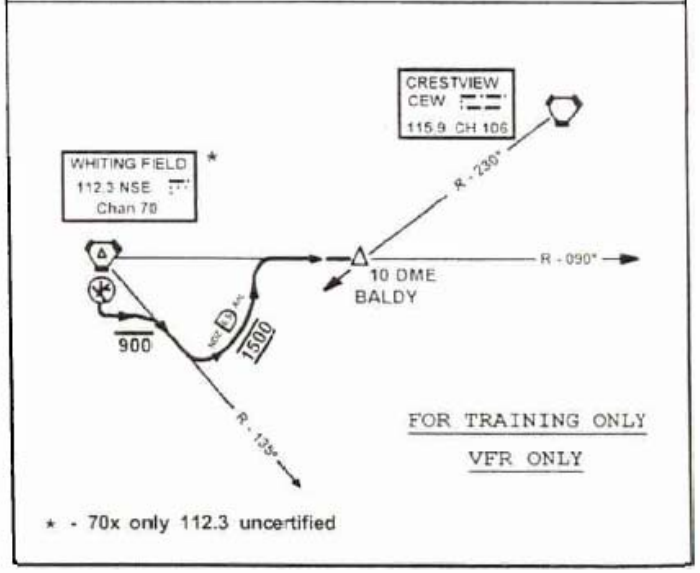
FREQUENCIES:

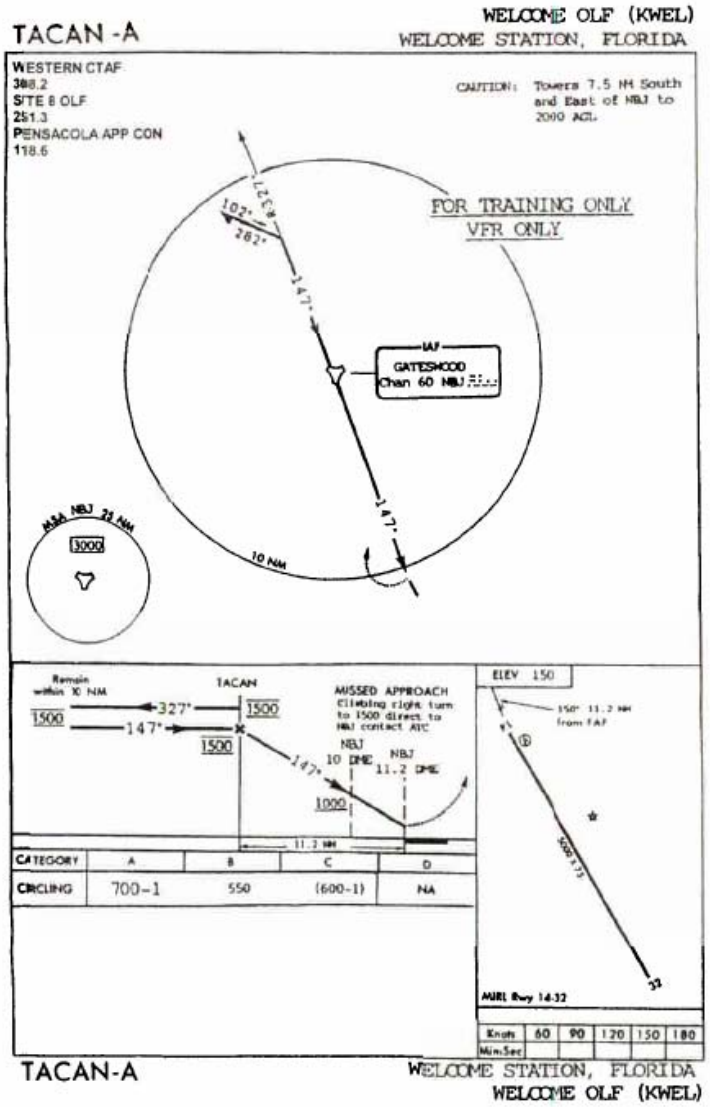
SO GROUND	346.8
SO TOWER	349.8
PENSACOLA DEPARTURE	385.4
EASTERN COMMON	389.1
INSTRUCTOR COMMON	121.95

DEPARTURE ROUTE DESCRIPTION:

AFTER TAKEOFF, TURN TO 090°,* CLIMB AND MAINTAIN 900, 100 KIAS, TO INTERCEPT THE NSE 135 RADIAL AND TRACK OUTBOUND. INTERCEPT THE 6.5 DME ARC CLIMBING TO 1500. FOLLOW THE 6.5 DME ARC TO INTERCEPT THE NSE 090 RADIAL OUTBOUND. MAINTAIN 1500 UNTIL BALDY.

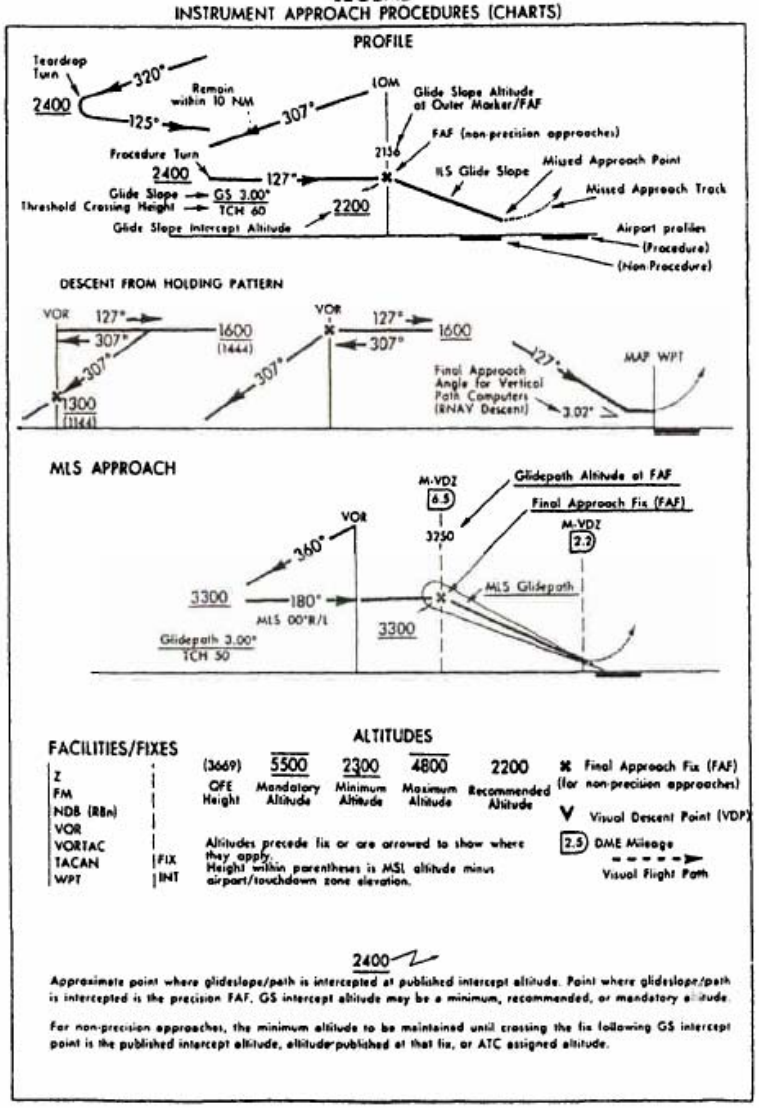
NOTE: *RWY 32 DEPT. TURN 140°(DOWNWIND) UNTIL ABEAM APPROACH END OF RWY 32, THEN TURN TO 090° HDG.





LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)



XVI
LEGEND

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

Hard Surface | Other Than Hard Surface | Overruns, Taxiways, Parking Areas | Displaced Threshold

Closed Runway | Closed Taxiway | Under Metal Surface Construction | Runway Centerline Lighting

ARRESTING GEAR: Specific arresting gear systems; e.g., BAK-12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots Refer to Appropriate DOD Publications.

uni-directional | bi-directional | Jet Barrier

REFERENCE FEATURES

Buildings .....

Tanks .....

Obstruction .....

Airport Beacon * .....

Runway Radar Reflectors .....

Control Tower * .....

* When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

"Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as overruns or stopways. Where a displaced threshold is shown and/or part of the runway is otherwise not available for landing, an annotation is added to indicate the landing length of the runway; e.g., Rwy13 ldg 5000'."

Runway Weight Bearing Capacity is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes.

Helicopter Alighting Areas

Negative Symbols used to identify Copter Procedures landing point .....

Runway TDZ elevation ..... TDZE 123

Total Runway Gradient ..... 0.8% UP -o- (shown when runway gradient exceeds 0.3%)

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

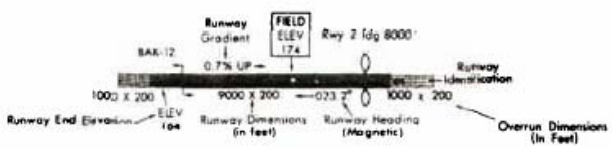
Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram.

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increment.

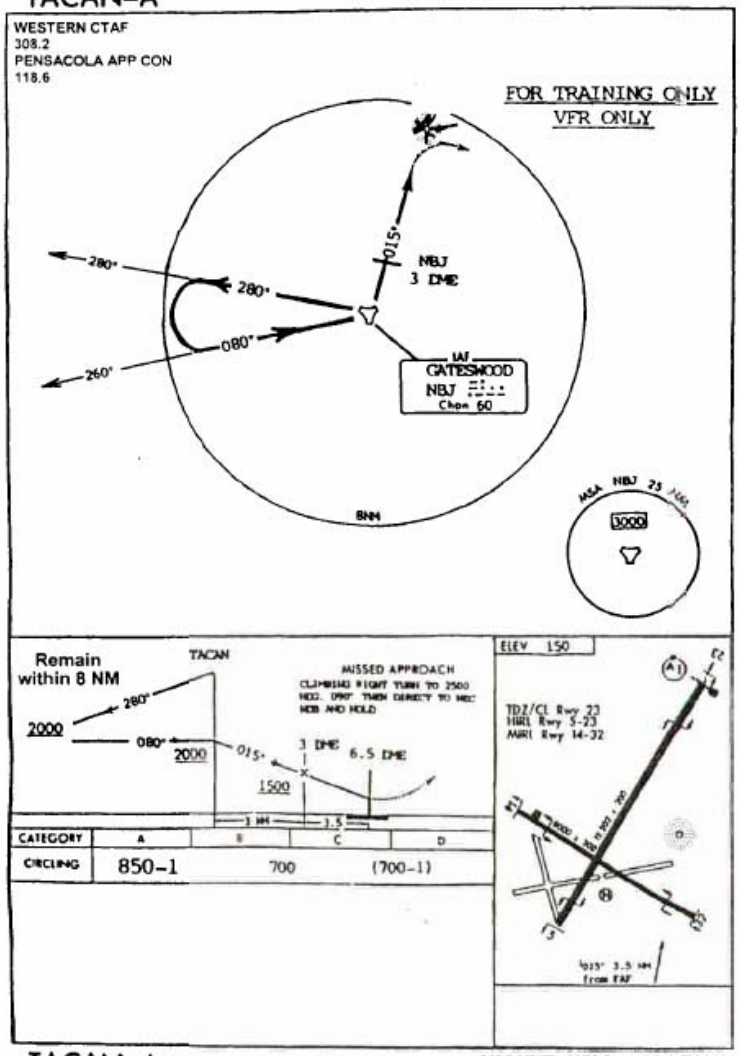
Positional accuracy within ±600 feet unless otherwise noted on the chart.



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer based Navigation Systems (i.e., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. Requisition for the creation of airport diagrams must meet the above criteria and will be approved by the FAA or DOD on a case-by-case basis.

TACAN-A



CATEGORY	A	B	C	D
CIRCLING	850-1	700	(700-1)	

SITE 8-ONE DEPARTURE

SITE 8 NOLF
PENSACOLA, FLORIDA

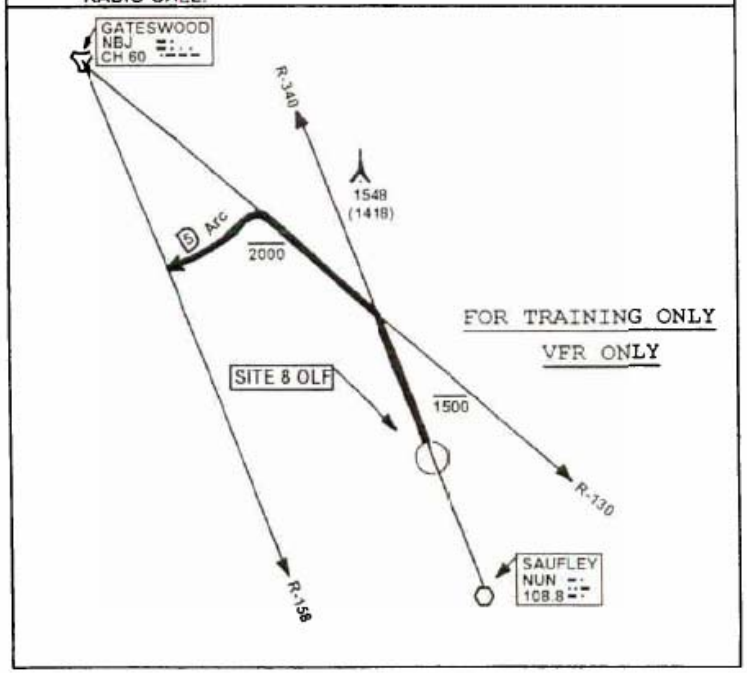
FREQUENCIES:

SITE 8 361.1
WESTERN COMMON TRAFFIC ADVISORY FREQUENCY 308.2

DEPARTURE ROUTE DESCRIPTION:

AFTER TAKEOFF INTERCEPT THE NUN 340° RADIAL CLIMB TO 1500. INTERCEPT THE GATESWOOD 130° RADIAL CLIMBING TO 2000'. INTERCEPT THE GATESWOOD 5 DME ARC MAINTAIN 2000'.

NOTE: DEPARTURES MAY BE MADE TO THE NORTH WITH APPROPRIATE RADIO CALL.



METAR CONVERSION CHART

CEILING

PUBLISHED MINIMA FEET	REQUIRED EQUIVALENT METERS
100	30
200	60
300	90
400	120
500	150
600	180
700	210
800	240
900	270
1000	300
1100	330
1200	360
1300	390
1400	420
1500	450

RUNWAY VISIBILITY

RVR VALUES PUBLISHED IN HUNDREDS OF FEET	STATUTE MILE EQUIVALENT	NAUTICAL MILE EQUIVALENT	METERS EQUIVALENT	KILOMETERS EQUIVALENT
12	1/4 (Helicopter Only)	2/10	370	.4
16	1/4	2/10	490	.5
20	3/8	3/10	610	.6
24	1/2	4/10	730	.7
32	5/8	6/10	970	1.0
40	3/4	7/10	1220	1.2
45	7/8	8/10	1370	1.4
50	1	9/10	1520	1.5
60	1-1/4	1-1/10	1830	1.8

PREVAILING VISIBILITY

STATUTE MILES	NAUTICAL MILES	METERS	KILOMETERS
1/8	1/10	200	.2
1/4	2/10	400	.4
3/8	3/10	600	.6
	4/10	700	.7
1/2		800	.8
	5/10	900	.9
5/8		1000	1.0
	6/10	1100	1.1
3/4		1200	1.2
	7/10	1300	1.3
7/8		1400	1.4
	8/10	1500	1.5
1		1600	1.6
	9/10	1700	1.7
1-1/8	1	1800	1.8
1-1/4	1-1/10	2000	2.0
1-3/8	1-2/10	2200	2.2
1-1/2	1-3/10	2400	2.4
1-5/8	1-4/10	2600	2.6
1-3/4	1-5/10	2800	2.8
1-7/8	1-6/10	3000	3.0
2	1-7/10	3200	3.2
	1-8/10	3400	3.4
2-1/4	1-9/10	3600	3.6
	2	3700	3.7
	2-1/10	3900	3.9
2-1/2	2-2/10	4000	4.0
2-5/8		4200	4.2
	2-3/10	4300	4.3
2-3/4		4400	4.4
	2-4/10	4500	4.5
2-7/8		4600	4.6
	2-5/10	4700	4.7
3	2-6/10	4800	4.8
	2-7/10	5000	5.0
	2-8/10	5200	5.2
	2-9/10	5400	5.4
	3	6000	6.0

RADAR INSTRUMENT APPROACH MINIMUMS

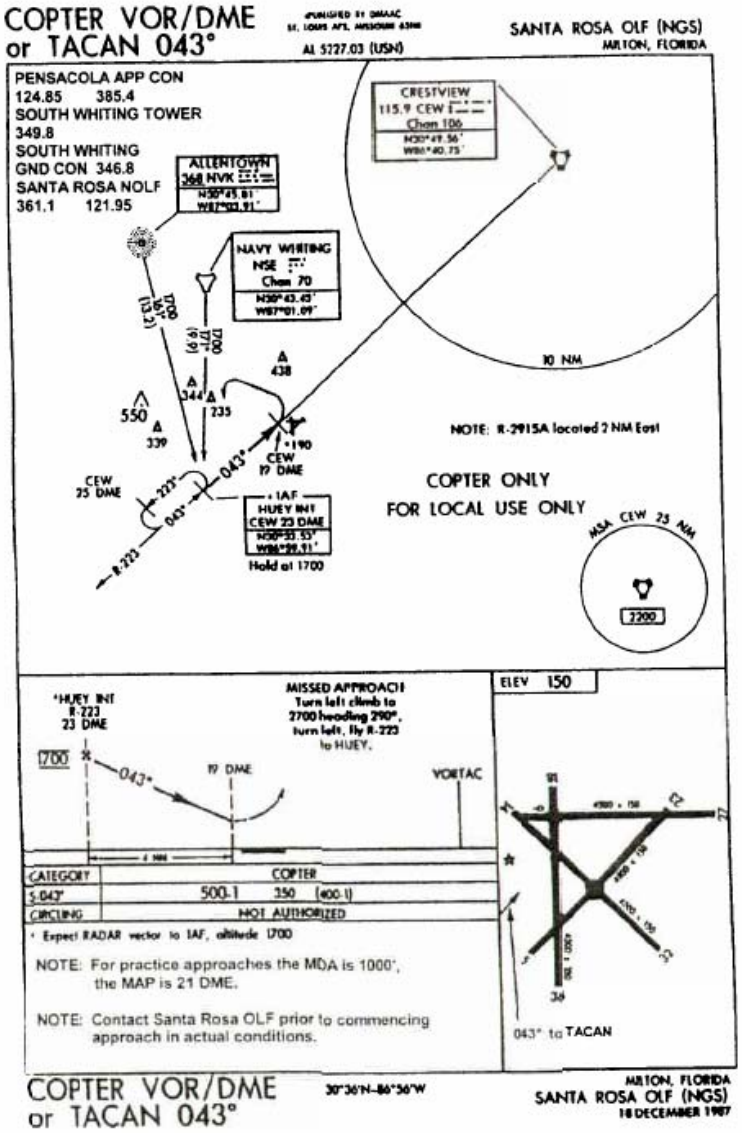
ANDALUSIA-OPP (1 JULY 95) ELEV. 330

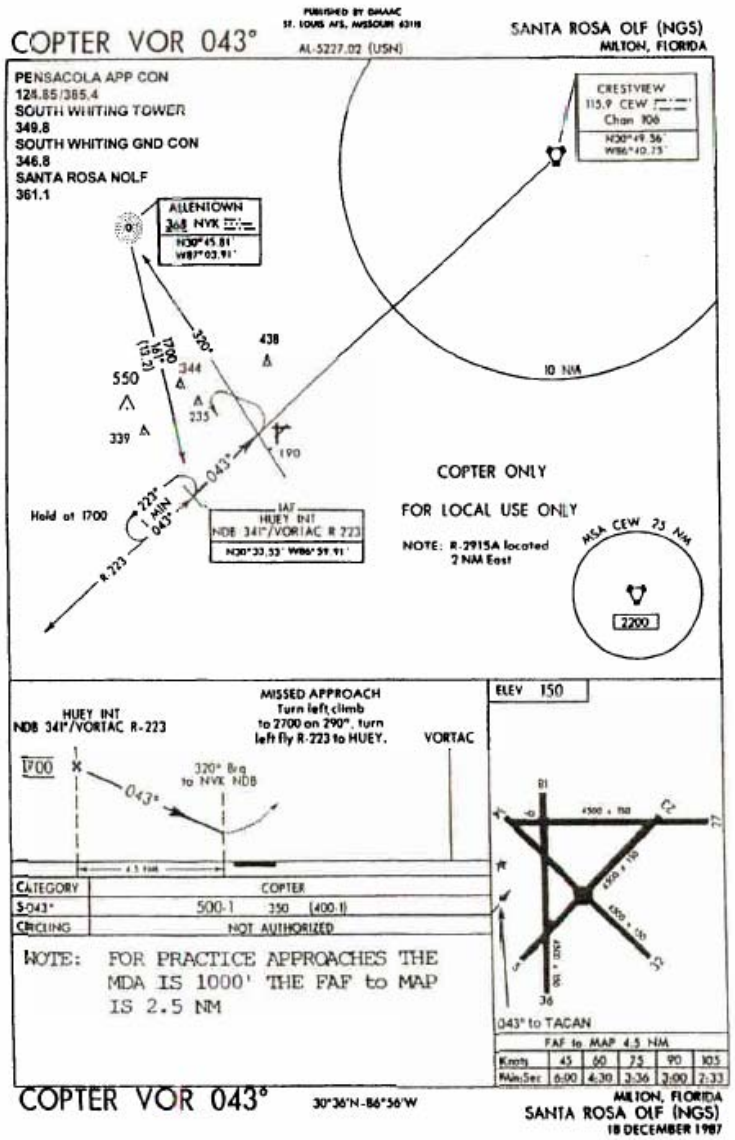
RADAR - (E) ⓐ 120.75 280.9 ⓑ 132.8 304.5

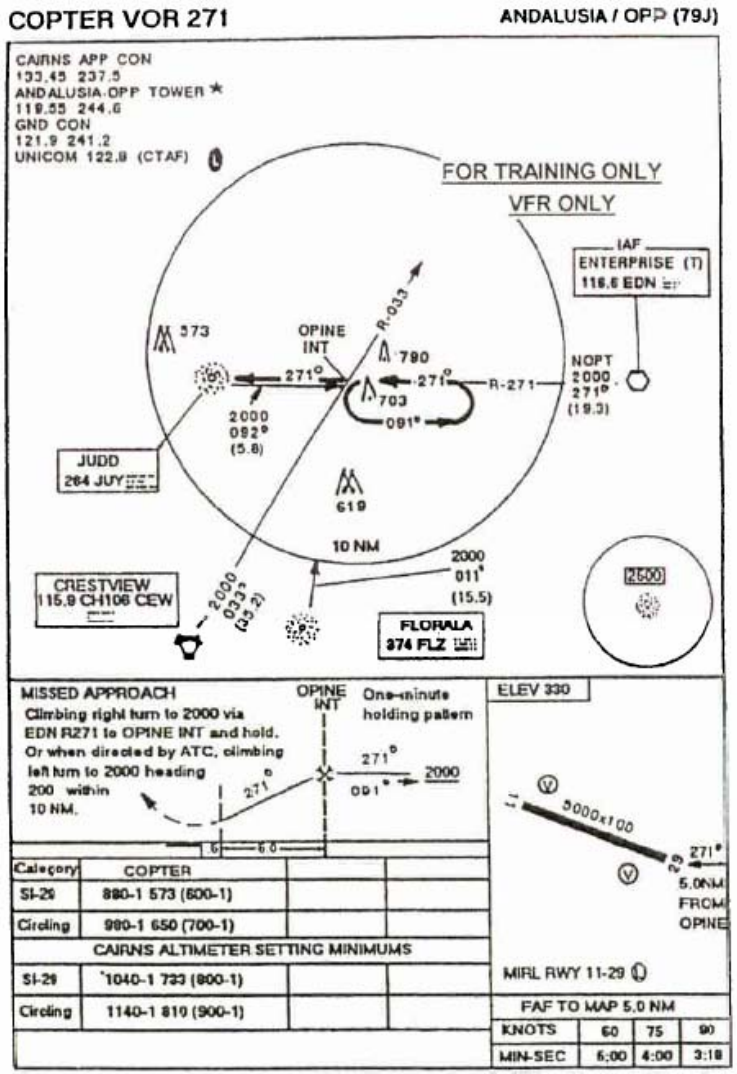
	RWY	CS/TCH/RPI	CAT	DH/ MAD/VIS	MAT/ MAA	CEIL-VIS
PAR	29	3.0°/37.32/306	ABCD	520-3/4	200	(200-3/4)
ASR	29 ⓒ		ABCD	560-1	250	(250-1)
CIR	11-29		A	620-1	310	(300-1)
			B	640-1	330	(400-1)
			C	720-1 1/2	410	(400-1 1/2)
			D	740-1 1/2	430	(500-1 1/2)

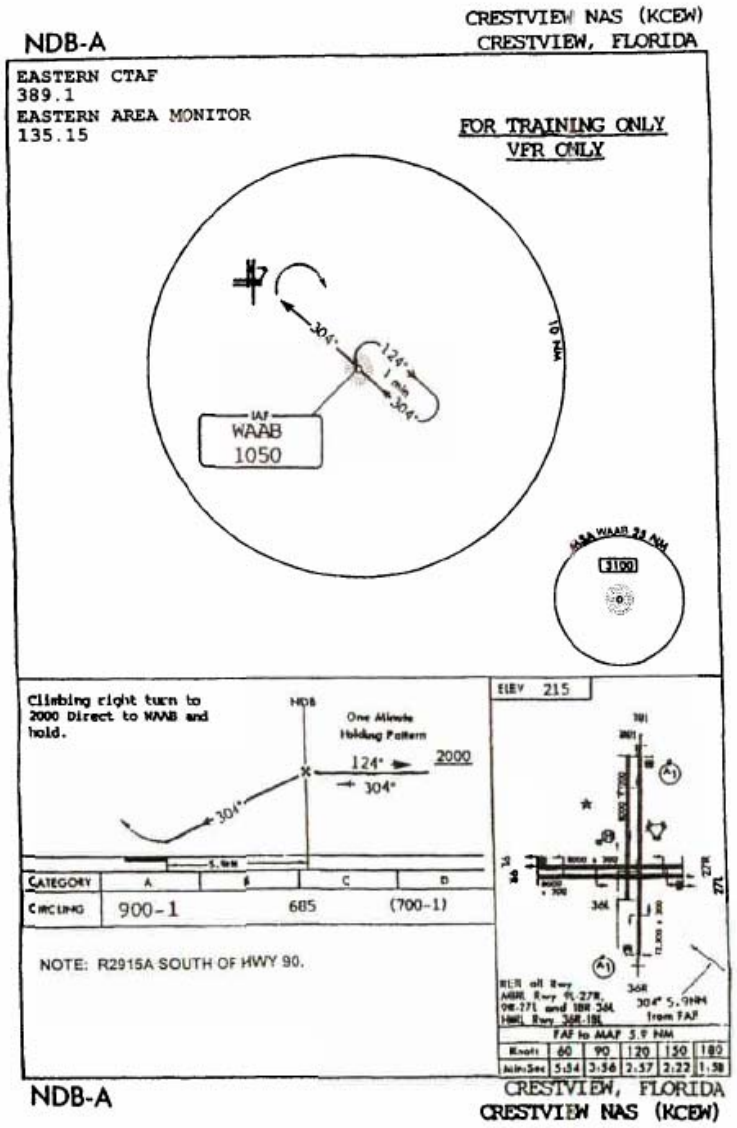
ⓐ Feeder ⓑ Final
ⓒ ASR RWY 29 Descent Gradient, 299 Feet/NM

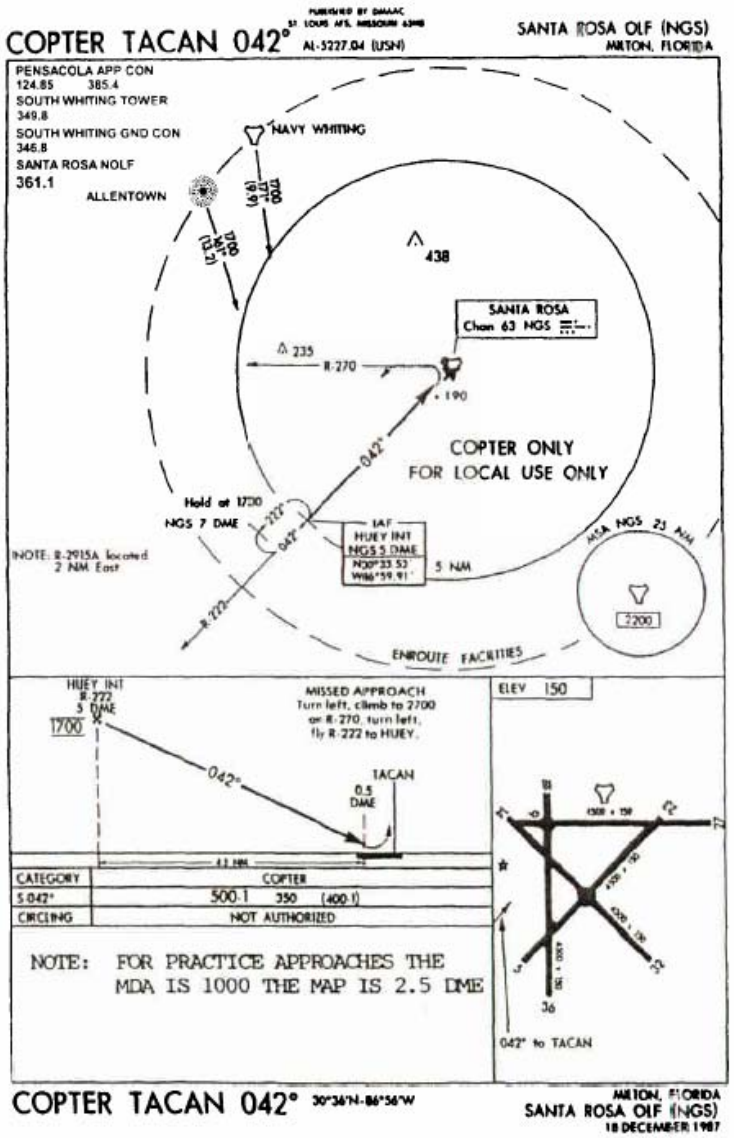
See current DOD FLIP publication for RADAR Instrument Approach Minimums




COPTER VOR 043°
PUBLISHED BY DMAAC
ST. LOUIS AFS, MISSOURI 63118
AL-5227.02 (USN)
SANTA ROSA OLF (NGS)
MILTON, FLORIDA
PENSACOLA APP CON
124.85/385.4
SOUTH WHITING TOWER
349.8
SOUTH WHITING GND CON
346.8
SANTA ROSA NOLF
361.1
CRESTVIEW
115.9 CEW
Chan 106
ALLENTOWN
368 NVK
N30°45.81'
W87°03.91'
10 NM
COPTER ONLY
FOR LOCAL USE ONLY
NOTE: R-2915A located 2 NM East
Hold at 1700
IAF
HUEY INT
NDB 341°/VORTAC R 223
N30°33.53' W86°59.91'
MSA CEW 25 NM
2200
HUEY INT
NDB 341°/VORTAC R-223
MISSED APPROACH
Turn left climb to 2700 on 290°, turn left fly R-223 to HUEY.
VORTAC
320° Brg to NVK NDB
ELEV 150
CATEGORY
COPTER
S-043°
500-1 350 (400-1)
CIRCLING
NOT AUTHORIZED
NOTE: FOR PRACTICE APPROACHES THE MDA IS 1000' THE FAF to MAP IS 2.5 NM
043° to TACAN
FAF to MAP 4.5 NM
Knots 45 60 75 90 105
Min:Sec 6:00 4:30 3:36 3:00 2:33
COPTER VOR 043°
30°36'N-86°56'W
MILTON, FLORIDA
SANTA ROSA OLF (NGS)
18 DECEMBER 1987


COPTER VOR 271
ANDALUSIA / OPP (79J)
CAIRNS APP CON
133.45 237.5
ANDALUSIA-OPP TOWER
119.55 244.6
GND CON
121.9 241.2
UNICOM 122.8 (CTAF)
FOR TRAINING ONLY
VFR ONLY
IAF
ENTERPRISE (T)
116.6 EDN
OPINE INT
R-033
R-271
NOPT
2000
271°
(19.3)
JUDD
264 JUY
10 NM
CRESTVIEW
115.9 CH106 CEW
FLORALA
374 FLZ
2500
MISSED APPROACH
Climbing right turn to 2000 via EDN R271 to OPINE INT and hold. Or when directed by ATC, climbing left turn to 2000 heading 200 within 10 NM.
OPINE INT
One-minute holding pattern
ELEV 330
5000x100
5.0NM FROM OPINE
MIRL RWY 11-29
Category
COPTER
SI-29
880-1 573 (600-1)
Circling
980-1 650 (700-1)
CAIRNS ALTIMETER SETTING MINIMUMS
SI-29
1040-1 733 (800-1)
Circling
1140-1 810 (900-1)
FAF TO MAP 5.0 NM
KNOTS 60 75 90
MIN-SEC 5:00 4:00 3:18


NDB-A
CRESTVIEW NAS (KCEW)
CRESTVIEW, FLORIDA
EASTERN CTAF
389.1
EASTERN AREA MONITOR
135.15
FOR TRAINING ONLY
VFR ONLY
IAF
WAAB
1050
10 NM
MSA WAAB 23 NM
3100
Climbing right turn to 2000 Direct to WAAB and hold.
NDB
One Minute Holding Pattern
124°
304°
2000
CATEGORY
A
B
C
D
CIRCLING
900-1
685
(700-1)
NOTE: R2915A SOUTH OF HWY 90.
ELEV 215
FAF to MAP 5.9 NM
Knots
60
90
120
150
180
Min:Sec
5:54
3:56
2:57
2:22
1:58
NDB-A
CRESTVIEW, FLORIDA
CRESTVIEW NAS (KCEW)


COPTER TACAN 042°
AL-5227.04 (USN)
SANTA ROSA OLF (NGS)
MILTON, FLORIDA
PENSACOLA APP CON
124.85 385.4
SOUTH WHITING TOWER
349.8
SOUTH WHITING GND CON
346.8
SANTA ROSA NOLF
361.1
ALLENTOWN
NAVY WHITING
438
SANTA ROSA
Chan 63 NGS
235
R-270
190
042°
COPTER ONLY
FOR LOCAL USE ONLY
Hold at 1700
NGS 7 DME
IAF
HUEY INT
NGS 5 DME
5 NM
MSA NGS 23 NM
2200
NOTE: R-2915A located 2 NM East
R-222
ENROUTE FACILITIES
HUEY INT
R-222
5 DME
1700
042°
TACAN
0.5 DME
MISSED APPROACH
Turn left, climb to 2700 on R-270, turn left, fly R-222 to HUEY.
ELEV 150
CATEGORY
COPTER
5.042°
500-1
350
(400-1)
CIRCLING
NOT AUTHORIZED
NOTE: FOR PRACTICE APPROACHES THE MDA IS 1000 THE MAP IS 2.5 DME
042° to TACAN
COPTER TACAN 042°
30°36'N-86°56'W
MILTON, FLORIDA
SANTA ROSA OLF (NGS)
18 DECEMBER 1987

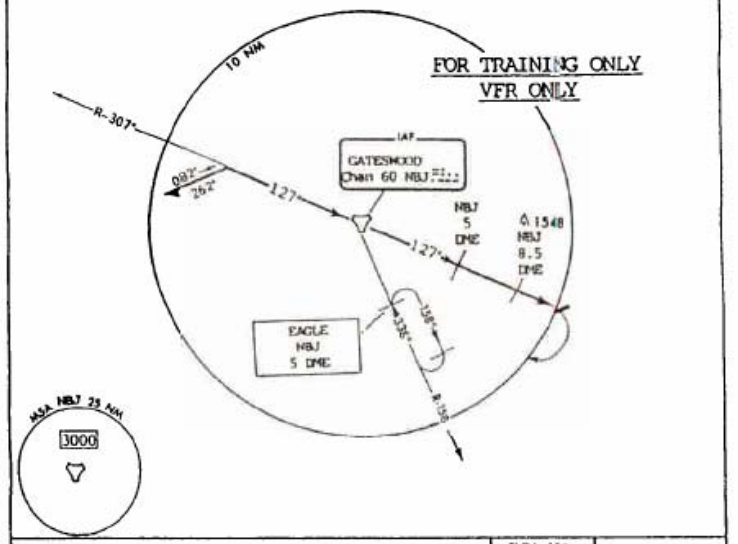
TACAN-A

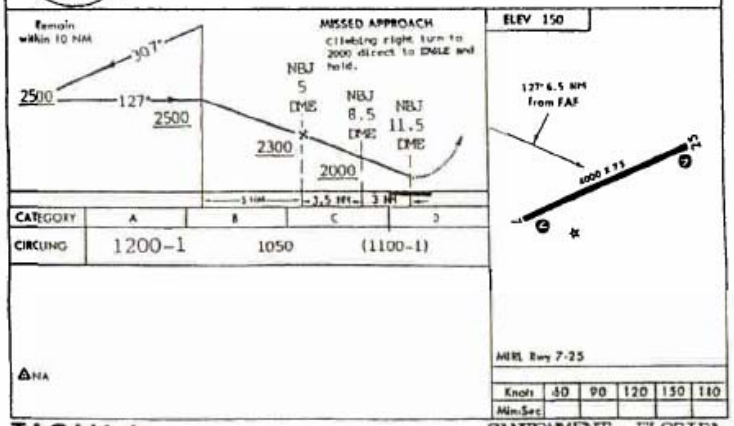
MONTE OLF (KMTE)
CANTONMENT, FLORIDA

WESTERN CTAF
308.2
PENSACOLA APP CON
118.6

CAUTION: Twr on NBJ 105R at 7.5 DME. 1548 MSL

FOR TRAINING ONLY
VFR ONLY





CATEGORY	A	B	C	D
CIRCLING	1200-1	1050	(1100-1)	

Knots	60	90	120	150	180
Min:Sec					

NA

TACAN-A

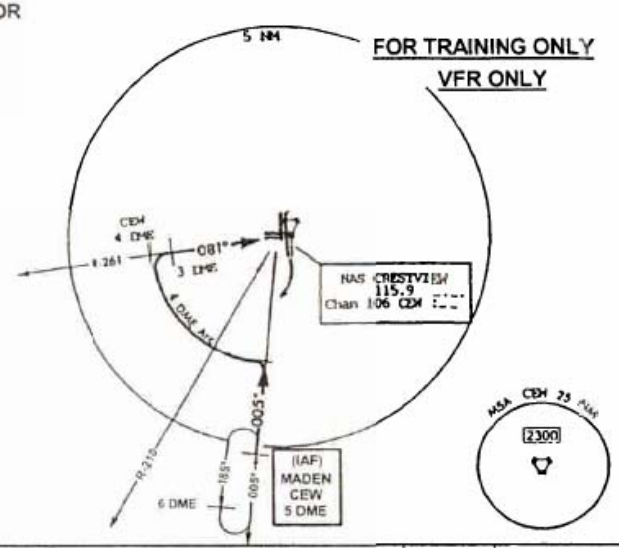
CANTONMENT, FLORIDA
MONTE OLF (KMTE)

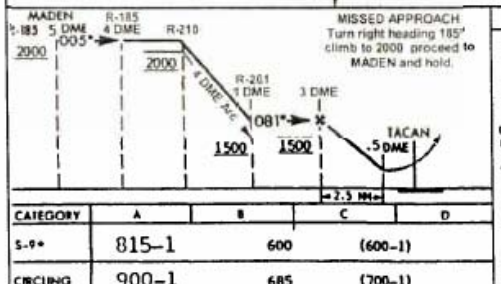
TACAN RWY 9R

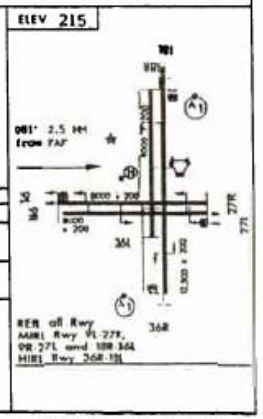
CRESTVIEW NAS (KCEW)
CRESTVIEW, FLORIDA

EASTERN CTAF
389.1
EASTERN AREA
MONITOR
135.15

FOR TRAINING ONLY
VFR ONLY







CATEGORY	A	B	C	D
S-9*	815-1	600	(600-1)	
CIRCLING	900-1	685	(700-1)	

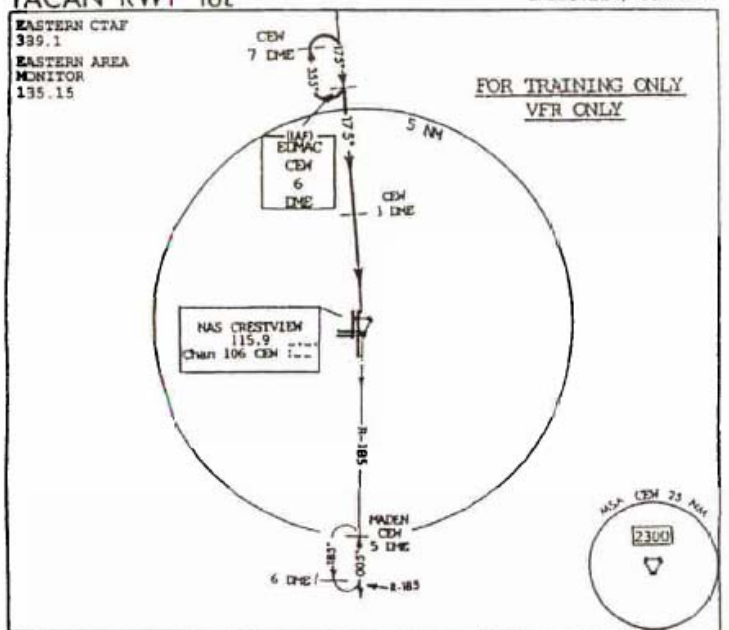
WARNING: R2915A SOUTH OF HWY 90.

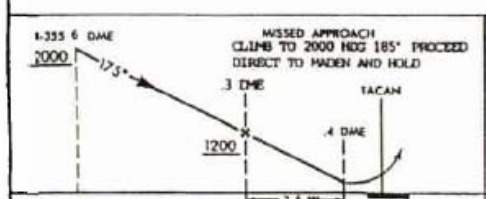
TACAN RWY 9R

CRESTVIEW, FLORIDA
CRESTVIEW NAS (KCEW)

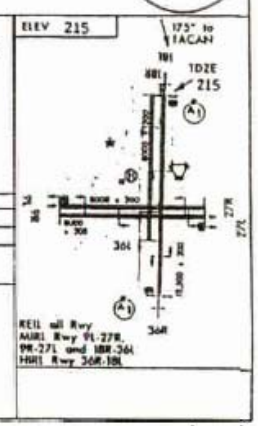
TACAN RWY 18L

CRESTVIEW NAS (KCEW)
CRESTVIEW, FLORIDA





CATEGORY	A	B	C	D
S-18L	715-1	500	(500-1)	
CIRCLING	815-1	600	(600-1)	

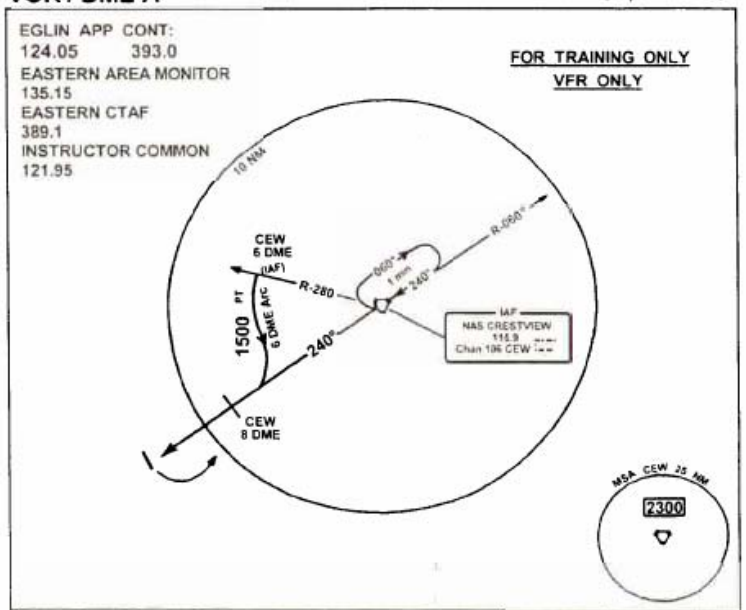


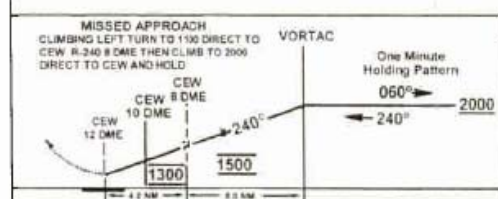
TACAN RWY 18L

CRESTVIEW NAS (KCEW)
CRESTVIEW, FLORIDA

VOR / DME-A

JUNIPER OLF
MILTON, FLORIDA





CATEGORY	A	B	C	D
CIRCLING	900-1	700	(700-1)	

NOTE: Ensure aircraft is below 1400 MSL by CEW 240 at 9 DME to avoid Class C airspace.

NOTE: Check-out of Eastern Area with appropriate ATC.

NOTE: Ensure 121.95 is monitored prior to Point Juniper.

NOTE: Harold traffic has right-of-way.

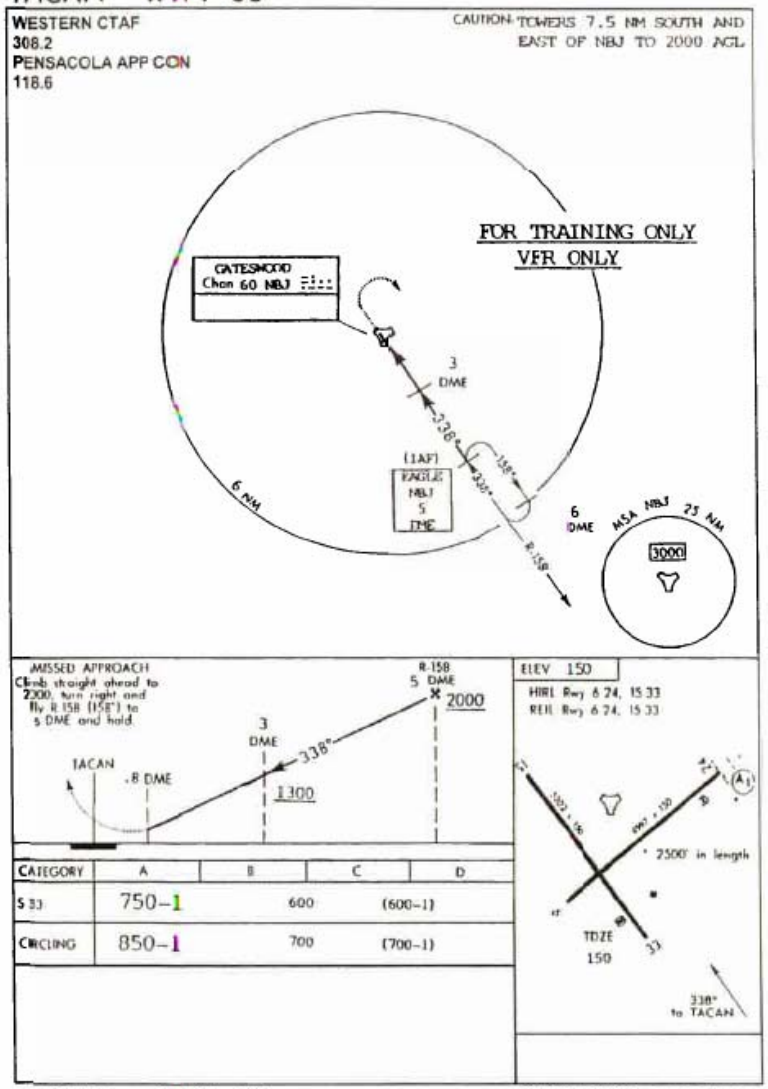
Knots	60	90	120	150	180
Min:Sec					

VOR / DME-A

MILTON, FLORIDA
JUNIPER OLF

TACAN RWY 33

GATESWOOD MCAS (KNBJ)
GATESWOOD, ALABAMA



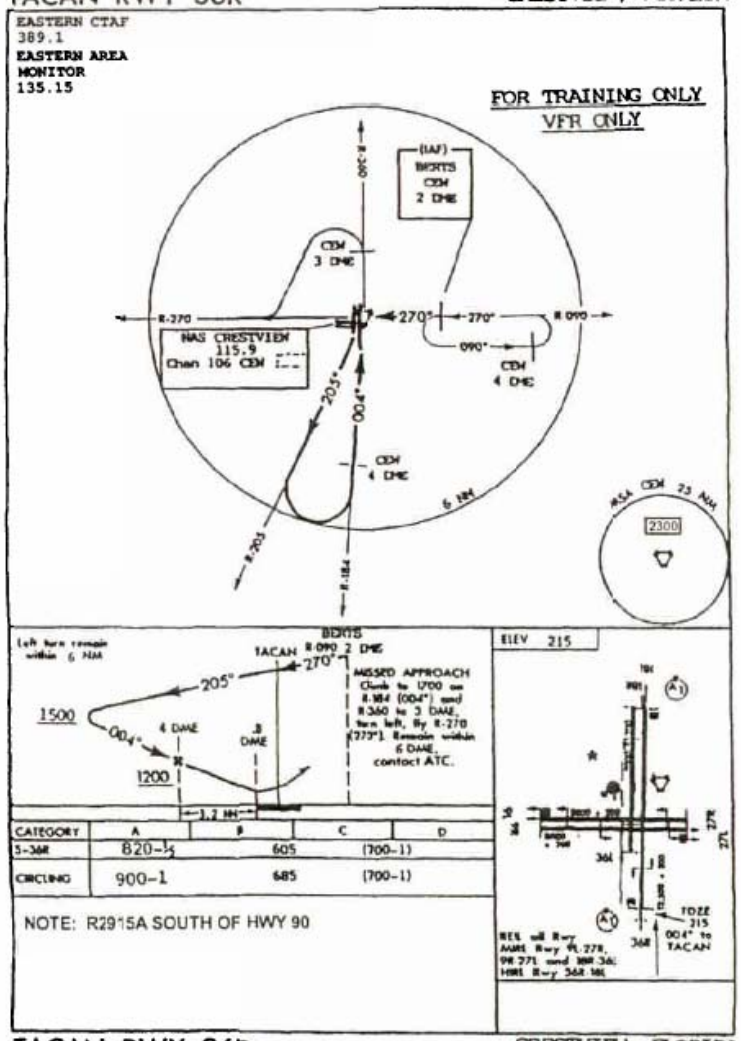
CATEGORY	A	B	C	D
S 33	750–1	600	(600–1)	
CIRCLING	850–1	700	(700–1)	

TACAN RWY 33

GATESWOOD, ALABAMA
GATESWOOD MCAS (KNBJ)

TACAN RWY 36R

CRESTVIEW NAS (KCEW)
CRESTVIEW, FLORIDA



CATEGORY	A	B	C	D
S-36R	820–½	605	(700–1)	
CIRCLING	900–1	685	(700–1)	

NOTE: R2915A SOUTH OF HWY 90

TACAN RWY 36R

CRESTVIEW, FLORIDA
CRESTVIEW NAS (KCEW)

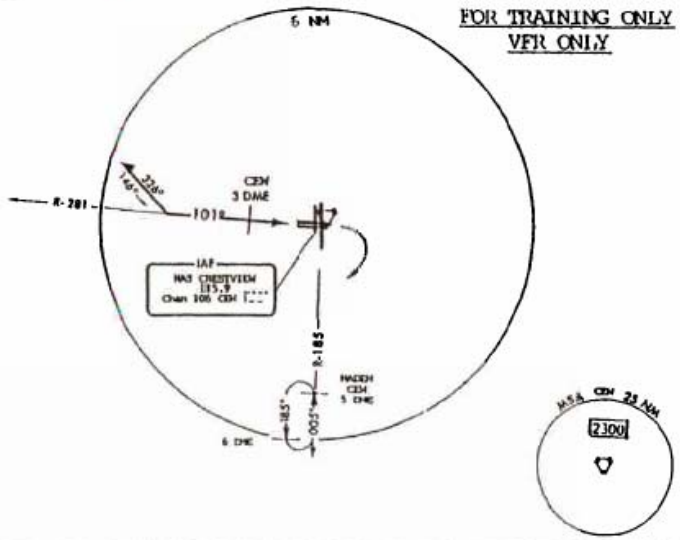
COPTER VOR RWY 9L

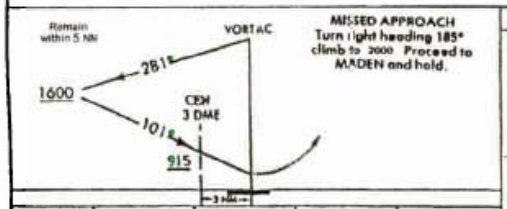
CRESTVIEW NAS (KCEW
CRESTVIEW, FLORIDA

EASTERN CTAF
389.1

EASTERN AREA MONITOR
135.15

FOR TRAINING ONLY
VFR ONLY

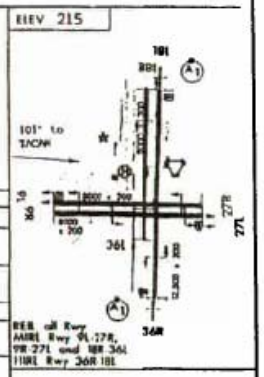




MISSED APPROACH
Turn right heading 185° climb to 2000. Proceed to MADEN and hold.

CATEGORY	A	B	C	D
S-9L	915–1	700	(700–1)	
CIRCLING	1000–1	785	(800–1)	
DME MINIMA				
S-9L	815–1	600	(600–1)	
CIRCLING	900–1	685	(700–1)	

ELEV 215



REB all Rwy
AIRL Rwy 9L-27R, 9R-27L and 18R-36L
HIRL Rwy 36R-18L

COPTER VOR RWY 9L

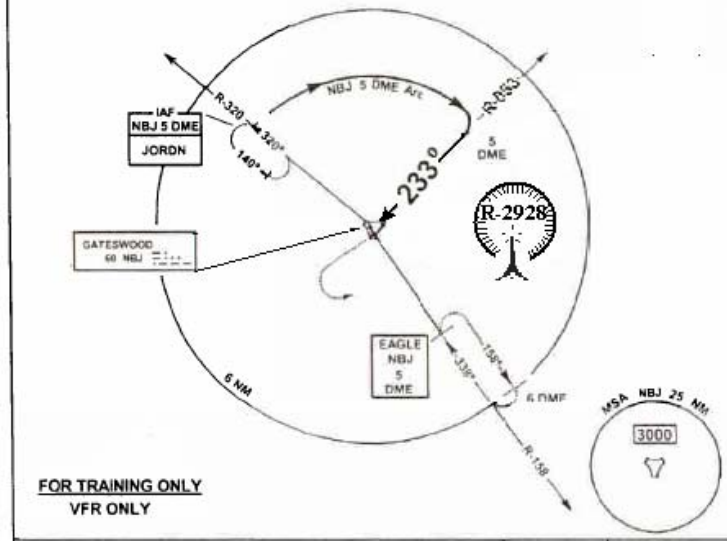
CRESTVIEW, FLORIDA
CRESTVIEW NAS (KCEW)

TACAN RWY 24

GATESWOOD MCAS (KNBJ)
GATESWOOD, ALABAMA

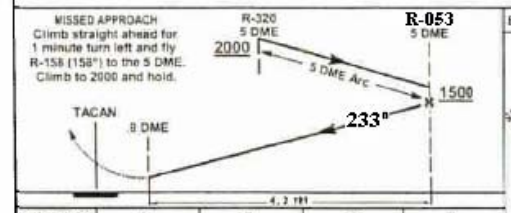
WESTERN CTAF
308.2
PENSACOLA APP CON
118.6

CAUTION: TOWERS 7.5 NM SOUTH AND EAST OF NBJ TO 2000 AGL



FOR TRAINING ONLY
VFR ONLY

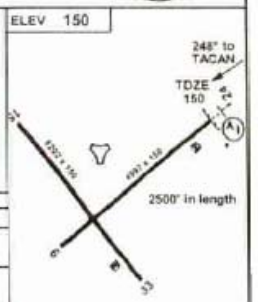
MISSED APPROACH
Climb straight ahead for 1 minute turn left and fly R-158 (158°) to the 5 DME. Climb to 2000 and hold.



CATEGORY	A	B	C	D
S-24	850-1	700	(700-1)	
CIRCLING	950-1	800	(800-1)	

NOTE: R-2928 contains a high volume of alpaca activity. Use extreme caution.

ELEV 150



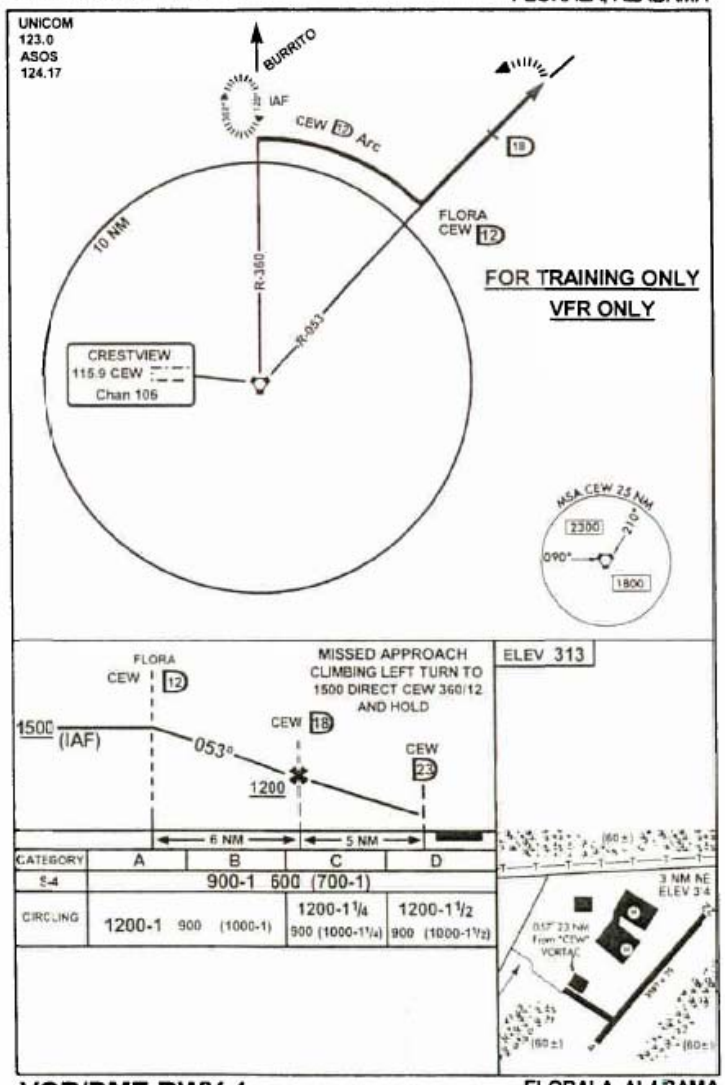
HIRL Rwy 6-24, 15-33
REIL Rwy 6-24, 15-33

TACAN RWY 24

GATESWOOD, ALABAMA
GATESWOOD MCAS (KNBJ)

VOR/DME RWY 4

FLORALA MUNI (OJ4)
FLORALA, ALABAMA



VOR/DME RWY 4

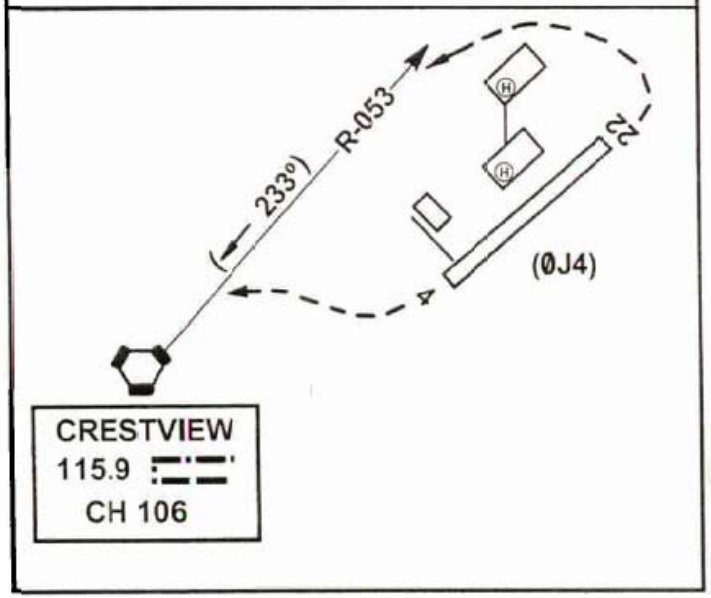
FLORALA, ALABAMA
FLORALA MUNI (ØJ4)

BURRITO-ONE DEP

FLORALA MUNI 0J4
FLORALA, ALABAMA

FREQUENCIES:
FLORALA UNICOM: 123.0
EASTERN COMMON 389.1
ASOS 124.17

DEPARTURE ROUTE DESCRIPTION:
AFTER TAKEOFF, MAINTAIN RWY HDG. PASSING 500 AGL, TURN TO INT THE CEW 053 RAD AND TRACK INBOUND. CLIMB TO 2000 AND REPORT DME.



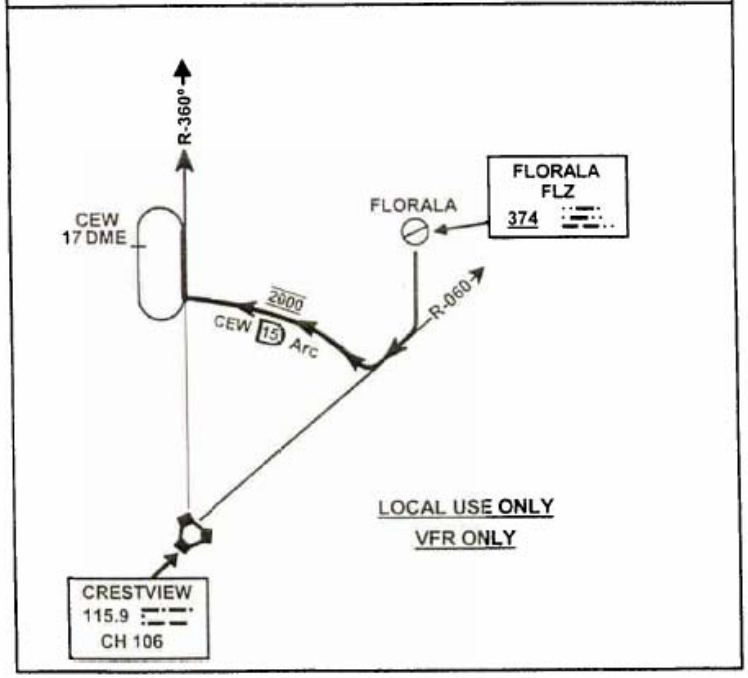
FLORALA ONE DEPARTURE

FLORALA MUNI (0J4)
FLORALA, ALABAMA

FREQUENCIES:
FLORALA UNICOM 123.0
EASTERN COMMON 389.1
ASOS 124.17

DEPARTURE ROUTE DESCRIPTION

AFTER TAKEOFF, HDG 180, INTERCEPT CEW R-060 AND TRACK INBOUND, TO 15 DME, ARC TO R-360 CLIMB TO MAINTAIN 2000

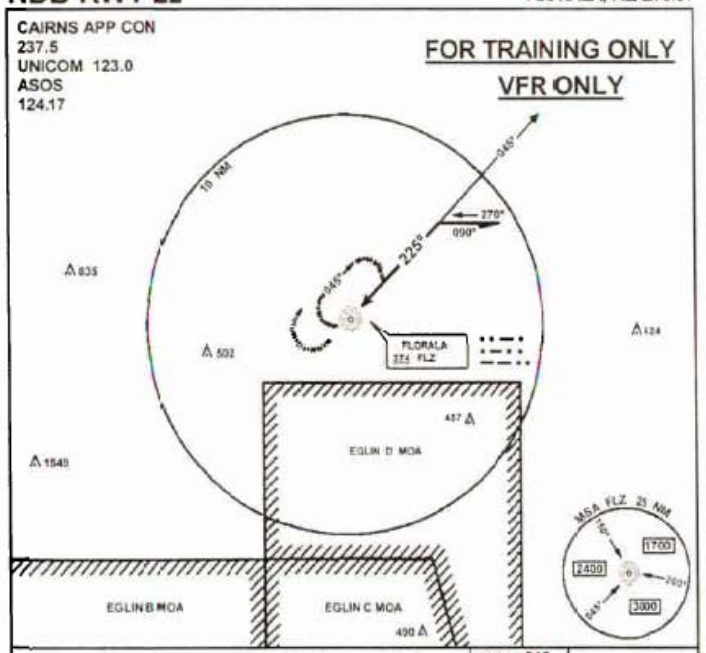


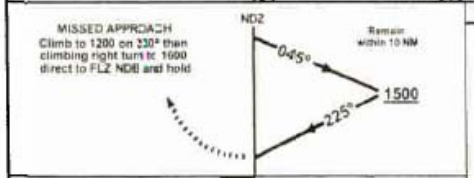
NDB RWY 22

FLORALA MUNI (0J4)
FLORALA, ALABAMA

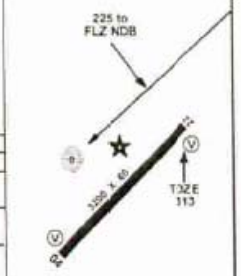
CAIRNS APP CON
237.5
UNICOM 123.0
ASOS
124.17

FOR TRAINING ONLY
VFR ONLY





ELEV 313



CATEGORY	A	B	C	D
S-22	800-1 487 (500-1)		NA	
CIRCLING	900-1 587 (600-1)		NA	
ASR22	800-1 487 (500-1)		NA	

Knots	60	90	120	150	160
Min:Sec					

FBO: 334 - 858 - 4843

31° 03'N - 86° 20'W

NDB RWY 22

FLORALA, ALABAMA
FLORALA MUNI (0J4)